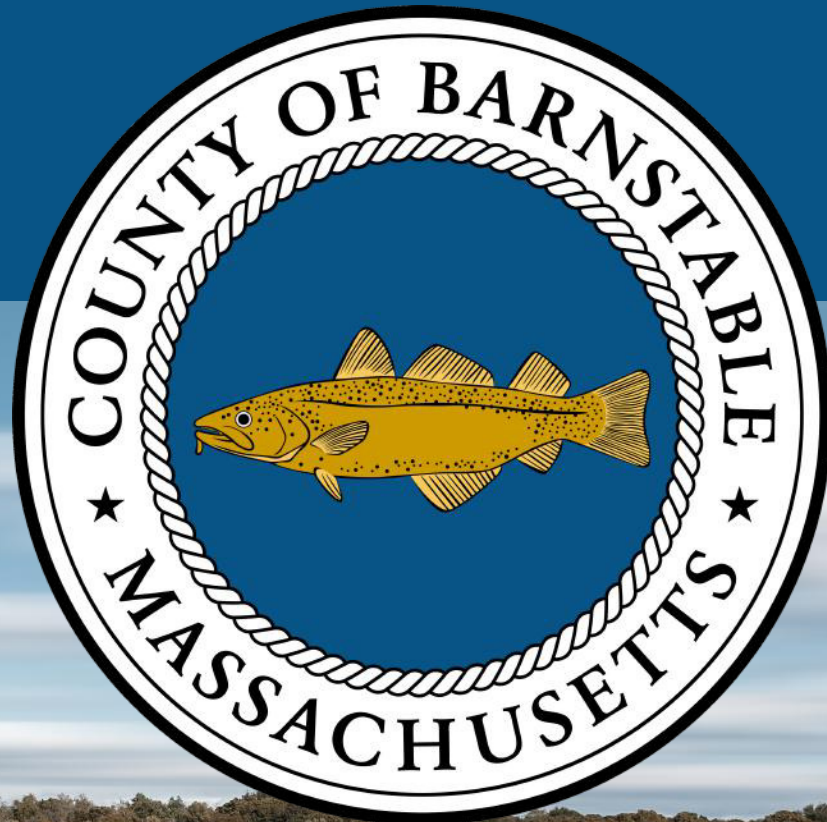


BARNSTABLE COUNTY

CAPE COD REGIONAL GOVERNMENT



2021 ANNUAL REPORT

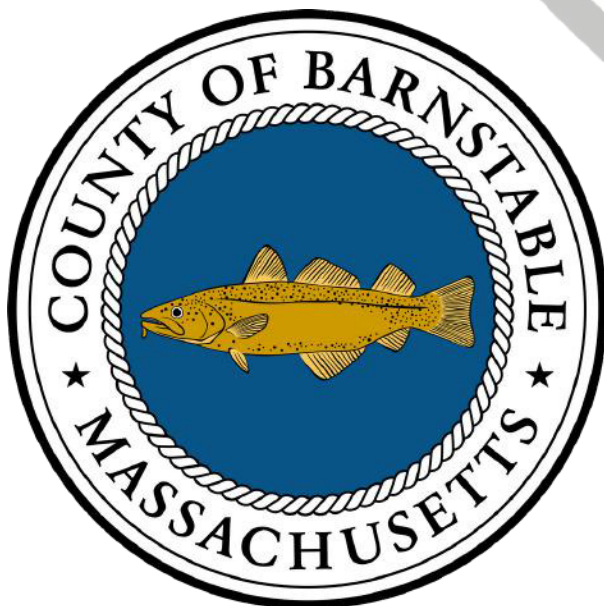


FY'21

2021 Annual Report

BARNSTABLE COUNTY

CAPE COD REGIONAL GOVERNMENT



FROM THE BOARD OF REGIONAL COMMISSIONERS

To the Citizens of Barnstable County:

The Annual Report of the Cape Cod Regional Government for Fiscal Year 2021 contains the cumulative report of the Board of Regional Commissioners and the report of the County Treasurer for the fiscal year ending June 30, 2021. This publication hereby submitted is 122nd in the series.

The report of the Board of Regional Commissioners reflects the acts performed during the preceding fiscal year. The report of the County Treasurer provides a record of the county's receipts and expenditures, the balances at year-end in the General Fund, the Cape Cod Environmental Protection Fund, and a listing of the tax assessments to the towns of Barnstable County.

On behalf of the Board of Regional Commissioners, we thank all county employees for their efforts in serving the residents of Barnstable County in 2021.

Respectfully submitted,

Sheila Lyons, Chair

Barnstable County Board of Regional Commissioners





5	Board of Regional Commissioners
13	Assembly of Delegates
14	Finance & County Treasurer
20	Purchasing Division
25	Cape Cod Commission
36	AmeriCorps Cape Cod
45	Cape Cod Cooperative Extension
60	Cape Cod Center for Public Safety Training
62	Children's Cove
67	Barnstable County Dredge
71	Facilities
75	Department of Health and Environment
88	Department of Human Services
94	Information Technology
97	Registry of Deeds

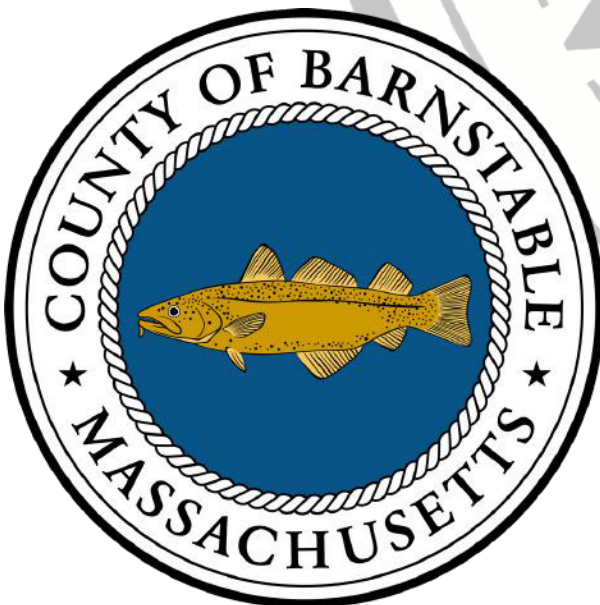
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BOARD OF REGIONAL COMMISSIONERS

Report of the Barnstable County
**BOARD OF REGIONAL
COMMISSIONERS**





BOARD OF REGIONAL COMMISSIONERS

Cape Cod Regional Government (known as Barnstable County)

Superior Courthouse

P.O. Box 427

3195 Main Street

Barnstable, MA 02630

508-375-6648 | Fax: 508-362-4136

www.barnstablecounty.org

REPORT OF THE BARNSTABLE COUNTY BOARD OF REGIONAL COMMISSIONERS

For the Period July 1, 2021 and ending June 30, 2021

BOARD OF REGIONAL COMMISSIONERS

Sheila Lyons, Chair (Wellfleet)

774-314-2339 | sheila.lyons@barnstablecounty.org

Ronald Bergstrom, Vice-Chair (Chatham)

508-470-3893 | rbergstrom@barnstablecounty.org

Mark Forest (Yarmouth)

774-314-2289 | mark.forest@barnstablecounty.org

ADMINISTRATION

Jack Yunits, Jr., County Administrator (through April 2021)

508-375-6648 | jack.yunits@barnstablecounty.org

Elizabeth Albert, County Administrator (from April 2021)

508-375-6626 | balbert@barnstablecounty.org

Stephen Tebo, Assistant County Administrator (through

May 1, 2021) 508-375-6603 | stebo@barnstablecounty.org

Vacant, Assistant County Administrator (through June 30, 2021)

Owen Fletcher, Executive Assistant (through April 2021)

508-375-6648 | owen.fletcher@barnstablecounty.org

Robin Young, Executive Assistant (from April 2021)

508-375-6648 | robin.young@barnstablecounty.org

Justyna Marczak, Human Resources Director

508-375-6646 | jmarczak@barnstablecounty.org

Nancy Cushing, Payroll & Benefits Coordinator

508-375-6647 | ncushing@barnstablecounty.org

Susan Quinones, Human Rights Commission Coordinator

508-375-6912 | hrc@barnstablecounty.org

Sonja Sheasley, Communications Manager

508-375-6896 | sonja.sheasley@barnstablecounty.org

ABOUT:

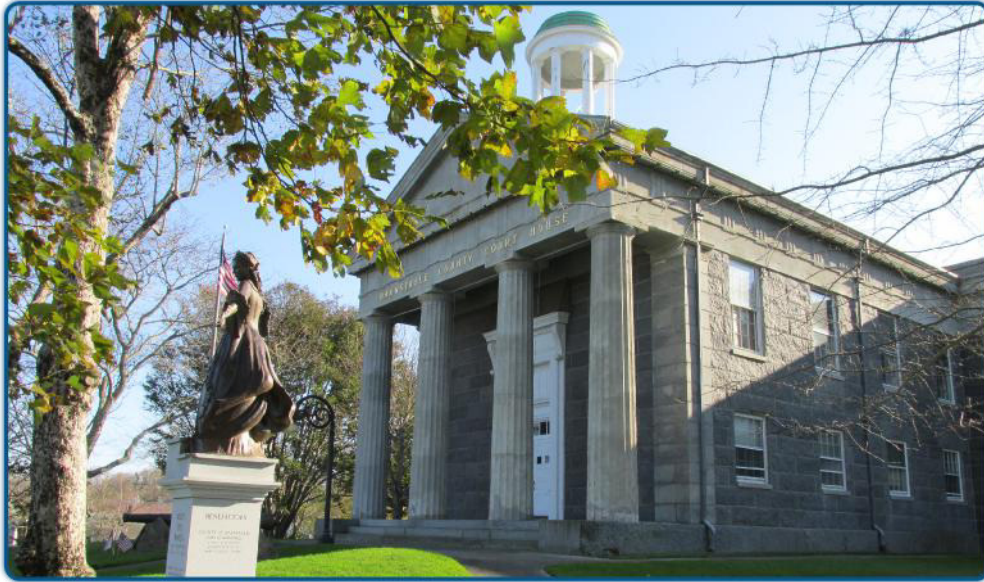
The Board of Regional Commissioners is the Executive Body for the Cape Cod Region-al Government, known as Barnstable County.

“The executive powers of the Cape Cod Regional Government shall be vested solely in the Board of Regional Commissioners and may be exercised whether directly by such board or through the several regional agencies under its direction and supervision.” Barnstable County Home Rule Charter, Sec. 3-2.

There are three members of the Board of Regional Commissioners. They are elected at large on a partisan basis for four-year staggered terms.

RESPONSIBILITIES INCLUDE:

- Director of County agencies
- Preparation of budgets for submittal to the Assembly of Delegates
- Care of County property
- Supervision of revenue collection and fund disbursement
- Reporting on financial and administrative condition of County
- Proposal of measures for Assembly action
- Power to veto ordinances
- Appointment and removal of County Administrator and all County employees.



The County Commissioners of Barnstable County submit the following report on the affairs of the County in accordance with Section 26 of Chapter 35 of the General Laws. The Commissioners met by adjournment on Wednesdays and on such other days as were necessary.

All taxes due from the fifteen (15) Towns within the County are paid to date.

On July 16, 1988, the Governor executed the Barnstable County Home Rule Charter. It was then accepted by the voters of Barnstable County at the November 8, 1988, State Election. In the November 7, 2000 election, voters overwhelmingly passed a ballot question that asked, "Shall the revisions to the Barnstable County Charter proposed by the Assembly of Delegates establishing a Cape Cod Regional Government be adopted?" With its passage:

Barnstable County Government became the Cape Cod Regional Government, known as Barnstable County. No changes were made to the existing revenue stream for Barnstable County, and no new taxes were created. Existing services and the ability to deliver regional services to Towns will be maintained.

The County Budget process is now detailed in the Charter under Article 5 - Fiscal Procedures. The vote of each municipality is proportionate to the percentage of its population to the county's total population based on the most recent federal census or decennial census estimate. The County Tax is based on the Towns' equalized valuation as determined by the State Legislature and Department of Revenue.

For the Fiscal Year 2020 revenue, the County Tax was increased by 2 ½ percent as permitted under Massachusetts General Laws.



SALARIES OF ELECTED COUNTY OFFICERS

County Commissioners.....	\$14,178.60/annually
Register of Deeds.....	\$155,084.15 /annually
Assembly of Delegates.....	\$1,000.00/annually

COUNTY PROPERTY

3195 Main Street, Barnstable, MA 02630 | 17.88+/- acres

- Superior Court
- Deeds and Probate Courts
- First District Court
- Innovation Building
- Former House of Corrections Building
- Water Testing Laboratory
- Former Sheriff's House
- Recycling Garage

3675 Main Street, Barnstable, MA | 98 +/- acres

- Former Sheriff's farm
- Barnstable County Cooperative Extension Offices

Barnstable, MA | 6.61 +/- acres

- Children's Cove building

Barnstable, MA 6.08 +/- acres

- Former Fire Training Academy
- 155 South Flint Rock Road, Hyannis

5.03 +/- acres

- Second District Courthouse
- 237 Rock Harbor Road, Orleans

65+/- acres

- Conservation land
- 870 County Road, Bourne

5.3 +/- acres

- Two single-family homes (one vacant)
- 870 County Road, Bourne

5.44 +/- acres

- AmeriCorps housing
- 875 County Road, Bourne

5.03 +/- acres

- Vacant land, 0 Phinney's Lane, Barnstable

**COUNTY OFFICERS**

July 1, 2020 – June 30, 2021

COUNTY COMMISSIONERS*Current Members*

Sheila Lyons, Chair, Wellfleet

Ronald Bergstrom, Vice-Chair, Chatham

Mark Forest, Commissioner, Yarmouth

COUNTY ADMINISTRATOR

Jack Yunits, Jr., County Administrator (through April 5, 2021)

Elizabeth Albert, County Administrator (from April 5, 2021)

Stephen Tebo, Assistant County Administrator (through May 1, 2021)

Vacant, Assistant County Administrator (through June 30, 2021)

ASSEMBLY OF DELEGATES*Current Delegates FY21*

Patrick Prince

Linda Zuern

George Slade (sworn-in January 2021)

Mary Chaffee

Randi Potash

John Ohman

J. Terence Gallagher

Douglas Brown (sworn-in July 2020)

Elizabeth Harder

Thomas O'Hara

Christopher Kanaga (through December 2020)

David Dunford (sworn-in January 2021)

Brian O'Malley

James Killion

Deborah McCutcheon (vacancy April 2021)

Sallie Tighe (sworn-in April 2021)

E. Suzanne McAuliffe (through December 2020)

Susan Warner (sworn-in January 2021)

Lilli-Ann Green

FINANCE DIRECTORS/COUNTY TREASURERS

Elizabeth Braccia, Treasurer/Director of Finance

Patricia D. Rogers, Assistant Treasurer

Stephen J. Amara, County Accountant (to April 1, 2021)

Stephen J. Amara, Deputy Director of Finance/County Accountant (April 1, 2021 to June 30, 2021)

REGISTER OF DEEDS

John F. Meade, Register

David B. Murphy, Assistant Register of Deeds

CAPE COD COMMISSION

Harold Mitchell, Chairman

Kristy Senatori, Executive Director

GENERAL COUNSEL

Robert Troy, Esq.

COUNTY CLERK

Janice O'Connell, County Clerk (to April 2021)

Robin Young (from April 2021)

CAPE COD & THE ISLANDS CHILD ADVOCACY CENTER

Stacy Gallagher, Director of Children's Cove

CAPE COD COOPERATIVE EXTENSION

Michael Maguire, Director of Cooperative Extension

CAPE COD MUNICIPAL TRAINING

Phil Burt, Director

DIRECTOR OF FACILITIES

Donald Reynolds, Director of Facilities

DEPARTMENT OF HEALTH & ENVIRONMENT

Sean O'Brien, Director of Health and Environment

DEPARTMENT OF HUMAN SERVICES

Elizabeth Albert, Director of Human Services (to April 5, 2020)

Vaira Harik, Interim Director of Human Services (to June 30, 2021)

DREDGE PROGRAM

Kenneth Cirillo, Dredge Director

INFORMATION TECHNOLOGY DEPARTMENT

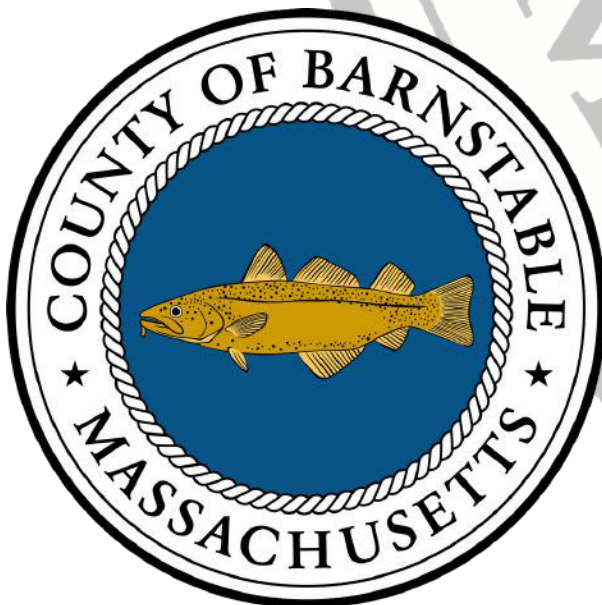
William Traverse, Director of Information Technology



FY'21

ASSEMBLY OF DELEGATES

Report of the Barnstable County ASSEMBLY OF DELEGATES



ASSEMBLY OF DELEGATES

Cape Cod Regional Government (known as Barnstable County)

P.O. Box 427

3195 Main Street, Route 6A

Barnstable, MA 02630

www.barnstablecounty.org

REPORT OF THE BARNSTABLE COUNTY ASSEMBLY OF DELEGATES

For the Period July 1, 2020 and ending June 30, 2021

The Assembly of Delegates is the legislative branch of Cape Cod Regional Government (also known as Barnstable County government). Each town within the county is duly represented in the Assembly of Delegates. Delegates are elected by the voters from each town for a two-year (calendar) term. The vote of each delegate is weighted to equal the percentage of the County's population that resides in the town that the delegate represents, based upon the 2010 United States Decennial Census. The delegate representing the town of Barnstable has the largest weighted vote at 20.92 percent and the delegate representing the town of Truro has the smallest weighted vote at 0.93 percent.

E. Suzanne McAuliffe (Yarmouth) served as Speaker, Patrick Princi (Barnstable) served as Deputy Speaker, and Janice O'Connell served as Assembly Clerk through the end of the Sixteenth Session (2019–2020) of the Assembly of Delegates from July 2020 through January 2021. Delegates to the Seventeenth Session (2021–2022) of the Assembly of Delegates were sworn in on January 6, 2021. Mr. Princi was elected Speaker and Mary Chaffee (Chatham) was elected Deputy Speaker. Ms. O'Connell continued as the Assembly Clerk through April of 2021. Upon her retirement, the body elected Owen Fletcher as the Assembly Clerk.

The Assembly of Delegates typically holds regular meetings on the first and third Wednesday of each month at 4:00 p.m. in the Mary Pat Flynn Conference Center, at the Barnstable County Complex, located at 3195 Main Street in Barnstable. However, due to the COVID-19 Pandemic, the Assembly met virtually in Fiscal Year 2021 in accordance with the Executive Orders of Governor Charles D. Baker, and Massachusetts General Laws, using the Zoom platform. Virtual Assembly meetings are expected to continue into the Fiscal Year 2022. The physical location of the Office of the Clerk for the Assembly of Delegates is currently located at the Superior Courthouse Building at 3195 Main Street in Barnstable.

The legislative powers of county government are vested in the Assembly of Delegates, and except as provided in the Barnstable County Home Rule Charter, the acts of the Assembly of Delegates are required to be by ordinance or resolution. Ordinances are brought forward to the Assembly of Delegates, referred by the Speaker for review and discussion, prior to receiving a recommendation for a vote by the Assembly. The public can participate in the process when a proposed ordinance is scheduled for a public hearing.

Delegates are appointed to serve on Standing Committees of the

Assembly and may also be appointed as liaisons or to serve on other ad hoc or special committees.

In 2019 a resolution was adopted by the Assembly of Delegates establishing a Charter Review Committee. However, due to time constraints related to the COVID19 Pandemic, the Assembly could not make any Charter change recommendations for placement on the November 2020 ballot. The committee hopes the Assembly will continue its work into the next legislative session for consideration in 2022.

The Standing Committees of the 16th Session of the Assembly of Delegates are as follows:

Economic Affairs: addresses economic development in Barnstable County

Finance: reviews the budget and looks at every major decision rendered by the Barnstable County government that has financial implications including inter-governmental fiscal policies and procedures

Governmental Regulations: address all matters relating to the Regional Policy Plan (committee composition consists of the Chairs of all other Standing Committees)

Health and Human Services: addresses matters relating to public health, social services, and housing
Natural Resources: addresses matters relating to environmental matters

Public Services: addresses matters relating to public services

Telecommunications and Energy: addresses matters relevant to telecommunications and energy policy and budgetary decisions of the Assembly and to the general welfare of the citizens of Barnstable County.

Members of Assembly committees review the components of proposed ordinances under consideration prior to issuing a report to the full Assembly.

An important and significant responsibility of the Assembly is the review and adoption of a proposed budget for the ensuing fiscal year. A proposed budget is submitted to the Assembly of Delegates by the Board of County Commissioners (the executive branch of Barnstable County government).



FY'21

ASSEMBLY OF DELEGATES

Standing Committees meet with department managers, review their budgets and programs, look at the goals and effectiveness of each program, and consider information that is gathered through the public hearing process prior to making a recommendation to the full Assembly for a vote. This budget process typically takes place between February and May of each year. In Fiscal Year 2021 the full Assembly was designated as a Standing Committee and charged with review of the Fiscal Year 2022 budget.

During FY2021 (July 1, 2020, through June 30, 2021), the Assembly of Delegates adopted fourteen ordinances (#20-09 through #20-19 and #21-01 through #21-12). A complete list of all ordinances adopted by the Assembly of Delegates is available upon request or can be viewed on the county website at <http://www.barnstablecounty.org/assembly-of-delegates/ordinances>.

The following information represents a list and description summary of the ordinances adopted by the Assembly during Fiscal Year 2020:

2020 (July through December)

Ordinance 20-09: To authorize the County to enter into a License Agreement with the Cape Cod Chapter of the New England Mountain Bike Association (NEMBA), on a portion of Barnstable County property near the intersection of Route 132/Phinneys Lane for a bicycle path - **adopted by the Assembly on 7/1/2020.**

Ordinance 20-10: To revise and amend the Barnstable County Home Rule Charter in accordance with the third paragraph of Section 9-1 of the Barnstable County Home Rule Charter by amending the Charter to include a Recall provision for the removal from office of a member of the Board of Regional Commissioners. This Proposed Ordinance authorizes the filing of a Petition to the General Court for Special Legislation filed by the Assembly of Delegates with the Approval of the Board of Regional Commissioners. - **adopted by the Assembly on 9/2/2020.**

Ordinance 20-11: To add to the County's Dredge operating budget for the fiscal year two thousand and twenty-one, as enacted in Ordinance 20-06, by making supplemental appropriations for the fiscal year two thousand and twenty-one. - **adopted by the Assembly on 9/16/2020**

Ordinance 20-12: To add to the County's operating budget for the fiscal year two thousand and twenty-one, as enacted in Ordinance 20-04, by making supplemental appropriations for the fiscal year two thousand and twenty-one. - **adopted by the Assembly on 9/12/2020.**

Ordinance 20-13: To add to the County's operating budget for the fiscal year two thousand and twenty-one, as enacted in Ordinance 20-04, by making supplemental appropriations for the fiscal year two thousand and twenty-one. - **adopted by the Assembly on 10/7/2020.**

Ordinance 20-14: To add to the County's operating budget for the fiscal year two-thousand and twenty-one, as enacted in Ordinance No. 20-04, by making supplemental appropriations for the fiscal

year two-thousand and twenty-one. - **adopted by the Assembly on 10/21/2020.**

Ordinance 20-15: To authorize Barnstable County to create special stabilization funds into which monies may be transferred and reserved for a later appropriation for any lawful purpose. - **adopted by the Assembly on 10/21/2020.**

Ordinance 20-16: To authorize Barnstable County to create a General Stabilization Fund for the purpose of setting aside funds that are to be invested to secure reserves for a variety of projects and other needs. - **adopted by the Assembly on 10/21/2020.**

Ordinance 20-17: To authorize Barnstable County to create a Capital Stabilization Fund for the purpose of setting aside funds that are to be invested to secure reserves for future capital purchases. - **adopted by the Assembly on 10/21/2020.**

Ordinance 20-18: To authorize Barnstable County to create an Emergency Stabilization fund for the purpose of setting aside funds that are to be invested to secure reserves for unforeseen emergencies. - **adopted by the Assembly on 10/21/2020.**

Ordinance 20-19: To transfer funds for the fiscal year two-thousand and twenty-one, to the Capital Stabilization Fund, Emergency Stabilization Fund, and General Stabilization Fund, as established in Ordinance No. 20-16, 20-17, and 20-18 by making transfers from the unreserved fund balance for fiscal year two-thousand and twenty-one, in the amount of \$3,000,000.00. - **adopted by the Assembly on 10/21/2020.**

2021 (January through June)

Ordinance 21-01: To add to the County's operating budget for the fiscal year two-thousand and twenty-one, as enacted in Ordinance No. 20-04, by making supplemental appropriations for the fiscal year two-thousand and twenty-one and authorizing the filing of an application with the Massachusetts Department of Environmental Protection for State Financial Assistance for Water Pollution Abatement Project - **adopted by the Assembly on 1/6/2021.**

Ordinance 21-02: To transfer funds from the General Fund Unreserved Fund Balance in the amount of \$1,000,000.00 to a County Emergency Fund for COVID-19 (Novel Coronavirus) expenses - **adopted by the Assembly on 2/3/2021.**

Ordinance 21-03: To amend Barnstable County Ordinance 19-01: the 2018 Regional Policy Plan. - **adopted by the Assembly on 2/17/2021.**

Ordinance 21-04: The following job description is established for a full-time Clerk of the Assembly of Delegates and be incorporated into the county's Classification Plan. - **adopted by the Assembly on 2/17/2021.**

Ordinance 21-05: To add to the County's Dredge operating budget for the Fiscal Year 2021, as enacted in Ordinance No. 20-06, by making supplemental appropriations for the Fiscal Year 2021 - **adopted by the Assembly on 4/7/2021.**

Ordinance 21-06: To make appropriations for Barnstable County's operating budget for the Fiscal Year 2022, including the operations of the County Assembly, Executive branch, County agencies, boards, commissions, departments, and institutions, and the maintenance of certain County functions; for interest, reserve funds, and serial bond requirements of the County. - **adopted by the Assembly on 4/21/2021.**

Ordinance 21-07: To authorize the County to purchase capital equipment and implement capital improvements for use in conducting the business of the County and to borrow money to pay, therefore - **adopted by the Assembly on 4/21/2021.**

Ordinance 21-08: To make appropriations for the Cape Cod Commission operating budget for the Fiscal Year 2022, for operations and capital requirements, and for reserve funds. - **adopted by the Assembly on 4/21/2021.**

Ordinance 21-09: Adopting an Operating Budget for the Dredge Enterprise Fund for the Fiscal Year 2022, beginning July 1, 2021, and ending June 30, 2022 - **adopted by the Assembly on 4/21/2021.**

Ordinance 21-10: To amend a Portion of Ordinance 16-07 adopted by a vote of the Assembly of Delegates on May 4, 2016, and approved by the Board of Regional Commissioners on May 11, 2016, by deleting the phrase "Second District Roof" in Section 1(c) of Ordinance 16-07 and inserting in its place "Repairs at the Old Jail Complex", such the amended vote reads in its entirety as follows: - **adopted by the Assembly on 4/21/2021.**

Ordinance 21-11: To modify rates for the County Dredge Program for the fiscal year two thousand twenty-two and for the fiscal year two thousand and twenty-three, as originally enacted in Ordinance 98-21 and last enacted in Ordinance 99-15. - **adopted by the Assembly on 6/2/2021.**

Ordinance 21-12: To add to the County's operating budget for Fiscal Year 2021, as enacted in Ordinance No. 20-04, by making supplemental appropriations for the Fiscal Year two-thousand and twenty-one. - **adopted by the Assembly on 6/16/2021.**

DELEGATE	TOWN	% WEIGHTED VOTE
Patrick Prince	Barnstable	
Linda Zuern	Bourne	20.92
George Slade (sworn-in January 2021)	Bourne	9.15
Mary Chaffee	Brewster	-
Randi Potash	Chatham	4.55
John Ohman	Dennis	2.84
J. Terence Gallagher	Eastham	6.58
Douglas Brown (sworn-in July 2020)	Falmouth	2.30
Elizabeth Harder	Harwich	14.61
Thomas O'Hara	Mashpee	5.67
Christopher Kanaga (through December 2020)	Orleans	6.49
David Dunford (sworn-in January 2021)	Orleans	2.73
Brian O'Malley	Provincetown	-
James Killion	Sandwich	1.36
Deborah McCutcheon (vacancy April 2021)	Truro	9.58
Sallie Tighe (sworn-in April 2021)	Truro	0.93
E. Suzanne McAuliffe (through December 2020)	Yarmouth	-
Susan Warner (sworn-in January 2021)	Yarmouth	11.02
Lilli-Ann Green	Wellfleet	-
		1.27
		TOTAL: 100%

All questions regarding the operation or structure of the Assembly of Delegates, please contact the Assembly Clerk:

Owen Fletcher

Telephone (508) 375-6761

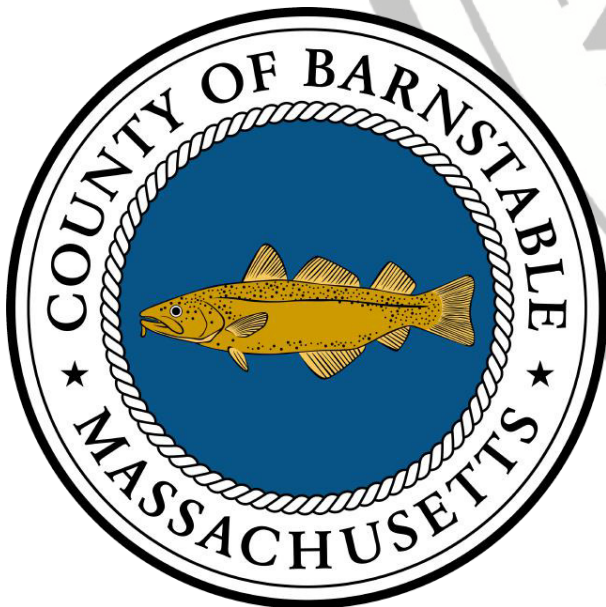
owen.fletcher@barnstablecounty.org



FY'21

Report of the Barnstable County DEPARTMENT OF FINANCE & TREASURER

FINANCE & TREASURER





FY'21

DEPARTMENT OF FINANCE & COUNTY TREASURER

Cape Cod Regional Government (known as Barnstable County)

P.O. Box 427

3195 Main Street, Route 6A

Barnstable, MA 02630

www.barnstablecounty.org

REPORT OF THE BARNSTABLE COUNTY DEPARTMENT OF FINANCE

For the Period July 1, 2020 and ending June 30, 2021

Elizabeth J. Braccia

Director of Finance/County Treasurer

508-375-6915 | elizabeth.braccia@barnstablecounty.org

Stephen Amara

County Accountant

508-375-6640 | stephen.amara@barnstablecounty.org

Jennifer Frates

Chief Procurement Officer

508-375-6637 | jennifer.frates@barnstablecounty.org

Kara Mahoney

County Auditor

508-375-6639 | kmahoney@barnstablecounty.org

Patricia Rogers

Assistant Treasurer

508-375-6645 | trogers@barnstablecounty.org

Pricilla Ellis

Finance Assistant

508-375-6975 | pellis@barnstablecounty.org

Julie Ferguson

Senior Fiscal Grant Officer

508-375-6975 | jferguson@barnstablecounty.org

Bobbi Mortiz

Fiscal Grant Officer

508-375-6873 | bobbi.mortiz@barnstablecounty.org

Quan Tobey

Fiscal Grant Officer

508-375-6965 | quan.tobey@barnstablecounty.org

The Barnstable County Department of Finance respectfully submits its Annual Report for Fiscal Year 2021.

The department is responsible for the financial management of the County. These functions include Treasurer Services, Accounting, Accounts Payable, and Purchasing.

Fiscal year 2021 was a year of success for the Finance Department with the timely closing of the County finances, and in September of 2020, the Resource Development Department was moved over to the Finance Department. We implemented the MUNIS module for General Billing, and continue with cross-training within Finance and overall streamlining of the department's functions. The department continued to collaborate with County departments and implemented Admin User Group quarterly meetings to improve communication and form a closer workforce.

The County's revenues were much higher than in prior years mostly in part due to the Real Estate Sales across Cape Cod. Expenditures remained conservative. The Finance department worked a hybrid remote schedule to ensure the safety of the staff and remained strong with timely processing of all financial functions.

Elizabeth J Braccia

Director of Finance/Treasurer

FINANCE & TREASURER



Barnstable County
FY2021
Combined Balance Sheet

	General	Cape Cod Commission	Dredge	Septic Loan Program	Capital Projects	Other Funds	Long Term Obligations	Total Governmental Funds
Assets								
Cash and Cash Equivalents	17,689,527	6,372,735	744,718	8,634,048	(30,677)	34,607,968	0	68,018,319
Investments	0	0	0	0	0	0	0	0
Receivables	2,153,548	0	0	0	0	0	0	2,153,548
Intergovernmental	0	0	44,784	0	0	1,685,360	0	1,730,144
Departmental	0	0	0	0	0	0	0	0
Loans and Others	0	0	0	13,473,061	0	0	0	13,473,061
Amounts to be provided - bond payments	0	0	0	0	0	0	19,117,890	19,117,890
Due from other entities	0	0	0	0	0	0	0	0
Total Assets	19,843,075	6,372,735	789,502	22,107,109	(30,677)	36,293,329	19,117,890	104,492,964
Liabilities								
Warrants payable	266,824	32,655	11,246	186,305	0	585,123	0	1,082,154
Accrued payroll	0	0	0	0	0	0	0	0
Deferred Revenue	1,956,152	0	44,784	13,473,061	0	1,541,074	0	17,015,071
Liabilities due depositors	775,220	0	0	0	0	0	0	775,220
Due to other funds	0	0	0	0	0	465	0	465
Bonds payable	0	0	0	0	0	0	19,117,890	19,117,890
Notes payable	0	0	0	0	1,643,911	0	0	1,643,911
Total Liabilities	2,998,196	32,655	56,030	13,659,366	1,643,911	2,126,662	19,117,890	39,634,711
Fund Equity								
Restricted	0	0	0	0	0	0	0	0
Committed	264,985	0	0	0	0	0	0	264,985
Unassigned	16,579,894	6,340,080	733,471	8,447,743	(1,674,588)	34,166,667	0	64,593,268
Total Fund Equity	16,844,879	6,340,080	733,471	8,447,743	(1,674,588)	34,166,667	0	64,858,253
Total Liability and Fund Equity	19,843,075	6,372,735	789,502	22,107,109	(30,677)	36,293,329	19,117,890	104,492,964

FINANCE & TREASURER

Barnstable County Outstanding Debt 6/30/2021

Purpose of Loan	Issue Date	Maturity Date	Original Note/Bond	Rate %	Payable	Outstanding Principal	New Debt Issued	FY21 Retirements	06-30-2021 O/S Princ	Principal Payable FY22
TS-05-1685 Community										
Septic Mgt Program Bond	03/18/09	07/15/27	2,850,000	0%	Annually	1,200,000	0	150,000	1,050,000	150,000
TS-05-1685-A										
Community Septic Mgt Program Bond	11/22/10	07/15/29	2,550,000	0%	Annually	1,342,101	0	134,211	1,207,890	134,211
TS-05-1685-B										
Community Septic Mgt Program Bond	11/22/10	07/15/30	3,600,000	0%	Annually	1,980,000	0	180,000	1,800,000	180,000
TS-05-1685-C										
Community Septic Mgt Program Bond	07/08/10	07/15/30	3,000,000	0%	Annually	1,650,000	0	150,000	1,500,000	150,000
TS-05-1685-D										
Community Septic Mgt Program Bond	05/22/13	01/15/33	4,000,000	0%	Annually	2,600,000	0	200,000	2,400,000	200,000
TS-05-1685-E Community										
Septic Mgt Program Bond	05/22/13	01/15/33	3,000,000	0%	Annually	1,950,000	0	150,000	1,800,000	150,000
TS-05-1685-F Community										
Septic Mgt Program Bond	05/22/13	01/15/33	5,000,000	0%	Annually	3,250,000	0	250,000	3,000,000	250,000
TS-05-1685-G										
Community Septic Mgt Program Bond	11/15/15	01/15/35	5,000,000	0%	Annually	3,750,000	0	250,000	3,500,000	250,000
Multiple Purpose Bond 2017	09/20/17	09/15/32	4,387,000	5%	Annually	3,365,000	0	505,000	2,860,000	500,000
Bond Anticipation Notes	09/22/19	09/22/20	760,000	1.2%	At Maturity	1,904,087	0	260,176	1,643,911	1,643,911
			34,147,000			22,991,188	0	2,229,387	20,761,801	3,608,122



BARNSTABLE COUNTY										
FY 2021 OPERATING BUDGET - EXPENDITURES										
6/30/2021										
DEPT #	DEPARTMENT	ORIGINAL APPROPRIATIONS	TRANSFERS & CARRY FORWARDS	REVISED BUDGETS	EXPENDITURES	ENCUMBRANCES	REMAINING	FY22	TURNED BACK	
100	COUNTY COMMISSIONERS OFFICE	948,239.00	19,988.82	968,227.82	876,444.82	0.00	91,783.00	5,941.86	85,841.14	
102	HUMAN RIGHTS	0.00	38,979.03	38,979.03	38,835.90	0.00	143.13	41.49	101.64	
105	INFORMATION TECHNOLOGY	1,208,559.00	7,380.26	1,215,939.26	1,165,919.88	0.00	50,019.38	7,589.68	42,429.70	
130	ASSEMBLY OF DELEGATES	375,955.00	18,000.00	393,955.00	365,733.82	0.00	28,221.18	287.68	27,933.50	
140	FINANCE	1,301,000.00	3,635.73	1,304,635.73	1,188,964.10	0.00	115,671.63	3,151.67	112,519.96	
200	FACILITIES	2,604,384.00	60,814.29	2,665,198.29	2,059,388.09	0.00	605,810.20	25,332.63	580,477.57	
230	COOPERATIVE EXTENSION	2,003,033.00	237,704.31	2,240,737.31	1,770,917.00	0.00	469,820.31	89,495.29	380,325.02	
240	REGISTRY OF DEEDS	2,532,615.00	28,653.42	2,561,268.42	2,302,935.71	0.00	258,332.71	56.09	258,276.62	
300	HEALTH & ENVIRONMENT	2,901,695.00	239,271.04	3,140,966.04	2,688,457.52	0.00	452,508.52	45,837.27	406,671.25	
310	HUMAN SERVICES	779,374.00	80,059.04	859,433.04	525,850.91	0.00	333,582.13	38,971.78	294,610.35	
320	CHILDREN'S COVE	478,617.00	2,259.73	480,876.73	381,304.17	0.00	99,572.56	6,564.91	93,007.65	
450	PUBLIC SAFETY	1,702,310.00	0.00	1,702,310.00	1,672,340.00	0.00	29,970.00	0.00	29,970.00	
460	CENTER FOR PUBLIC SAFETY	820,117.00	140,233.01	960,350.01	713,959.88	0.00	246,390.13	10,481.49	235,908.64	
900	FRINGE BENEFITS	1,276,586.00	(37,800.00)	1,238,786.00	1,147,060.55	0.00	91,725.45	0.00	91,725.45	
910	MISC. & CONTINGENCY EXP.	1,191,852.00	4,342,770.23	5,534,622.23	5,434,145.75	10,108.00	90,368.48	31,233.20	59,135.28	
920	DEBT SERVICE & INTEREST	913,209.00	0.00	913,209.00	886,713.93	0.00	26,495.07	0.00	26,495.07	
Grand Total		21,037,545.00	5,181,948.91	26,219,493.91	23,218,972.03	10,108.00	2,990,413.88	264,985.04	2,725,428.84	



REPORT OF THE TREASURER THE FISCAL YEAR 2021

To the Citizens of Barnstable County:

I hereby submit the Annual Report of the Treasurer of Barnstable County for the fiscal year ending June 30, 2021.

The financial reports that follow include a statement of receipts and expenditures, the balances at year-end in the General Fund and the Cape Cod Commission Fund, an outstanding debt schedule, and a listing of the tax assessments to the towns of Barnstable County.

All financial records through June 30, 2020, have been examined by the firm of Melanson located in Andover, Massachusetts, and were found to be in good order. The audit report is on file at the office of the County Treasurer and is available on the County Website.

Respectfully submitted,
Elizabeth J Braccia
Finance Director/County Treasurer

County of Barnstable Tax Assessments Fiscal Year 2021

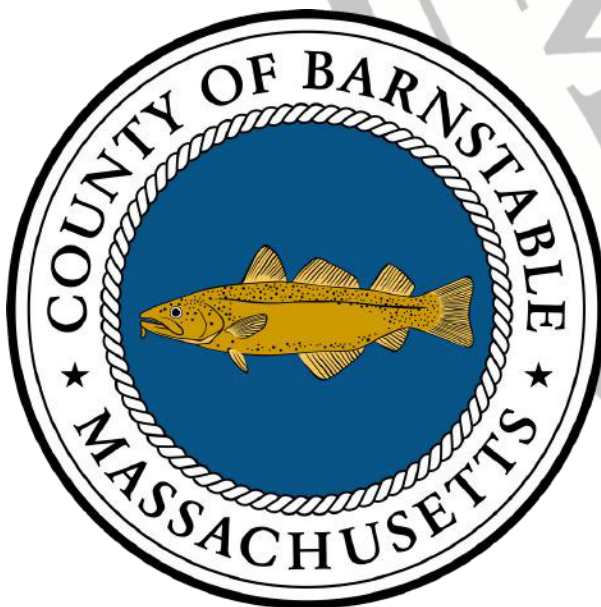
Town	County Tax	Cape Cod Commission Environmental Protection Tax
BARNSTABLE	\$586,401	\$628,701
BOURNE	\$188,925	\$202,552
BREWSTER	\$160,953	\$172,565
CHATHAM	\$289,520	\$310,405
DENNIS	\$283,631	\$304,091
EASTHAM	\$116,789	\$125,214
FALMOUTH	\$484,823	\$519,796
HARWICH	\$223,764	\$239,906
MASHPEE	\$220,329	\$236,223
ORLEANS	\$166,842	\$178,877
PROVINCETOWN	\$120,715	\$129,423
SANDWICH	\$168,805	\$180,982
TRURO	\$90,291	\$96,804
WELLFLEET	\$99,124	\$106,274
YARMOUTH	\$246,337	\$264,107
Totals	\$3,447,249	\$3,695,920



FY'21

Report of the Barnstable County **PURCHASING DIVISION**

PURCHASING



PURCHASING DIVISION

Cape Cod Regional Government (known as Barnstable County)

P.O. Box 427

3195 Main Street, Route 6A

Barnstable, MA 02630

<http://purchasing.barnstablecounty.org>

REPORT OF THE BARNSTABLE COUNTY PURCHASING DIVISION

For the Period July 1, 2020 and ending June 30, 2021

Jennifer Frates

Chief Procurement Officer

508-375-6637 | jennifer.frates@barnstablecounty.org

Established in 1979 by a vote of the County Commissioners, the Purchasing Department maintains a centralized purchasing system of goods and services collectively not only for County departments, but also to serve the towns of Barnstable County. Through the coordination of bids, town and county departments can take advantage of the cost savings involved with the procurement of goods and services in large volumes.

The Purchasing Division adheres to the procurement policies for local governments set by the Massachusetts Legislature through Chapter 30B, Chapter 30,39M, and Chapter 149 of the Massachusetts General Laws. These regulations were enacted to foster effective competition and to avoid price discrimination and unfair methods of competition. They also help to prevent "favoritism" in the awarding of contracts as bids are awarded to the responsive, responsible bidder offering the lowest price.

COLLECTIVE BIDS: Many of the towns of Barnstable County partner with County Purchasing to solicit bids collectively. In Fiscal Year 2021, the Purchasing Division took the lead in the coordination of bids for the following goods and services:

#7917 Household Hazardous Waste Collections: The Purchasing Division solicits this bid on behalf of the Cape Cod Cooperative Extension, which provides for the collection of household hazardous waste materials at twenty-four sites across the County. Residents can drop off items that are not collected through the transfer station at these events.

#7922 - Shellfish Seed Supplier: These bids are procured on behalf of the Barnstable County Division of Marine Fisheries Municipal Shellfish Propagation Program. The product is distributed to participating towns within the county.

#7925 & #7926 - Miscellaneous Public Works and Roadway Materials and Road Resurfacing: Twelve towns participated in the bids for various categories of roadway construction work.

#7927 - Golf Course Materials and Services: Municipal golf courses and other municipal departments receive discounted prices on materials such as fertilizers, fungicides, growth regulators, and insecticides through this bid.

#7932 - Trades Person List: The Municipal Modernization Act which was enacted into law in 2016 allows for municipalities to establish a "blanket" list of pre-approved tradespersons to be used to procure construction projects that are estimated to cost between \$10,000 and \$50,000. Barnstable County Purchasing worked with the towns in the County and the Massachusetts Office of the Attorney General to establish a "blanket" list of pre-approved tradespersons. Since that time, the Purchasing Division has continued to issue Requests for Qualifications and has established a list of sixty-eight vendors offering services in nineteen different trade categories. By requesting quotes from this list, municipal departments can save time procuring work for small projects. The Purchasing Division updated instructions for the Towns on how to utilize these contracts and remain in compliance. Nineteen vendors were added in eleven trade categories.

#7931 - Portable Toilets: This bid is for the lease and maintenance of portable toilets for use at special events, in beach or park areas, and other applications where temporary or permanent portable units may be required.

#7935 - Elevator maintenance and repair

#7938 - Bulk Purchase of Copy Paper: The Purchasing Division solicited bids for the purchase of 7,500 cases of copy paper for bulk delivery to eleven school districts in Barnstable County and Nantucket.

#7936 - Supply and Delivery of Fuel Oil: The Purchasing Division organized a collaborative bid for the supply and delivery of fuel oil to thirty municipal buildings across the County for an estimated total of 113,714 gallons of heating oil.

#7937 - Supply and Delivery of Gasoline and Diesel Fuel: Various municipal entities, schools, fire districts, water districts across Barnstable County along with County Dredge participated in a collaborative bid for over 1,500,000 gallons of gasoline and diesel fuel.



#7939 - Supply and Delivery of Caustic-Potash (potassium Hydroxide – KOH), Sodium Hypochlorite, Sodium Hydroxide, Hydrated Lime, and Citric Acid: Eleven water departments participated in this bid for chemicals commonly used by water departments.

COLLECTIVE BIDS (RENEWALS): The Purchasing Division is responsible for also exercising renewals extensions, if applicable, for goods and services procured in a previous fiscal year.

Construction Items
Disposal of construction and demolition waste
Municipal solid waste

COUNTY BIDS: Aside from the collective bids, the Purchasing Division also solicited the following bids on behalf of the County departments:

#7910 COVID Testing Structures
#7911 Courier Services
#7912 Booster Pump Rebuild
#7913 Coastal Resilience Technical Assistance
#7914 Municipal Solid Waste Consultant
#7915 Expedition Blue
#7916 Facilitation Services
#7918 Hydrographic Survey Services
#7919 Economic Impacts of Climate Change
#7920 WildFire Preparedness Equipment
#7921 Fire Training Academy Capping Project
#7923 Lab Supplies
#7924 FTA Burn Building
#7928 Business Recovery Plan
#7929 Dredge Pipe
#7930 HMIS Software
#7933 Financial Advisor
#7934 Cape Cod Commission Building
#7940 Health Department Roof
#7942 On Call Electrician
#7943 Toner
#7944 Vending Machines
#7946 Low Lying Roads Consultant

PURCHASE ORDERS: Due to the pandemic, internal controls were added to monitor spend and all departments were required to place every purchase into a requisition for approval. The Purchasing Division processed 3,102 purchase orders for County departments during Fiscal Year 2021.

CAPE COD ASSOCIATION OF PUBLIC PURCHASING OFFICIALS: The Cape Cod Association of Public Purchasing Officials (CCAPPO) was established by the County in 2006 to provide education and networking for local officials who are involved in the procurement duties in their towns. Participants can earn credits toward recertification for the Massachusetts Certified Public Purchasing Official (MCPPO) designation through attendance at these meetings. CCAPPO met bi-monthly with presenters on topics of interest to procurement officials.

As President, this fiscal year a number of the green initiatives were implemented such as remote meetings, electronic newsletters, and the redesign of the website to provide digital files to our Towns on different bids and meeting materials. Presentation topics from FY21 included:

- Massachusetts Higher Education Consortium (MHEC)
- Cooperative Purchasing Operational Services Division
- Environmental Procurement Wellfleet Recycling Committee
- Compostable Service ware Buying Guide Bonfire - E-bidding
- Software Office of the Inspector General – COVID-19
- Procurement and Purchase of Goods and Services with Federal Funds Town of Barnstable - Utility Resources and
- Bidding
- Greater Boston Police Council – Cooperative Purchasing
- Metropolitan Area Planning Council
- (MAPC) – Cooperative Purchasing

TAKING PROCUREMENT INTO THE FUTURE: • The Purchasing Department over FY21 transitioned from a transactional purchasing process to a more strategic procurement approach using data to drive decisions and efficiencies resulting in savings and value-added services. The foundation of any Purchasing operation includes fair competition, obtaining the best value, compliance, and education. The development of a Procurement operation will build relationships with stakeholders, coordinate purchase needs in the early stages, identify suppliers, research market trends, standardization of products and services, train personnel, avoid duplication and waste, negotiate contracts, • **plan risk mitigation and continually search for alternative ideas and products to improve efficiency.**

INITIATIVES:

Technology - • The Purchasing Department in FY21 focused a lot of efforts to streamline current procurement processes. This Green initiative eliminates the use of paper for bids and contracts which not only will save the County in postage and office supplies but will further drive the overall mission of the County to be more sustainable and environmentally conscious.

Contract Management – IMPLEMENTED JULY 2021 •

This solution tracks contract deadlines, spending, and savings and allows for better data on future solicitations.

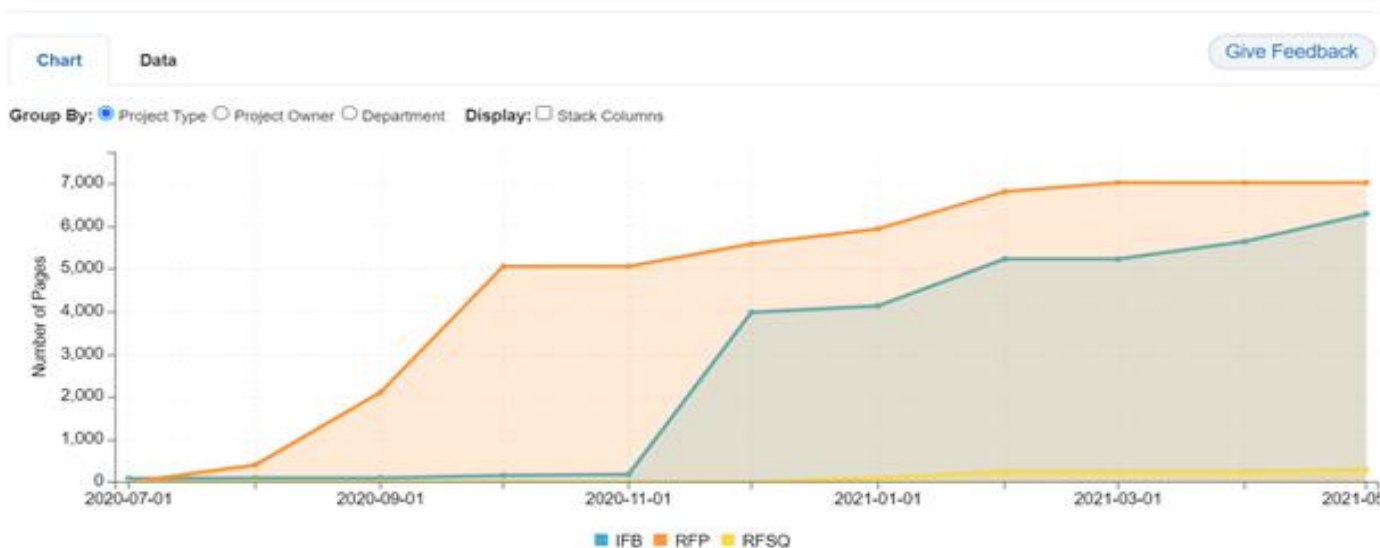
E-Bidding/Bid Management – IMPLEMENTED JULY 2021

Electronic bidding (e-bidding) is the term used to describe electronic methods of providing solicitation notification and receiving selected quotations, bids, or other types of solicitations over the Internet. The Division previously utilized a partially automated solution for preparing, posting, and receiving solicitations. The old system was labor-intensive, paper-based, and costly for the County and its vendors. The County at the end of the fiscal year contracted with Bonfire an e-bidding system that is more efficient, reduces the cost of bidding on County contracts, and prevents costly bidding errors.

This chart (below) shows the amount of paper saved by migrating to a fully electronic procurement bidding system.

Pages of Paper Saved over Time

The sum of pages of all proposal files multiplied by the number of participants in the project.



KPI's (Key Performance Indicators) and Metrics –The benefits of having better data will identify future bidding opportunities, provide transparency, ensure compliance with purchasing laws, policies, and procedures, and be a source of continuous improvement.

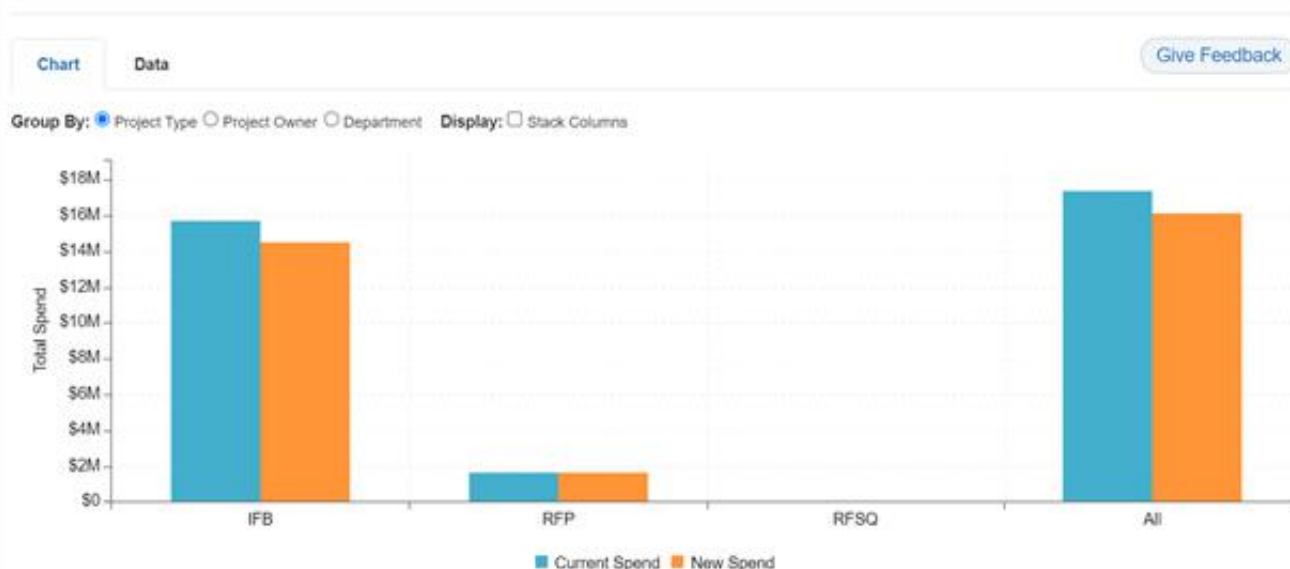
FY21 Data

- Bid Savings (Cost Avoidance) for FY 2021: \$721,142.88
- Number of Bids: 37
- Purchase Orders: 3,102
- State Contract Spend: \$704,574.09
- Consortium Contract Spend: \$340,602.91
- Surplus Revenue Through Government Auction: \$24,316.00

This chart (below) provided from the Bonfire software shows the Project Savings based on budget versus the awarded amount.

Project Spend

A measure of total spend (current and new) based on Project Cost Management data





FY'21

Training Programs –The success of any organization is the proper training of its staff giving them the tools and resources needed to be able to perform their duties and comply with the policy. The Purchasing Department will look to offer training programs on a variety of topics including bidding, contracting, general purchasing policy, p-card, state contracts, and more.

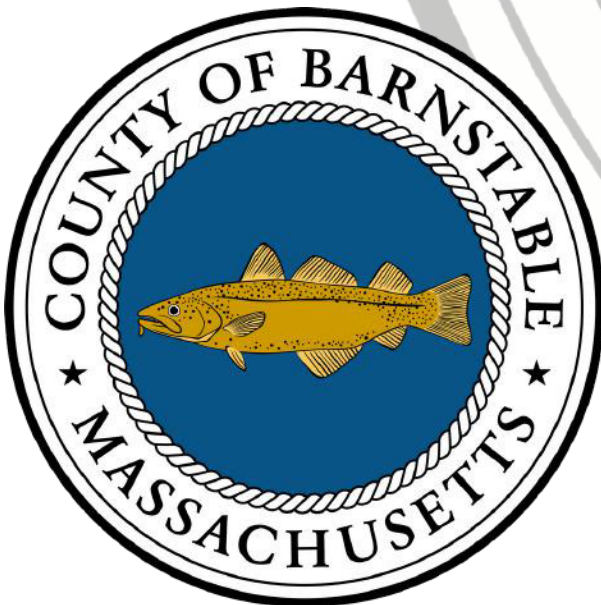
- Munis User Groups – Contract Module (July 2020)
- Commbuys “Lunch & Learn” Seminars – (September 2020) Topics Included:
 - Basic Searching in COMMBUYS Tips and Tricks
 - PunchOut Catalogs: COMMBUYS Vendor-Hosted Catalogs
 - State Contract Purchasing: Line Item (Non-PunchOut) Ordering
 - Statewide Contract Purchases that Require Solicitation and How to Execute in COMMBUYS
 - P-Card – (Various Training offered throughout the fiscal year)

In conclusion: The Purchasing Division will continue its goals of encouraging fair competition, obtaining the best value, ensuring the ongoing accountability of public funds, educating those who are involved in the public procurement process, and exploring new ways to help the county and towns save money through collective purchasing.

Respectfully Submitted,
Jennifer Frates
Chief Procurement Officer

Report of the CAPE COD COMMISSION

CAPE COD COMMISSION





CAPE COD COMMISSION

P.O. Box 226

3225 Main Street, Route 6A

Barnstable, MA 02630

508-362-3228 | Fax: 508-362-3136

frontdesk@capecodcommission.org

www.capecodcommission.org

REPORT OF THE CAPE COD COMMISSION

For the Period July 1, 2020 and ending June 30, 2021

ABOUT THE CAPE COD COMMISSION

The Cape Cod Commission was created by an Act of the Massachusetts state legislature in 1990 and is charged with coordinating a balanced relationship between economic progress and environmental protection. “Keeping a special place special” describes the agency’s mission to protect the region’s unique qualities.

The 19-member appointed Cape Cod Commission board includes representatives from each of the 15 Cape Cod towns, a minority representative, a Native American representative, a Barnstable County Commissioner, and a Governor’s appointee. The board is supported by approximately 35 professional staff and an executive director.

This report represents broad areas of the Commission’s work and responsibilities, highlighting several specific projects and initiatives.

FISCAL YEAR 2020 APPOINTED REPRESENTATIVES

Officers

Harold “Woody” Mitchell (Sandwich)

Vice-Chair: Jack McCormack Jr. (Yarmouth) (through November 2020); Stephen Mealy (Bourne) (December 2020 – June 2021)

Secretary: Elizabeth Taylor (Brewster)

Members

Barnstable: Frederick Chirigotis

Bourne: Stephen Mealy

Chatham: Tom Wilson

Dennis: Richard Roy

Eastham: Joy Brookshire

Falmouth: Charles McCaffery (through April 2021); vacant (May – June 2021)

Harwich: Jacqueline Etsten

Mashpee: Ernest Virgilio

Orleans: Douglas Fromm

Provincetown: Cheryl Andrews

Truro: Kevin Grunwald

Wellfleet: Richard Elkin

County Commissioner: Ronald Bergstrom (through January 2021); Mark Forest (February – June 2021)

Minority Representative: John D. Harris

Native American Representative: David Weeden

Governor’s Appointee: Michael Maxim

Staff (as of June 30, 2021)

Kristy Senatori, Executive Director

508-744-1216 | ksenatori@capecodcommission.org

Erin Perry, Deputy Director

508-744-1236 | eperry@capecodcommission.org

Abigail Bliss, Community Development Planner

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Chelsea Bruck Bennouna, Community Development Planner

508-744-1224 | chelsea.bennouna@capecodcommission.org

Emma Curran, GIS Analyst

508-744-1225 | emma.curran@capecodcommission.org

Siobhan Hickey Cavacco, Administrative Assistant

508-744-1208 | siobhan.hickeycavacco@capecodcommission.org

Jennifer Clinton, Community Development Planner

508-744-1211 | jclinton@capecodcommission.org

Sarah Colvin, Communications Manager

508-744-1271 | sarah.colvin@capecodcommission.org

Gail Coyne, Operations Director

508-744-1202 | gcoyne@capecodcommission.org

Patty Daley, Legal and Policy Specialist

508-744-1212 | pdaley@capecodcommission.org



FY'21

CAPE COD COMMISSION

Phil (Jay) Detjens, Applications Manager

508-744-1238 | pdetjens@capecodcommission.org

Lisa Dillon, Commission Clerk

508-744-1209 | ldillon@capecodcommission.org

Danielle Donahue, Special Projects Coordinator

508-744-1249 | danielle.donahue@capecodcommission.org

Martha Hevenor, Planner II

508-744-1213 | mhevenor@capecodcommission.org

Mallory Kender, Administrative Assistant

508-744-1227 | mallory.kender@capecodcommission.org

Elisabeth Kellam, Community Design Planner

508-744-1210 | elisabeth.kellam@capecodcommission.org

Sarah Korjeff, Planner II (Historic Preservation Specialist)

508-744-1215 | skorjeff@capecodcommission.org

Maria McCauley, Finance and Administration Manager

508-744-1230 | mmccauley@capecodcommission.org

Heather McElroy, Natural Resources Program Manager

508-744-1217 | hmcclroy@capecodcommission.org

Colleen Medeiros, Transportation Engineer

508-744-1226 | colleen.medeiros@capecodcommission.org

David Nolan, Transportation Planner

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Tara Nye Lewis, Water Resources Analyst

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Tim Pasakarnis, Water Resources Analyst

508-744-1214 | tim.pasakarnis@capecodcommission.org

Gary Prahm, GIS Analyst

508-744-1241 | gprahm@capecodcommission.org

Jessica Rempel, Natural Resources Analyst

508-744-1237 | jessica.rempel@capecodcommission.org

Anne Reynolds, GIS Director

508-744-1240 | areynolds@capecodcommission.org

Chloe Schaefer, Chief Planner

508-744-1219 | chloe.schaefer@capecodcommission.org

David Still II, Digital Communications Specialist

508-744-1261 | dstill@capecodcommission.org

Steven Tupper, Transportation Program Manager

508-744-1232 | stupper@capecodcommission.org

Jordan Velozo, Chief Regulatory Officer (interim)

508-744-1253 | jordan.velozo@capecodcommission.org

Michele White, Special Projects Coordinator

508-744-1247 | michele.white@capecodcommission.org

Jessica Wielgus, Commission Counsel

508-744-1207 | jwielgus@capecodcommission.org

New Staff

Abigail Bliss, Community Development Planner (October 2020)

Chelsea Bruck Bennouna, Community Development Planner (October 2020)

Emma Curran, GIS Analyst (January 2021)

Departures

Meghan Boudreau, Executive Assistant (May 2021)

Madden Bremer, GIS Analyst (October 2020)

Jonathan Idman, Chief Regulatory Officer (April 2021)

Lev Malakhoff, Transportation Planner (June 2021)

CAPE COD CLIMATE INITIATIVE

The Cape Cod Commission continued efforts to address climate resiliency through the Cape Cod Climate Initiative, a community-focused, information-based effort to address the region's contributions to and threats from climate change.

In July 2020, the Cape Cod Commission voted to create a climate action subcommittee and postpone action on a citizens' petition proposing climate-related amendments to the Regional Policy Plan (RPP). The subcommittee was charged with guiding a regional climate action plan process that considers both climate change mitigation and adaptation, and reviewing, evaluating, and potentially recommending amendments to the RPP specific to reducing greenhouse gas emissions.

More than six months of intensive public engagement and outreach informed the development of the Cape Cod Climate Action Plan, as well as amendments to the RPP. In January 2021, the Commission voted to approve amendments to the RPP that include a climate mitigation goal, objectives, and associated technical guidance. The amendments aim to support, advance, and contribute to the Commonwealth's interim and long-term greenhouse gas reduction goals and initiatives, including a state-wide net zero carbon target by 2050. The amendments also include a new greenhouse gas emissions performance measure.

The Assembly of Delegates and Barnstable County Board of Regional Commissioners approved the amended RPP as a County ordinance in February 2021.

Subsequently, in April 2021, the draft Cape Cod Climate Action Plan was released for public comment. The plan benefited from the development of a regional greenhouse gas emissions inventory, and



economic and fiscal impact analysis, and a legal and policy analysis, among other research and analysis. The result was a comprehensive plan providing actionable goals for Cape Cod. The Climate Action Plan is intended to foster collaborative, targeted action to address climate change in measurable ways.

The plan targets the region's highest emitting sectors, transportation, and energy, as identified in the greenhouse gas emissions inventory, and includes strategies to support successful implementation. The strategies outlined will require action across all sectors and actors, including all levels of government, businesses, non-governmental organizations, and others.

By the end of June 2021, Commission staff was reviewing 66 public comments representing more than 500 individual points of feedback, with the final Cape Cod Climate Action Plan expected in early FY2022.

COASTAL RESILIENCY MODEL BYLAW

Working with four partner towns - Bourne, Brewster, Sandwich, and Eastham - Commission staff drafted a model bylaw for adoption by communities seeking to improve management of development within coastal hazard areas.

The bylaw is a key component of the Cape Cod Commission's climate work, and a critical follow-up to the Municipal Vulnerability Preparedness Program planning the agency has done with many towns in the region. The work is funded through grants received from the state Office of Energy and Environmental Affairs and through the federal Economic Development Administration.

Among the considerations raised from partners, towns were historic properties and implications of redevelopment and maintaining community character while complying with floodplain regulations. Home expansions, footprints, and elevations in the floodplain and in coastal resource areas were also noted as concerns. The Commission contracted with the Urban Harbors Institute (UHI) to assist in drafting the model bylaw.

SOLAR SCREENING TOOL

Created by Commission staff and reviewed by a group of external stakeholders and potential users, the Solar Screening Tool is designed to help guide large-scale solar photovoltaic projects toward appropriate areas and away from important conservation areas. The tool considers both built and natural environments to identify areas more or less appropriate for solar development. It is designed for use by anyone interested in developing or reviewing large-scale solar facilities and can be accessed at <https://www.capecodcommission.org/our-work/solar-screening-tool/>.

ECONOMIC IMPACTS OF CLIMATE CHANGE

In support of the Climate Action Plan, the Cape Cod Change report provides a monetary context for climate risks and options to address those risks.

The assessment consisted of three parts: Costs of not adapting to climate change, Cape Cod emissions analysis, and economic analyses of adaptation and mitigation strategies. Together, these analyses demonstrated that without action on climate change, the impacts on the economy, communities, and resources of Cape Cod will be severe. However, strategies exist to cost-effectively offset many of these impacts. The full report can be accessed at <https://cccom.link/climate-economic-impacts>

CLIMATE AMBASSADOR PROGRAM

The Climate Ambassador Program is an initiative to educate, engage and empower young people on Cape Cod to work together to combat climate change. The Program is intended for students in grades 9-12 who would like to develop a better understanding of climate change, learn how to communicate effectively about climate, and learn what actions can be taken individually and collectively to bring about change.

Nineteen students in grades 9 through 12 were chosen from a field of nearly 40 applicants after submitting a one-page letter detailing their interest along with a teacher recommendation. Students from Martha's Vineyard, Monomoy Regional, Barnstable, Sturgis East and West, Nauset Regional, Bourne, Mashpee, Sandwich, Upper Cape Tech, and Falmouth Academy participated in the program.

ECONOMIC DEVELOPMENT AND COVID-19 RESPONSE

The COVID-19 pandemic brought unprecedented changes to the way we live and work, with widespread impacts felt across the region. Working with state, regional, and local partners, the Commission helped develop and maintain several information tools and websites to provide up-to-date information on COVID cases, economic impacts, and other details supporting the Cape's reopening, recovery, and resiliency efforts. See <https://datacapecod.com>.

BUSINESS RESILIENCY COVID-19 RECOVERY WORKSHOPS AND TOOLKITS

The Commission was awarded a U.S. EDA CARES Act Recovery Assistance grant to support efforts to respond to and recover from the devastating economic impacts of the COVID-19 pandemic and develop strategies to improve resilience in the future.

Workshops: As part of its economic resiliency efforts, the Commission worked with Revby, a business consulting and technical assistance firm, to provide a multi-part workshop series designed to help Cape Cod business owners navigate COVID-19 recovery and resiliency strategies.

Industry-specific virtual workshops followed the initial workshop on pandemic-relief funding opportunities. The second round of virtual workshops introduced industry-specific COVID-19 Recovery and Resiliency Toolkits that offer business owners a suite of strategies tailored to address the challenges facing Cape Cod businesses now and to help businesses plan for resiliency into the future.

Toolkit: The COVID-19 pandemic produced a dual-threat to lives and livelihoods across the globe. For Cape Cod's small businesses, the effects were amplified among community-based and seasonal businesses that traditionally rely on in-person commerce. This toolkit's primary purpose is to help Cape Cod small businesses build resilience amid the COVID-19 pandemic. The research-based frameworks, tools, and checklists provided in the toolkit are designed to support efforts by Cape Cod business owners and their teams to recover and to use the COVID-19 experience as a catalyst to prepare and respond to future disasters.

Workshop recordings and toolkits are available at

<https://capecodcommission.org/our-work/business-recovery-planning/>.

BUSINESS IMPACT SURVEYS

The Commission issued the second and third installment of business surveys to track the effects of Covid-19 in 2021. The Commission partnered with the Cape Cod Chamber of Commerce to collect information on the economic impacts on local businesses and non-profits. Each survey had between 370 to 450 respondents, representing every town and the major industries on Cape Cod.

The second survey, conducted in August 2020, was a follow-up to the initial spring 2020 analysis and provided critical information on immediate impacts on the region's business community and insight on the support necessary for businesses to adapt. The third survey sought to better understand pandemic effects over the course of the year and included specific questions about fall and winter impacts.

Survey results showed that over 80% of respondents reported losses in the second quarter of the year, compared to 2019; more than a third of respondents' losses were over 75%. During the summer, businesses rebounded, though nearly 30% of respondents still reported Q3 and Q4 losses of 50% or more.

Survey results are available at <https://datacapecod.com/business-impact-survey/>.

BARNSTABLE COUNTY ECONOMIC DEVELOPMENT COUNCIL

The Barnstable County Economic Development Council (BCEDC), an advisory board to the Barnstable County Commissioners, was established to guide economic development policy in a manner that will improve the quality of life for all, foster a healthy economy offering a range of employment opportunities at livable wages for year-round residents, and protect the region's natural and built assets today and in the future.

The BCEDC functions include advising on the development of the economic development goals for Barnstable County, serving as the Cape Cod Comprehensive Economic Development Strategy (CEDS) Committee and Economic Development District (EDD) governing board, advising on the planning, approval, and implementation of the 5-year CEDS, and advising the Barnstable County Commissioners on the allocation of certain economic development grants and contracts, including the Cape Cod License Plate Grant program.

CEDS YEAR TWO REPORT APPROVED

In June 2021, the BCEDC and Cape Cod Commission approved the Year Two annual report, outlining successes and challenges, and the proposed Year Three Implementation plan.

The following initiatives are included as part of the Year Three plan:

- Last-Mile Broadband Deployment Strategy and Buildout Fund
- Regional Housing Plan
- Workforce and Business Retention Program
- Regional Capital Plan
- Model Bylaws for Zoning/Design
- Water Quality Planning
- COVID-19 Response

CAPE COD LICENSE PLATE GRANTS

The Cape Cod License Plate grant program allocates Barnstable County's share of funds raised through sales of the Cape Cod and Islands license plate. The program focuses on regional priorities for economic development that align with the implementation of the region's 5-year CEDS. The eligible recipients are non-profits and municipalities.

The FY2021 grant round sought to address COVID-19-driven economic needs in the region, awarding more than \$135,000 to six organizations:

Sustainable Cape: Center for Agricultural Preservation and Education: \$25,000 to expand access to locally grown and produced foods. Sustainable Cape through two new "hybrid farmers' markets" with a centralized online ordering system for the Truro and Provincetown farmers' markets.

Love Live Local: \$25,000 to create the Cape Cod Resilience Fund to support small businesses economically impacted by the pandemic. The award leveraged grants to 22 local businesses covering retail, tourism and hospitality, restaurants, and personal care services.

Cape Cod Community College: \$24,803 to develop and offer Community Health Worker (CHW) training program for Covid-19 contact tracing monitoring, and support state and local public health policymakers to plan safe and healthy communities during the pandemic.

Arts Foundation of Cape Cod: \$25,000 to support the Cape Cod Arts Relief Fund, covering more than half of the funds awarded to 14 local arts and cultural organizations.

Cape Cod Young Professionals: \$11,545 for a new Laser-Focused Coaching Program during the COVID-19 pandemic, providing confidential one-on-one and group coaching services to young working-age adults.



FY'21

Members (as of June 30, 2021)

Rob Brennan, President, CapeBuilt Homes

Chris Flanagan, Executive Officer at Home Builders & Remodelers

Mark Forest, County Commissioner

Duane Fotheringham, President, Hydroid

Kara Galvin, Executive Director, Cape and Islands Workforce Board

Tammi Jacobsen, Director of Workforce Development & Training, Cape Cod Community College

Alisa Magnotta, Executive Director, Cape Cod Housing Assistance Corporation

Harold "Woody" Mitchell, Chair, Cape Cod Commission

Paul Niedzwiecki, Chief Executive Officer, Cape Cod Chamber of Commerce

John Ohman, Representative, Barnstable County Assembly of Delegates

Robert "Bert" Talerman, Co-President, Cape Cod Five Cents Savings Bank

Julie Wake, Executive Director, Arts Foundation of Cape Cod

DEPARTURES

Lauren Barker, CEO, Cape Cod Young Professionals

Ron Bergstrom, County Commissioner

Peter Karlson, CEO, NeuEon

WATER QUALITY

COMPLETION OF THE WATER QUALITY DATA PORTAL

As part of a grant through the EPA's Southeast New England Program (SNEP), Commission staff and project partners developed a database and tool to aggregate and access all data compiled from approximately 20 years of coastal water quality monitoring. These different sources of coastal water quality data were compiled into a single dataset to be accessible through a public-facing data portal.

The project was designed to increase the accessibility and comparability of water quality data collected throughout the Cape Cod region and facilitate the use of the best available data by local decision-makers.

PONDS AND LAKES

Commission staff initiated an update to the 2003 Ponds and Lakes Atlas, which will move to an interactive, GIS-based online viewer. This

the new format will be easier for users to access and explore, and it will allow for information on ponds to be updated on a regular basis.

Existing information was migrated into a GIS database, which will compile all past and future pond water quality data in a central location to allow broader access.

COMPLETION OF FRESHWATER PONDS MONITORING QAPP

An EPA-approved Quality Assured Project Plan, or QAPP, was developed under a SNEP grant and for use by water quality monitoring groups to standardize and assure the quality of the data collected.

PONDS GROUPS SURVEY

A survey designed and compiled by an AmeriCorps member serving with the Commission identified active ponds groups around the Cape, their activities, needs, and future plans. The survey results provided an important baseline assessment of these volunteer resources as the Commission began a more in-depth look at the region's freshwater ponds and systems.

CAPE COD AND ISLANDS WATER PROTECTION FUND

The Cape Cod and Islands Water Protection Fund (CCIWPF) was established by the Massachusetts Legislature in 2018 to help Cape Cod and Islands towns pay for necessary wastewater infrastructure and water quality remediation projects. Projects on the Massachusetts Clean Water Intended Use Plan (IUP) for State Revolving Fund (SRF) loans are eligible for subsidies from the CCIWPF.

The CCIWPF is a dedicated fund within the state's Clean Water Trust set up to solely benefit communities on Cape Cod, Martha's Vineyard, and Nantucket. Its source of revenue is a 2.75% excise tax on traditional lodging and short-term rentals. The fund is administered by the existing Clean Water Trust and overseen by a management board comprised of representatives from every member town in the region. Currently, the 15 Cape Cod communities are members of the fund. The Cape Cod Commission provides administrative and technical support to the management board.

The Management Board adopted regulations for the disbursement of funds in October 2020. The board selected PFM Financial Advisors as a financial advisor to develop revenue projections and subsidy models. Cape Cod and Islands Water Protection Fund

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The Management Board adopted regulations for the disbursement of funds in October 2020. The board selected PFM Financial Advisors as a financial advisor to develop revenue projections and subsidy models.

In April 2021, the board unanimously voted to award the first set of subsidies to eight Cape Cod towns. Projects in excess of \$1 million will receive subsidies equal to 25% of the project costs. Projects of \$1 million or less will receive 50% subsidies. The board made contingent and final commitments totaling nearly \$71 million for qualifying pre-existing debt and for projects on 2018, 2019, 2020, and 2021 IUPs. More information can be found at:

<https://www.capecodcommission.org/our-work/cape-cod-and-islands-water-protection-fund>.

Members (as of June 30, 2021)

Mark Ells, Town Manager, Barnstable

Mary Jane Mastrangelo, Selectman, Bourne

Peter Lombardi, Town Administrator, Brewster

Robert Duncanson, Director of Health and Natural Resources, Chatham

Elizabeth Sullivan, Town Administrator, Dennis

Jacqueline Beebe, Town Administrator, Eastham

Peter Johnson-Staub, Assistant Town Manager, Falmouth

Don Howell, Selectman, Harwich

Andrew Gottlieb, Selectman, Mashpee

Kevin Galligan, Selectman, Orleans

Rich Waldo, Director of Public Works, Provincetown

Bud Dunham, Town Manager, Sandwich

Darrin Tangeman, Town Manager, Truro

Justina Carlson, Select Board Member, Wellfleet

Tracy Post, Selectman, Yarmouth

Kristy Senatori, Cape Cod Commission Executive Director (Non-Voting Ex-Officio Member)

Adam Turner, Martha's Vineyard Commission Executive Director (Non-Voting Ex-Officio Member)

Elizabeth Gibson, Nantucket Town Manager (Non-Voting Ex-Officio Member)

Departures

Josee Young, Assistant Town Manager, Provincetown

Rae Ann Palmer, Town Manager, Truro

James Potter, Selectman, Bourne

Ben DeRuyter, Select Board Member, Brewster

CAPE COD WATER PROTECTION COLLABORATIVE

The Cape Cod Water Protection Collaborative exists to offer a coordinated approach to enhance the water and wastewater management efforts of towns, the Regional Government, and the broader community. The Collaborative seeks to protect Cape Cod's shared water resources and to provide access to cost-effective and environmentally sound wastewater infrastructure.

The Collaborative is managed by an appointed Governing Board of 17 members representing each participating Town and Barnstable County.

Members (as of June 30, 2021)

Paul Hebert, Barnstable

Mandy Holway, Bourne

Ryan Bennett, Brewster

Dr. Robert Duncanson, Chatham

Paul McCormick, Dennis

Jane Crowley, Vice-Chair, Eastham

Ray Jack, Falmouth

Ed McManus, Harwich

Vacant, Mashpee

Sims McGrath, Chair, Orleans

Vacant, Provincetown

David Mason, Sandwich

Emily Beebe, Truro

Justina Carlson, Wellfleet

Jeffrey Colby, Yarmouth

Zenas Crocker, County Appointee

Mark Forest, County Commissioner



FY'21

Departures

Larry Ballantine, Harwich

Ron Beaty, County Commissioner

Terri Guarino, Bourne

TRANSPORTATION

OLD KING'S HIGHWAY ACHIEVES NATIONAL SCENIC BYWAY NOMINATION

Old King's Highway was designated a National Scenic Byway by the U.S. Department of Transportation. The nomination was prepared by the Cape Cod Commission and the Cape Cod Chamber of Commerce to preserve, promote, and enhance this unique roadway. The Massachusetts Department of Transportation (MassDOT) submitted the nomination to the Federal Highway Administration accompanied by letters of support from numerous local chambers of commerce and the Town of Barnstable.

The Commission's work developing a corridor management plan, initially in 1995 and updated in 2010, helped lay the groundwork for the national designation, making it eligible for nomination. That plan followed the roadway's 1992 designation as a Massachusetts Scenic Byway in recognition of its distinctive scenic and historic character.

CAPE RAIL STUDY

The Cape Rail Study, led by the Massachusetts Department of Transportation and assisted by a consultant team, is evaluating the potential for extending year-round passenger rail to Cape Cod with connections to the communities of Middleborough and Wareham.

An advisory group, which includes representation from the Town of Bourne and other key regional and local stakeholders, will provide input throughout the study process. Input from Advisory Group meetings will be important in establishing the framework for the study.

Cape Cod Commission transportation staff is providing technical and logistical support for the study.

DEVELOPMENT AND APPROVAL OF THE FFY2022-2026 TRANSPORTATION IMPROVEMENT PLAN

The Cape Cod Commission supported the Cape Cod Metropolitan Planning Organization (MPO), and their advisory group, the Cape Cod Joint Transportation Committee, in the development of key transportation planning documents for the region including the FFY2022-2026 Transportation Improvement Plan (TIP). The TIP serves as a prioritized listing of roadway, bridge, and transit projects proposed for implementation during the next five years.

Developed with a robust virtual engagement process, the plan included over \$200 million in funded projects across all fifteen communities. Highlights include:

- Reconstruction of Route 151 in Mashpee;
- Over \$32 million for improvements on Route 28 including installation of a roundabout Orleans at the intersection with Route 39;
- Over \$21 million for the construction of new shared-use paths in Bourne, Sandwich, Barnstable, and Yarmouth;
- Over \$76 million for Cape Cod Regional Transit Authority capital and operations.
- The TIP is accessible at www.capecodcommission.org/TIP.

COMPLETE STREETS PRIORITIZATION PLANS

Through the Massachusetts Department of Transportation Complete Streets Municipal Funding Program, the Commission is working with several Cape Cod towns to help improve safety and accessibility along our roadways.

In FY2021, the Cape Cod Commission led the development of a Prioritization Plan in Orleans and began work in Falmouth and Bourne. The towns of Eastham, Sandwich, and Mashpee have also completed Prioritization Plans. Towns with completed prioritization plans are eligible for additional state funding

Broadly speaking, Complete Streets promotes more livable communities. They improve safety, health, economic viability, and quality of life in a community by improving the pedestrian and vehicular environments and providing safer, more accessible, and comfortable means of travel between home, school, work, recreation, and retail destinations.

More information is available at www.capecodcommission.org/CompleteStreets.

CAPE COD METROPOLITAN PLANNING ORGANIZATION MEMBERS (AS OF JUNE 30, 2021)

Jamey Tesler, Chair, Massachusetts Department of Transportation (MassDOT), Secretary/Chief Executive Officer

Jonathan Gulliver, MassDOT Highway Division, Highway Administrator

Harold "Woody" Mitchell, Vice-Chair, Cape Cod Commission

Robert Lawton, Cape Cod Regional Transit Authority (CCRTA), Chairman

Mark Forest, Barnstable County Commissioner

Jason Steiding, Mashpee Wampanoag Tribal Council, Designee for Chairman

Daniel Santos, Barnstable, Designee for Town Council President

Judith MacLeod-Froman, Sub-region A Representative: Bourne, Falmouth, Mashpee, and Sandwich

Sheryl McMahon, Sub-region B Representative: Dennis and Yarmouth

Kevin Galligan, Sub-region C Representative: Brewster, Chatham, Harwich, and Orleans

Robert Weinstein, Sub-region D Representative: Eastham, Provincetown, Truro, and Wellfleet

Departures

Ronald Bergstrom, County Commissioner

Norman Holcomb, Sub-region B Representative

Alan McClennen, Sub-region C Representative

CAPE COD JOINT TRANSPORTATION COMMITTEE MEMBERS (AS OF JUNE 30, 2021)

Griffin Beaudoin, Barnstable

Shawn Patterson, Bourne

Griffin Ryder, Brewster

Thomas Temple, Chair, Chatham,

Thomas Andrade, Dennis

Silvio Genao, Eastham

Peter McConarty, Falmouth

Lincoln Hooper, Harwich

Catherine Laurent, Mashpee

Tom Daley, Orleans

Rich Waldo, Vice-Chair, Provincetown

Paul S. Tilton, Sandwich

Jarrold Cabral, Truro

Jay Norton, Wellfleet

Jeff Colby, Yarmouth

Sean Polay, Bicycle Representative (Alternate Amy Graves)

Departures

George Sala, Bourne

Patrick Ellis, Brewster

Mark Vincent, Wellfleet

NATURAL RESOURCES

BARNSTABLE COUNTY COASTAL MANAGEMENT COMMITTEE

THE BARNSTABLE COUNTY COASTAL MANAGEMENT COMMITTEE (BCCMC) is an advisory board to Barnstable County Commissioners established to provide guidance on the protection, preservation, and use of Cape Cod's coastal resource areas.

- The BCCMC areas of focus include:
- Planning for a shifting shoreline and improving coastal resiliency
- Protecting and enhancing fin and shellfish resources and coastal habitats
- Identifying education needs of the public about coastal resource management
- Providing guidance on dredging and disposal of dredged materials
- Coordinating regional sediment management
- Protecting marine and estuarine water quality

The BCCMC receives regular reports and updates from Cape Cod Cooperative Extension, Cape Cod Commission, and other organizations on their efforts to understand and protect the region's coastal resources.

It is also the parent group for the Barnstable County Coastal Resources Subcommittee and Barnstable County Dredge Subcommittee, technical committees that provide input on local coastal resources and the county's dredging program, respectively.

In October 2020, the Coastal Management Committee voted to recommend appointees to the Barnstable County Dredge subcommittee, as provided in the ordinance.

In June, the BCCMC voted to provide a letter of support for an Association to Preserve Cape Cod grant proposal to look at green infrastructure opportunities at Cape Cod boat ramps. The grant was requested through the Southeast New England Program or SNEP.

Coastal Management Committee Members (as of June 30, 2021)

Mark Adams, Ad Hoc Member, Cape Cod National Seashore

Mark Borrelli, Center for Coastal Studies

Silvio Genao, DPW Director, Eastham

Andrew Gottlieb, Association to Preserve Cape Cod (MassBays NEP service provider)

James Killion, Assembly of Delegates

Mike Maguire, Cape Cod Cooperative Extension

Steve McKenna, Vice-Chair, Massachusetts Coastal Zone Management

Chris Miller, Chair, Brewster, Representing Town Natural Resources



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Departures

Steve Tebo, County Commissioners Representative

Coastal Resources Subcommittee (as of June 30, 2021)

Nina Coleman, Director of Natural Resources/Sandy Neck Park Manager, Barnstable

Sam Haines, Bourne Conservation Agent, Bourne

Chris Miller, Director, Department of Natural Resources, Brewster

Robert Duncanson, Ph.D., Director, Department of Natural Resources, Chatham

Karen Johnson, Director, Department of Natural Resources, Dennis

Shana Brogan, Conservation Agent, Eastham

Jennifer McKay, Conservation Administrator, Falmouth

Heinz Proft, Director, Department of Natural Resources, Harwich

Ashley Fisher, Shellfish Constable, Mashpee

Vacant, Orleans

Tim Famulare, Conservation Agent, Provincetown

David Deconto, Director, Department of Natural Resources, Sandwich

Hillary Greenberg-Lemos, Conservation and Health Agent, Wellfleet

Karl Von Hone, Director, Department of Natural Resources, Yarmouth

Jo Ann Muramoto, Ph.D., MassBays Regional Coordinator for Cape Cod region, APCC,

Stephen McKenna, At Large Member, Regional Coordinator, CZM Cape & Islands Region

Donald Liptack, At-Large Member, Ret. NRCS Cape Cod Conservation District contractor

TECHNICAL ASSISTANCE TO TOWNS

Unless otherwise noted, funding for the following projects was provided by the Commonwealth of Massachusetts Department of Housing and Community Development's District Local Technical Assistance program through the Cape Cod Commission.

MULTI-HAZARD MITIGATION PLANS

Commission planning staff provided technical support in the preparation and drafting of Multi-hazard Mitigation plans for the

towns of Eastham and Provincetown. Funding for these projects was provided by the individual towns and the Massachusetts Executive Office of Energy and Environmental Affairs.

Once a town formally adopts a FEMA-approved hazard, it becomes eligible to receive funding from FEMA's Hazard Mitigation Assistance (HMA) program, which includes the Hazard Mitigation Grant Program, Pre-Disaster Mitigation, and Flood Mitigation Assistance.

WEST CHATHAM NEIGHBORHOOD CENTER THROUGH FORM-BASED CODE

The Town of Chatham requested technical assistance to advance its plan to create a new zoning district in the West Chatham Neighborhood Center through form-based code. Among the goals was for future development to be more pedestrian-friendly and enhance development patterns to make them more consistent with the town's Local Comprehensive Plan and prior planning efforts. Commission staff worked with town staff to develop a draft of potential new zoning, which incorporated significant public and Planning Board feedback.

This project is a continuation of previous Commission technical assistance, dating as far back as the 2013 Route 28 Visioning Study, to provide guidance for this important corridor.

BARNSTABLE LOCAL COMPREHENSIVE PLAN UPDATE

The Town of Barnstable requested technical assistance in support of its efforts to update the Town's Local Comprehensive Plan. The update will address its pressing need to increase housing supply, diversity and affordability, and economic and climate resiliency.

Commission staff drafted and refined local comprehensive plan maps based on town input, and also developed an online web map viewer. Completed December 2020.

BARNSTABLE LOCAL COMPREHENSIVE PLAN SUPPORT

The Town of Barnstable requested technical assistance in support of its efforts to update the Town's Local Comprehensive Plan, particularly regarding data and mapping. The update will address its pressing need to increase housing supply, diversity and affordability, and economic and climate resiliency. Ongoing as of June 30, 2021. Completion is expected in December 2021.

EASTHAM CITIZEN ENGAGEMENT AND COMMUNICATIONS

The Town of Eastham requested funding assistance to implement improved communications, project management, and citizen engagement platforms. Ongoing as of June 30, 2021. Completion is expected in December 2021.

PROVINCETOWN OPEN SPACE AND RECREATION PLAN

The Town of Provincetown requested assistance to support the update of its Open Space and Recreation Plan. In this update, the Town will expand its planning to include an inventory, needs analysis, and plan for future facility development/management. Completed December 2020.

STUDY ON POSSIBLE OUTER CAPE FIRE AND EMERGENCY

MEDICAL SERVICES

The towns of Truro, Wellfleet, and Provincetown requested funding assistance to explore opportunities to address shared challenges and regional solutions for Outer Cape fire and emergency medical services. Ongoing as of June 30, 2021. Completion is expected in December 2021.

WELLFLEET WASTEWATER MANAGEMENT AND AFFORDABLE HOUSING SITING ASSISTANCE

The Town of Wellfleet requested assistance to fund a study to determine options for wastewater management and the best option for siting a system to support its development of up to 46 units of affordable/community housing on town-owned land.

Wellfleet worked with its consultant, On-Site Engineering, to evaluate treatment and disposal system options for its planned affordable housing development. On-Site provided the feasibility of a largely decentralized sewage treatment system and obtained vendor proposals for Innovative/Alternative technology systems. Completed December 2020

WELLFLEET MODEL CONSERVATION REGULATIONS FOR CLIMATE CHANGE

The Town of Wellfleet requested assistance to support the development of model conservation regulations for climate change adaptation following its development of a model climate change and adaptation bylaw. Completed December 2020

SANDWICH AND YARMOUTH HOUSING PRODUCTION PLANS

The towns of Sandwich and Yarmouth requested funding assistance to update their respective Housing Production Plans. Ongoing as of June 30, 2021. Completion is expected in December 2021.

SECOND HOME-OWNER STUDY UPDATE

Several towns requested an update to the regional second homeowner survey. New and second homeowners are being surveyed to better understand the region's population changes due to COVID-19 and to help communities plan to address their shifting needs. Ongoing as of June 30, 2021. Completion is expected in December 2021.

TRURO UPDATES TO LOCAL COMPREHENSIVE AND ECONOMIC DEVELOPMENT PLANS

The town of Truro requested funding assistance to update its Local Comprehensive and Economic Development Plans. Ongoing as of June 30, 2021. Completion is expected in December 2021.

REGULATORY

Through its Regulatory Program, the Cape Cod Commission reviews projects that present regional issues identified in the Act that is likely to affect more than one town, including but not limited to water quality, traffic, community character, affordable housing, open space, natural resources, and economic development, as Developments of Regional Impact (DRIs).

DECISIONS AND DEVELOPMENT AGREEMENTS

BARNSTABLE

Cape Cod Healthcare: Notice of Intent (NOI) to seek a modification of an existing Development Agreement for property off Wilkens Lane in Hyannis, Approved 10/1/20, allows the applicant to apply for and pursue a modification of the Development Agreement

35 Scudder Residential Community, Lennar Multifamily

Communities (LMC): NOI to seek a Development Agreement with the Commission, Approved 2/25/21, allows the applicant to apply for and pursue a Development Agreement with the Commission

HARWICH

West Harwich District of Critical Planning Concern:

Conformance of implementing regulations with the DCPC approved in December 2020, Approved 9/3/20.

MASHPEE

Mashpee Commons Development Agreement: The Commission acted favorably on an NOI for a Development Agreement submitted by applicant Mashpee Commons Limited Partnership in March 2020. The Notice of Intent is related to approximately 186.67 acres of land owned by the applicant Mashpee, including land currently occupied by the "Mashpee Commons" development. The applicant submitted a preliminary Development Agreement application in March 2021. The application was not deemed complete and no hearings were held or scheduled on the matter in FY2021.

SANDWICH

Sandwich Water District: Development of Regional Impact Exemption for division of a 30+ acre property. Approved 12/17/20.

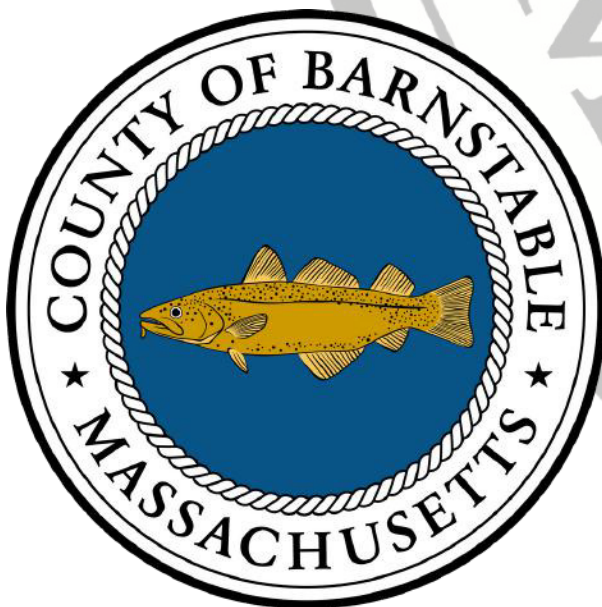
Victory Drive Solar, Lodestar Energy: 2.25 +/- megawatt ground-mounted solar array and battery storage development on property owned by the Housing Assistance Corporation. Approved 3/11/21



FY'21

AMERICORPS CAPE COD

Report of the AMERICORPS CAPE COD



AMERICORPS CAPE COD

3195 Main Street
P.O. Box 427
Barnstable, MA 02630
508-375-6630
americorps@barnstablecounty.org
www.americorpscapecod.org

REPORT OF AMERICORPS CAPE COD

For the Period July 1, 2020 and ending June 30, 2021

Meredith Ballinger, AmeriCorps Program Coordinator
meredith.ballinger@barnstablecounty.org | 508-375-6871

Phoebe Plank, AmeriCorps Program Specialist
508-375-6871 | phoebe.plank@barnstablecounty.org

Derek Brudahl, AmeriCorps Program Supervisor
508-375-6847 | derek.brudahl@barnstablecounty.org

Daniel Flockton, AmeriCorps Program Supervisor
508-375-6736 | daniel.flockton@barnstablecounty.org



Year 22 AmeriCorps Members and staff pose at the End of Year Celebration at the Barnstable County Complex.



FY'21

AMERICORPS CAPE COD

MISSION: AmeriCorps Cape Cod is dedicated to serving the critical environmental and community needs of Cape Cod through Natural Resource Management, Disaster Preparedness and Response, Environmental Education, and Volunteer Engagement.

The AmeriCorps Cape Cod Program is federally funded through grants from the AmeriCorps Agency, the Massachusetts Service Alliance, and matching funds from Barnstable County. Housing is provided by Barnstable County (Pocasset House), The Town of Barnstable (Ranch House), the Chatham Conservation Foundation (Devine House), and the Cape Cod National Seashore (Wellfleet House). The Cape Cod Center for Public Safety Training is responsible for the overall supervision of the AmeriCorps Cape Cod Program.

Since 1999, AmeriCorps Cape Cod members have diligently addressed critical environmental and disaster preparedness and response needs within our community and expanded volunteering opportunities for community members.

In the past 22 years, members have participated in the • following activities:

ENVIRONMENTAL CONSERVATION PROJECTS: Completed 4,440 land and water-based conservation projects

ENVIRONMENTAL EDUCATION: Taught over 2,400 environmental education activities to 59,354 students

DISASTER PREPAREDNESS AND RESPONSE ACTIVITIES

- Taught 548 community disaster preparedness education, classes
- Participated in 28 disaster simulations including the 2016 Barnstable County Regional Emergency Planning Committee Train Derailment Drill
- Staffed each of the Cape's three regional shelters, as well as the Multi-Agency Coordination Center at Joint Base Cape Cod for the first 72 hours during the 2013 winter storm "Nemo"
- Staffed each of the Cape's six regional shelters opened for public safety during 2013's Superstorm Sandy
- Responded to the historic 2012 marine mammal stranding events affecting over 175 marine mammals
- Staffed three regional shelters twice in 2018 when Cape Cod was hit with the "Four'easter"
- Assisted throughout the COVID-19 pandemic by setting up tents and directing traffic for COVID-19 drive-thru testing sites

COMMUNITY EVENTS: Organized and participated in annual events including National AmeriCorps Week, National Volunteer Week, County Day of Recognition for National Service, Arbor Day, Earth Day,

Harwich "Tour de Trash", Cape Cod Canal Clean-Up, Barnstable County Hazardous Waste Collections, Boy Scout Emergency Preparedness Fair, Martin Luther King Jr. Day of Service, Coast Sweep Beach Clean-Up, Project WET Festivals, Brewster Conservation Day, and Dennis Conservation Celebration

CIVIC ENGAGEMENT

Engaged 13,666 community volunteers in over 45,754.5 hours of community service

- Delivered 305 presentations about AmeriCorps, national service, community service, and/or civic engagement

COMMUNITY COLLABORATIONS

Partnered with over 150 federal, state, county, and/or town departments, schools, community groups, and non-profit agencies

BUILDING COMMUNITY

- 88% of AmeriCorps members have successfully graduated from the program
- 112 Corps members have stayed or returned to the Cape after graduation to live and work for a period of time — forty-four alums are currently living and working on the Cape; fourteen are working for Barnstable County or a Municipal department
- From September 1999 to July 2021, AmeriCorps Cape Cod members have served a total of 932,649.25 hours

Estimated Value of
Service to the
Cape Cod Community

\$31,113,233*

September 1999 – May 2021

* Source: "The Independent Sector" sets the State and National Volunteer Rate each year. (\$28.54 for 2021)

2020-2021 ADVISORY BOARD MEMBERS

RYAN BURCH
Town of Brewster

HEATHER MCELROY
Cape Cod Commission

NANCY CHURCH
Waquoit Bay National Estuarine Research Reserve

LAUREN MCKEAN
Cape Cod National Seashore

NINA COLEMAN
Town of Barnstable

STEVE MCKENNA
MA Coastal Zone Management

RACHEL HUTCHINSON
Town of Chatham

JOHN OHMAN
Assembly of Delegates - Dennis

MICHAEL LACH
Harwich Conservation Trust

Brian Sharp
International Fund for Animal Welfare

SHEILA LYONS
Barnstable County Commissioner

Jessica Erikson-Whritenour
The 300 Committee Land Trust





FY'21

AMERICORPS CAPE COD

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Wellfleet Cemetery Commission

Kristin Andres
Association to Preserve Cape Cod

Abigail Archer
Barnstable County, Cape Cod Cooperative Extension

Julie Baca
Chatham Conservation Foundation

Kelly Barber
Barnstable Land Trust

Dorothy Bassett
Chatham Conservation Foundation

Alexander Bates
Orleans Conservation Trust

Susan Bliss
Garden Club of Harwich

Kathleen Brady
Red Lily Pond Project

Lyra Brennan
Mass Audubon – Long Pasture

Shana Brogden
Town of Eastham, Department of Natural Resources

Pat Brophy
The Family Pantry of Cape Cod

Jon Bruce
Brewster Conservation Trust

Ryan Burch
Town of Brewster, Department of Natural Resources

Phil Burt
Barnstable County, Cape Cod Center for Public Safety Training

Katelyn Cadoret
Town of Mashpee, Conservation Department

Elisa Carey
U.S. Army Corps of Engineers, Cape Cod Canal

Nancy Church
Waquoit Bay Estuarine Research Reserve

Kalliope Chute
Barnstable County, Cape Cod Cooperative Extension

Nancy Civetta
Town of Wellfleet, Shellfish Department

Nina Coleman
Town of Barnstable, Barnstable Marine, and Environmental Affairs

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Cape Cod National Seashore

John Cullity
Sandwich Conservation Trust

David J. DeConto
Town of Sandwich, Department of Natural Resources

John DeFoe
Cape Cod National Seashore

Judy Desrochers
Meetinghouse Farm

Julie Early
Dennis Conservation Land Trust

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Town of Provincetown, Conservation Commission

Mary Kay Fox
Friends of Mashpee National Wildlife Refuge

Chris Gonnella
Town of Barnstable, DPW — Structures & Grounds Division

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Town of Wellfleet, Health and Conservation Department

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Town of Wellfleet, Health and Conservation Department

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FY'21

AMERICORPS CAPE COD

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FY'21

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2020-2021 SERVICE PROJECT HIGHLIGHTS

FULL CORPS

FULLER FARM TRAIL MAINTENANCE/MEADOW SUPPORT (BARNSTABLE)

Helped the Barnstable Land Trust manage invasive plants in field habitats, cut back branches along existing field trails, and create a new trail opening to re-direct walkers away from the future site of a native wildflower garden. Members also assisted with the creation of burn piles in preparation for the 2022 open burn season.

COVID-19 VACCINATION CLINICS AT LITTLE CREEK (EASTHAM)

Assisted Barnstable County at the Little Creek Vaccine Site in Eastham. Members directed traffic to ensure an orderly and efficient drive-thru clinic. Hundreds of Cape residents received COVID-19 vaccinations at these clinics.

WHOI SUGAR KELP RESEARCH PROJECT (FALMOUTH)

Participated in an ongoing research study at Woods Hole Oceanographic Institution. Members sorted, measured, and weighed sugar kelp blades as part of an ongoing sugar kelp breeding project.

PILE & PRESCRIBED BURNS AT CAPE COD NATIONAL SEASHORE (WELLFLEET/TRURO)

After completing their introductory Wildland Firefighting training, members helped conduct several prescribed burns with the Cape Cod National Seashore Fire.

OUTER CAPE

SHELLFISHING AT OYSTER RIVER AND STETSONS COVE (CHATHAM)

Over several service days, members planted, broadcast, culled, overwintered, and refloated oysters. They also cleaned and maintained aquaculture gear for the Town Shellfish Division.

SANDY MEADOW LAND MANAGEMENT (EASTHAM)

Felled, cut, and chipped large adult pitch pines and locust trees with the Eastham Department of Natural Resources to reclaim native heathland habitat at the Sandy Meadow Conservation Area.

PILE BURN AT PLEASANT BAY WOODLANDS (HARWICH)

Burned brush piles at Pleasant Bay Woodlands. The project furthered the Harwich Conservation Trust's Forestry Management Plan and early successional habitat management for the 4+ acre property.

POND EROSION CONTROL AT CAPE COD NATIONAL SEASHORE

(WELLFLEET/TRURO)

On several occasions, members assisted National Park Service staff with pond erosion mitigation efforts across the Cape Cod National Seashore. Members helped install split rail fencing, planted native shrubs, and installed water bars to mitigate the effects of overuse at kettle pond shorelines.

UPPER CAPE

3-PANEL/BOURNEDALE HILLS STAIR INSTALLATION (BOURNE)

Helped the U.S. Army Corps of Engineers install stairs at the 3-Panel/Bournedale Hills Trail. By creating a uniform height between steps, members increased trail accessibility. Erosion control methods for downhill runoff were also improved.

PETERSON FARM TRAIL CONSTRUCTION (FALMOUTH)

Assisted the Falmouth Conservation Commission to create a new public walking trail at their Peterson Farm property. Members cut back invasives such as multiflora rose, black locust, and porcelain berry, collected trash and debris, and removed fallen trees from across the path.

BOARDWALK REMOVAL (MASHPEE)

Removed portions of the marsh boardwalk at South Cape Beach. The boardwalk was originally constructed to facilitate access for researchers from Waquoit Bay National Estuarine Research Reserve but had become a liability due to storm damage.

SHELLFISHING AT MILL CREEK (SANDWICH)

Spent several service days culling, overwintering, refloating, and broadcasting oysters with the Sandwich Department of Natural Resources.



Members pose after helping Mass Audubon install symbolic shorebird fencing at various Mid-Cape and Upper Cape beaches.



Members give a thumbs up after completing an invasive species removal project at Fort Hill in Eastham.



Cape Cod National Seashore's Fire Management Officer, Dave Crary, holds an After-Action Review with the Year 22 Corps at the end of a wildland fire field training session.



DARLENE JOHNSON-MORRIS AWARD

Darlene Johnson-Morris is the founder and original visionary for the creation of AmeriCorps Cape Cod. Darlene was able to garner investment from community stakeholders to get the program off the ground and continued to grow and adapt the program to the needs of Barnstable County. After leading the AmeriCorps Cape Cod program for 17 years, Darlene retired in 2017. To honor her dedication and service to the AmeriCorps Cape Cod program and Barnstable County, the program established the Darlene Johnson-Morris Award in Year 18 of the program. Each year, one member receives the Darlene Johnson-Morris award. Program staff selects the award recipient based on the member's commitment to community service and by going above and beyond to demonstrate a service ethic.

Year 18 Award Recipient: Matthew O'Keefe
 Year 19 Award Recipient: Mollie Thompson
 Year 20 Award Recipient: Rachel Robinson
 Year 21 Award Recipient: Nicholas Banning
 Year 22 Award Recipient: Bianca Bowman

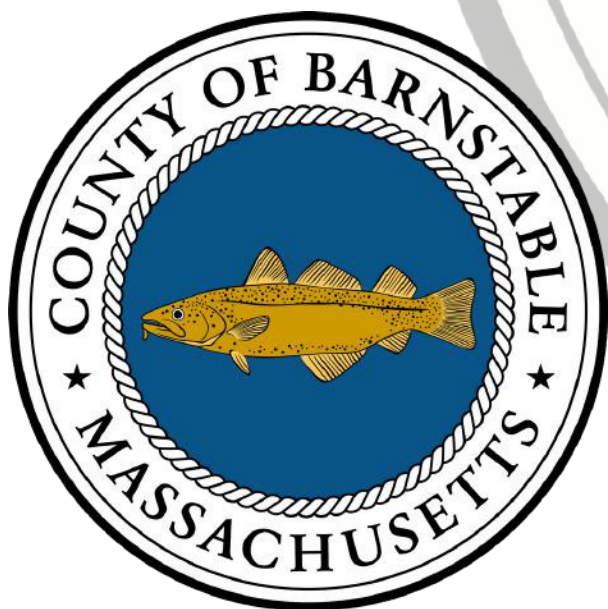
Thank you for your service!



FY'21

Report of the CAPE COD COOPERATIVE EXTENSION

CAPE COD COOPERATIVE EXTENSION





CAPE COD COOPERATIVE EXTENSION

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www.capecodcooperativextension.org

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www.loveyourlocalwater.org

REPORT OF THE CAPE COD COOPERATIVE EXTENSION

For the Period July 1, 2020 and ending June 30, 2021

ABOUT THE CAPE COD COOPERATIVE EXTENSION

Cape Cod Cooperative Extension was established in Barnstable County in 1916. Extension's educational programs focus on agriculture, marine resources, horticulture, aquaculture, shellfish management, natural resources, tickborne disease, water quality, recycling, household hazardous waste, nutrition, food safety, youth development, and environmental education. The mission of Cape Cod Cooperative Extension is to improve the health, well-being, and security of youth, families, and communities; conserve and enhance natural resources; and strengthen agriculture and food systems. We fulfill our mission by utilizing the research and teaching capacity of the University of Massachusetts Amherst and Woods Hole Oceanographic Institution Sea Grant program to generate and communicate knowledge while creating approaches, methods, and tools for solving problems. Extension links the Massachusetts land grant university with a larger community of people in collaborative partnerships to address issues of fundamental importance to the people of Barnstable County.

An Act of Congress formed Cooperative Extension nationally in 1914 as a three-way partnership. The three partners were the land-grant university in each state (such as UMass Amherst in Massachusetts), the federal government (through the United States Department of Agriculture), and local government (through Barnstable County). Through the use of workshops, conferences, field demonstrations, technical assistance, radio, television, the Internet and more, Extension brings an objective, research-based and credible information people can use every day to improve their lives.

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FY'21

CAPE COD COOPERATIVE EXTENSION

4-H PROGRAM

4-H is a national program with an international presence was founded in 1908 and has become a nationally recognized effective, positive youth development program. In Massachusetts, the 4-H program is administered by the University of Massachusetts Extension System.

The Mission of Massachusetts 4-H is to prepare youth to become independent and contributing members of society by providing them with the tools they need to be successful. The 4-H program is open to youth ages 5-18 throughout Massachusetts where they can grow, learn, and explore offerings through varied programs in robotics, foods, consumer science, career exploration, community service, photography, leadership, and animal science projects with the research-based curriculum.

The COVID-19 pandemic continued to present challenges for the Barnstable County 4-H program. Due to safety restrictions, clubs were not meeting in person, and given the hands-on nature of this program virtual meetings were a difficult structure to support effective club meetings. Some clubs did continue conducting virtual meetings and a weekly newsletter was distributed which included the UMass 4-H weekly newsletter. These newsletters offered numerous various programs to our youth and adults virtually.

The Plant Science program was implemented as a pilot program with three, grade 1-5 schools in Barnstable providing sunflower seed packets and planting instructions to over 2600 students. The program was well-received by the participating schools. We look forward to receiving pictures from the students of the grown sunflowers.

With the lifting of COVID restrictions and the announcement of the opening of the Barnstable County Fair clubs and youth came together to prepare for the fair and reconnect. The Youth Building, Horse Barn, and a dog showcase were made available to the visiting public. The positive energy was evident as the youth and their leaders worked together to successfully deliver these initiatives. The Horse Barn stalls were full for the entire week with our public regularly having to wait in line to enter the barn where they were met by our enthusiastic youth ready to share their knowledge and introduce their horses. In the ring, the youth demonstrated their riding skills including barrel riding, and participated in a judging clinic.



Youth(above) demonstrating their horse-riding skills

The Barnstable County dog club in collaboration with the Plymouth County dog club provided a well-attended dog showcase. At the showcase, the youth provided our public with an understanding of training techniques, animal care, as well as judging and showing skills demonstrations.



The Youth Building although received fewer exhibits than in years past exhibits received was impressive. The exhibits included perishable items of vegetables, flower arrangements, and baked goods and non-perishable items including arts and crafts, photography, sewing, pottery, and various types of drawings and paintings. Youth from the Truro Library submitted an extensive display of framed creations featuring seeds based on the theme, "Seeding our Future". Lydia Fitton-Alves, recipient of the Massachusetts Kent Large Scholarship and Barnstable County Advisory scholarship conducted a sewing demonstration donating her creations of fleece blankets to the 4-H program.



Potted Plants for Seniors, Inc. generously provided plantings in the front gardens of both the youth and adult buildings and potted plants to beautify the outside of the building. We greatly appreciate their time and effort. Additionally, throughout the fair, they provided a community service opportunity that afforded our visitors with the experience of decorating a 4" flower pot that would be filled with a plant and delivered to a senior citizen or veteran in our community.



AGRICULTURE AND HORTICULTURE PROGRAM

Cape Cod Cooperative Extension's Agriculture and Horticulture Program provides educational programs and serves as a resource for unbiased research-based information for industry professionals, municipalities, and the public. Agriculture and horticulture are important components of Barnstable County's economy. Agricultural commodities alone have a market value of more than \$10,000,000 in Barnstable County. Agriculture and horticulture are also vital to residents and visitors providing food, jobs, recreation, and beauty; essentials to our tourist-based economy.

The agriculture and horticulture program offers Barnstable County citizens, professionals, and municipalities education enabling them to make sustainable and environmentally sound land management decisions. The program offers a diverse number of educational opportunities including conferences, multi-week classes, presentations, and hands-on education. In FY 2021 many of the longstanding in-person educational programs were moved to online formats in a continued effort to deliver services.

The agriculture and horticulture program serves as a resource for unbiased research-based information. The program provides these services to the public through the aid of trained volunteers, Master Gardeners. The Master Gardeners help operate many of the agriculture and horticulture activities and outreach. The more than 200 Master Gardener volunteers provide approximately 7000 hours of volunteer work, a value of more than \$185,000. In FY 2021, ten new Master Gardeners were recruited and trained. The Horticulture Clinic which is typically staffed by Master Gardeners provides citizens with an opportunity to get horticulture questions answered, soil tested, plants and pests identified. In FY 2021, hundreds of clients used the service to get reliable unbiased research-based information developed at our Land Grant Universities.

The agriculture and horticulture programs also serve as a resource for industry professionals and municipalities. These services include site visits, publications, and diagnostic services. In FY 2021 more than 30 site visits were conducted, providing municipalities and industry professionals with technical expertise and guidance. The agriculture and horticulture program monitors for agriculture and horticulture pests and provides this information to industry professionals through several UMass Extension publications including the UMass Landscape Message. The UMass Landscape Message provides detailed weather and scouting reports that enable local professionals to make informed pest management decisions based on Integrated Pest Management (IPM), the reports are provided weekly April-June, bi-weekly March, and September, and monthly October – December. The agriculture and horticulture program continues to be a reliable resource for trusted information for the public, industry professionals, and municipalities.

COASTAL PROCESSES

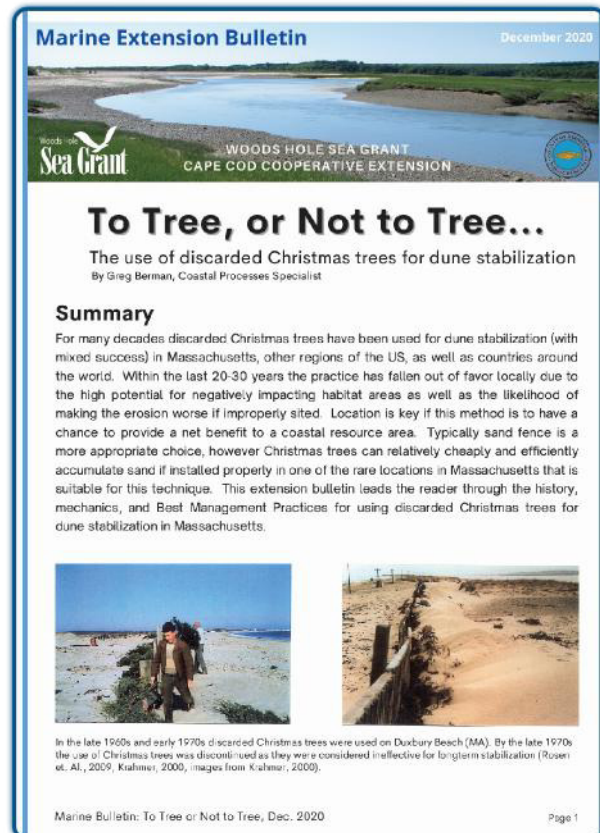
Outreach on Coastal Processes

Over the last year, technical assistance on coastal processes has been provided in the form of 27 site visits (typically with associated GIS

analysis and follow-up written reports) on issues relating to coastal bank stabilization, beach grass for erosion control, proposed revetment construction on coastal banks, and dune restoration. The combined area of the properties that were provided information to make sound management decisions was over 67 acres (314 site visits since 2009). 25 site visits (valued at \$100,000) were conducted in 12 Barnstable County towns (Bourne, Brewster, Chatham, Dennis, Eastham, Falmouth, Harwich, Orleans, Provincetown, Sandwich, Wellfleet, & Yarmouth) in addition to several other towns throughout Massachusetts. Additional direct outreach has been provided in the form of 13 presentations to 525 people total (over 9,000 reached in 194 presentations since 2009). A wide range of audiences has been reached from congressional staffers to conservation commissions, to town officials, to Audubon, to town boards/commissions, to high school students, to homeowners associations. The number of in-person presentations is greatly reduced as well as the yearly conference canceled due to concerns over COVID, however online support for stakeholders has remained high.

This year a new Marine Extension Bulletin was published entitled *To Tree or Not to Tree: The use of discarded Christmas trees for dune stabilization in Massachusetts*. In the days following the holidays when it's time to clear out all the decorations, Massachusetts residents often wonder what to do with their Christmas trees. In coastal areas of Massachusetts that often leads to questions about whether discarded trees can be used in dune stabilization. This bulletin takes a look at the practice through history, mechanics, and best management practices and has been distributed electronically since January of 2021 on the webpage

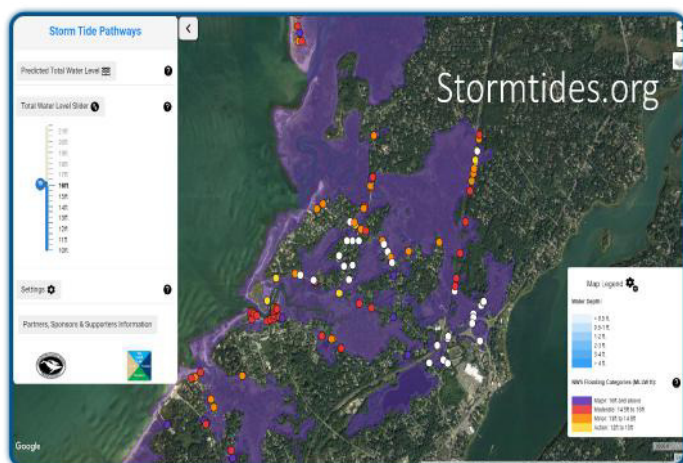
www.capecodextension.org/coastalprocesses/publications/



FLOODPLAIN MANAGEMENT AND THE COMMUNITY RATING SYSTEM

All Barnstable County towns have received technical assistance for basic floodplain management and the Community Rating System (CRS). Nine towns are now in the CRS program, with all nine completing annual verification. No towns had 5-year audits in FY21. Bourne continued to work with the Federal Emergency Management Agency (FEMA) to pass the primary stage for eligibility for CRS participation. Barnstable County communities in the CRS are currently saving 3,000 policyholders \$440,000 annually. Total savings since the creation of the program in 2015 are \$2.2 million.

Technical assistance was provided for floodplain management and resilience (building codes/floodplain regulations, flood insurance, flood maps, historic structures in floodplains, grants, etc.) 180 times for nearly 1,000 community officials, residents, businesses, and organizations. The floodplain program offered 6 trainings for 200 community officials, relevant professionals, and homeowners, and provided 6 continuing education credits for Certified Floodplain Managers®. Outreach was provided to 370 people in the form of 4 presentations and organized events for local elected officials and staff, businesses, and the public. Virtual conferences supported by Floodplain staff saw 700 attendees. Note that some typical trainings and outreach opportunities were not scheduled due to COVID-19.



A screenshot of the stormtides.org website, where the data from the Storm Tide Pathways project can be found. The project was funded by the Seaport Economic Council and managed by the Cape Cod Cooperative Extension. (Above)

Projects included the creation of a model floodplain bylaw (ongoing), assisting communities with reviewing existing bylaws and updating those to meet basic National Flood Insurance Program requirements, storm tide pathways mapping for Cape Cod Bay shorelines including outreach to all communities, staff to the Barnstable County Coastal Resources Subcommittee, virtual training, and helping to plan three virtual conferences/forums (Net Zero 2020, massFM's annual conference, and the Coastal Homeowner Floodplain Buyout Forum).

MARINE PROGRAM

Cape Cod Cooperative Extension's Marine Program works with industry, municipalities, and the public to be a resource for educational programs and an unbiased, research-based source of information. Fisheries and aquaculture products are an integral part of Barnstable County's economy providing millions of dollars in economic activity and a traditional source of employment. FY21 highlights of the Marine Program include:

- Successfully leveraged funding from county and towns to support a seed bid program providing just under 7 million quahog seed, 800

bags of oyster remote set, and 1.25 million oyster seed to the towns of Barnstable County.

- Barnstable County's Cooperative Extension office remains the administrator of SEMAC (Southeastern MA Aquaculture Center), and Marine Program staff oversee and administrate its activities and programs. The Center is directed by a 13-member board of directors and received \$30K in support from the Massachusetts Department of Agricultural Resources in FY21 for direct industry assistance, including \$23k in mini-grants to foster industry innovation.

- With support from SEMAC and industry, the water quality monitoring program using the long-term deployment of instrumentation at five locations: Cotuit Bay, Barnstable Harbor, Duxbury Bay, Wellfleet Harbor, and Pleasant Bay in Orleans was continued. In addition, funding was received in FY20 from a state grant program to purchase replacements for aging equipment which were placed into use in FY21. Also added was instrumentation capable of measuring acidification in Cape Cod water bodies which were deployed at several sites around the region based on interest.

- The eighteenth year of shellfish habitat assessment data was collected at 4 sites around the Cape providing baseline data for shellfish resource managers and industry members to compare against. This data was also shared with the local USDA FSA office to help establish baseline data to inform their disaster assistance products for shellfish aquaculture.

- Marine Program staff maintained a network of shellfish disease (veterinary disease) monitoring stations which included over 30 participating shellfish growers and 4 wild shellfish sites. This monitoring is designed to collect information on disease occurrence, prevalence, intensity, and seasonality to better understand potential impacts throughout Barnstable County.

- Marine Program staff assisted the Town of Harwich and the Division of Marine Fisheries with collecting data from an electronic fish counter on the Herring River at the Bells Neck Conservation area. The data on numbers of river herring that move upstream here is used by the state to track progress toward population recovery goals.

- Herring Wardens in Barnstable County participate in the River Herring Network, a group coordinated by Marine Program staff that brings in speakers from UMASS Amherst, and federal and state agencies to talk about the latest research and management decisions that affect local stewardship efforts in river herring runs. The COVID-19 pandemic prevented the in-person meeting from occurring but two Zoom seminars were organized with participation.

- COVID-19 has caused a significant impact on many sectors of the economy and the loss of sales for the oyster aquaculture industry has been dramatic; the industry typically does in excess of \$10M in sales within in Barnstable County alone. The Marine Program was awarded \$100k in "rapid response" funds from Sea Grant late in FY20 to implement a program in FY21 targeting alternative markets for oysters while also providing high-quality protein to folks in need. The program provided an opportunity for 76 oyster farmers to each sell 1000 oversized oysters which were shucked at local processors resulting in 1800 pounds of oyster meats to MA food banks, providing thousands of meals. Small amounts of oversized oysters were also shucked and tested for retail and in several value-added products like smoked and stuffing products to build potential in secondary markets for industry diversification. Roughly 50 oyster growers also participated in town-managed purchases of overstock oysters for supplementing hard-hit recreational shellfisheries.



FY'21



Frozen shucked oysters are being provided to a food pantry volunteer



Frozen shucked Cape Cod oysters on a food pantry freezer shelf.

- Roughly 95% of MA shellfish aquaculture production is oysters, and the rest is predominately hard clams. The industry has an interest in diversifying but candidates have been limited. There has been an interest in culturing surf clams with demonstrated rapid growth and good market characteristics but they have not always performed so well in nearshore waters. A project was initiated to compare 2 strains of surf clams, one with parent stock from Cape Cod Bay and the other with parent stock from the southern coast of Cape Cod, to see how they perform at 7 different sites around Cape Cod in hopes of identifying a strain that performs the best.



Marine Resource Specialist, Harriet Booth, preparing monitoring instruments. (above)



Two different strains of surf clams are being tested at aquaculture sites. (above)

MUNICIPAL ASSISTANCE COORDINATOR

The role of Municipal Assistance Coordinator entails comprehensive and continued knowledge of Cape Cod and the Island's sustainable solid waste systems. Including diversion programs containing solid waste, recycling, composting, alternative recycling and diversion programs, and technical assistance for state funding through grant opportunities. Response to municipal trash programs meeting the needs of the residents, providing environmental justice, and identifying the economic needs of the communities in which this position serves. Providing resiliency and cost-effective programming through various grant programs, including SMRP through MassDEP, is essential for continuing our sustainable solid waste systems.

Summary of 2020: Position transitioned into virtual participation in active solid waste and recycling committees, virtual monthly "Town Hall" meetings with employees of the DPWs, and transfer stations. Separately, every other virtual monthly group meeting with all Cape and Islands solid waste and recycling committees and commissions. (Formerly, the Cape and Islands Solid Waste Professional's Quarterly Review-these meetings allow for all the solid waste professionals to get together in one room and talk about challenges, upcoming events, solutions, and possible program ideas that the communities are seeking). Virtually continued to participate in continuing education forums/conferences/webinars, collaboration with multiple organizations across the Cape and Islands, multi-media interviews- radio, local TV, and print, virtual public recycling/composting/market conditions/State of the Cape/global impact presentations to vast groups including students/schools, recycling members, town officials, curious residents, select-boards, and BOH's. Provided technical assistance for grant programs and implemented alternative grant programs: boat shrink wrap, collection for recycling (an attempt was made to continue the program from 2019, however, due to the safety risk of volunteers, residents, and staff- the program was canceled in 2020), latex paint recycling collection, and the collection of Christmas lights, mattresses/box springs, PGA (processed glass aggregate).

Continued work with the Cape Cod Commission and the Barnstable County Health Department is necessary for a regional solution for sustainable management of our waste materials.

2020 demonstrated the importance of highlighting environmental justice, economic savings, and development, as well as the needs and response to the communities of the Cape and Islands in the aftermath of The National Sword (2018) and the Covid-19 Pandemic (2019). A steering team was developed to create a SOW reviewing our need for a cohesive/resilient and sustainable regional solution to the environmental and fiscal cost impacts of The National Sword and Covid-19. The steering team was originally comprised of the former County Administrator, members of the Cape Cod Commission, a member of the County's Board of Health, and the Waste Reduction Coordinator (MAC) from the County's Extension Department. Over the course of several months, we developed an action plan, SOW, and a presentation to the County Commissioners and the Assembly of Delegates requesting funds for an RFP to hire 3rd party vendor(s) who are experts in regional solid waste districts and/or eco-parks.

Since the approval of our proposal by the Commissioners and Delegates, we have been working with two vendors on two separate projects.

Geosyntec, Project I "Cost-Benefit Analysis of Out-of-State Disposal" and Tetra Tech, Project II "MSW Diversion Options for Recyclable, Reusable and Hard to Dispose of Waste Materials. Both projects I and II kicked off in December of 2020 and are contracted through November 2021. Team leads on both projects are me and two members of the Cape Cod Commission. Reviewing vendor proposals and developing a plan for the feasibility study became a monthly task (sometimes multiple monthly correspondences) throughout the year.

Participation in the Extension's MDAR grant application commenced approximately November 2019 – June 2020. The program proposed tabletop home compost bins be distributed to the municipal drop-off centers so they could pass them to their residents for free. An info card outlining what type of food waste could go into the bins before taking it to the transfer station's drop-off food waste collection program was included with the bin.

Winter (January - March)

MassDEP IQ Kit kick-off- this is a state-wide grant program. It targets one material stream that contaminates the recycling stream (this could vary by municipality/program). Once that material has been identified, a short blast campaign providing outreach and education is launched. Team meetings began for the 2020 boat shrink wrap recycling program (ultimately canceled). In 2019 the program partnered with Woods Hole Oceanographic Institute, SeMASS/Covanta, and AmeriCorps as well as three municipalities to be "depots" for the Cape-wide collection event- the decision was made by early spring to cancel the program due to safety concerns outlined in the summary above.

As the majority of work transitioned into virtual settings, outreach to media was a focus as a way to present recycling and composting initiatives. Holiday Lights Collection, latex paint collection programming, and various collaborations with Extension programs continued despite challenges related to Covid protocols.



Barnstable, MA 2020-2021 Christmas lights collection program



FY'21

CAPE COD COOPERATIVE EXTENSION

Spring (April-June)

Virtual forums with districts became a place for us to troubleshoot challenges of passing fees at the gatehouse, touching items that may be Covid-contaminated, and keeping distance between employees and users of the drop-off centers. This was a heavy month for resident phone calls with concerns about programs that were temporarily closed.

In addition to multiple webinars and presentations throughout the county with groups such as Cape Space, the program was requested to present on the organics panel at the virtual fall R3 Conference, an annual state-wide conference with industry stakeholders from all sectors of solid waste and recycling.

Summer (July-August)

Program initiatives included continued calls with the state and county stakeholders as well as local organizations such as the Center for Coastal Studies. A program committed time to the Boston-based "Refuse, Reduce, and Reuse" monthly SWAC forum to plan out monthly forums and topics for virtual sessions as well as MassRecycle organics panel. In-person work included Cape-wide latex paint collection day in the Town of Dennis.

Fall / Winter (September- December)

The program continued work with the development and presentation for the MassRecycles panel presentation on organics and received the 2020 MassRecycle Award in the "Outstanding Municipal Recycling, Reuse, and Waste Reduction Program" category. Planning and execution of multiple projects included work on the boat shrink wrap collection with WHOI and AmeriCorps Cape Cod, MassDEP train the trainer- best management practices for private hauler regulations, proposal reviews from RFP for vendors- regional feasibility study, participation in the Cape Cod Commissions "Climate Change Action Plan", and CARE 2021 summit planning on waste prevention and the new single-use plastic water bottle bans. Outreach to media on program highlights and county projects includes coverage from Cape Cod Chronicle and local radio stations.



Municipal Assistance Coordinator displays trunk full of Christmas lights to be recycled from the Town of Sandwich.



Cape-wide 2020 Latex Paint Take-Back day Collection Flyer

2020 Accolades:

- MassRecycles Award Recipient
- 2019-2020 Christmas lights collection yielded 4,000 pounds or 2 tons recycled
- 2020-2021 Christmas lights collection yielded 6,500 pounds or 3.5-tons recycled
- Latex paint collection yielded over 28,000 gallons of paint recycled
- 2020 Kick-off for an MSW and Recycling diversion/eco-park regional feasibility study- Commission and AOD approval
- Successful transition into remote work with increased correspondence/productivity



Municipal Assistance Coordinator Kari Parcell and MDAR grant recipient Scott West display tabletop compost bins/toter in the Town of Orleans. (left)

MDAR grant recipient, Tracy Regazio from the Town of Barnstable and Municipal Assistance Coordinator Kari Parcell. (right)



MUNICIPAL ASSISTANCE

The educator offers assistance to municipal departments, fire, waste, and water districts on chemical safety and disposal. Throughout 2021 the educator offered support to fire departments/districts, schools, DPW, and others to dispose of unwanted chemicals, including firefighting foams, mercury, lab chemicals, and cleaners. Additionally, the educator offered mentorship and support to other municipalities and non-profits on HHW, sharps, flares, and mercury programs.

Affiliations

The educator is a member of the North American Hazardous Materials Management Association (NAHMMA), serves as the Secretary/Treasurer for the NAHMMA Northeast chapter, and is on the communications committee of the NAHMMA national chapter. Additionally, the educator serves on the Cape Cod Hoarding Task Force Executive Committee and the Environmental Science and Technology committee at Barnstable High School.

Other Activities

The educator spoke to multiple organizations in 2021 and gave numerous presentations, including the statewide MA DEP, Cape Cod Chambers of Commerce, Cape Cod and Islands Realtors Association, Herring Pond Association, and Barnstable COA.

The educator was a moderator for the national NAHMMA conference on the topic of flares.

The educator was a member of the Commonwealth's Strategic Sourcing Team for the hazardous waste and difficult-to-manage waste state contract FAC 110.

The educator assisted in coordinating a presentation on the safe disposal of propane tanks, fire extinguishers, and other difficult-to-manage waste streams for all Northeast states.

The educator attended many training and workshops with topics as diverse as climate and weather, chemical safety, PFAS and other forever chemicals, 1,4 dioxane, construction and demolition, plastic film, organics, nitrogen, resiliency, solid waste, and water leadership. Interviews included WCAI and The Enterprise.

The program area hosted two AmeriCorps Cape Cod members.

Connect

www.Facebook.com/LoveYourLocalWater

www.LoveYourLocalWater.org

www.CapeCodGroundwater.org

*Data were aggregated and reported by calendar year.

NUTRITION AND FOOD SAFETY EDUCATION

Nutrition lessons were held using an online format through Old Colony YMCA's Community Corrections probationary program in Hyannis to provide basic life skills to low-level offenders as they are returning to the community. The nutrition educator demonstrated cooking techniques and recipes while also fielding questions from those watching. Reinforcement materials were made available for those in attendance.

In place of the cafeteria tastings originally planned as part of SNAP-Ed projects, monthly virtual, interactive Food Explorer cooking classes were offered to school-aged students and their families focused on a unique fruit or vegetable each month, plus kid-friendly recipes, and food safety messages. Families received the recipe in advance of the class to purchase ingredients and cook along from home.

Series of Show Me Nutrition afterschool lessons at Nathaniel H. Wixon School, April vacation week cooking classes, and a summer camp series at Ezra H Baker Elementary School were offered virtually and supplemented with prerecorded food demos in an attempt to offer enrichment opportunities outside of the school day at SNAP-Ed sites when in-person programs were not feasible.

As part of SNAP-Ed programming, approximately 200 eighth-graders participated in a virtual nutrition lesson in Dennis-Yarmouth Regional High School's health classes focused on healthier choices for adolescents with leave-behind learning activities for teachers to use in the classroom.

A 6-week nutrition and gardening series at two Falmouth elementary schools tied in experiential learning by starting seeds in mini-greenhouses in the classroom, tasting opportunities, and nutrition lessons. Pre-recorded lessons were made available through SNAP-Ed funding along with children's books, seeds/seedlings, and supplies for teacher-led tastings in the classroom. 80 students participated.

Kids in the Kitchen e-newsletters were released monthly to all private and public elementary schools in Barnstable County throughout the 2020-2021 school year to support educators teaching remotely and parents homeschooling due to the pandemic. The videos highlight local agriculture along with additional resources, recipes, and supplemental learning activities for grades K-6 supporting the monthly theme. The Kids in the Kitchen videos have been made possible through Massachusetts Department of Agricultural Resources funding and produced in collaboration with Cape Cod Buy Fresh Buy Local.

Food pantries pivoted their distribution efforts in the pandemic, and nutrition educators could not conduct cooking demonstrations during this time. Farmers' market bags with nutrition materials went to 300 people in a drive-through food bag program offered by the Family Pantry of Cape Cod in Harwich.

As a result of the pandemic, offerings to preschools involved the delivery of lesson plans for teachers and take-home folders for the students. Supplemental materials were sent to teachers based on Show Me Nutrition Curricula including a recorded story and guided physical activity.

Two virtual sessions for parents were held covering picky eaters and budget meals, and a separate program entailed a pre-recorded cooking demonstration followed up with 18 families being provided cooking kits with a cookbook and cooking utensils to encourage family kitchen activities and cooking. A separate parent class was offered virtually to answer questions about eating and feeding issues after the video release and cooking kit delivery.



Preschool nutrition education was enhanced by at-home cooking kits during the pandemic.

Students as part of the 21st Century Grant program at Hyannis West Elementary School participated in three series of lessons connecting fresh, seasonal produce to the preparation and sampling of healthful recipes utilizing that produce. A chef/nutritionist-led series allowed for meaningful interaction with students while learning from home. In collaboration with a Master Gardener, the virtual spring series allowed for hands-on gardening activities utilizing Earthboxes to supplement weekly cooking demo videos utilizing the produce being grown at home.

Older adults participated in various virtual presentations and cooking demonstrations while senior centers remained closed due to the pandemic. In attempts to reach this isolated audience and assist local Councils on Aging, Wellness Words, an electronic newsletter with accompanying presentation slides and recorded cooking demonstrations were developed. A range of topics related to nutrition and food safety for seniors was offered in this format on a monthly basis.

The extension worked to improve food access throughout the community in various ways in response to the pandemic. Earthboxes and seedlings were made available to HOW (Helping our Women) in Provincetown to encourage home gardening to grow their own herbs and vegetables. Educators assisted with Farmers to Families Food Box distribution events and developed educational materials to inspire healthful meals using the contents of the boxes. Collaborative activities included presentations at Cape Cod Hunger Network meetings and a live food access discussion hosted by Cape Women's Coalition.

In support of the Marine and Aquaculture Program's work to target alternative markets for oysters, nutrition educators compiled recipes appropriate for food pantry clients utilizing the shucked oysters that

were being distributed statewide. Collaborations with Greater Boston Food Bank's nutrition team resulted in these recipes being included in the agency's Click 'n Cook website.

Nauset Middle School invited the nutrition educator to speak in an online format with students on the topic of food insecurity.

Nutrition educators collaborated with the Family Resource Center to provide weekly food and nutrition activities and recipes as part of their remote summer camp 2020 program and the Summer Food Service Program offerings of free healthy meals to children and teens in low-income areas. Cape Cod Healthcare consulted with Extension Educator for nutrition education resources and presentations to be offered to their patients.

What's Cooking, a four-week interactive, online series of lessons focused on basic nutrition, simple cooking techniques, and Q&A was led by 25 disabled individuals and staff within the Cape Abilities community. Dietetic interns assisted in producing cooking demo videos to use as part of this program as well as making them available for use by the Community Health Center of Cape Cod as part of their outreach efforts for patients when in-person programming was not possible.

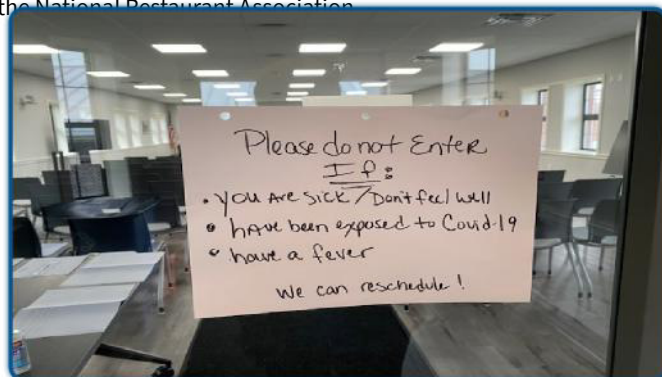
As part of the Brown Bag Nutrition Distribution Program in Yarmouth and Mashpee, educational materials and reinforcement items were provided remotely due to COVID restrictions. Conference calls hosted by Yarmouth Senior Center allowed for an avenue to provide nutrition education and simple recipes for seniors who had no internet or computer capability.

In collaboration with UMass Food Science and URI Cooperative Extension, staff assisted in teaching the Successful Value-Added Product Development course twice in an interactive virtual format to 28 current and future food producers.

As an instructor for the F.D.A.'s Preventive Controls for Human Foods course, staff worked with UMass and URI collaborators to offer this course virtually to 22 food producers.

As a collaborator with CISA (Community Involved in Sustaining Agriculture) under their FMPP (Farmers' Market Promotion Program) grant, an online workshop was offered to introduce the relevant food safety programs and practices to 8 farmers and food producers.

Two in-person ServSafe food safety certification courses have reached 13 individuals in the foodservice industry and in regulatory roles, fulfilling the Food Code requirements set forth by the Massachusetts Department of Public Health. In response to the pandemic, Extension staff assisted by routing industry members to the proper links for online remote-proctored exams offered through the National Restaurant Association.



Socially distanced ServSafe course

One safe food handler course was offered in person to an expanding restaurant in Falmouth to 24 employees. Training covers basic safe food handling techniques.

Nutrition educator collaborated with Cape Cod Municipal Health Group to offer municipal employees a hybrid virtual/in-person workshops highlighting eating for the holidays and a session on healthy eating.

Food for Thought, a monthly electronic child nutrition newsletter has been distributed to parents and elementary school staff. Currently, there are 904 subscribers to this newsletter.

Nutrition educators acted as preceptors in community nutrition rotations; providing guidance, practical experience, and training to five Dietetic Interns in collaboration with Delicious Living Nutrition Dietetic Internship. The experiences contribute to the 1200 hours of post-graduate supervised practice required of the Commission of Dietetic Registration of all Dietetic Interns before taking board exams.

Nutrition educator currently participates in MA Partnership for Food Safety Education and MA Food System Collaborative meetings, co-chairs the Cape Cod Hunger Network to support the work of the local food pantries, sits on the YMCA's Chronic Disease Prevention Committee, and the BC Health and Human Services Advisory Council to represent the Cape Cod Hunger Network.

As part of the Buy Fresh Buy Local (BFBL) program, nutrition educators and the food access coordinator participated in various projects (refer to BFBL annual report below) and events highlighting local food and food access.

Food Access Coordination

The position of Food Access Coordinator was created by Barnstable County to obtain a more comprehensive understanding of food security needs on Cape Cod. As the County saw a rise in Covid cases, the need for food resources also increased. Within the first few months of the pandemic, the County saw a new sector emerge of people needing food. Due to the sudden spike in unemployment and those leaving the workforce to assist children with remote learning, food insecurity increased by 53%. Community members and organizations began looking to the County for guidance.

The goal of the Food Access Coordinator position is to ensure all people living on Cape Cod have access to food that is healthy, nutritious, and culturally appropriate. Through a collaborative effort with regional and local entities, CCCE is working to link local food producers and distributors with state and federal funding opportunities to maximize efficient distribution.

The position began in October with a brief community assessment to understand where the food resources were and identify the needs in each community. Four barriers to food access emerge, cultural and language barriers, lack of awareness of resources, stigma, and transportation. As a result of these findings, Cape Cod Cooperative Extension decided to address the transportation barrier. Through a partnership with the Cape Cod RTA, CCCE was able to provide food from local pantries to those in need across the Cape. Over 900 deliveries took place between January through June 2021.



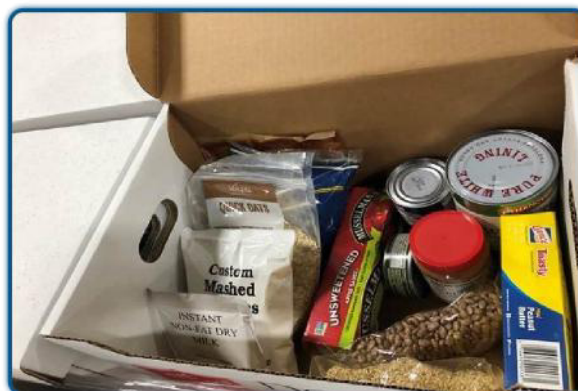
Christ the King food deliveries were made possible by Cape Cod RTA.

A partnership with the Partners in Health, Care Resource Coordinators, helped to identify food insecure people in isolation and quarantine due to Covid-19. Over 40 households were provided food during their I&Q period through this new food delivery initiative. CCCE also worked closely with the Massachusetts Emergency Management Service to secure non-perishable food boxes for distribution to the community.

In addition to the food delivery program, CCCE supported the 7th Day Adventist Church (primarily a Haitian and Jamaican congregation) in West Yarmouth creating the first Caribbean food pantry on the Cape.

CCCE received state funding to be allocated for food access. Upon hearing of many Cape Cod residents lacking fresh fruits and vegetables, CCCE partnered with Cape Abilities Farm to purchase fresh produce and deliver it to organizations throughout the Cape to distribute to their communities. During the month of June, CCCE was able to purchase 440 bags of produce and delivered them to nine organizations across the Cape with a focus on the Council on Aging, Veterans Center, Health Centers, Homeless, and Preschool/school-age voucher program. Recipe cards were provided in each bag along with food resource information.

In June, CCCE hosted a series of listening sessions with community partners to identify challenges and barriers within the Cape's food distribution system. As a result, CCCE was able to identify key areas of interest for the County to pursue. In the upcoming 2022 fiscal year, a professional facilitated community food access event is planned in September to continue to develop the next steps with community partners' guidance and support.



Massachusetts Emergency Management Agency food box ready for distribution.

Buy Fresh Buy Local

The mission of Buy Fresh Buy Local Cape Cod is to connect people and businesses on the Cape with locally grown farm and sea products. In 2021 BFBLLC was awarded approximately \$136k in grant funding from the Massachusetts Department of Agricultural Resources to launch projects that benefit Cape Cod's food suppliers and consumers while addressing the increasing needs of Cape Cod's diverse population experiencing food insecurity during the Covid-19 pandemic. BFBLLC collaborated with its network of community partners, farmers, and culturally diverse organizations to expand consumer and producer interaction in the local food system.



Hands of Hope food pantry ready for distribution.

Part-Time Project Coordinator

The goal of the part-time program coordinator was to provide assistance and resources for the continued growth and sustainability of BFBLLC, a program that has increased its membership by 400% since its inception in 2008. With the pandemic causing food shortages at grocery stores and interrupting food access across the county, the Project Coordinator assisted in creating and improving the communications between members, food and social service agencies, and the public. With changes happening weekly, the Project Coordinator assisted the Barnstable County Food Access Coordinator in gathering and updating local food access information and food pantry content for distribution to public service agencies. The Coordinator also collected content for monthly newsletters to both members and the public. Considering the duress of the food situation for the public, most notable the vulnerable populations on Cape Cod, this position provided the support needed to maintain direct and personal communications with BFBLLC members and consumers. To date, the materials created with the help and support of the Coordinator have been accessed and downloaded by over 1,000 users. In addition to the essential support of this grant's projects, the Coordinator provided assistance for projects awarded in the second MDAR grant in the spring of 2021, allowing BFBLLC's members to reach consumers via a mobile app as well as assist staff in addressing the increasing needs of Cape Cod's diverse population experiencing food insecurity during the COVID-19 pandemic.

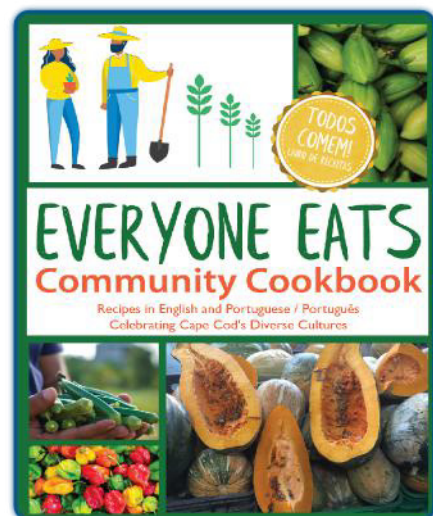
Local Food Guide, Branded Point-of-Sale Items, Radio and Web Advertising

Over 10,000 member guides, bumper stickers, and magnets have been distributed through area farmers' markets, food-related community events, and health and fitness businesses. To reach over 7000 followers on social media we continue to expand on a comprehensive digital marketing campaign that integrates daily posts, video, and graphics materials. BFBLLC utilized locally owned and operated Cape Cod Broadcasting Media's (CCB) blended companionship of radio, website, and mobile ad formats with the goal of reaching the various demographics of the region's residents, second homeowners, and visitors. Seven weeks of a combination of radio and web ads promoted local land and sea farmers, agricultural products, HIP/ SNAP, and farmers' markets.

Design and Distribution of Cookbook Series

Cooking at home became a new normal as consumers are preparing the majority of their meals in the midst of Covid-19. With the goal of connecting the consumer to local farms from the home, the Local Farm & Food Cookbook drew from seasonal recipes provided by local land and sea farmers in addition to the information provided by Extension Nutrition staff on kitchen food safety and storage, an important education component as many are cooking the majority of meals at home for the first time. With the kitchen becoming the gathering place for families, the cookbook provides consumers a hands-on opportunity to participate in the local food system, and the cookbook promotes the BFBLLC brand within one of the most popular rooms in the house.

Everyone Eats: The Ethnic Garden Community Cookbook introduces the general public to a variety of new, fresh vegetables and ingredients that are staples in the kitchens of our Portuguese, Haitian and Jamaican neighbors on the Cape. As a result of communication and outreach efforts, representatives from the Cape's ethnic communities have shared traditional, family recipes anyone can create at home. The 32-page cookbook and educational home gardening fact sheets have been translated into Brazilian Portuguese and Haitian Creole to be printed using funding secured from another community partner, Cape Cod Five.



Production and Distribution of Videos

Love.Live.Local produced a digital video with the goal of allowing BFBLC members to participate in the group's ongoing virtual shopping series, including exposure and reach to Love.Live.Local's 21,000 social media followers, 3,000 newsletter contacts, and a B2B online network group of 1400 local businesses. Although Covid-19 has had a positive impact on farm stands and markets, this partnership offers an alternative shopping experience for the demographic concerned with in-person shopping and provides a 24/7 opportunity to connect with local products. To date, the video shared collectively on BFBLC and Love.Live.Local's social media platforms have reached over 1200 viewers.

To expand on a comprehensive marketing campaign with the goal of integrating local food video content targeted to school-age children, we produced 3 short cooking videos, highlighting easy-to-assemble snacks utilizing the local produce commonly found at farm stands and farmers' markets (sweet potatoes, winter squash, and summer squash/ zucchini). Videos were distributed to schools and community agencies as well as through BFBLC's social media platforms. This video series is an addition to our library of successful digital recipe videos featuring local food ingredients. Since the release of the first videos, Kids in the Kitchen has received over 300 views from school students.



Kids in the Kitchen Video Series

Collaborate with Local Growers to Promote Ethnic Food Systems

The goal of this project was to increase food production and local access to ethnic crops for Cape Cod's immigrant population by expanding the variety of locally grown produce unique to Brazilian, Haitian, and Jamaican diets and cultures. The goal included increasing access commercially by working with local farmers to encourage the growing of ethnic crops and by working with community partners to provide education and resources to grow ethnic crops. Working with Dr. Frank Mangan and BFBLC / Extension staff, several crops were identified including okra, purslane, callaloo, Jilo and chayote that are unique to the Brazilian, Haitian, and Jamaican cultures. Okra, purslane, callaloo and Jilo seeds were obtained. Transplants were produced and maintained by Cooperative Extension and Master Gardener Association of Cape Cod (MGACC) volunteers. Transplants were produced for four community partners, demonstration garden located at the Cape Cod Fairgrounds and two participating farmers.



Okra and jilo grown as part of the ethnic crops project at Chatham Bars Inn Farm.



Brazilian Purslane Salad preparation in ethnic crops video.

Shellfish and Shucked Oyster Initiatives

Shellfish Show: The 2021 Aquaculture Show benefited both the shellfish growers, the chefs, and buyers as it fostered dialogue and partnerships that, in the long run, will lead to a seafood marketplace that is environmentally, socially, and economically sustainable. When chefs and buyers choose seafood from local farms, the chefs benefit from relationships with those trusted growers to provide a quality product, the grower benefits from a guaranteed market, and the consumer benefits from eating a premium, sustainable local product.



The Shellfish Show

Shellfish Farmers' Markets: Grant funds were used to support two new shellfish farmers' markets in the Cape Cod Cod Region to make more direct connections between shellfish harvesters and end consumers. The Wellfleet Shellfishermen's Farmers Market was able to continue their farmers' market efforts with sales/advertising over the web and also adapt locations to meet changes required for regulatory compliance. A fledgling Barnstable Shellfishermen's Farmers Market was also supported allowing them to develop the web platform that made the Wellfleet market successful and also develop the necessary operational plans with the town and state. These forms of "close to direct sales" have always been limiting for shellfish harvesters and these programs represent a big expansion in potential opportunity.

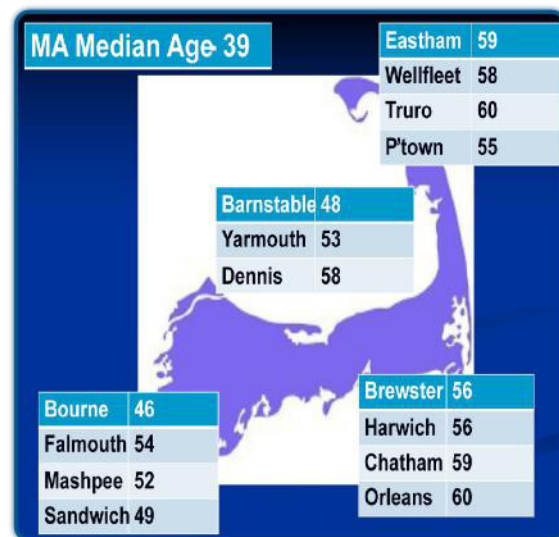
Retail Assessment of Shucked Oysters: BFBLC, through the Cape Cod Cooperative Extension, partnered with Dr. Nora Barnes at the University of Massachusetts Dartmouth Center for Marketing Research to continue work on assessing market feasibility of a Massachusetts sourced, frozen shucked oyster product. The goal was to design and initiate a retail evaluation to learn if Massachusetts customers would be interested in purchasing local frozen shucked oysters, and what price they would be willing to pay. In collaboration, with the three participating retail establishments, and the Massachusetts Aquaculture Association, Dr. Barnes developed the 16 questions survey instrument that people would fill out electronically after trying the product(s) at home. She designed a flyer with the link to the survey and a QR code, a poster advertising the opportunity to customers, and a sign-up sheet. She also set up the database to accept the responses. Deliveries of 100 half-pints each of frozen shucked oyster pints were delivered to Mullaney's Fish in Scituate, Macs Seafood in Eastham, and Fishermen's View in Sandwich. Staff was trained to instruct interested customers to leave their name and email on the contact sheet when they took a free ½ pint of frozen shucked oysters, and to take home the flyer that contained the survey link, project information, and recipes.

TICKS AND ENTOMOLOGY PROGRAM

Barnstable County has the fourth-highest incidence rate of tick-borne diseases in the state. One of the major contributing factors to risk is the demographic picture of the Cape. See chart below. Median age means that 50% of people are older and 50% younger. 95% of cases of babesiosis and anaplasmosis are found in people 60 years and older. Older people represent about 50% of cases of Lyme – children under the age of 10 represent a majority of the remaining cases.

The tick outreach program has a branded theme, "One Bite Can Change Your Life". Outreach efforts have been conducted remotely primarily via Zoom. Seventy workshops/events were conducted at libraries, senior centers, community centers, and for groups such as AmeriCorps, the Master Gardener Program, Middle Schools, and Garden Clubs. The tick extension program was also covered extensively via newspaper articles and radio interviews.

Workshops were also conducted for backyard horticulture, pollination ecology, insect evolution, entomophagy – edible insects and forensic entomology – using insects to solve crimes.



The Extension Tick and Entomology program remains a publicly accessible resource for insect identification and control recommendations. Tick identification, tick bite prevention, and tick testing remain at the forefront of public contact.

WATER QUALITY AND HAZARDOUS MATERIALS PROGRAMS

Household Hazardous Waste (HHW) Collection Program

The HHW program was operational throughout the COVID-19 pandemic. Over 5,000 residents participated, and approximately 400,000 pounds of hazardous waste were collected in 2020. The program primarily protects the aquifer. However, acknowledging that firefighters and other first responders encounter the 25 pounds or more of hazardous waste that households accumulate yearly (US EPA) and are more vulnerable to chemical hazards, the program works to protect that demographic. Further, Cape Cod's solid waste has a higher contamination rate than the other Commonwealth; the program works to clean the solid waste and recycle waste streams. Additionally, chemicals in households and businesses complicate emergencies and crises; the program works to reduce the overall chemical inventory on Cape Cod in advance of hurricanes, fires, and other disasters. Lastly, Cape Cod's economy rests on a clean environment and water source. The program protects the overall environment.

A pilot program to collect HHW from residents who are transportation-challenged was initiated in 2021. This includes people who don't have a license, do not/cannot drive, do not have access to a vehicle, or have challenges with large groups of people due to PTSD, etc.

A grant from the MA DEP to support the construction of a year-round permanent facility to collect HHW was awarded in 2021. Cape Cod businesses and residents require year-round disposal of their unwanted chemicals. Moving, death and other life events necessitate the convenient removal of unwanted chemicals. The nearest collection facility is outside of Boston, prohibitively distant for many Cape residents and businesses.

The bid to collect HHW for all fifteen towns and one water district was opened and awarded to ACV Environmental for a one-year contract and a possible one-year extension.



SMALL BUSINESS HAZARDOUS WASTE COLLECTION PROGRAM

The Very Small Quantity Generator (VSQG) aka small businesses on Cape Cod that use chemicals in their processes number over 4,300. The program supports small businesses in disposing of their chemicals conveniently and economically using the county bid process. A pilot program to collect waste from VSQGs at their place of business was initiated in 2021.

The educator completed a Transitioning to Safer Alternatives course from OSHA; a program is offered to VSQGs looking to decrease their toxic chemical inventory for less harmful alternatives. In collaboration with County Health, a job description for a regional small business waste inspector was crafted. Funding is being explored. The position would support VSQGs in reducing their chemical inventory and increasing Cape Cod's resiliency in disaster scenarios.

Sharps Collection Program

In collaboration with fourteen towns (Town of Sandwich operates their own initiative), Barnstable County offers free and convenient disposal of sharps per 105 CMR 480; All towns shall offer free sharps containers and disposal to their residents. Over 19,000 pounds of sharps were collected in 2020, and 3,696 containers were distributed to towns.

Flares Collection Program

In cooperation with fifteen towns, Barnstable County offers free disposal of marine and road flares. Road flares contain perchlorates, a regulated chemical in drinking water. Over 2100 flares were collected in 2020.

Unwanted Medication Program

In cooperation with fourteen town police departments (excluding the Town of Sandwich), Barnstable County offers information on free residential disposal of unwanted medications. Medications have been found in Cape Cod wells, surface waters, and other water sources. Drugs and other chemical contaminants have been found in marine life as well. Other options for disposal include the DEA takebacks offered 2x yearly – check the county Facebook and your local police department, and Cape Cod and Falmouth Hospitals offer disposal kiosks as well. Additionally, mail-back envelopes can be found at major pharmacies for convenient disposal.

Mercury Collection Program

In cooperation with all fifteen towns on Cape Cod, Barnstable County offers free disposal of mercury at HHW collections, at town transfer stations, and through free home pickup of elemental (liquid) mercury. 48.68 pounds of mercury was collected in 2020.

WET Festival

The WET Festival program is part of the national aquifer educational initiative serving school children grades 3-6. AmeriCorps Cape Cod provides program coordination and implementation with the supervision of the Extension educator. The program provides comprehensive education aligned with STEM and Commonwealth curricula requirements on drinking water and wastewater.

Water Fair

The Water Fair celebrates Cape Cod's vast and myriad network of water stewards who work to protect our largely unconfined, sole-source aquifer. While the COVID-19 global pandemic excluded in-person celebrations, a virtual fair was held online. The county hopes to offer an in-person celebration when the pandemic has receded.

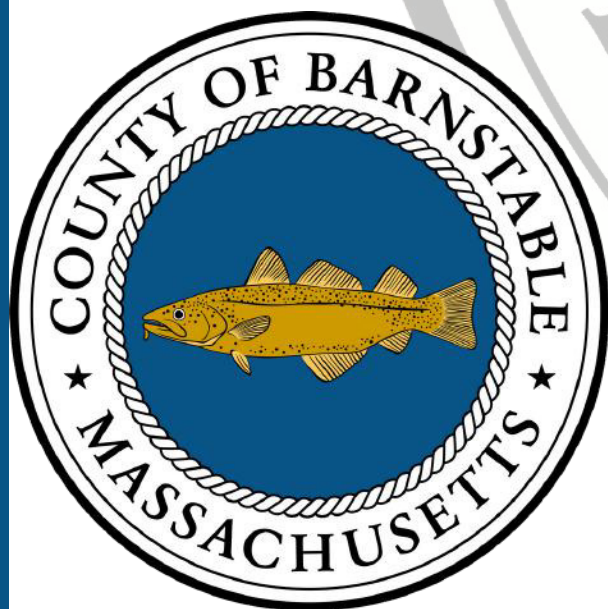
Groundwater Guardians

The Groundwater Guardians support education and exploration of Cape Cod's aquifer with the mission to protect it from contamination. Infographics and other educational offerings are available on the website. In 2021 a podcast, 'One drop leads to another,' was created to optimize general education.



FY'21

Report of the CAPE COD MUNICIPAL TRAINING ACADEMY



CAPE COD CENTER FOR PUBLIC SAFETY TRAINING

Superior Court House
P.O. Box 427
Barnstable, MA 02630

REPORT OF THE CAPE COD CENTER FOR PUBLIC SAFETY TRAINING

For the Period July 1, 2020 and ending June 30, 2021

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Barnstable County's Center for Public Safety Training programs continued to evolve in Fiscal Year 2021. The Public Safety Training department has two divisions – police training and fire training.

In Fiscal Year 2021, the Cape Cod Municipal Police Academy (CCMPTA) offered its third Officer Recruit class and trained 43 recruits. The Police Academy operates as a division of the Department of Public Safety Training. Director Peter Carnes and Deputy Director Wayne Sampson are responsible for the operation of the CCMPTA.

In Fiscal Year 2021, Public Safety took two major steps forward in implementing mobile training to fire departments across the Cape. 159 fire personnel, representing six departments, received training.

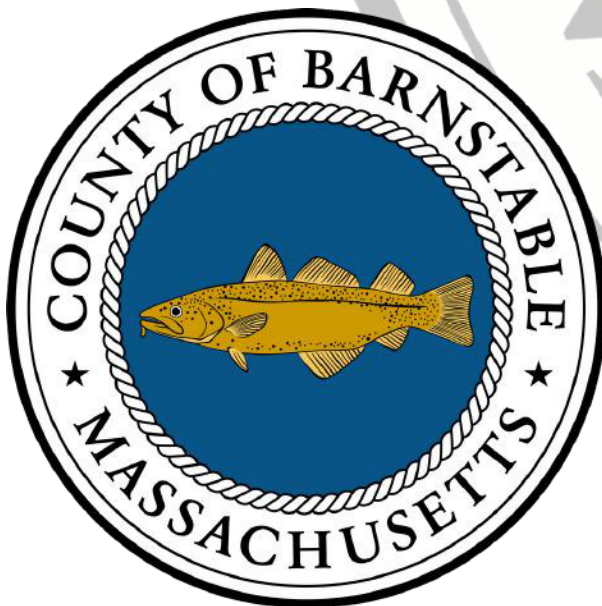


FY'21

CHILDREN'S COVE

Report of the

CHILDREN'S COVE: THE CAPE & ISLANDS CHILD ADVOCACY CENTER



CHILDREN'S COVE: THE CAPE & ISLANDS CHILD ADVOCACY CENTER

P.O. Box 427
Barnstable, MA 02630
508-375-0410 | Fax: 508-375-0409
www.childrencove.org

REPORT OF CHILDREN'S COVE

For the Period July 1, 2020 and ending June 30, 2021



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**Jacob Stapledon, Community Engagement and Outreach
Coordinator**

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Children's Cove is a unique collaborative effort between partner agencies including Barnstable County, The Cape and Islands District Attorney's Office, Department of Children and Families, Department of Mental Health, and Cape Cod Health Care. We are one of twelve Child Advocacy Centers (CAC) in Massachusetts and over 900 nationally. We offer a safe, welcoming place for children to go if there is a concern that they have been sexually abused, severely

physically abused, been witness to domestic violence, sexually exploited, or victims of human trafficking. We bring together all the professionals in the field who have made it their life's work to help. We treat each child with respect, care, and compassion and make it possible for the trauma to stop and the healing to begin.

Children's Cove has proven over the last twenty-four years that taking a regional approach to helping vulnerable, abused children brings the best out in every agency involved in the recovery of the victim and the prosecution of the offender. As pioneers of a groundbreaking collaborative regional approach, Children's Cove has gained statewide and national attention as a model organization with programs that have been replicated on a broader scale.

Children's Cove is a fully operational and accredited Child Advocacy Center with the National Children's Alliance in Washington DC whose components include the Sexual Abuse Intervention Network (SAIN) Team, (the investigatory piece of the program); the medical exam, with a Sexual Assault Nurse Examiner (SANE) which utilizes a state of the art technology to utilize evidentiary images in court proceedings; case tracking and team review; family advocacy; specialized therapeutic referrals; case coordination, and education and training.

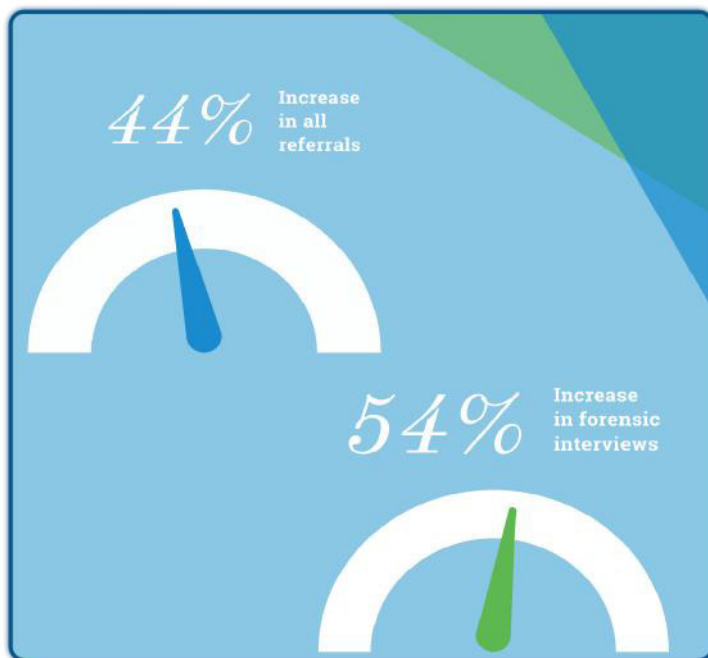




Children's Cove serves the same jurisdictional zones as The Cape and Islands District Attorney's Office, as well as the Department of Children and Families. This includes the fifteen towns of Cape Cod, the six towns on Martha's Vineyard, and Nantucket. Children's Cove works collaboratively with each police department in these areas and the Massachusetts State Police. Children's Cove provides forensic interviews and support services if the abuse is thought to have occurred within the jurisdictional area of Cape Cod and the Islands of Martha's Vineyard and Nantucket. The alleged victim may be from the age of two years old to the age of seventeen years old or older depending on cognitive and developmental ability.

2021 Report

During the twelve-month period of July 1, 2020 – to June 30, 2021, 155 individuals were referred for services, and 111 of the 155 were provided with forensic interviews at Children's Cove. This is a 44% increase in referrals with a 54% increase in forensic interviews as compared to FY2020. While these numbers are impacted by lower referrals at the onset of the COVID-19 pandemic, the FY 2021 numbers also represent an increase over FY 2019 with a 26% increase in referrals and a 3% increase in forensic interviews.



Victim Services

The forensic interview is the best-practice approach to interviews with children who have been victims of crime. It is also only a portion of the services Children's Cove provide. Our team works to ensure that child victims have access to high-quality, free and supportive services to support the healing process.

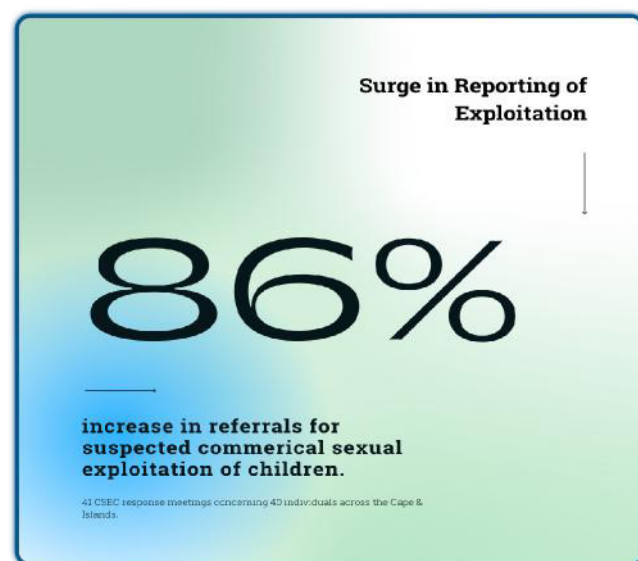
We work collaboratively with the Department of Public Health and have a Nurse Practitioner/Pedi SANE and medical suite on-site to provide comprehensive, compassionate care to child victims and their families. All children referred to the Children's Cove are offered timely, non-invasive, medical examinations with the consent of their parents at no cost. These exams are provided by the Nurse Practitioner/PediSANE on-site in the medical suite. Medical examinations, consultations, and treatment recommendations were provided for 88 individuals during the reporting period which is a 19% increase from FY20. Our PediSANE also provided education and



coordination with local pediatricians as a part of ongoing efforts to provide best-practice services for children in our community.

In addition to these services, Children's Cove provides ongoing follow-up and advocacy for the children and families served and assists in the connection to meaningful activities and support. Our Family Advocate works with the family to identify needs and community resources and helps the family navigate any systems as part of the investigation in a non-stigmatizing and confidential way. Our Family Advocate also works in conjunction with The Cape and Islands District Attorney's Office Victim Witness Assistants to provide additional support for court cases.

Since 2015 Children's Cove implemented an initiative to educate the community, law enforcement, and human service agencies about the Commercial Sexual Exploitation of Children (CSEC.) Since 2016 Children's Cove has coordinated the multidisciplinary response to suspected cases of CSEC across the Cape and the Islands. During the reporting period, our CSEC Case Manager held 41 multi-disciplinary response meetings involving 40 children regarding risks and concerns about their being exploited. These referrals represented a concerning 86% increase from FY 2020. Part of these referrals did stem from increased concern and reports of exploitation online, however not the totality.



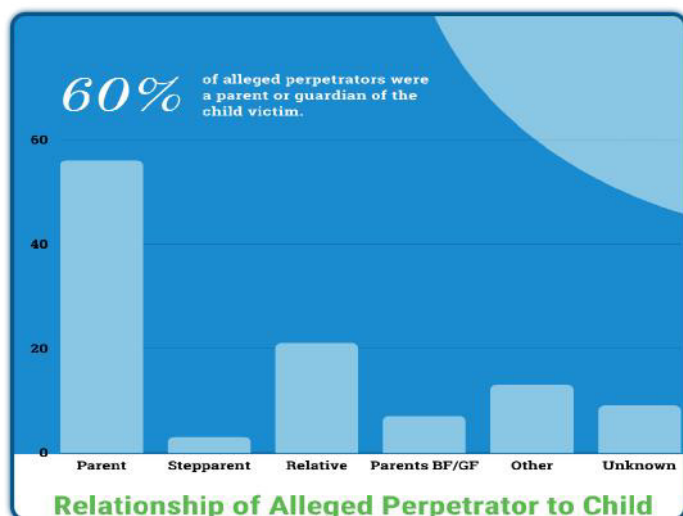
Mental Health

Children's Cove Mental Health Program utilizes a Mental Health Coordinator on staff to refer children and families to appropriate, trauma-informed providers throughout the Cape and Islands to provide these much-needed services. The Trauma-Informed Provider Network (TIP Network) is comprised of Cape and Islands therapists who have agreements with Children's Cove to provide specialized clinical services. Children's Cove, in turn, provides ongoing training, learning collaborative workshops, and referrals to these selected providers. During the reporting period, our Mental Health Coordinator made 100 clinical referrals for service to children and non-offending family members in the community.



In addition to the direct clinical referrals for service, our Mental Health Coordinator also engages directly with mental health and human services providers on a local and statewide level to increase the capacity of local resources. By working with local and statewide organizations our Mental Health Program has continued to be able to provide ongoing consultation and clinical training to local providers in the areas of trauma-focused cognitive behavioral therapy, working with children exhibiting problematic sexual behavior (PSB), and other modalities to support children and non-offending family members.

Community Engagement and Education



Children's Cove strives to help educate the community on issues surrounding child abuse including members of the community, childcare providers, school teachers and administrators, law enforcement, prosecutors, emergency medical providers, first responders, and child protection professionals. Children's Cove utilizes a variety of awareness campaigns, including radio ads, news articles, social media, and public service announcements as part of its outreach to the community regarding child sexual abuse.

Children's Cove has continued to use a state-wide education curriculum developed in partnership with the Massachusetts Children's Alliance, statewide Child Advocacy Centers, the Department of Children and Families, and contributors from prosecutors, medical professionals, and mental health professionals. This curriculum was developed to provide an evidence-based, best-practice approach to recognizing and responding to child abuse. Utilizing this curriculum, Children's Cove Education and Training program provided training to more than 600 individuals and 15 different organizations.

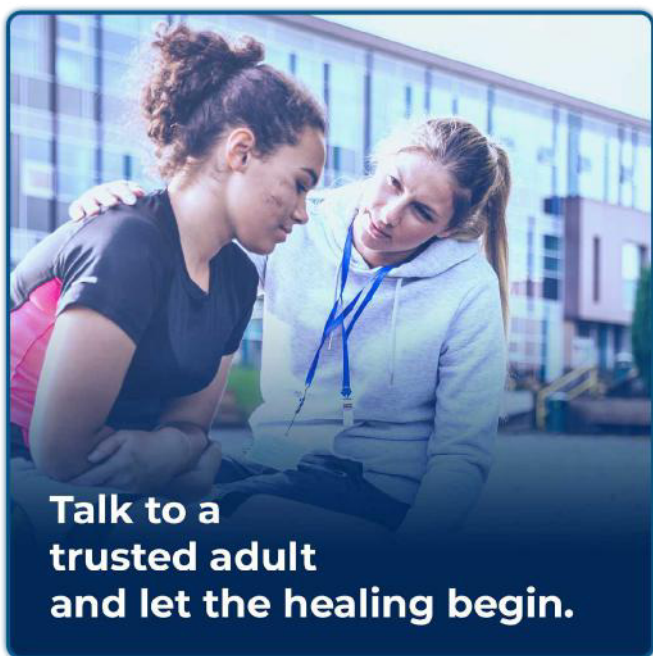
With the continued challenge of remote work and school, as well as limitations to engaging in direct outreach there was a concerted effort to increase the online accessible content to provide education, awareness, and resources to parents and teens. This came in the form of three digital advertising campaigns: one for general awareness and body safety, another for support of disclosure targeted to teens, and another to raise awareness and increase prevention of the online sexual exploitation of children. Children's Cove also launched an online chat function to provide support and resources to visitors to our website and reformatted its newsletter and increased its frequency from quarterly to monthly.



The first campaign, the "Take the Time" campaign promoted awareness of our general services, support, and prevention by directing visitors to the Children's Cove website and giving information related to talking about body safety.

The second, the "Not Alone" campaign was directed towards high school age youth to raise awareness of our services by directing visitors to the Children's Cove website and giving information support as well as encouraging disclosures of sexual abuse to an adult who they can trust.

The third was targeted information around sexting, sextortion, and the increasing issues of commercial sexual exploitation and online sexual exploitation through advertisements including short messaging and directing visitors to the Children's Cove website through our IU2U "It's Up to You" campaign. This included interactive, sharable, and downloadable content to raise awareness of the issue, provide safety tips and information, and promote family discussion of online safety by taking "The Pledge". This campaign also brought together an online, live-stream event with community and professional partners to engage with the community and discuss online safety and exploitation in an engaging and positive way through a Virtual "Block Party."



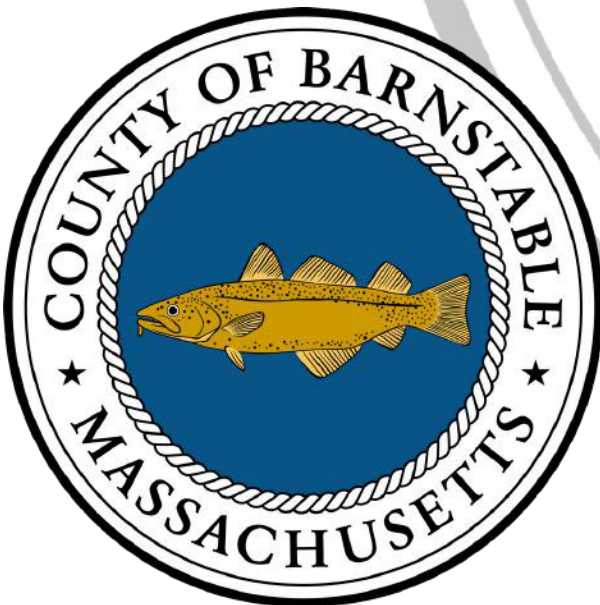
Each of these campaigns carried additional online ads across websites and social media, with the majority of runtime taking place in March and April, with April representing Child Abuse Prevention Month. There were approximately 407,000 impressions (views) of ads across all platforms and nearly 6,600 views of the videos through advertisement. There were more than 55,000 visits to the Children's Cove website during the time period as well.



FY'21

Report of the **BARNSTABLE COUNTY DREDGE**

BARNSTABLE COUNTY DREDGE





BARNSTABLE COUNTY DREDGE PROGRAM

Superior Court House
P.O. Box 427
Barnstable, MA 02630

REPORT OF BARNSTABLE COUNTY DREDGE *For the Period July 1, 2020 and ending June 30, 2021*



County Dredge Sand Shifter – Parker's River, Yarmouth

ADMINISTRATION

Ken Cirillo, Dredge Department Administrator
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STAFF

Jason Bevis, Superintendent

Richard Randall, Maintenance Engineer

Tanner Dailey, Site Foreman

Christopher Armstrong, Leverman

Cory Fleming, Leverman

Andrew Dipietro, Deckhand

Chris Wiinikainen, Deckhand

Background

In 1993 Barnstable County conducted a needs assessment and cost-benefit analysis of operating a municipal dredge program on behalf of the towns. This report documented that a County operated maintenance-dredging program would be both beneficial to the towns and cost-effective to operate. The County and its legislative delegation approached the Massachusetts Department of Environmental Management (DEM) and requested financial assistance in the form of a \$1 million capital grant for the purchase of a dredge and ancillary equipment.

Prior to this grant, the state was responsible for funding 75% of the cost of municipal dredge projects and the town was responsible for the remaining 25%. However, funding constraints at the state level meant that much of the dredge work was not completed on a timely basis or was never accomplished. As stipulated in the Grant Agreement, the provision of a capital grant replaces the state funding for municipal dredge projects here on the Cape.

Introduction

The mission of the Barnstable County Dredge program is to improve the recreational, environmental, and economic value of our changing coastline and estuaries while achieving cost savings for municipalities on Cape Cod.

Barnstable County Dredge Program 2020 -2021 Dredge Season Completed Projects & Volumes

Town	Location	Volume Dredged Cubic Yards
Barnstable	Dead Neck/Sampsons Is. (Cotuit Cut) Phase 3	43,955
Bourne	Little Bay	15,127
Chatham	Stage Harbor	29,865
	Aunt Lydia's Cove	16,723
Dennis	Sesuit Harbor	4,624
Falmouth	Falmouth Inner Harbor	1,177
	Great Pond	211
	Green Pond	1,160
	Bourne's Pond	3,605
Harwich	Allen Harbor	8,126
	Saquatucket Harbor	9,273
Mashpee	Popponesset Approach Channel	9,999
Provincetown	East of MacMillan Pier/Docks	967
Truro	Pamet Harbor	1,572
Yarmouth	Parker River Approach Channel	4,560
	Mill Creek Channel (Lewis Bay)	205
16 Projects		151,149

The County Dredge Program is critical for our region because it helps maintain the changing coastal landscape while protecting its environmental and economic vitality in addition to offering each town significant cost savings.

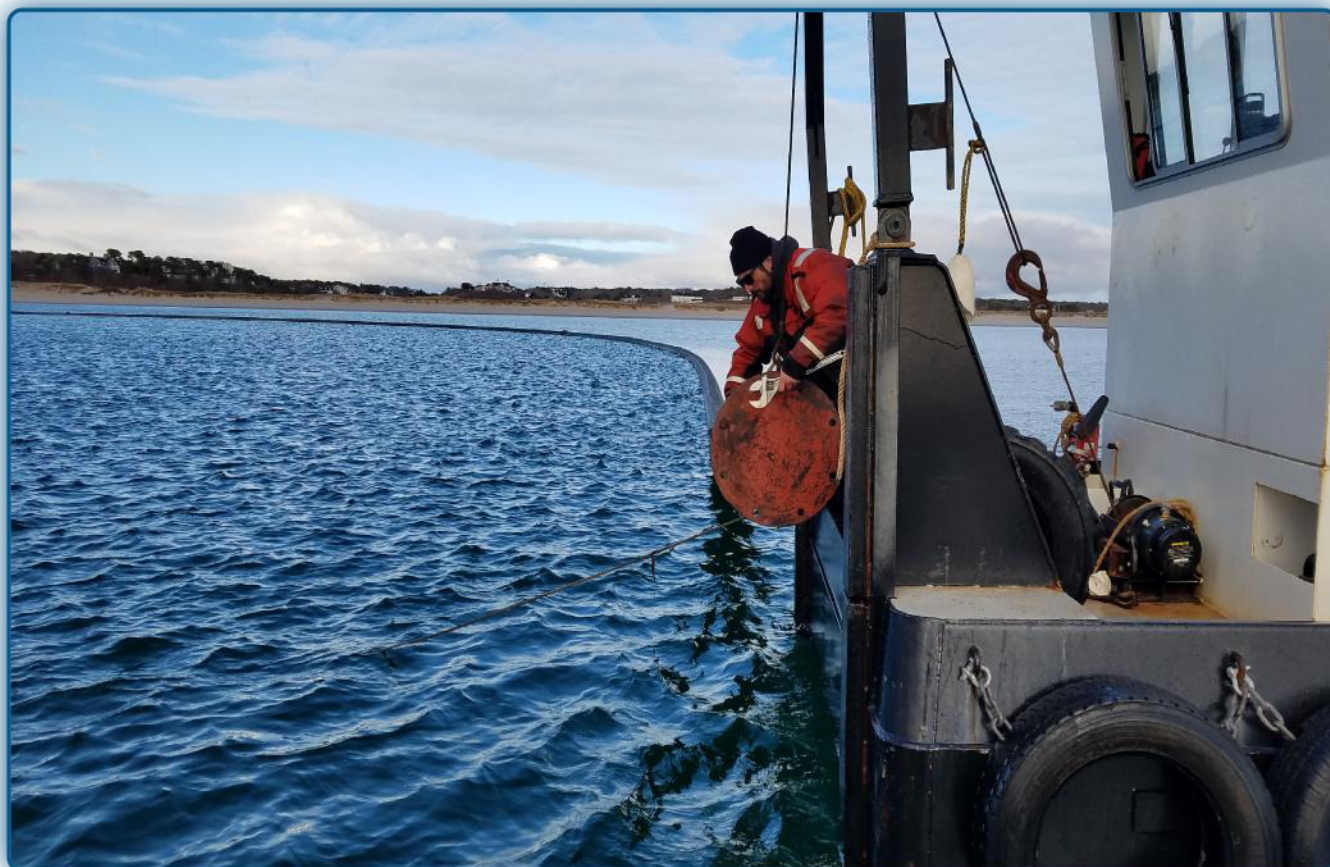
Demand for dredging on Cape Cod has increased in recent years due to climate change implications and the availability of additional state grant funding for projects.

The dredging "season" typically runs from October to mid-June and is subject to time of year restrictions, ranging from protecting winter flounder and horseshoe crabs to piping plovers as well as summer tourism.

Completed Dredge Projects:

A Record Year!

The following projects were completed this season totaling 151,149 Cubic Yards of dredge material to nourish beaches as well as maintain each town's navigable channels.



Leverman Cory Fleming working on dredge pipe in Chatham

The County dredge fleet is comprised of:

The **Cod Fish I** was originally purchased in 1997 and has done most of the dredge work on Cape Cod. A second dredge, the **Sand Shifter** was added in 2017, and a third dredge the **Cod Fish II** was purchased in 2019, both from Ellicott Dredges. As the **Cod Fish I** is at or near its end of operational use without a major shipyard period, it was decided to repurpose the Cod Fish I to be used as a Booster Station which proved to be incredibly valuable for three large projects completed this season (Barnstable, Bourne & Mashpee). In addition, the program also has two push boats, the Stephen S. Bradbury and the JW Doane, a barge, and several work skiffs in use to support the dredging operations.



In addition to the reduced rates for dredging services, the County conducts Pre & Post Dredge Surveys at a cost of approximately \$8,000 per project. This additional service is an invaluable record in the event of a damaging hurricane or other weather events for submission to the Federal Emergency Management Agency (FEMA) as documentation of storm damages and funding reimbursements.

In total, over the past 25 years, the County dredges have removed approximately 2.3 million cubic yards of material from 300 projects. 95% of that material went to rebuilding the beaches around Cape Cod.

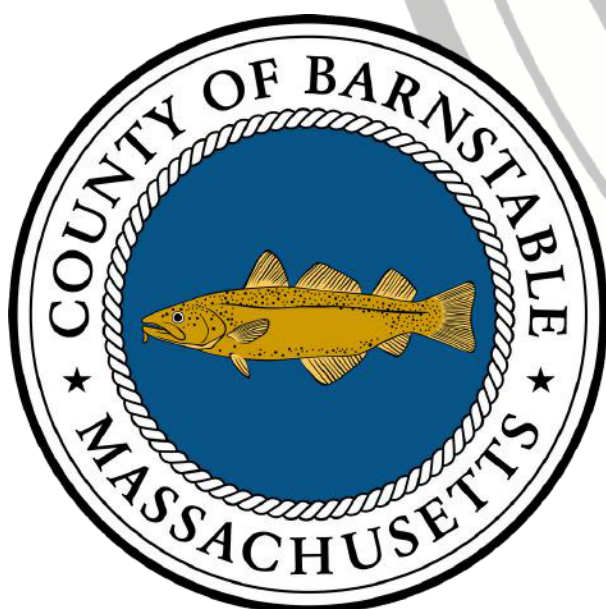
The program on average provides dredge services at a rate of 70% below private-sector costs with savings estimated at \$6m.

The Fiscal Status:

The operating revenue for FY2021 was \$1,669,558.00 As of June 30, 2021, the dredge enterprise account has a reserve fund balance of \$680,012.00. The purpose of the reserve fund balance is to establish a fund to replace the dredge and other dredge-related purchases.

Report of the FACILITIES DEPARTMENT

FACILITIES DEPARTMENT





DEPARTMENT OF FACILITIES

3195 Main Street/Route 6A

P.O. Box 427

Barnstable, MA 02630

508-375-6603 | Fax: 508-362-8758

REPORT OF DEPARTMENT OF FACILITIES

For the Period July 1, 2020 and ending June 30, 2021

ADMINISTRATION

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MAINTENANCE SUPERVISION STAFF

Thomas Butler, Working Supervisor

Deborah Reynolds, Custodial Supervisor

MAINTENANCE STAFF

Adam Alati, Maintenance/Repair

Patrick Arnold, Maintenance/Repair

Keith Bernier, Equipment Specialist

Dave Eaton, On-Call Pesticide Contractor

Eric Eklund, Mail Clerk/Custodian

William Gravelle, Mail Clerk/Custodian

Parker Kelley, Maintenance/Repair

Michael White, Maintenance/Repair

CUSTODIAL STAFF

Richard Burgess

Jose Couto

Klauss Cunha

Aurelio Lima

Marcos Nunes

Jairo Oliveira

Richard Pacheco

Joseph Remmers

ABOUT

The Facilities Department is responsible for all physical plant operations, general maintenance, and capital planning within the Barnstable County Complex, Second District Courthouse in Orleans, Children's Cove, White House Administration Building, Extension Farmhouse, and certain county residences, and the former House of Correction.

The physical plant consists of the following fourteen elements:

- Superior Courthouse, County Complex
- Deeds and Probate Court, County Complex
- First District Courthouse, County Complex
- County Complex Grounds, Barnstable
- Second District Courthouse, Orleans
- Children's Cove, Barnstable
- Extension Farmhouse, Barnstable
- White House Administration Bldg., County Complex
- Cape Cod Commission, cleaning only
- Recycle Building, Barnstable
- Former House of Correction, County Complex
- Health Lab/Water Testing, County Complex
- Innovation Building, County Complex
- RDO/AmeriCorps Residences

The Facilities Department budget provides funding for the following:

- HVAC, plumbing, and electrical systems
- Utilities
- Grounds and parking lot maintenance
- General maintenance and custodial services
- ADA administration and compliance
- Safety and security programs
- Mail collection and distribution
- County Recycling Program



Roof installation at the Department of Health and Environment



New Registry of Deeds lobby.



New carpet installation at the Superior Courthouse (before photo)



New carpet installation at the Superior Courthouse (after photo)



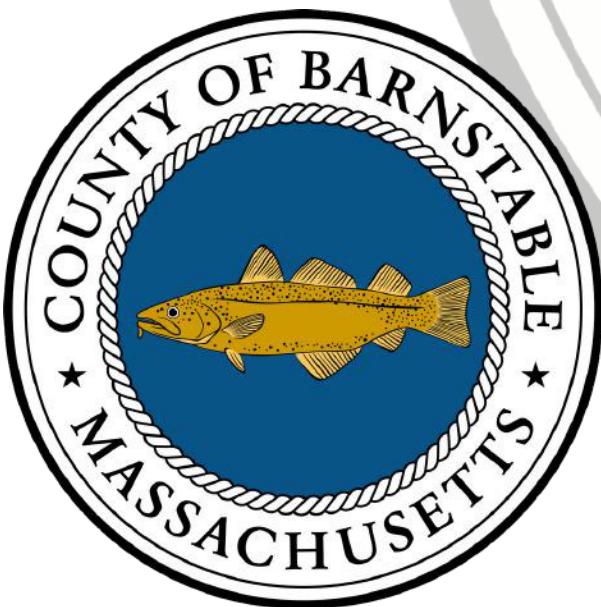
Second District Courthouse	
Grounds Maintenance	\$3,582.00
Snow Plowing	\$3,250.00
Key Card System Update	\$4,265.000
Superior Courthouse	
Door Reader Program	\$3,858.19
Installation Hot Water Heater	\$2,400.00
Installation New Entrance Door	\$3,815.00
Carpet Replacement	\$18,012.46
Beneficial Tree Pruning Services	\$15,640.00
Registry of Deeds/Probate Court	
New Land Court & Main Lobby Flooring	\$21,257.00
New Land Court Screen Shades	\$7,505.00
First District Courthouse	
Roof Replacement (3rd Level) (final Billing)	\$8,270.00
New Flooring	\$19,430.00
County Complex	
Grounds Maintenance	\$23,049.00
Exterior Building Lighting Upgrade	\$6,509.05
Replace/Upgrade Parking Lot Lights	\$4,531.80
Covid Safety Implementation	\$30,000.00
Workplace Charger Grant Program (\$52,507.72)	\$14,000.00 (cost to County)
Former House of Correction	
Roof Replacement	\$144,115.00
Innovation Building	
Install new hot water heater	\$2,100.00
Children's Cove	
Upgrade Parking Lot Lighting	\$2,545.79
TOTAL	\$338,135.29



FY'21

DEPARTMENT OF HEALTH & ENVIRONMENT

Report of the DEPARTMENT OF HEALTH & ENVIRONMENT





FY'21

DEPARTMENT OF HEALTH & ENVIRONMENT

3195 Main Street

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Laboratory Fax: 508-362-7103

www.barnstablecountyhealth.org

REPORT OF DEPARTMENT OF HEALTH & ENVIRONMENT

For the Period July 1, 2021 and ending June 30, 2021

ADMINISTRATION DIVISION

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Bethany Traverse, B.A., R.S., Health Communications Coordinator

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Long, Christopher, B.S., Chemist/Analyst II

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Lacey Prior, B.S., Chemist/Analyst I

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FY'21

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Maurice Melchiono, RN, MS, FNP-BC | Public Health Nurse

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General Info Line: 508-375-6624

Patricia Lindauer, Health Educator / Inspector

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COMMUNITY SEPTIC MANAGEMENT LOAN PROGRAM DIVISION**M. Angela Do Carmo, A.A., Administrative Assistant**

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FISCAL YEAR 2021 IN REVIEW

The mission of the Barnstable County Department of Health and Environment (BCDHE) is to promote a healthy Cape Cod community through disease prevention and control, health, and safety education, environmental protection, and emergency preparedness. FY21 continued to demonstrate the value of this mission, as BCDHE persisted in its efforts to respond to the unprecedented COVID-19 global pandemic. As of June 30, 2021, 13,948 Barnstable County citizens were confirmed to have tested positive for COVID-19, with 470 cumulative deaths. Department staff continues to be heavily invested in the COVID-19 response while continuing to provide routine services to the County.

In the late fall of 2020, the Department led coordination efforts to make free COVID-19 testing more accessible to the Upper, Middle, and Lower Cape regions. Weekly PCR testing clinics were conducted on the Outer Cape in collaboration with Outer Cape Health Services

while Upper Cape clinics were held at the Barnstable County Fairgrounds. All clinics provided online registration via www.barnstablecountyhealth.org, as well as walk-in availability.

In late December, Pfizer, Moderna, and Janssen Johnson & Johnson COVID-19 vaccines were approved by the Food and Drug Administration (FDA) via Emergency Use Authorization (EUA). Due to limited vaccine supply at the outset of distribution, the Massachusetts Department of Public Health (MADPH) required regional vaccine clinics and the Department was able to respond immediately. Regional vaccine drive-through clinics were stood up thanks to coordinated efforts between several Department divisions and other County departments. The clinics were held in convenient locations across the region to increase access to community members.

Several challenges strained vaccine rollout, including low vaccine supply and high demand, technological issues related to online registration, and meeting the needs of a large elderly population. A vaccine consortium was established to assist with regional coordination to respond to these and other regional issues. This consortium included BCDHE staff, Cape Cod Healthcare (CCH), local community health centers, members of the Cape Cod Legislative Delegation, and other community stakeholders. By June 30, 2021, over 38,218 vaccines had been distributed regionally.

Communication between coordinating groups and with the community at large proved essential to the COVID-19 response effort. Bethany Traverse was added to the County Communications Team as a representative for BCDHE and was instrumental in managing web, social media, and press communications for the Department and County. Ms. Traverse maintained up-to-date COVID-19 resources on the Department website, especially with regard to vaccine distribution and clinic registration. In addition to assisting with the Cape Cod COVID-19 Response Task Force (CCCRF) and the Cape Cod COVID-19 Vaccine Consortium, Ms. Traverse was instrumental in the establishment and coordination of the Barnstable County COVID-19 Helpline, which enlisted 20+ Medical Reserve Corps volunteers to serve the community and answer questions related to COVID-19. From the Helpline's inception in January of 2021 until the end of FY21, participating MRC volunteers took over 60,000 phone calls spanning over 3,000 hours of call time.

Throughout the pandemic, the Department continued to support local boards of health through coordination and facilitation of weekly meetings of the Cape and Islands Health Agent's Coalition. Department staff aided with contact tracing for COVID-19 case outbreaks, coordinated targeted testing and vaccine clinics, and the continued provision of regular services. Two public health nursing staff members were also added to directly address concerns associated with long-term care facilities and schools.

ADMINISTRATION

The Administration Division oversees the Department's budget and programs and provides an avenue through which citizens and towns can directly access services and information relative to public health and the environment. In FY21, the Administrative Division prepared several grants to support the following: bathing beach monitoring, the Massachusetts Alternative Septic System Test Center (MASSTC), assistance with hoarding, public health screening for at-risk populations, and public health emergency preparedness efforts, and

and the Cape Cod Medical Reserve Corps, which serves the towns when public health emergencies arise.

As a part of the COVID-19 pandemic response, BCDHE implemented strict and detailed protocols for departmental staff to continue to provide service and support to Barnstable County's residents. Working remotely, staggered schedules for office time, use of personal protective equipment and social distancing have become the norm for employees as they continue to provide services to the region.

ENVIRONMENTAL HEALTH

INSPECTIONAL SERVICES

Barnstable County Department of Health and Environment field staff members maintain the readiness and certifications necessary to assume health agent responsibilities in any town whose needs require assistance for routine services, technical assistance, or special projects. The Department's close and regular communication with local Boards of Health and their agents make such events seamless to the public.

In addition to general support services, department inspectors conducted over 1,000 restaurant/retail food establishment and swimming pool inspections across Barnstable County during the summer season, including complaint follow-up and repeat inspections when necessary. In FY21, the inspectors trained in person and shouldered the added responsibility of mastering new regulations and guidelines related to COVID-19.

With the addition of COVID-19 challenges and several uncertainties this year, environmental staff moderated regular conference calls with the town health agents to facilitate the sharing of information as well as discussions and planning for the pandemic response. This included the development of informational material, translation services, and regional guidance. Additionally, environmental staff was deployed to assist with regional COVID-19 testing and vaccination efforts by providing planning and operational assistance to our Public Health Nursing and Medical Reserve Corps staff.



Vaccine distribution in Eastham

MASSACHUSETTS ALTERNATIVE SEPTIC TEST CENTER

In operation since 1999, the Massachusetts Alternative Septic System Test Center (MASSTC) has been on the cutting edge of researching and testing technologies that remove contaminants from wastewater discharged through onsite septic systems. As the nation's premier test-bed for academic institutions and private industry alike, the Test Center diverts untreated wastewater from Joint Base Cape Cod where it is used to simulate residential wastewater influent. This allows

for the active investigation and development of products that focus on nitrogen reduction to protect sensitive marine resources.



A sign warns users of the potential for harmful algae blooms.

Collaborative projects with partners at Stony Brook University in New York, the University of Rhode Island, the Florida Department of Health, and the Massachusetts Department of Environmental Protection (MassDEP) give promise for deploying low-impact sustainable modifications to standard soil treatment areas (a.k.a. leach fields or leaching beds). These projects are working to address the many problems associated with nutrients, pathogens, and contaminants of emerging concern originating from onsite septic systems.



A sign warns users of the potential for harmful algae blooms.

The Clean Water Act Section 319 grant funds (which were previously awarded to MASSTC in FY2019 to study the efficacy of phosphorus removal by alternative septic systems) were expanded in FY2020 to include a study of virus and bacteria removal at varying soils depths. The grant in part provided subsidies for several homeowners to install and test experimental phosphorus-removal septic systems at their homes. The grant also provided the funding for a new laboratory and ongoing laboratory costs, the construction of unique test cells for collection and analysis of treated effluent, and the new hire of a microbiologist to study the amount of virus and bacteria removal through various depths of sand.

Additionally, MASSTC was awarded \$1.24M from the United States Environmental Protection Agency (US EPA) Science to Achieve Results (STAR) program.



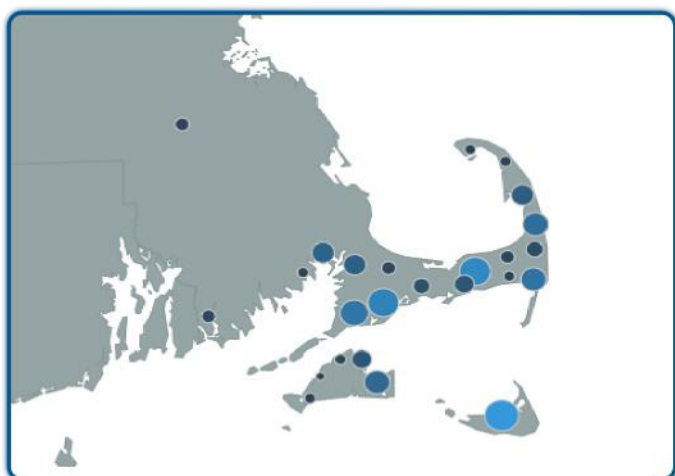
A new laboratory was built at MASSTC in FY21 for the analysis of viral and bacterial presence.

These funds allowed MASSTC to not only continue the work started with the 319 grant funds mentioned above but to assist the EPA in determining the efficacy of using onsite and decentralized wastewater treatment systems for water reuse purposes.

INNOVATIVE /ALTERNATIVE SEPTIC SYSTEM EDUCATION AND TRACKING

Concurrent with ongoing research and development efforts underway at the Massachusetts Alternative Septic System Test Center (MASSTC) and in conjunction with the region-wide EPA Section 208 Plan implementation, the Department assists towns with monitoring their I/A septic systems at no cost. An internet database was developed to collect inspection reports and effluent monitoring results, and it also allows regulators the ability to track compliance for 3,600 I/A systems across the Cape, Islands, and Southeastern Massachusetts. The Program's exceptionally large monitoring dataset currently houses over 37,000 sample reports and allows for a detailed analysis of applicable septic systems. An online charting system makes the data more easily accessible for boards of health and the public at <https://septic.barnstablecountyhealth.org>.

In addition to systems monitored for the individual towns, the Department also finalized a contract in FY21 with the Massachusetts Department of Environmental Protection (DEP) to track all pilot and provisionally approved systems in the Commonwealth. This agreement will allow DEP to evaluate newer I/A technologies more efficiently.



The number of systems continues to grow and expand across the Commonwealth of Massachusetts.

LANDFILL MONITORING

Eleven Cape Cod towns currently depend on Department staff for post-closure or operational monitoring of their landfills based on consistently stringent requirements for continued surveillance of the groundwater in these areas. Annually, more than 600 water wells and surface water sites are sampled as part of this program. The Department also assists five towns in the specialized quarterly monitoring of soil gases required as part of the landfill closure process.



Senior Environmental Specialist Lynn Mulkeen performs soil gas sampling at the Falmouth Landfill site.

BATHING BEACH WATER QUALITY MONITORING

The Bathing Beach Monitoring Program serves towns in Barnstable County through the collection and analysis of weekly water samples at the town beaches. Semi-public beaches are also served through a paid subscribership. The Program notifies town health agents to post the beaches closed to swimming when bacteria levels exceed the allowable limits on two consecutive days. Immediate resampling is conducted to ensure that the beaches may be re-opened as soon as the results are favorable. More than 350 beaches across Cape Cod are sampled every week in the summer months.

In FY21, the task of overseeing this extensive program was executed by Environmental Project Assistant Carol Eastman. This season, with the help of a team of seasonal field/laboratory analysts, over 4,500 samples were collected and processed in compliance with Massachusetts Bathing Beach Regulations. Testing results are published daily on the Department website as well as the Massachusetts Department of Public Health statewide beaches website.

Additionally, FY21 marked the beginning of the Program's involvement in an effort to better understand and mitigate harmful cyanobacterial blooms in the region's ponds. Field analysts worked to support weekly monitoring efforts organized by the Association to Preserve Cape Cod (APCC) through the collection of approximately 180 samples from 30 ponds.

For more information regarding the Bathing Beach Monitoring Program, please visit

<http://www.barnstablecountyhealth.org/bathing-beach-water-quality>.



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The 2021 Beach Program Team (L to R): Program Coordinator Carol Eastman and Field/Lab Analysts Ashley Walters, Kyle White, Jennifer McMullin, Maia Adley, and Abby Collyer.

RABIES AWARENESS AND THE CAPE COD ORAL RABIES VACCINATION PROGRAM

The Barnstable County Department of Health and Environment, in conjunction with the Cape Cod and Southeast Massachusetts Rabies Task Force (CCSMRTF), continues to coordinate with local health directors, animal control officers, and natural resource officers to contain terrestrial rabies on Cape Cod with a goal of pushing it farther west and north. The task force, co-chaired by the Department's Deputy Director Erika A. Woods and Karl Von Hone of the Yarmouth Division of Natural Resources, continues to meet regularly to implement policies and procedures within the towns and facilitate the education of residents and visitors County-wide.

In addition to education and policy, the CCSMRTF works with USDA Wildlife Services, supported by the Massachusetts Department of Public Health, to coordinate the semi-annual distribution of the Oral Rabies Vaccine (ORV). In May of 2021, the first positive case of terrestrial rabies was discovered in the town of Barnstable, and the CCSMRTF immediately coordinated with USDA wildlife services to develop a targeted plan, trap, vaccinate, and release program. Oral rabies vaccine distribution was conducted across the region by task force members. Although DNA testing suggests that the animal was not infected in Barnstable County, an abundance of caution dictates that the task force adjust its planning to account for the worst-case scenario.

For more information about the CCSMRTF, please visit:
<http://www.barnstablecountyhealth.org/programs-and-services/rabies-awareness>

THE CAPE COD HOARDING TASK FORCE

Hoarding disorder (HD) is estimated to affect two to six percent of the population. Characterized by the inability to discard possessions resulting in an accumulation of items that compromises the intended use of living areas, HD creates distress in daily functioning and poses risks to the health and environment of individuals in and around the home, as well as first responders. The illness is often associated with the early stages of dementia and Alzheimer's Disease and not only impacts individuals, families, and neighbors; it poses risks of enhanced fire danger, degraded indoor air quality, compromised structural integrity, and increased strain on town resources.

Chaired by Senior Environmental Specialist/Deputy Director, Erika A. Woods and overseen by a seven-member executive committee,

the mission of the CCHTF is to provide education, collaboration, and support for those affected by hoarding through accessible tools, referrals, and resources. With an estimated 8,500 Cape residents affected by HD, the Task Force continues to use grant funding to provide professional training, community outreach, and support for the many self-help groups across Barnstable County. The Task Force regularly fields calls and emails from individuals struggling with hoarding, concerned family members, service providers, housing agencies, and municipalities from each town on Cape Cod.

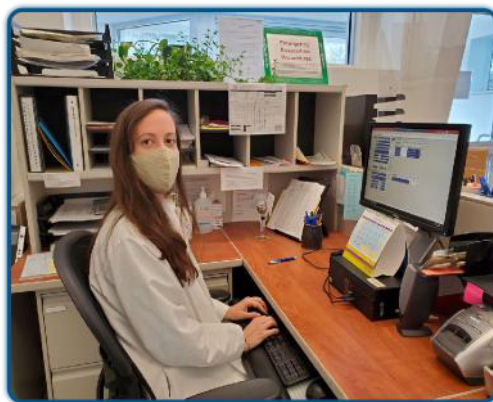
WATER QUALITY LABORATORY

The Barnstable County Water Quality Laboratory is certified by the Massachusetts Department of Environmental Protection (MassDEP) and provides analytical services to Barnstable County's private residents and municipalities alike. One primary directive of the Laboratory is to provide high-quality analyses of various contaminants in drinking water. Accordingly, the Laboratory assists water departments on Cape Cod in meeting the monitoring requirements necessary for adherence to state and federal water quality standards. Water departments benefit from the flexibility of the Laboratory to assist when periodic problems arise, such as the seasonal and transient occurrences of bacterial contamination in the water systems.

The Laboratory also provides analytical services to owners of private drinking water wells. Sample pick-up is provided in the towns of Wellfleet, Truro, Eastham, Brewster, Falmouth, and Mashpee. In FY21, the Barnstable County Laboratory received over 16,000 samples and performed over 87,000 analyses.

In addition to drinking water, the Laboratory conducted analyses of a wide variety of environmental samples during FY21, including bathing beach samples (over 5,100 samples processed), shellfish harvesting area samples, pond and lake samples, wastewater samples from the Massachusetts Alternative Septic System Test Center (MASSTC), and swimming pool and spa samples. The Laboratory also analyzed samples associated with a state-run initiative to monitor lead in school drinking water.

During the Covid-19 pandemic, the Laboratory continued to provide analytical services despite numerous challenges. Through social distancing, personal protective equipment, good hygiene, and telecommuting, the Laboratory has consistently met the needs of clients while creating a safe work environment for staff. The Laboratory is currently fully operational and open to the public.



Laboratory Assistant Laura Notarangelo logs samples in to the laboratory's computer database.



Chemist Steve Lee performing Total Suspended Solids analysis on wastewater samples from the Massachusetts Alternative Septic System Test Center.

COMMUNITY SEPTIC MANAGEMENT LOAN PROGRAM

The Community Septic Management Loan Program (CSMLP), aimed at upgrading failed residential septic systems, was made possible by the enactment of the Open Space Bond Bill of 1996. This law appropriated \$30 million to the Massachusetts Department of Environmental Protection (MassDEP) to assist qualified homeowners with defraying the cost of Title 5 regulatory compliance. In turn, MassDEP used the appropriation to fund loans through the Massachusetts Clean Water Trust (MCWT).

For over a decade, the Barnstable County Department of Health and Environment has administered the CSMLP on behalf of all 15 Cape Cod towns. As a way of streamlining the program, Barnstable County secured special legislation in 2006 allowing CSMLP to borrow money directly from the MCWT. To date, CSMLP has provided over \$52.5 million in loans for over 4,550 septic system repairs. The interest rate charged to homeowners remains at 5% as does the 20-year repayment term. Septic system repair projects including sewer hook-ups completed for FY21 totaled 225. This translates to \$3.6 million in project costs. Program funds from the state remain available into the foreseeable future, allowing CSMLP to continue providing an effective and efficient means of assisting area residents with often cost-prohibitive yet essential septic system requirements.

It is important to note that the CSMLP is self-supporting through interest earned from loan program enrollment, thus saving taxpayers all operation costs and staff salaries for Angela Do Carmo and Cinthia Madden. Additional savings include all associated legal expenses and recording fees at the Registry of Deeds. For more information about the CSMLP, please visit our website: www.barnstablecountysepticloan.org.

PUBLIC HEALTH NURSING DIVISION

The Department's Public Health Nursing (PHN) Division has operated under the direction of Deirdre Arvidson, MSN, APRN, SANE since 2010. Ms. Arvidson brings twenty-nine years of nursing experience to the Department in a wide variety of health and community-related services. In addition to a staff of 24 contract nurses who assist in providing quality care to the region, the

Division has accepted nursing interns from Cape Cod Community College, UMass Boston, Wisconsin State University, UMass Dartmouth, Worcester State University, and other schools where students' needs for internship placements can be matched to regional public health program needs. To date, we have sponsored 46 students, including one doctoral candidate and several master's level students.

Programs and services of the Public Health Nursing Division include the Tick-borne Disease Prevention Program, Public Immunization Program, Sun Safety, and Skin Cancer Awareness and Prevention Program, the Municipal Health Group Biometric Screening Program, the Ask a Public Health Nurse Program, public safety personnel services, OSHA standard bloodborne pathogen/communicable disease training for public and private sector workers, subsidized housing preventative health screenings, disease surveillance and blood pressure clinics. Division outreach efforts also include conducting health fairs and speaking at a wide range of venues.

The Division's Public Immunization Program continues to provide a cost-effective, convenient option to anyone seeking vaccination, including those without insurance. The Program offers all travel vaccines and is listed on the Centers for Disease Control and Prevention's travel clinic website. As a Mass Health and Medicare provider that also collaborates with the UMass Medical School for Health Care Financing, the Program can bill most major insurance carriers when applicable. Further, the program provides free immunizations through the Federal Vaccine for Children Program.

During the COVID-19 pandemic, the Division continued to provide adult-recommended vaccinations and immunizations for students. Due to capacity issues at many local pediatric practices, the Division has stepped up to provide childhood immunizations for families that might not otherwise be able to access them.

The PHN Division provided several vital services during the pandemic, including Covid-19 case management for all Provincetown residents. During Provincetown's COVID-19 case cluster in the summer of 2021, the Division collaborated closely with MADPH to manage approximately 300 isolation cases within the town. A case study of the outbreak was published in the August issue of Centers for Disease Control's publication Morbidity and Mortality Weekly Report. Following the Provincetown cluster, the PHN Division was awarded a 2-year \$500,000 state grant to organize a shared services program for Covid-19 case investigation and contact tracing in all 15 towns.

The PHN division was also tasked with the distribution of the Covid-19 vaccine starting in January of 2021. There was a total of 120 clinics in the first 23 weeks of the year, averaging five clinics and 1,658 vaccines administered per week. Large drive-thru clinics were held in four locations, providing administration of 12,244 immunizations. In the spring of 2021, the clinics were moved indoors to the Cape Cod Community College gymnasium, allowing for the successful vaccination of 21,930 individuals. In addition, four large indoor clinics held at the Orleans Council on Aging, Yarmouth Public Safety, the County Complex, and the Cape Cod mall provided vaccinations for 2,042 people. School clinics yielded 1,914 immunizations.



Public Health Nursing staff perform registration at a COVID-19 Vaccine clinic at Cape Cod Community College.

In FY21 the Division's Ask a Public Health Nurse Program continued to operate out of local food pantries across Barnstable County and provide needed access to a health professional for screenings and related wellness resources. Services included blood pressure screenings, glucose testing, health counseling, distribution of relevant educational materials regarding illness prevention, and other valuable community health resources. Flu shots are also offered to all food pantry staff and clients. Specific sites that benefit this program include A Baby Center, Sandwich Food Pantry, the WIC office in Hyannis, St. David's Paper Pantry, and the Yarmouth Food Pantry. The Division also offers regularly scheduled blood pressure clinics at the Chatham Community Center and the Eastham Public Library.

The Ask a Public Health Nurse Program has also collaborated in FY21 with the Hunger Network and Lower Cape Outreach to provide an onsite chronic disease monitoring program called Foods to Encourage (FTE) in several locations. By participating in FTE, clients with hypertension, diabetes, and pre-diabetes have access to weekly blood pressure and glucose testing, as well as health counseling, nutrition education, and a bag of produce. The FTE program is offered at the Friends of Bourne Pantry, Harwich Family Pantry, Falmouth Service Center, Orleans Methodist Church pantry, and the Brewster Council on Aging.

Even though the pandemic curtailed many on-site public health education opportunities in FY21, the Division offered tick and Lyme education to 195 students and staff of Barnstable County schools via remote learning. In-person events at Nauset Highschool, Harwich Elementary School, local farmer's markets, and councils on aging served another 298 individuals. Lyme disease is endemic in this region, making education about tick-borne illness prevention vitally important.

In collaboration with the Municipal Health Group, the Division offers vital biometric screenings to all municipal employees through the Municipal Health Group Biometric Screening Program. Biometric screenings include weight and waist measurements, body mass index, blood pressure, pulse, glucose, cholesterol, bone density, skin analysis, and hearing and vision screening. All screenings include health counseling and up-to-date informative literature. The County Cooperative Extension nutritionist provides education and samples of healthy eating, while a Good Health Gateway representative utilizes screening data to provide a "heart age" for participants.

While these screenings were temporarily halted due to the COVID-19 pandemic, they will resume once it is safe to do so.

CAPE COD MEDICAL RESERVE CORPS

The mission of the Cape Cod Medical Reserve Corps (CCMRC) is to engage volunteers to strengthen public health and emergency response and to build community resiliency. Director Diana Gaumond, Volunteer Coordinator Marypat Kane-Oropallo, and Administrative Assistant Kathleen Galligan led our talented and dedicated volunteers in supporting our community through a very challenging year.

Volunteers come to the CCMRC with a wealth of experience and provide compassionate expertise in clinical and non-clinical roles. Typically, volunteers are trained in CPR, emergency preparedness, and the Incident Command System (ICS). They participate in regular drills and training and ably respond to both emergency and non-emergency situations. FY21 was anything but normal and a cadre of new skills was required to meet the needs of the COVID-19 pandemic response.

The CCMRC played a vital role in the effort to immunize Barnstable County's population against COVID-19 once the vaccine became available in January of 2021. At the vaccine clinics, volunteers did everything from directing traffic to performing registration, screening, injections, and post-vaccination observation.

The CCMRC also worked independently with several community groups in FY21 to provide immunization clinics to their members and clients. With multiple clinics taking place weekly in the first half of the year, and up to 26 volunteers staffing each clinic, the number of volunteer hours was staggering. Volunteers worked at drive-through clinics in difficult conditions, dealing with cold, strong winds, mud, and rain in order to get people vaccinated.



MRC volunteers prepare to staff an Eastham COVID-19 vaccine clinic in freezing temperatures.

Beginning in January of 2021, during a challenging COVID-19 vaccine rollout, the CCMRC provided staffing for Barnstable County's much-needed COVID-19 Helpline. Volunteers took part in extensive training to learn remote call center technology and provide up-to-date COVID-19 informational resources to thousands of callers between January and May of 2021. Over 20 CCMRC volunteers contributed to the Helpline, with four or more volunteers working several hours per day to answer phone calls and respond to voicemails. The volunteers shared their extensive healthcare expertise, patience, and compassion to address the community's questions and concerns surrounding COVID-19, contributing over 3,000 volunteer hours in total to the effort.

Testing has been an essential part of tracking and controlling the pandemic. The CCMRC staffed a twice-weekly drive-through PCR testing clinic at the Barnstable County Fairgrounds in Falmouth. Volunteers also helped staff the Whole Health Pharmacy COVID-19 testing site.

Food insecurity was another major area of concern during the pandemic. The CCMRC volunteers provided much-needed help with food distribution, assisting Duffy Health Center to deliver free breakfasts to the homeless population. Volunteers also partnered with the Cape Cod Regional Transit Association (RTA), riding buses to deliver supplies from food pantries to people's homes, or using their own vehicles for deliveries. The Essential Delivery program utilized volunteers to bring pre-paid groceries to the homebound. Volunteers also continued to work at food banks and delivered Meals on Wheels.

Towards the end of FY21, the CCMRC was able to resume some of its normal activities. Training for CPR and Choke Saver took place in multiple locations. Volunteers provided tick and Lyme education to the staff at recreational camps Cape-wide, as well as Stop the Bleed training to AmeriCorps volunteers. The CCMRC hopes to see a further resumption of these types of activities over the coming year, as it continues to provide support to COVID-19 relief endeavors.



MRC volunteers provide Stop the Bleed training to AmeriCorps Cape Cod volunteers.

CAPE COD REGIONAL TOBACCO CONTROL PROGRAM

Cardiovascular disease and lung cancer are the leading causes of death in both men and women in the United States, yet both are preventable simply by avoiding tobacco use. Further, the current

use of vaping products has reached epidemic levels, warranting a strong effort to educate the public about the inherent dangers of these devices. These realities brought about the Cape Cod Regional Tobacco Control Program (CCRTCP).

Under the direction of Robert Collett, the CCRTCP is supported through a state grant administered by the Department on behalf of all Cape Cod towns (apart from Dennis), Martha's Vineyard, and Nantucket, Plymouth, and Wareham. The Program's education efforts include an annual visit to each tobacco merchant in all 23 communities within the service area and assisting local boards of health with the promulgation and implementation of tobacco control regulations. In FY21 a total of 390 tobacco sales compliance checks (utilized to assure compliance with youth access laws) were conducted within the service area. Violators were re-checked for compliance. The program also investigated 5 complaints of violations of the MA Indoor Workplace Smoking Law, sharing findings with respective local Boards of Health.

The CCRTCP works with other local public health/prevention entities collaboratively to implement comprehensive substance abuse prevention strategies and offers public education addressing the use of tobacco and other nicotine delivery products, including e-cigarettes, otherwise known as vaping devices.

The CCRTCP consistently serves as a model within the Commonwealth of Massachusetts and with our federal partners. For more information regarding the Massachusetts Tobacco Control Program, please visit www.makesmokinghistory.org.

EMERGENCY PREPAREDNESS DIVISION

Regional Emergency Planning Committee

Planning and implementing a regional response to disasters and emergencies on Cape Cod and Nantucket happens cohesively through the cooperative efforts of the Barnstable County Regional Emergency Planning Committee (BCREPC).

The initial impetus for the Committee arose when local municipalities realized the advantage of having a regional coordinated approach to municipal compliance with the Superfund Amendments and Reauthorization Act, also known as SARA Title III. As the program demonstrated success and relationships were developed with emergency response stakeholders, the role of the Committee expanded to "all-hazards" emergency coordination in order to address homeland security, meteorological events, public health matters, and regional sheltering issues that affect the region.

All fifteen communities on Cape Cod and, in addition, Nantucket, are represented on the BCREPC. The Committee meets regularly to hone their skills and strategize to address all types of emergencies. Chief Philip Simonian of the Yarmouth Fire Department and Chief Heath Eldredge of the Brewster Police Department serves as the BCREPC's co-chairs. Their efforts are supported by Barnstable County Emergency Preparedness Coordinator Sean O'Brien, Hazardous Materials Specialist/Laboratory Safety Officer Amy L. Alati, Emergency Preparedness Specialist William (Chip) Reilly, Multi-Agency Coordination Center Manager/Incident Management Team



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Coordinator Michael Walker, as well as the many private and public sector agencies and volunteer organizations that serve on the committee.

The pandemic response was a primary focus of the Emergency Preparedness Division in FY21. The Division played a significant role in the coordination of a regional approach to COVID-19 vaccination administration, which became known as the Cape Cod Regional Vaccination Consortium. The Consortium, comprised of representatives from Cape Cod Healthcare (CCHC), Barnstable County, the Cape Cod legislative delegation, town health departments, and community health centers, worked to establish mass vaccination emergency dispensing sites to support the COVID-19 vaccination effort on Cape Cod. These sites included Cape Cod Community College (4Cs), the Melody Tent, Cape Cod Fairgrounds, the National Seashore, Orleans DPW, and the Barnstable County Complex. The Emergency Preparedness Division provided logistical coordination, site management, and resource acquisition, supporting the Cape Cod Medical Reserve Corps and the Department's Public Health Nursing Division which acted as clinical lead.

Barnstable County Multi-Agency Coordination Center (MACC)

The Multi-Agency Coordination Center (MACC) is managed by the Emergency Preparedness Division and is available on a 24-hour basis to the communities on the Cape. The storm season brought multiple significant weather events to the region including heavy rain, powerful winds, and widespread power outages. The MACC was fully activated in its new hybrid mode countless times in response to weather incidents, working closely with towns and state agencies to provide regional pre-event coordination, and situational awareness and the staff coordinated community resource requests. The MACC continues to foster strong partnerships with local public safety agencies, utility providers, and a litany of volunteer groups helping to aid the residents and visitors of the county.

In FY21, the MACC was once again activated to assist local communities with the pandemic response. The MACC fulfilled tens of thousands of resource requests, supplying first responders, health care providers, volunteer organizations, private entities providing direct COVID response, and local communities with the supplies and equipment they needed to fight the spread of COVID-19. These ongoing efforts were facilitated by a partnership with the Massachusetts Emergency Management Agency (MEMA), the Massachusetts Department of Public Health (MDPH), the Massachusetts Health and Medical Coordinating Coalitions (HMCC), Barnstable County, and by countless hours of assistance from the Massachusetts Department of Conservation and Recreation (MADCR) Forest Fire Control Division 1 staff.

The MACC also assisted the efforts of the Barnstable County Department of Health and Environment, in partnership with Cape Cod Healthcare, to manage a COVID-19 drive-thru testing site at Cape Cod Community College, as well as a field hospital at Joint Base Cape Cod and medical surge facilities in Falmouth and Brewster.

Barnstable County Regional Shelter Program

The Barnstable County Regional Shelter Program continues to be at the ready should disaster strike. Local non-profits and volunteer organizations, including groups such as the American Red Cross,

Salvation Army, Cape Cod Medical Reserve Corps, Cape Cod Disaster Animal Response Team, Community Emergency Response Teams, Amateur Radio Emergency Services, AmeriCorps Cape Cod, and the Lower Cape Animal Support Team provide invaluable support for these facilities if emergency shelter activation is required.

The Division continues to raise awareness of the regional sheltering program through community presentations, media releases, and a comprehensive training program for regional shelter managers and volunteers. In addition, the Division continues to leverage county relationships to enhance shelter participation and support.

Barnstable County All-Hazards Incident Management Team (BCAHIMT)

The Barnstable County Incident Management Team, an integral part of "all hazard" emergency planning and response on Cape Cod, was activated to provide incident support to several search and rescue operations throughout FY21. The Team is dedicated and highly trained in the Incident Command System. It also regularly provides training and facilitation of local and regional exercises throughout the community.

Tier II Hazardous Chemical Emergency Report Inventory Program

As of 2005, 57 businesses and municipalities from Barnstable and Nantucket counties used/stored hazardous or extremely hazardous chemicals in quantities that met or exceeded US EPA-enforced thresholds at their facilities. Today, roughly 450 facilities comply with SARA Title III, otherwise known as the Emergency Planning Community Right to Know Act (EPCRA). These facilities are assisted by the BCREPC in updating and filing their mandatory annual hazardous chemical inventory emergency reports by the March 1st deadline each year.

Hazardous Materials Specialist and Laboratory Safety Officer, Amy L. Alati, provides hazardous chemical emergency report filing guidance, mapping updates/coordination, and compliance training to all public and private Tier 2 facilities on Cape Cod and Nantucket. Once again, in FY21, the Tier 2 program has saved this region's municipal facilities and private businesses thousands of dollars in consultant filing fees, compliance training costs, potential penalties from the EPA, and lowered insurance costs.

Annual reporting provides critical information and facility site plans for hazardous materials pre-planning and emergency responses at the local and state level. More importantly, Tier 2 report data is critical in the protection of our first responders who work to mitigate spills or releases across Cape Cod. Since 2008, this data has also been beneficial in providing baseline information for the BCREPC's annual, mandatory hazardous materials exercise. These valuable collaborations build knowledge, relationships, and educational opportunities for each town's first responders, public works employees, public health representatives, and Tier 2 facility managers/workers. The annual hazmat tabletop exercise (TTX), which is usually focused on a Tier 2 reporting facility, empowers town officials to protect their employees' health and safety, properties, and the environment.

Additional services to the towns provided under the Tier 2 program include specific facility site assessments for chemical hazards,



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OSHA-compliant Hazard Communication training that features a town's highest chemical storage data to conduct hazard identification and emergency response education and planning, and workplace hazard assessments to improve safety conditions and lower numerous liabilities. When requested, information and guidance are also provided to towns and facilities that report under other emergency preparedness committees outside of Barnstable County. The growth and consistent progress of this important hazardous materials emergency planning program has prompted several off-Cape municipalities and state agencies to use the BCREPC's Tier 2 compliance program as a model for EPCRA compliance programs in their region.

Hazardous Materials Training

A primary function of the Emergency Preparedness Division is to conduct innovative, cost-free hazardous materials awareness and response training programs for municipal agencies, such as health, police, fire, and public works departments. These programs promote regional preparedness among the towns, empower facility workers with improved safety and response skills and enhance responder information and awareness while protecting environmental health.

Amy Alati, BCREPC's Hazardous Materials Specialist, provided OSHA Hazard Communication Standard training courses to county, municipal, and private entity employees once again in FY21. The BCREPC also provides the municipalities in Barnstable and Nantucket counties with facility assessments for emergency planning and response to chemical emergencies. Finally, the BCREPC coordinates, advises, and participates in chemical safety drills and facilitates technical workshops in both Barnstable and Nantucket Counties. These services benefit the towns by enabling significant cost savings for complying with annual hazardous material training mandates, avoiding steep consultant fees, and by reducing insurance rider fees while improving overall municipal compliance with EPA and OSHA regulations.

Residential Underground Storage Tank Program

Since 2009, the BCDHE has provided services to towns on Cape Cod that track removals and fund repair/replacement of residential underground storage tanks (RUST) of home heating fuel, which is highly toxic. To reach property owners who need financial help in removing a UST at the end of its lifecycle, BCDHE continues to offer the RUST 0% Loan Program. This program afforded counsel and critical data to numerous realtors, fire departments, homeowners, and potential homebuyers in FY21, helping to document the mandatory environmental compliance status of USTs in each town. This is critical to the County's sole source aquifer protection efforts. The RUST program also enables the completion of real estate transactions in an efficient and transparent manner, streamlines RUST loan application guidance, and enhances the RUST loan payment collection services in Barnstable County.

Cape and Islands Health Agents Coalition

The Cape & Islands Health Agents Coalition (C&I HAC), a critical public health collaboration between BCDHE and the towns of Barnstable County was established in 2004 under the coordination and facilitation of Amy L. Alati, Hazardous Materials Specialist/Laboratory Safety Officer. The 15 towns and county are mandated each year by the Centers for Disease Control (CDC) and the Massachusetts Department of Public Health (MADPH) to

implement new grant-funded public health emergency planning (PHEP) deliverables by set deadlines.

The C&I HAC continues to provide the 23 towns of Cape Cod, Martha's Vineyard, and Nantucket with public health emergency preparedness information, resources, staff assistance, routine meetings, and training which meet each specific planning deliverable. Credentialed public health training workshops, ongoing environmental health education seminars, public health emergency response drills, and regulatory guidance updates assist the towns of the Cape and Islands to consistently become more adept at situational awareness, public health emergency planning, and environmental health oversight, and emergency response.

In FY21, BCDHE continued to tirelessly assist local health departments in the development and implementation of COVID-19 testing strategies, vaccination clinic logistics, communication, local response, and case/contact tracing follow-up on virus clusters throughout the communities of Cape Cod. The BCDHE also hired additional seasonal administrative staff to assist the towns and local businesses with newly established COVID-19 vaccination requests, second dose requests, and the issuing/replacement of vaccine cards.

Members and affiliates of the Cape and Islands Health Agents Coalition have worked in conjunction with BCDHE and MADPH since 2005 by sharing resources, critical information, and new/emerging methodologies that streamline a public health issue or crisis. Local Boards of Health (LBOH) are supported by ongoing programs, webinars, and information from C&I HAC's planning partners which include the Barnstable County Public Health Nursing Division, the Cape Cod Medical Reserve Corps, the Massachusetts Department of Public Health, the Health and Medical Coordinating Coalition (HMCC), the Visiting Nurse Association (VNA), BCDHE staff and BCDHE's contracted public health nurse planners. These collaborative efforts support each town's public health programs, supplement their workloads, and provide the town credit for each mandatory PHEP deliverable.

The BCDHE administratively served the C&I HAC through ongoing individual support, remote group meetings, training/presentations from subject matter experts, and subcommittees for special topics during the COVID-19 pandemic and Delta Variant phase. An example of a C&I HAC subcommittee is the recently established Cyanobacteria Subcommittee, which works on the critical issue of toxic algae bloom prevention and public communication from the LBOH. Services to the towns were uninterrupted in FY21 and the C&I HAC is continuously informed and prepared for individual or mutual aid responses. The C&I HAC is provided with additional COVID-19 vaccination clinic staff, public health nurse liaisons, and a wide variety of immediate response resources.

Grant funding from CDC also helps to fund public health emergency plans, which are updated, maintained, and exercised with the assistance of BCDHE's contracted public health nurse planners. Staff work together on a variety of subjects to assist the C&I HAC with meeting and exceeding the CDC and state health department mandated goals established in each budget period. Coalition meetings/workshops are open to the public and routinely attended by a wide variety of public health partners such as public health nurses, healthcare liaisons, non-profit service groups, emergency



response agencies/municipalities and environmental health practitioners.

Laboratory Safety Management Program

With the oversight and guidance of Amy Alati, Laboratory Safety Officer, the BCDHE Water Quality Laboratory continues to see updates and progress to its comprehensive safety management system (SMS). The Laboratory’s safety committee continues to meet remotely to discuss ongoing lab safety hazards or COVID-19 safety issues and participate in mandatory training. Top-down management support continues to be a cornerstone of the lab’s Safety Management System (SMS) evolution and success. The Laboratory’s SMS has also empowered a reduction and in some cases elimination, of health and safety risks and workplace hazards in the laboratory. This maintains critical employee protection, liability prevention, and cost savings for the County.

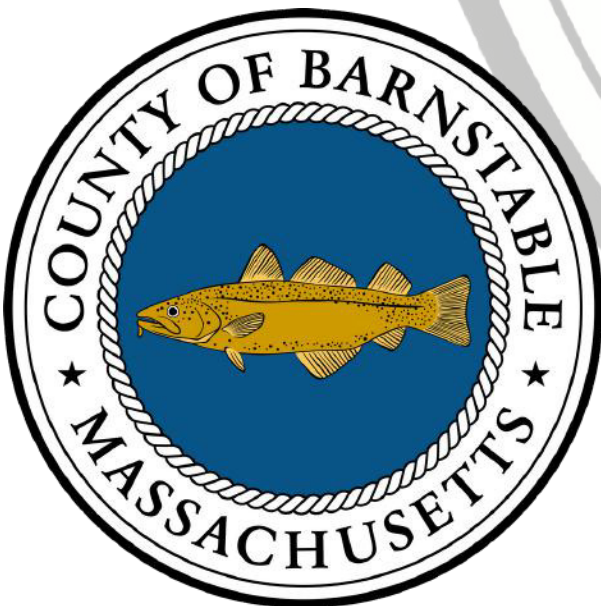
The Program continues to build a risk-based, management-led, evaluation-driven safety management system for this important regional service facility. Laboratory safety evaluations consist of solution-driven collaborations among chemists, administrative staff, management, and Barnstable County Facilities. In FY21, the Laboratory’s team efforts led to additional identification and correction of COVID-19 hazards and proactive emergency response actions. Lab staff was annually trained and ready for their services to be uninterrupted and in line with OSHA-compliant safety standards. A thorough assessment was conducted with staff on the facility’s safety protocols, availability of personal protective equipment, ongoing infectious disease assessments, and building modifications. These measures have proven to protect staff members while providing a safe work environment for sample drop-offs from town water departments, local businesses, and the public.

The lab staff continues to enthusiastically pass in-house safety inspections and complete training on a variety of subject matters such as OSHA-mandated Hazard Communication, OSHA Laboratory Standard, OSHA Bloodborne Pathogens, OSHA Emergency Action Plans such as evacuation and shelter-in-place and fire extinguisher training. To maintain its environmental compliance obligations, the lab follows all applicable EPA, state, local, OSHA, and NFPA standards.

By organizing the numerous compliance initiatives in a specific health and safety planning portal, the Water Quality Laboratory continues to evolve as an efficient operation focused on risk reduction, loss prevention in terms of worker accident/injury/disability avoidance, safe engineering, and preservation of lab equipment and the prevention of environmental degradation through proper waste disposal. This translates into cost savings for BCDHE in terms of reduced Workman’s Compensation claims, OSHA/EPA regulatory liability, and insurance premium costs.

Report of the DEPARTMENT OF HUMAN SERVICES

DEPARTMENT OF HUMAN SERVICES





FY'21

DEPARTMENT OF HUMAN SERVICES

3195 Main Street
P.O. Box 427
Barnstable, MA 02630
508-375-6628
www.bchumanservices.org

REPORT OF DEPARTMENT OF HUMAN SERVICES

For the Period July 1, 2020 and ending June 30, 2021



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OVERVIEW

The mission of the Department of Human Service is to plan, develop, and implement programs that enhance the overall delivery of human services in Barnstable County and promote the health and social well-being of County residents through regional efforts that improve the coordination of services.

The department has a history of organizing regional approaches that promote health and wellness for underserved populations by mobilizing a community response to needs identified through community-based research and evaluation. The department's primary role is to provide opportunities for the exchange of information and encourage growth/improvements in the focus areas identified in the Department's Human Service Plan. A full copy of the plan can be found at www.bchumanservices.net



Health & Wellness



Housing & Homelessness



Behavioral Health



Aging & Disability

HEALTHY CONNECTED CAPE COD

Healthy Connected Cape Cod is the conceptual framework that ties together the work of the Department. The principal aim is to facilitate connectedness by engaging residents, health and human service organizations, and coalitions and networks throughout Cape Cod in collaborations to plan and implement activities that promote health and well-being through community engagement and social connections.

The underpinnings of the Healthy Connected Cape Cod conceptual framework are to strengthen individual, family, and community wellness with community-based health promotion and disease prevention focus; identify focus areas based on local qualitative and quantitative data regarding assets and needs; implement evidence-based activities and practices that resonate with community members; implement activities that are culturally appropriate and accessible to people with disabilities.

BARNSTABLE COUNTY HEALTH AND HUMAN SERVICES ADVISORY COUNCIL

In 2004, pursuant to an Ordinance proposed by the County Commissioners and adopted by the Assembly of Delegates, the Department convened an advisory group made up of representatives of numerous County health and human services consortia and networks. The Barnstable County Health and Human Services Advisory Council (HHSAC), in conjunction with the Barnstable County Department of Human Services, is responsible for providing advice concerning the human service needs of Barnstable County to County elected officials and administrators.

In order to achieve broad representation on the Advisory Council, representatives from County-wide associations and collaborative networks, working groups, and task-forces are appointed by the County Commissioners in the areas of healthcare services and human services. A full listing of appointed representatives to the Health and Human Services Advisory Council can be found at www.bchumanservices.net.

AGING AND DISABILITY



SHINE

The department administers the regional SHINE Program for Barnstable County. SHINE (Serving the Health Insurance Needs of Everyone) is a state health insurance assistance program that provides free health insurance information, counseling, and assistance to Massachusetts residents with Medicare and their caregivers. In FY20, 57 highly trained volunteer SHINE counselors provided free Medicare enrollment services to over 6,100 residents at 26 host locations throughout the region. SHINE partners with 14 towns in Barnstable County.

In FY20, the Regional SHINE program staff engaged in outreach activities reaching residents from each town on Cape Cod. SHINE staff conducted 35 presentations for 1,199 people; participated in 5 health fairs reaching 165 people; and published 195 articles for the COA newsletter and local media outlets.



Shine Training

HEALTH AGING OF CAPE COD

The Healthy Aging-Cape Cod (HA-CC) initiative is focused on understanding and supporting the factors associated with aging on Cape Cod in a healthy and socially connected manner. During the period 2018-2020, the HA-CC Steering Committee will oversee the completion of a regional assessment of Barnstable County as an age-friendly (AF) and dementia-friendly (DF) context and will produce an AF-DF Action Plan for the region. The Barnstable County Department of Human Services convenes HA-CC and has been awarded a grant from the Tufts Health Plan Foundation to carry out the assessment. The Steering Committee includes community leaders and organizations such as Elder Services of the Cape and Islands, Cape Cod Regional Transportation Authority, Cape Cod Healthcare, Yarmouth COA, Councils on Aging Serving Together



FY'21

(COAST), the Cape Commission, Spaulding Rehabilitation Hospital, Outer Cape Health Services, the Alzheimer's Family Support Center of Cape Cod, and the United Way of Cape Cod.

BEHAVIORAL HEALTH



SUBSTANCE USE COUNCIL

In 2014 the department founded and continues to convene the Barnstable County Regional Substance Use Council (RSAC) comprised of town and community leaders from across Barnstable County. Department staff supported the Council's work in FY20.

The purpose of the RSAC is to:

- Establish a communication infrastructure across towns, providers, organizations, and individuals on Cape Cod;
- Identify needs and addresses gaps and disparities in the service system;
- Maximize interagency collaboration; and
- Maximize funding and resource opportunities.

• The department has provided the Council with an Analysis of Substance Abuse on Cape Cod: A Baseline Assessment and with an Action Plan for the period 2015-2020. The Analysis provides a snapshot of substance dependency and its related costs for Barnstable County. This informed the Action Plan, which sets forth the Council's approach to addressing substance use disorders on Cape Cod via workgroups that focus on prevention, harm reduction, treatment, and recovery initiatives.

• In FY 20 the Department managed three substance use grants from the Massachusetts Department of Public Health (MDPH):

• Massachusetts Opioid Abuse Prevention Collaborative (MOAPC). The purpose of MOAPC is to implement local policy, practice, systems, and environmental change to prevent the misuse/abuse of opioids and increase the capacity of municipalities across the region to address these issues.

In FY20, the MOAPC grant-supported workaround sober homes, recovery support systems, and continued support for access to Naloxone (Narcan).

• Substance Abuse Prevention Collaborative (SAPC). The purpose of SAPC is to implement or amend the local policy, practice, systems, and environmental change to prevent underage drinking and other drug use and to increase the number and capacity of communities addressing these issues. In FY20, the SAPC grant-supported six projects through mini-grants in four communities totaling \$16,000. Projects included parent education events, prevention curricula for youth, and resources for youth with a parent in active addiction or recovery. In addition to the mini-grants, SAPC staff provide technical assistance and support to Barnstable County town coalitions focusing on substance use efforts in nine communities.

• Overdose Data to Action (OD2A). The purpose of OD2A is to use data to inform action. In FY 20, the department piloted a Recovery Support Navigator Program. This program provides the services of a Recovery Support Navigator from Duffy Health Center who provides support to people in early recovery. The pilot serves the Town of Dennis and referrals are made to the program by the Town of Dennis Police Department. A second pilot project supported through OD2A funding is the WellStrong Peer Wellness Coach (PWC) program. Certified Recovery Coaches with additional wellness training work with clients over 3-6 months to provide mentorship, help identify recovery and wellness strengths, weaknesses, and interests to create individualized health goals, peer-based support and accountability, navigation to helpful recovery resources, and help to establish healthy coping skills for life in recovery. OD2A grant funds also support the evaluation of the Wellstrong Peer Wellness Coach Program and the Recovery Support Navigator Pilot Program.

Barnstable County Outreach Critical Incident Management System (BCO CIMS) is a multi-faceted collaboration of three police departments in Barnstable County (Barnstable, Dennis, and Yarmouth), the Cape and Islands District Attorney's Office, and organizations supporting individuals in active addiction or recovery working together to make treatment more accessible for those struggling with substance use disorder. Implementation of the CIMS software allows for a comprehensive process of following up with individuals who have experienced a non-fatal opioid overdose. The initial implementation of BCO CIMS was funded via an earmark and MOAPC funding will allow the expansion of BCO CIMS to all towns in Barnstable County in FY21.

MY CHOICE MATTERS CAMPAIGN

The department created and mobilized a highly successful county-wide public education campaign, My Choice Matters, to prevent substance use and reduce the social stigma surrounding it. This is a multi-year effort supported by the Barnstable County Regional Substance Use Council, the District Attorney's Office, and Cape Cod Healthcare. The campaign utilizes a social-norm framework which is an effective evidenced-based method of messaging that promotes health and changes behavior.

The communication objectives of the campaign utilize multiple strategies to target its message:

- Website – www.mychoicematters.net
- Social media
- Print
- Radio
- Video

In response to the youth e-cigarette/vaping epidemic, the Barnstable County Department of Human Services created a toolkit under the My Choice Matters campaign, “Escape the Vape” to provide a centralized resource to parents and caregivers who want to become more educated and better equipped to take the action that is necessary for their child’s well-being. In addition to a toolkit for parents, youth, and educators, presentations were provided to parents and youth-serving organizations to learn about the impact of vaping on youth and how to respond if a youth is using these products.

In FY20, the My Choice Matters website logged 23,000page views with 6,155 views for the Escape the Vape toolkit.



CHILDREN’S BEHAVIORAL HEALTH WORKGROUP

In January 2019, Barnstable County Department of Human Services Director Elizabeth Albert and Eileen Elias, a former Commissioner of Mental Health, convened a group of stakeholders comprised of elected officials, state departments, providers, and advocates to identify barriers to providing children’s behavioral health services in Barnstable County. Over a 12 month period, stakeholders from Barnstable County’s children’s behavioral health (BH) system met monthly to frame the issues surrounding children’s behavioral health and recommend solutions. In January 2020 the Barnstable County Children’s Behavioral Health Work Group released its recommendations and action plan. The Recommendations and Action Plan can be found on the department’s website.

HOMELESSNESS & AFFORDABLE HOUSING

REGIONAL NETWORK ON HOMELESSNESS

The department is the convening agency for the Cape and Islands Regional Network on Homelessness. The department’s director is a member of the Executive Committee and Policy Board and the department’s Continuum of Care and HMIS Program Managers provide administrative support to the Network. In FY20, the Department supported this regional work by leading the community efforts for emergency housing during inclement weather and coordinating services and resources for those facing housing instability during the COVID-19 pandemic. Other priority areas for the Regional Network were Youth and Young Adult Homelessness, Elder Homelessness, outreach to Martha’s Vineyard and Nantucket, and increased training opportunities for staff from partner agencies.

CONTINUUM OF CARE

The department is the Collaborative Applicant for the Cape and Islands Continuum of Care (CoC) and is responsible for developing the annual application for CoC funding. In FY20, the Cape and Islands CoC was awarded over \$1.9 million dollars to support 145 beds of permanent supportive housing for chronically homeless, and disabled households. Of note, a new permanent supportive housing program for 6 homeless YYA (24 years of age and younger) was awarded funding. This is the first program in the region specifically targeting this sub-population.

YOUTH AND YOUNG ADULT HOMELESSNESS

The department is the lead agency for the Executive Office of Health and Human Services Unaccompanied Homeless Youth and Young Adult (YYA) grant. The maximum obligation for this grant increased by \$130,000 during this fiscal year to \$362,814. The subgrantees for this program provided services and resources to 130 YYA during FY20. Additionally, 37 YYA who secured housing with the assistance of subgrantees remained housed for at least 3 months, which was the highest rate in the Commonwealth.

HOMELESS MANAGEMENT INFORMATION SYSTEM

The department is the Homeless Management Information System (HMIS) lead for the Cape and Islands CoC. In addition, other key responsibilities include managing a Coordinated Entry System (CES) to access CoC-funded programs, technical assistance, reporting, implementing a new CES system in HMIS, training, and monitoring of grantees, and conducting the annual homeless counts.





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HOME INVESTMENT PARTNERSHIP

The Department administers the HOME Investment Partnership Program (HOME), a federal block grant to state and local governments designed exclusively to create affordable housing for low-income households. HOME funds a range of activities for the creation of affordable rental housing and homeownership opportunities. The Barnstable County HOME Consortium (BC HOME), comprised of the 15 towns in Barnstable County, is a Participating Jurisdiction to receive and disburse HOME funds. In 2015, Barnstable County designated the Department of Human Services to act as the BC HOME program's lead agent, responsible to HUD for all administrative functions related to its operation.

For FY20, BC HOME provided grant funding for the construction of Cape Cod Village (\$250,000), a four-unit (16 single room occupancy) for autistic adults in Orleans; and for Little Pond Place (\$140,000), a 40-unit affordable rental housing development in Falmouth. Additionally, BC HOME conditionally committed funding for Terrapin Ridge (\$250,000), a 30-unit affordable rental housing development in Sandwich; for Yarmouth Gardens (\$250,000), a 40-unit affordable rental housing re-development in Yarmouth; and for Brewster Woods (\$250,000), a 30-unit affordable rental housing development in Brewster.

Additionally, BC HOME implemented a new emergency short-term rental assistance program allocating \$100,000 of HOME funds to assist County residents impacted by the COVID-19 Pandemic. This program will be administered by Housing Assistance Corporation as part of its Homeless Prevention and Workforce Housing Relief Fund to help fill the gap in assistance available through other programs.

INFORMATION SERVICES

DATA, RESEARCH, AND EVALUATION

Department's Deputy Director oversees data acquisition, localization, and presentation and provides technical assistance on research and evaluation methodology and strategies for program quality improvement. In 2019, the Deputy Director oversaw the Department's repository of synthesized local data in the key topic areas of:

- Socio-demographics
- Natality and mortality
- Physical and emotional well-being, including mental



- Health and substance abuse
- Access to health care and health insurance
- Access to intensive case management services
- Chronic disease morbidity, mortality, and prevention
- Community and primary health services
- Housing security
- Food security
- Income and poverty
- Public Safety
- Transportation
- Healthy aging

This repository presents topic-area data by population variables such as gender, age, race/ethnicity, and town of residence. The Department has designed this repository to make it more accessible to the user and utilizes the Human Services Advisory Council to provide guidance on content and presentation. Drawing from this repository, the Department's researcher responded to a number of specific requests from County Departments, residents, nonprofits, towns and media. Examples include:

- Barnstable County Commissioners
- Barnstable County Health Department
- Barnstable County Sheriff's Office/House of Corrections
- Cape Cod Commission
- Cape & Islands District Attorney's Office
- Cape & Islands Regional Network on Homelessness
- Cape Cod Healthcare
- Cape Cod Times newspaper
- Cape Cod Regional Transit Authority (CCRTA)
- Duffy Health Center
- Falmouth Enterprise newspaper
- Gosnold on Cape Cod
- Helping Our Women
- Housing Assistance Corporation of Cape Cod
- NAMI
- Sandwich Police Department
- Spaulding Rehabilitation Hospital
- VNA of Cape Cod
- WCAI Cape and Islands NPR

Examples of local data found on the Department's website include:

Poverty Data by Town: Barnstable County and Towns, total households and population with gender and age details.

In Focus: The Demographic and Socioeconomic Landscape of Barnstable County (June 2013) provides a broad range of indicators on the demographic and socioeconomic characteristics of Barnstable County that are of particular relevance to the health and human services communities. The report was widely publicized and distributed to elected officials, funders, and nonprofits in the region.

Publications emanating from the RSAC work include:

Analysis of Opioid-Related Overdose Deaths on Cape Cod, 2004-2014: Implications for Trades/Service Workers and the Straight-To-Work Population (October 2017)

Additional publications from the RSAC work include:

Analysis of Substance Abuse on Cape Cod: A Baseline Assessment (March 2015)

The report provides a snapshot of substance dependency and its related costs for Barnstable County, Massachusetts. The report is intended to inform programming and policy needs as defined by the Barnstable County Regional Substance Abuse Council (RSAC).

Addressing Substance Use on Cape Cod: Action Plan (August 2015), for the Barnstable County Regional Substance Use Council covering the period 2015-2020. The Action Plan provides guidance for the work of the RSAC.

ONLINE RESOURCES

The Department's flagship website www.bchumanservices.net is the central access point to comprehensive online resources for local health and human services issues. The website provides fact sheets, educational materials, and local research publications related to the Department's initiatives. The Department's website is home to a current list of crisis hotlines with mobile links, the latest e-newsletters with sign-up and article submission information, and access to www.mychoicematters.net. In FY20, the Department's website averaged 46 visitors per day and 1,405 per month.

The Department supports a companion public health website that offers a medical library of peer-reviewed material, community health indicator data, evidence-based model programs, current legislation, related news, and a robust Health and Human Services Directory listing with 441 local agencies. In FY20 there were a total of 60,354 visits to the site averaging 164 visits per day and 158,056 total page views.

E-NEWSLETTERS

BC Human Services e-newsletter provides a wide range of information through the publication of a bi-weekly e-newsletter to over 2,000 individuals and agencies. The e-newsletter informs the health and human services community of upcoming events, training, grant opportunities, resources, and opportunities for capacity building.

The Regional Substance Use Council e-newsletter provides information on substance use across the continuum of prevention, intervention, treatment, and recovery to over 1,000 individuals and agencies.

HEALTH AND HUMAN SERVICES COLLABORATION

The Department of Human Services staff provides leadership and support to regional groups and coalitions including the Barnstable County Children's Behavioral Health Work Group, Barnstable County Regional Substance Use Council, Behavioral Health Provider Coalition, Cape and Islands Regional Network on Homelessness, Cape Cod Hospital Community Benefits Committee, Healthy Aging Cape Cod, and United Way Community Impact Committee.

In FY20 the emergence of the COVID-19 pandemic prompted specific collaborative responses led by the Department Director to contribute staff time and organizational effort to the following activities:

Leadership by the Deputy Director of the Emergency Homelessness Sheltering COVID-19 working group.

Seconding of the Deputy Director to the Barnstable County Dept. of Health and Environment to support the Planning Unit of the county's Incident Command structure and to provide epidemiological surveillance and reporting during the pandemic response.

Leadership by the Deputy Director of the County's liaison with the fifteen Council on Aging Directors.

Participation by the Deputy Director in the Barnstable County Reopening Task Force, and leadership of its Childcare Subcommittee.

CONCLUSION

In support of our mission, in FY 20 the Department managed \$1.5 million dollars in grants from a variety of state and federal sources to support the following regional programs – SHINE, HOME, Continuum of Care, and substance use prevention grants.

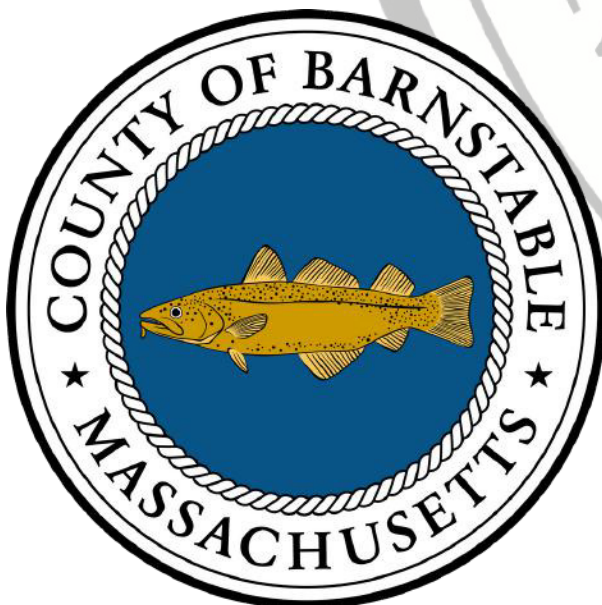
Barnstable County Department of Human Services plays an important role in facilitating communication, fostering collaboration, planning, coordination, capacity building, and resource development to improve health outcomes for the residents of Barnstable County.

Respectfully submitted,
Elizabeth Albert



FY'21

Report of the
**DEPARTMENT OF
INFORMATION
TECHNOLOGY**



INFORMATION TECHNOLOGY

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REPORT OF DEPARTMENT OF INFORMATION TECHNOLOGY

For the Period July 1, 2020 and ending June 30, 2021

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Department History and Mission

The Barnstable County Information Technology Department (BCIT) was formed in July of 2005. The mission of the Department is to provide the technical support, network infrastructure, data storage, and computation resources necessary for Barnstable County to maximize its contributions to its constituents throughout the region.

While the focus of the Department is to further the success of Barnstable County, BCIT is also one of a small number of IT departments in the State that generates revenue by selling services to other municipal agencies.

The Fiscal Year 2021

The fiscal Year 2021 was yet another year of drastic change. Though in addition to over a thousand service requests being logged and processed, BCIT continued to operate effectively and successfully demonstrated the effectiveness and value of the County's IT strategy while the world adapted to remote work. The example that was set resulted in an increased demand among municipalities within the region for regional IT services from BCIT, with new customers being brought onboard.

Plans to consolidate services persisted and thanks to the support of County officials, the funding needed to attain the efficiencies was obtained. Additional work toward refining and tracking IT assets was made with support from County Administration.

Many projects proceeded as planned, though some slowed significantly due to global demand for IT-related products and services. The competitive marketplace resulted in an environment where service providers frequently updated and changed their offerings to keep up. This increased the challenges associated with ensuring cost control, security, and regulatory compliance for all customers, and was particularly difficult for smaller organizations to keep up with the rate of change.

This report will further summarize noteworthy initiatives and projects undertaken by staff throughout the year, as well as the strategy behind them.

The fiscal Year 2021 Strategic Outline

A large amount of effort focused on establishing internal governance over processes that directly impact the ability of BCIT staff to support its customers both internally and externally. This includes the continued refinement of the scope and scale of support by placing boundaries on the variety of software and hardware that is dealt with.

While most critical services have been migrated to cloud platforms, a few key items remain to prevent the shutdown of legacy systems hosted in the data center on-premises.

For the duration of FY 2021, there was a consistent effort toward refining technology-enforced policy and implementing security improvements in accordance with best practices, which will continue through subsequent years.

Customers

The IT Department served the following customers in the Fiscal Year 2021.

- Assembly of Delegates
- Cape Cod Commission
- County Commissioners
- Children's Cove
- Dredge
- Cooperative Extension
- Facilities



- Finance
- Fire Training Academy
- Health and Environment
- Human Services
- Registry of Deeds
- Resource Development Office
- Town of Chatham
- Town of Harwich
- Town of Orleans
- Town of Brewster
- Town of Bourne
- Town of Truro
- Town of Wellfleet

Core Projects and Service Highlights

The examples below outline several key projects and initiatives, on which the most funding and effort among staff was expended.

Regional IT Services: Additional assessments and contractual arrangements for the Town of Bourne and additional services for several other Towns provided additional revenue partially compensating for areas where on-site services were not allowed for periods of time early in the year. Demand for IT assistance regionally continued to rise steadily throughout the year.

Cloud Faxing: A major shift from legacy fax machines to faxing as a service occurred in FY 2022. This allowed for the canceling of older telephone services running over copper lines and increased workforce mobility.

E-Signature: Utilization of e-signature services increased substantially, as did a mutually beneficial general acceptance of this technology. Increasing service levels and costs prompted a push to review other platforms next fiscal year, with an eye toward consolidating this service with others.

Ongoing Training: New technology and software bring about new ways to do business and more efficient ways to operate. Ad-hoc training for new functionality that could not reasonably be requisite job knowledge at hire, was provided throughout the year. Online training allows for more flexibility with schedules. Plans exist to increase the number of training sessions available to employees internally moving forward.

Eliminating Legacy Systems: One of the last remaining servers running on-premises, was the County’s file server. After migration completed to cloud-based platforms was completed, this server was locked and ultimately shut down. This was a major security milestone for the County—legacy file storage is more vulnerable to several risks, most notably ransomware. Moving to cloud file storage provides a layer of protection by preventing direct access to the files themselves.

The groundwork was also laid for the migration of the County’s financial systems to the cloud next fiscal year. This will bring us to a point where shutting down physical systems within the data center is now fully within reach.

Security Improvements: All new user accounts created by BCIT are now done so with multi-factor authentication (MFA) enabled by default. This provides an extra layer of security and drastically reduces the likelihood that accounts will be compromised. MFA is also being rolled out per users to existing employees, with those who experience a security event, such as a compromised user account, at the top of the list. Though training is still required, plans exist to enroll the County in other programs available to government agencies for free, to provide cybersecurity training for all employees.

Surplus Cleanup: Work began in cleaning out the existing County surplus stockpile. Though much is considered e-waste, extra care is being taken to dispose of items properly, while maintaining data security for decommissioned devices by removing storage media for later destruction.

Hybrid Meetings: Hybrid meetings began, and though choppy at times, were manageable and helped chart a course forward with future improvements being planned.

COVID-19 HelpLine: Starting early in 2021 and increasing in popularity dramatically through the year, the COVID-19 HelpLine provided the public with a means to speak directly to a person who could field their COVID-19-related inquiries, listen to their concerns, and assist them to whatever extent possible. IT was staffed and managed by the Department of Health & Environment and utilized a large group of Medical Reserve Corp (HRC) volunteers. Throughout the first major wave of the pandemic, it fielded tens of thousands of phone calls. At its peak, there were approximately 50 volunteers in constant rotation, all participating from the comfort of their own homes.

This helpline proved to be a near-perfect proof of concept for the savings, flexibility, and resiliency of cloud-based phone services. In a matter of a couple of weeks, IT staff working with the Health department were able to establish a large-scale call center and collaboration platform for volunteers, for only the cost of the additional licensing.

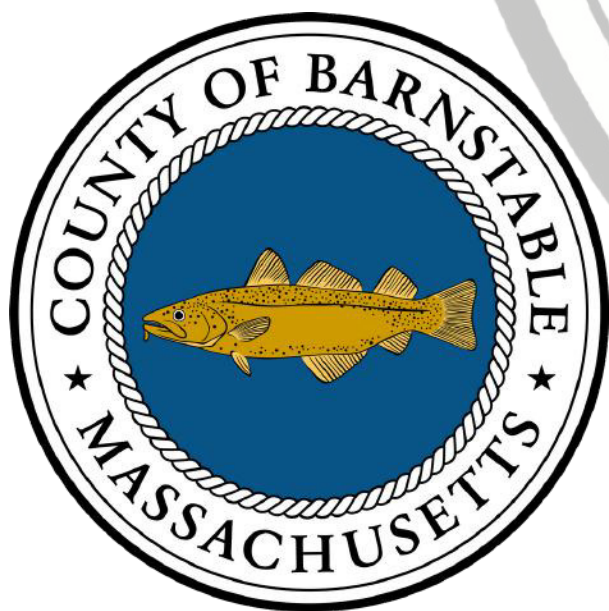
It also showcased the ease of use of a cloud platform for a non-technical group of volunteers, largely comprised of retirees and medical professionals. Health department staff trained the volunteers on setting up and using the software/services on their personal devices 100% remotely. The training also successfully demonstrated that not only could non-technical staff use the platform proficiently, but they could also easily provide training to those learning it, or in many cases completely new to the concept. Only limited support on the service side was needed from IT staff. The group of County staff and volunteers held virtual meetings frequently to compare notes and review issues, and utilized collaboration tools extensively, such as integrated file sharing, and chat functions.

On a non-technical note, the group of volunteers was able to stay in better, closer communication overall than if they were rotating through a physical call center location; for many involved, this provided a valuable sense of comradery during a time of social isolation and quarantine.

Report of the

BARNSTABLE COUNTY REGISTRY OF DEEDS

REGISTRY OF DEEDS





FY'21

BARNSTABLE COUNTY REGISTRY OF DEEDS

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Report for the Period July 1, 2020 and ending June 30, 2021

Recording Hours: Monday through Friday 8:00 am - 4:00 pm

Research Hours: Monday through Friday: 7:45 am - 4:00 pm

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508-375-6939

The Registry of Deeds is responsible for maintaining the records of property transfers within Barnstable County. This includes all deeds, mortgages, plans, and other instruments which purport to affect the title to Real Estate on Cape Cod. The Registry is used daily by local attorneys, surveyors, title examiners, real estate professionals, and members of the general public who are trying to determine the status of particular parcels of land. Our goal continues to be one of providing prompt, efficient, and courteous service to all those who visit our facility.

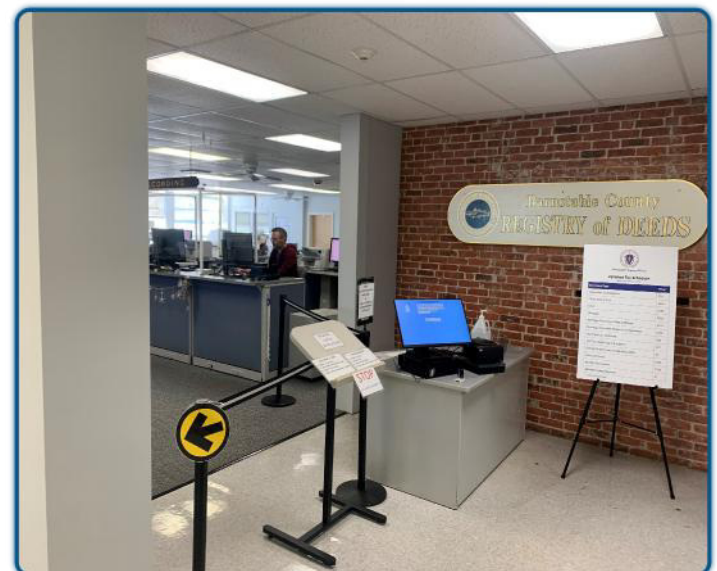
The Fiscal Year 2021

FY2021 saw over 121,600 documents and plans recorded at the registry. \$19,463,044.32 in County Excise Tax and \$3,052,431.41 in County Recording and Copy Fees were collected in the past fiscal year.

Electronic Document Filing

FY2021 marked our Seventh full fiscal year of "eFiling" of recorded land documents. We saw our monthly volume of "eFiled" documents continue to grow from approximately 41% per month to 85% by the close of the fiscal year (Due primarily to COVID19). We continue to experience a rise in overall productivity and efficiency due to greater customer adoption of this innovative means of recording.

In August 2018 we rolled out electronic filing in our Land Court department. We started off slow with just 2% of filings in the first month but quickly saw adoption by our customer base. By the close of the fiscal year, over 26% of our Land Court recordings were being filed electronically. FY2021 saw continued utilization by our customers and by June 2021 we were doing 75% with a large part of that increase directly attributable to the aforementioned pandemic.



COVID19 & THE REGISTRY

The Impact of the pandemic was unknown as we cautiously began FY2021. Registry Staff remained situated in the Registry while our doors were closed to the general public. Many measures were put in place to provide for the health and well-being of all registry employees. Business took off and recording volumes surged to levels we had not seen since before the Great Recession. Record revenues poured in month after month.

We finally opened our doors to the general public on June 1, 2021, as the fiscal year drew to a close. It was a challenge to integrate live in-person recordings with our booming eFile business. We created an electronic queuing system to integrate live persons with eFile customers. This enabled us to handle customers in a timely and orderly fashion.



CAPEVIEW ACCESS & REGISTRY WEBSITE

The registry provides use of our internet access Capeview system to all towns within Barnstable County free of charge. The towns are exempt from our \$50.00 annual fee and the \$1.00 per page copy fee. Capeview enables remote users to access the registry's over three hundred years of electronic records nearly 24 hours a day 7 days a week. Users can do title rundowns, search for liens or find records pertaining to any real estate transaction within the county. The system also provides users the ability to have documents printed in their home or office without involving registry personnel. All Assessor's offices and many town departments in the county have free accounts with us. The savings to the towns has been significant since we began offering the service over 20 years ago.

Credit Card payment processing was introduced to our website in the middle of FY 2014. This has enabled account holders to fund their accounts for printing at nearly any hour of the day without having to mail or deliver a check. It has also enabled casual users of our website to print a copy without having to open an account or mail in a copy request.

In June 2015 the registry, with the assistance of County IT, rolled out our new homepage. It was the first step in the process to update our online presence for years to come. We have used this updated medium to get registry news, changes in hours due to holidays and storms, and changes to excise tax or fee structure out to our customer base in a timely manner.

In FY2018 the registry completely overhauled our public search page. This new interface allowed compatibility across a wide range of browsers and smartphones. The registry search had gone mobile. Customers could now pull up document images wherever and whenever they wanted. This has resulted in a decrease in phone calls and the need for technical assistance when using our website.

Our website was an indispensable resource in FY2021. As news of the Pandemic seemed to be changing by the hour in its early days, we were able to update our status in real-time and keep interested parties informed of any change to our hours of operations. Our building closed to the public in March 2020 and remote access to our records enabled real estate professionals and citizens all over the country to continue to do business.

DECLARATION OF HOMESTEAD FORMS

The registry and its staff provide valuable assistance to all homeowners in Barnstable County with the preparation of the declaration of homestead forms. These forms are available free of charge at our copy counters. The cost to record a homestead is \$35.00 in both our recorded land and our registered land (Land Court) departments. The Declaration of Homestead under Massachusetts General Laws Ch.188 gives persons up to \$500,000.00 protection on their primary residences. It can be a valuable last line of defense and it is recommended to all homeowners in Barnstable County.

