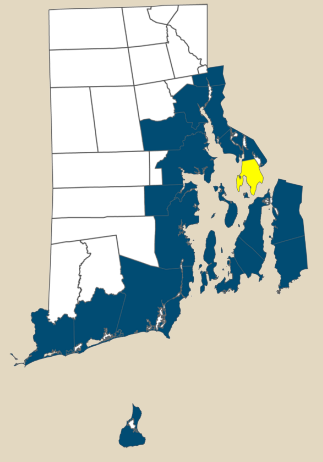


BRISTOL, RI

SOCIOECONOMICS OF SEA LEVEL RISE COASTAL FACTSHEET



PROJECT OVERVIEW

Rhode Island's municipalities are in the preliminary stages of integrating planning for sea level rise and climate change into their comprehensive planning process. To support these planning efforts of RI cities and towns, RISPP developed the Socioeconomics of Sea Level Rise project. The project aims to assist coastal municipalities in their long-term planning by attempting to identify population characteristics of **the people** located within sea level rise (SLR) inundation zones 1, 3, 5 and 7 FT. The data presented in this factsheet places a focus on Environmental Justice and Title VI populations.

METHODOLOGY

The RISPP utilized 2010 Decennial Census data and the latest American Community Survey (ACS) estimates to conduct an extensive data analysis. Staff also utilized CRMC's STORMTOOLS GIS shapefiles to identify the SLR inundation zones. In addition, RI Geographic Information Systems (RIGIS) e-911 data was utilized to identify single family, multi-family and mobile home residential points located within each SLR inundation zone. For more information on the methodology, please reference the [full report](#) on our website.

BRISTOL QUICK FACTS

22,954

2010 Census Population

40.6

2010 Census Median Age

\$60,988

2014 ACS Median Household Income

BRISTOL'S OCCUPIED RESIDENTIAL UNITS & POPULATION ESTIMATES

Bristol is one of Rhode Island's 21 coastal communities, located south of Warren, and north of Portsmouth, Rhode Island.

The Town of Bristol has an average household size of 2.31 (2010 Census). The average household size and the percentage of occupied housing units were used to calculate a population estimate. Approximately 83-85% of the residential units located within SLR inundation zones 3, 5 and 7 FT. are occupied units. Single family (SF) units and multi-family (MF) units were identified in GIS using the e-911 shapefile. The majority of the residential units located in the SLR inundation zones are single family units. There is a significant change between the estimated population located in the 3 and 5 FT. inundation zone, with an additional 107 people estimated in the 5 FT. zone. The 7 FT. inundation zone has the greatest population and residential units, with 273 people estimated within the zone and 118 occupied residential units.

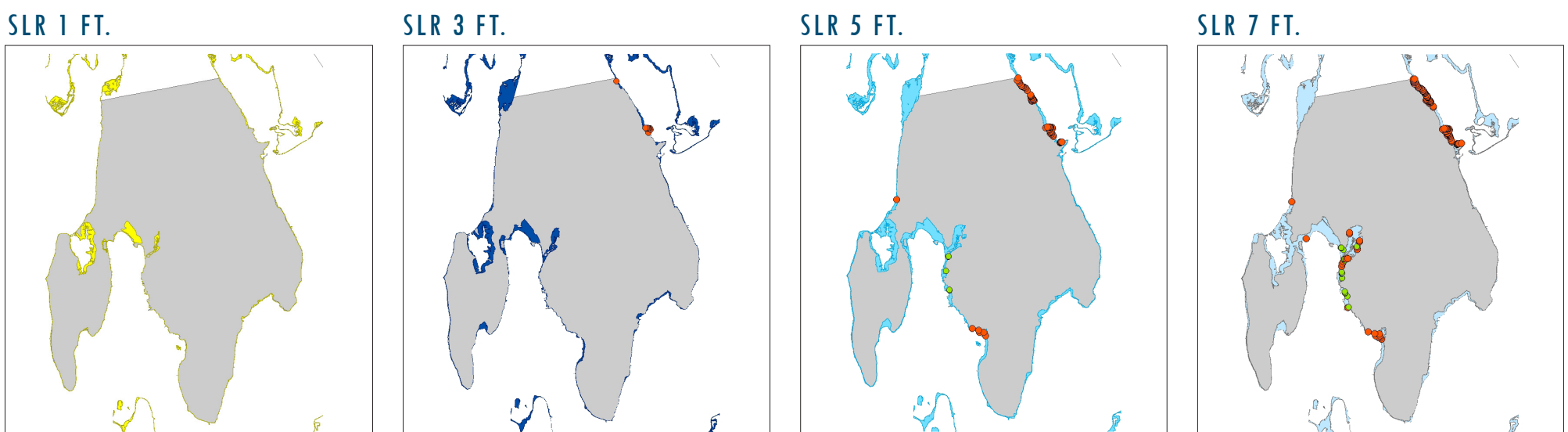
SLR Inundation zone	Residential Units	Occupied Unit calculation (Total Units (x) Occ. Housing Unit Rate in SLR zone)	Population calculation (Occupied Units (x) Bristol Avg. HH Size)
1 FT.	0	0	0
3 FT.	10 SF	8 (83% occ. HU)	18
5 FT.	54 SF, 5 MF	54 (85% occ. HU)	125
7 FT.	100 SF, 19 MF	118 (85% occ. HU)	273

Colt State Park Bike Path, Bristol RI
Sept. 2015 King Tide, Photo Courtesy of Mycoast.org,
submitted by Michelle Carnevale



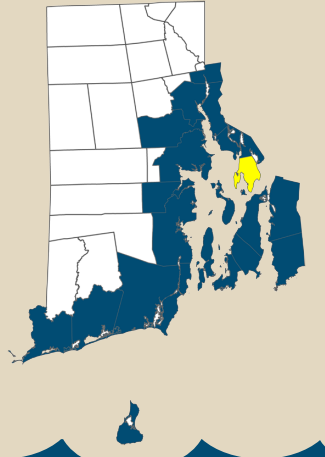
SLR INUNDATION ZONES

The maps above illustrate each of the SLR inundation zones. Single family units are represented by orange points in the SLR inundation zone maps, while multi-family units are represented by green points.



BRISTOL, RI

SOCIOECONOMICS OF SEA LEVEL RISE COASTAL FACTSHEET



SLR 1

EST. POPULATION: 0
EST. OCCUPIED HOUSEHOLDS: 0

There were zero residential units located within the e-911 shapefile in the 1 FT. SLR inundation scenario. Please note, a zero value does not imply that zero people or structures will be impacted in a 1 FT. SLR scenario.

SLR 3

EST. POPULATION: 18
EST. OCCUPIED HOUSEHOLDS: 8

96% or 17 - White
1% or 0.1 - Black
0% - American Indian/Alaska Native
1% or 0.2 - Asian
2% or 0.4 - Hispanic
5% or 1 - Minority



7% or 1 are Individuals with Disabilities

3% or 0.3 are Limited English Proficiency Households

8% or 1 are Unemployed

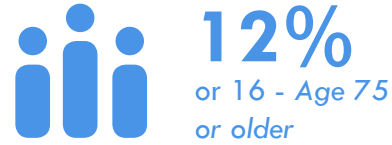
7% or 1 are Individuals Below Poverty Level

5% or 0.4 Households receive SSI

SLR 5

EST. POPULATION: 125
EST. OCCUPIED HOUSEHOLDS: 54

97% or 121 - White
1% or 0.9% - Black
0% - American Indian/Alaska Native
1% or 1 - Asian
2% or 3 - Hispanic
5% or 6 - Minority



7% or 6 are Individuals with Disabilities

3% or 2 are Limited English Proficiency Households

8% or 9 are Unemployed

7% or 8 are Individuals Below Poverty Level

5% or 3 Households receive SSI

SLR 7

EST. POPULATION: 273
EST. OCCUPIED HOUSEHOLDS: 118

97% or 264 - White
1% or 2 - Black
0% - American Indian/Alaska Native
1% or 2 - Asian
2% or 5 - Hispanic
5% or 13 - Minority



7% or 13 are Individuals with Disabilities

3% or 4 are Limited English Proficiency Households

9% or 22 are Unemployed

8% or 21 are Individuals Below Poverty Level

5% or 6 Households receive SSI

RACE & AGE

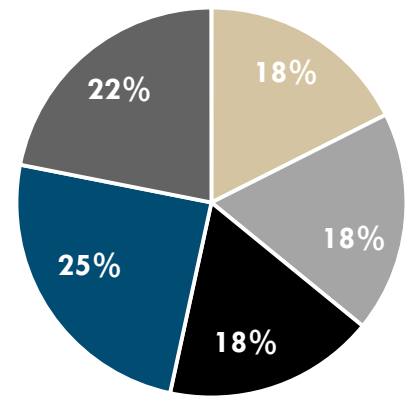
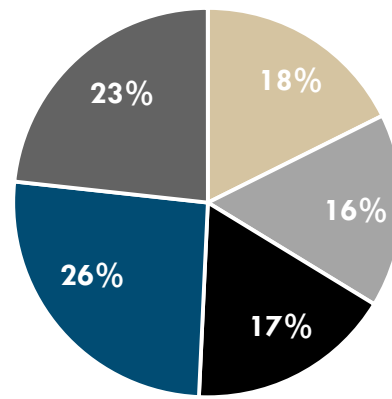
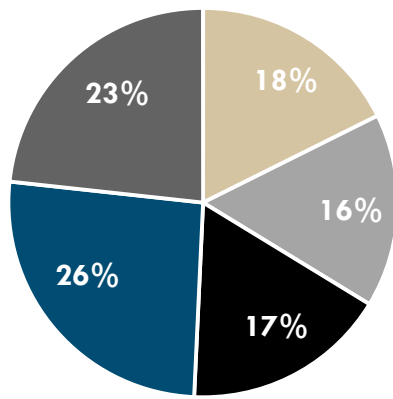
SOCIAL CHARACTERISTICS

HOUSEHOLD INCOME

HOUSEHOLD CHARACTERISTICS



- In Estimated Occupied Housing Units



■ Less than 24,999K ■ 25,000 to 49,999 ■ 50,000 to 74,999 ■ 75,000 to 124,999 ■ 125,000 and up

- Percent of Population in Housing Type

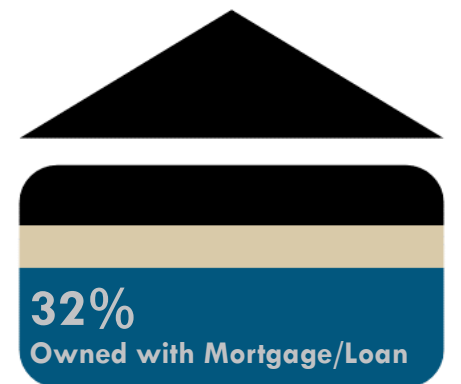
59% Renter Occupied
12% Owned Outright



60% Renter Occupied
11% Owned Outright



57% Renter Occupied
11% Owned Outright



BRISTOL (3FT, 5FT, 7FT)*

*No Residential Units within 1 FT SLR Scenario

	Variable Name	Sea Level Rise (SLR)				Count		
		SLR 3	SLR 5	SLR 7	SLR 7			
HOUSING UNITS & POPULATION	e911 Housing Unit Total							
	Single Family (R1) Units	10	54	100	100			
	Multifamily (R2) Units with Calculation (*2)	0	5*2=10	19*2=38	38			
	Mobile Home (R3) Units	0	0	0	0			
	Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)	10	64	138	138			
	Note: Multifamily unit totals are multiplied by 2 based on the presumption that there are a minimum of two units within each multifamily e911 point							
	Variable Name	Sea Level Rise (SLR)				Count & Percentage		
	e911 Occupied Housing Unit Calculation	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
	Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)	10	100%	64	100%	138	100%	
	Estimated Occupied Units - Count and Percentage	8	83%	54	85%	118	85%	
Population Calculation								
Estimated Occupied Units	8	100%	54	100%	118	100%		
Population Estimate= Occupied Units (x) Municipal Avg. Household Size (2.31)	8*2.31=18		54*2.31=125		118*2.31=273			
DEMOGRAPHIC Block Level and Block Group Data	Race/Hispanic Ethnicity	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
	Total Population (in Occupied Housing Units)	18	100%	125	100%	273	100%	
	White	17	96%	121	97%	264	97%	
	Black or African American	0.1	1%	0.9	1%	2	1%	
	American Indian and Alaska Native	0	0%	0	0%	0	0%	
	Asian	0.2	1%	1	1%	2	1%	
	Some Other Race	0	0%	0	0%	1	0.3%	
	Hispanic	0.4	2%	3	2%	5	2%	
	Non-Hispanic, White Population	17	95%	119	95%	260	95%	
	Minority Population (Total Population minus Non-Hispanic, White Population)	1	5%	6	5%	13	5%	
	Age							
	Total Population (in Occupied Housing Units)	18	100%	125	100%	273	100%	
	Young Children (<5)	0	2%	3	3%	7	3%	
	School-Age Children (5-17)	1	7%	10	8%	22	8%	
	Age 18-24	7	37%	41	33%	80	29%	
	Age 25-44	2	11%	16	13%	36	13%	
	Age 45-64	4	21%	30	24%	68	25%	
	Age 65-74	2	8%	10	8%	24	9%	
	Age ≥75	2	14%	16	12%	36	13%	
	Population 16-64 (For Individuals with a disability variable) [†]	12	67%	84	67%	182	67%	
	Population ≥25 (For educational attainment variable)	10	54%	71	57%	164	60%	
	Population ≥16 (For employment variable) [†]	15	86%	107	86%	233	86%	
	Population ≥65 (For age ≥65 in group quarters variable) [†]	4	22%	26	21%	60	22%	
	SOCIAL Block Group Data	Disability	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
		Total Population (in Occupied Housing Units, age 16-64)	12	100%	84	100%	182	100%
		Individuals with Disabilities	1	7%	6	7%	13	7%
		Limited English Proficiency (LEP)	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
		Estimated Occupied Housing Units	8	100%	54	100%	118	100%
		Limited English Proficiency Households	0.3	3%	2	3%	4	3%
		Educational Attainment						
Total Population (in Occupied Housing Units, age ≥25)		10	100%	71	100%	164	100%	
Less than a High School Diploma or Equivalent		1	11%	8	11%	14	9%	
High School Diploma or GED		2	26%	18	26%	35	21%	
Professional School		0.3	3%	2	3%	5	3%	
Associate's/Bachelor's		3	32%	23	32%	53	32%	
Master's/PhD		1	12%	9	12%	29	18%	
Other (Some College)		2	16%	12	16%	28	17%	
ECONOMIC Block Group Data and Municipal Level Data		Employment	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
	Total Population (in Occupied Housing Units, age ≥16)	15	100%	107	100%	233	100%	
	Employed	14	91%	97	91%	211	90%	
	Unemployed	1	8%	9	8%	22	9%	
	Job Industry ‡							
	Total Population (age ≥16 and employed)	14	100%	97	100%	211	100%	
	Agriculture, forestry, fishing & hunting, mining	0.1	1%	1	1%	2	1%	
	Construction	1	6%	5	6%	12	6%	
	Manufacturing	1	10%	10	10%	21	10%	
	Wholesale trade	0.4	3%	3	3%	6	3%	
	Retail trade	1	10%	10	10%	21	10%	
	Transportation & warehousing, utilities	0.4	3%	3	3%	6	3%	
	Information	0.2	1%	1	1%	3	1%	
	Finance & insurance, real estate, rental & leasing	1	5%	5	5%	11	5%	
	Professional, scientific, management, administrative, waste management services	1	7%	7	7%	14	7%	
	Educational services, health care, social assistance	5	33%	33	33%	71	33%	
	Arts, entertainment, recreation, accommodation & food services	2	11%	11	11%	24	11%	
	Other services (except public administration)	1	5%	5	5%	10	5%	
	Public administration	1	5%	5	5%	11	5%	
	Income							
	Estimated Occupied Housing Units	8	100%	54	100%	118	100%	
	Less than \$24,999K	1	18%	10	18%	21	18%	
	\$25,000 to 49,999	1	16%	9	16%	22	18%	
	\$50,000 to 74,999	1	17%	9	17%	21	18%	
	\$75,000 to 124,999	2	26%	14	26%	29	25%	
\$125,000 and greater	2	23%	13	23%	26	22%		
Total Population (in Occupied Housing Units)	18	100%	125	100%	273	100%		
Income Below Poverty Level	1	7%	8	7%	21	8%		
Income Above Poverty Level	17	93%	117	93%	252	92%		
Estimated Occupied Housing Units	8	100%	54	100%	118	100%		
With Social Security Income (SSI) Households	0.4	5%	3	5%	6	5%		
Without Social Security Income (SSI) Households	8	95%	51	95%	112	95%		
HOUSING Block Level and Block Group Data	Housing Occupancy	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
	Total Housing Units	10	100%	64	100%	138	100%	
	Occupied Housing Units	8	83%	54	85%	118	85%	
	Vacant Housing Units	2	17%	10	15%	20	15%	
	Estimated Occupied Housing Units	8	100%	54	100%	118	100%	
	Owner-Occupied Housing Units	6	67%	35	64%	77	65%	
	Renter-Occupied Housing Units	3	33%	20	36%	41	35%	
	Total Population (in Occupied Housing Units)	18	100%	125	100%	273	100%	
	Population in Group Quarters	7	40%	41	33%	78	29%	
	Total Population (age ≥65)	4	100%	26	100%	60	100%	
	Age ≥65 in Group Quarters [†]	0.5	12%	3	12%	6	11%	
	Housing Tenure*							
	Total Population (in Occupied Housing Units)	18	100%	125	100%	273	100%	
	Populations in Property Owned with mortgage or loan	5	29%	37	30%	88	32%	
	Populations in Property Owned free and clear	2	12%	13	11%	30	11%	
Population in Renter-Occupied Units	11	59%	74	60%	155	57%		
JOBS Municipal Data† & e911 Data	Employment and Business Unit Data‡							
	Average Employment - Municipality						Count	
	Number of Units (Business - Private and Government)						590	
	Average Number of Workers per Unit (Business - Private and Government)						12	
	Workers Per Commercial Unit	SLR 1	SLR 3	SLR 5	SLR 7	SLR 7		
	e911 Commercial Unit Total	0	3	13	27	27		
Average Number of Workers/Jobs per Commercial Unit						326		
	N/A	36	157	326	326			