Tracking Cause of Death Data in Randolph



Introducing the Randolph Health Department

Gerard Cody

REHS / RS / CPH
Public Health Commissioner

Ann Martin

RN / MSN Public Health Nurse

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RN Nurse Epidemiologist

Welcome to

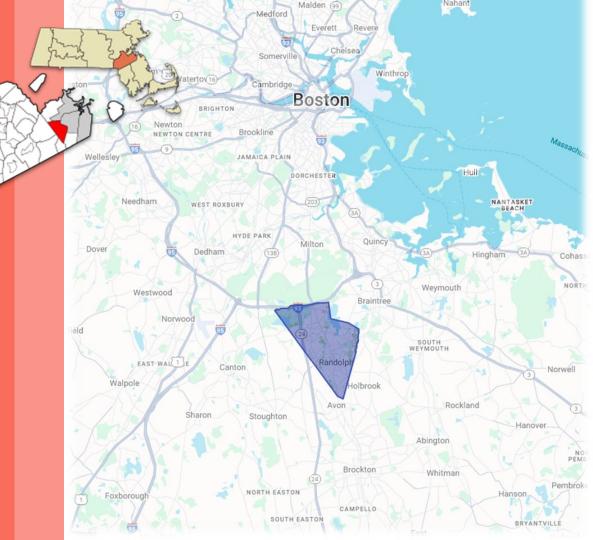
Randolph

South Shore region

- About 14 miles South of Boston
- About 7 miles North of Brockton

Borders with

- Quincy and Milton to the North
- Braintree to the East
- Holbrook and Avon to the South
- Canton and Stoughton to the West



Population

• 34,683 (2023)

Demographics

Age 65+, 17% (18% Mass)
Age 18-65, 65% (62% Mass)
Age 18 and under, 18% (19% Mass)
Median age 41 (40 Mass)



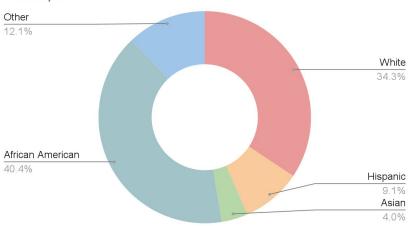
Population

34,683 (2023)

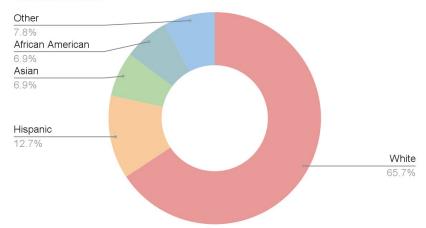
Demographics

Foreign Born, 32% (Mass 18%) Vietnamese & Haitian Populations

Randolph



Massachusetts



Median Income

Per Capita

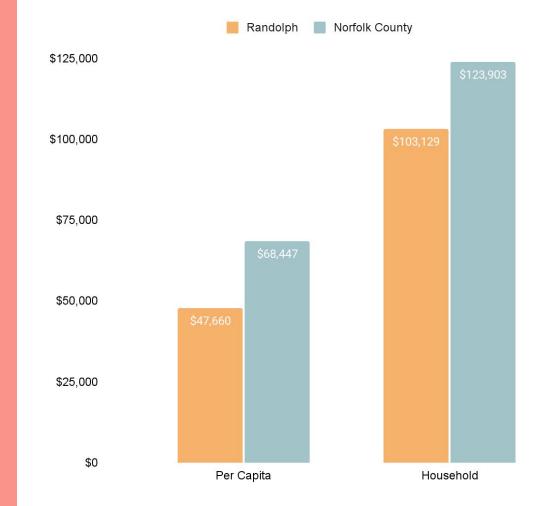
Randolph: \$47,660

Norfolk County: \$68,447

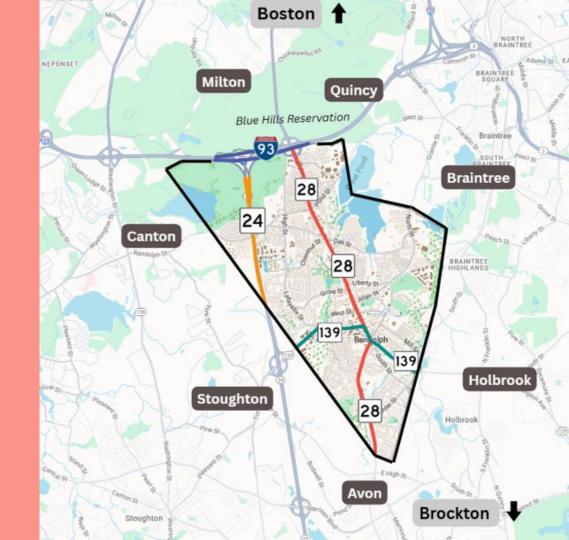
Household

Randolph: \$103,129

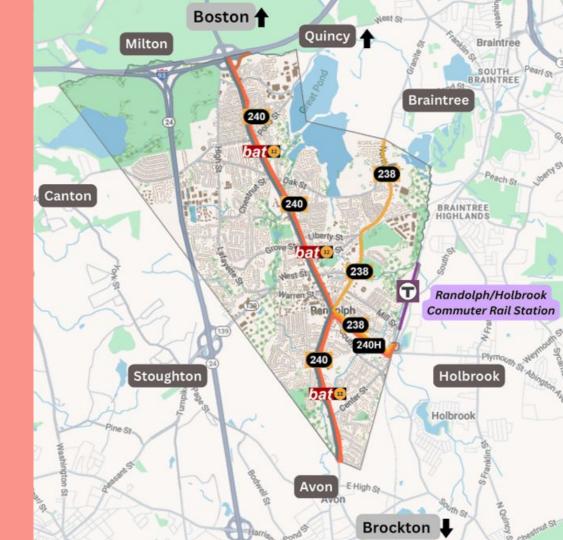
Norfolk County: \$123,903



Transportation



Transportation



esser, accounting for nearly one-quarter, (24%) of all deaths in the town in 2023. Fifty-Five, (55) deat sere caused by heart-related issues, with the average age being 74. Thirty, (30) deaths were caused by (26) of 8% of deaths in the town. Renal-related deaths were recorded at Twenty-Three, (23) and the average age of death was 80. The purpose of this data review is to inform and protect the public's health, safety dective prevention programs and resources to residents.

Below, you will find a data table that summarizes all of the Randolph Deaths that were reported to the

	Number		h Department in 2023.				
Cause of Death	of Deaths	Average Age	# of Males	# of Females	Percentage of Total Deaths	Death Description	
Cancer Heart Related	76	86	52	79	24%	A death caused by abnormal cell division.	
	55	74	33	22	17%	A death caused by function los	
Brain/Tu	at	a	14	13	10%	A death caused by a mass, loss of oxygen to the brain or hemorrhage.	
Resp			14	12	8%	A death caused by respiratory disease.	
Rer .:			ļΛ	10	7%	A death caused by kidney failure.	
Accidental Trauma	22	53	16	11	7%	A death caused by accidental injury, or trauma.	
Sepsis/Shock	18	72	11	7	6%	A death caused by organ failur and or infection	
Substance Abuse	12	48	8	4	4%	A death due to abusing alcoho and/or drugs.	
Dementia	14	83	2	11	4%	A death caused by progressive terminal condition.	
Diabetes	11	74	7	4	3%	A death due to inadequate production or utilization of insulin.	

The Randolph Public Health
Department conducts an annual
review of the causes of death and
publishes in the annual report.

Purpose

To inform and protect residents' health, safety and well-being from the common causes of death.

Determine trends in order to provide effective prevention programs and resources to residents.

Nice to Meet You



Kendall

Master of Science in Public Health Sciences - Biostatistics UMASS

Data Collection, Analysis, Evaluation



Master of Business AdministrationBryant University

Reporting, Visual Communication



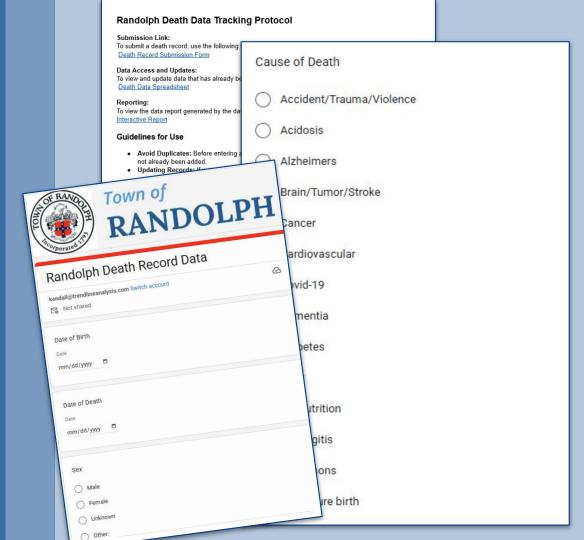


Identifying the Problem

A manual, informal process for collecting annual report data made it difficult to maintain consistency, identify trends, and take action.



Collecting the





Analyzing the

71	Female	•	Black or African American
85	Female	¥	Black or African American
69	Male	٠	Black or African American
73	Female	•	Black or African American
60	Male	•	Black or African American
71	Female	•	White
99	Female	•	Black or African American
97	Female	·	White
88	Female	(🕶	White
71	Male	•	White
76	Male	•	White
74	Female	•	White
66	Male	•	White
75	Male	×	Black or African American
76	Female	•	Black or African American
72	Male	•	Some Other Race
80	Female	(*	Black or African American
97	Male	•	White
51	Male	•	White
88	Male	•	White
82	Male	•	White
95	Female	•	Asian
93	Female	•	White
83	Female	¥	White

TT Race

Haitian	Married	•	Alzheimers	•
Haitian	Divorced	•	Cancer	•
Haitian	Married	•	Cancer	4
American	Never Married	•	Brain/Tumor/Stroke	•
American	Married	•	Cancer	•
Barbados	Widowed	•	Dementia	•
American	Widowed	•	Respiratory	•
Canadian	Widowed	•	Cancer	7
American	Never Married	•	Respiratory	•
American	Widowed	•	Sepsis/Shock/Bacter	,
American	Widowed	•	Alzheimers	4
Polish	Never Married	•	Alzheimers	,
Haitian	Married	•	Brain/Tumor/Stroke	,
American	Married	•	Cancer	•
Cape Verdean	Married	•	Respiratory	•
Haitian	Divorced	•	Brain/Tumor/Stroke	7
American	Widowed	•	Cardiovascular	•
American	Never Married	•	Cardiovascular	7
American	Married	•	Cardiovascular	,
Italian	Never Married	•	Cardiovascular	•

Widowed

Widowed Divorced

Never Married

Haitian

Chinese

American

American

▽ Diagnosis Category

Cardiovascular

Cardiovascular

Cancer



Securing the Data

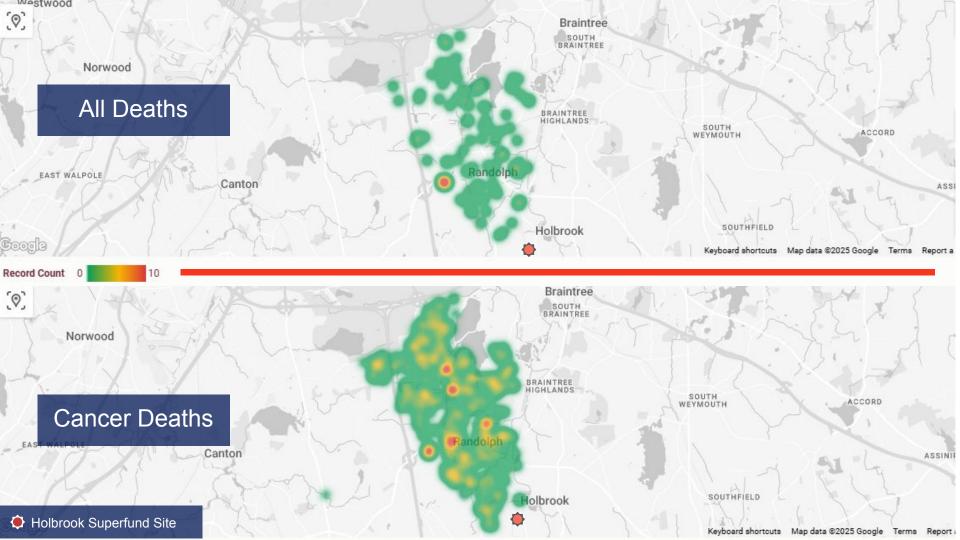
Secured within the town's Google Suite, the data submission form is open for use - but once submitted, the collected data itself is locked for editing.

The system is eligible for two-factor authentication.



Visualizing the Data







What Did We

- → 75% of Dementia/ Alzheimer's deaths are women (58% nationally)
- → Most Randolph residents that die from tobacco use are white
- → Randolph residents are more likely to die from cancer than heart disease
- → Haitian residents are more likely to die from brain-related issues such as stroke



How To Get Started

- → Take an inventory of your data.
- → How do you currently track it? What's most relevant?
- → Clean existing data
- → Make data collection consistent and reliable



Should You Be Tracking?

- → Meets requirements of local boards of health
- → Informs Annual Report content
- Develops potential for future grant projects
- → Interactive reports make it easier to learn about your community
- Leads to better health outcomes for your community

Thank

