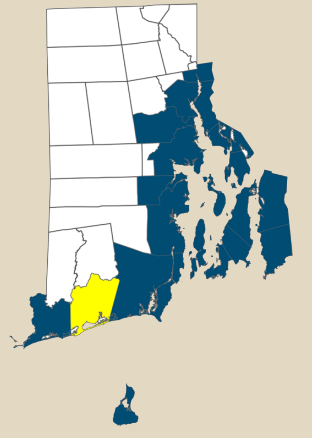


# CHARLESTOWN, RI

## 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.

### CHARLESTOWN QUICK FACTS

**7,827**  
2010 Census Population

**47.0**  
2010 Census Median Age

**\$68,904**  
2014 ACS Median Household Income

### CHARLESTOWN'S OCCUPIED RESIDENTIAL UNITS & POPULATION ESTIMATES

Charlestown is one of Rhode Island's 21 coastal communities, located east of Westerly, and south of Richmond, Rhode Island.

The Town of Charlestown has an average household size of 2.44 (2010 Census). The average household size and the percentage of occupied housing units were used to calculate a population estimate. Approximately 31% of the residential units located within SLR inundation zones 3, 5 and 7 FT. are occupied units. Residential

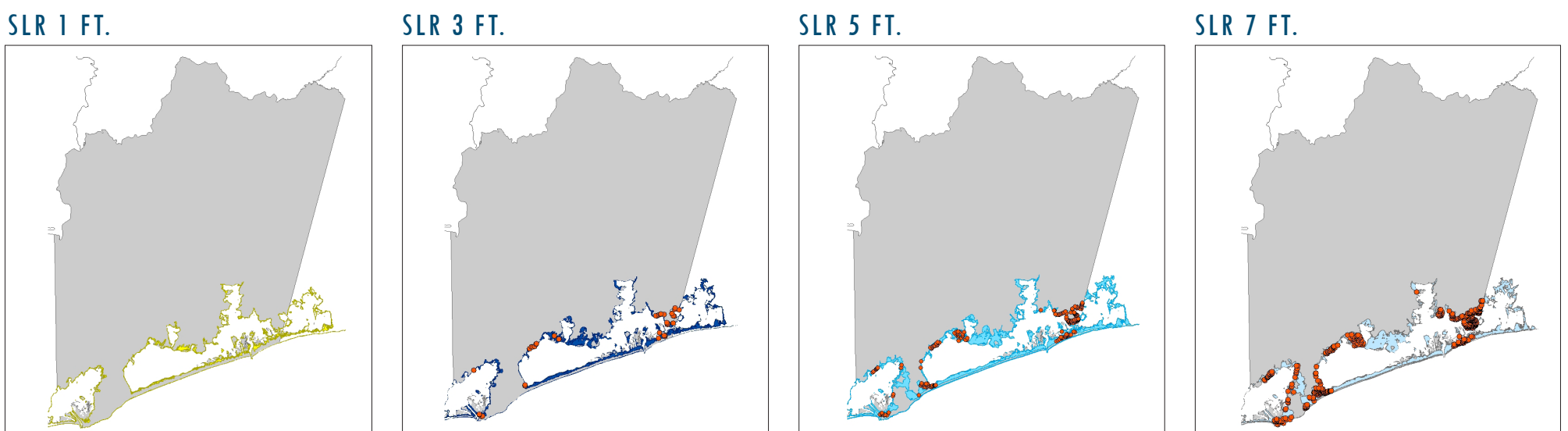
units were identified in GIS using the e-911 shapefile. All of the residential units located in each SLR inundation zone are single family units. There is a significant change between the estimated population located in the 3 and 5 FT. inundation zone, with an additional 110 people estimated in the 5 FT. zone. The 7 FT. inundation zone has the greatest population and number of residential units, with over 300 people estimated within the zone and 125 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) Charlestown Avg. HH Size)
1FT.	0	0	0
3FT.	39 SF	12 (31% occ. HU)	29
5FT.	185 SF	57 (31% occ. HU)	139
7FT.	396 SF	125 (31% occ. HU)	305



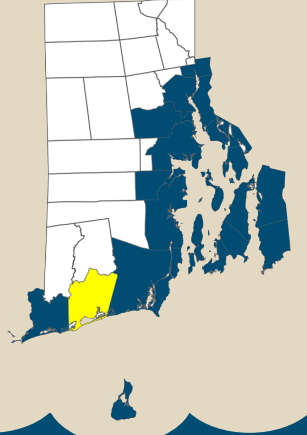
### SLR INUNDATION ZONES

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.



# CHARLESTOWN, 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: 29  
EST. OCCUPIED HOUSEHOLDS: 12

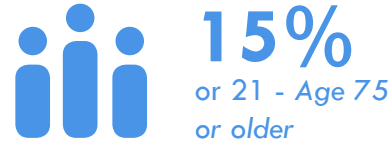
96% or 28 - White  
0% - Black  
2% or 1 - American Indian/  
Alaska Native  
0% - Asian  
0% - Hispanic  
4% - Minority



### SLR 5

EST. POPULATION: 139  
EST. OCCUPIED HOUSEHOLDS: 57

96% or 134 - White  
0% - Black  
2% or 3 - American Indian/  
Alaska Native  
0% - Asian  
0% - Hispanic  
4% or 5 - Minority



### SLR 7

EST. POPULATION: 305  
EST. OCCUPIED HOUSEHOLDS: 125

96% or 293 - White  
0.3% or 1 - Black  
2% or 5 - American Indian/  
Alaska Native  
0.3% or 1 - Asian  
0.3% or 1 - Hispanic  
4% or 13 - Minority



RACE &  
AGE

SOCIAL  
CHARACTERISTICS



0% are Individuals with Disabilities

0% are Limited English Proficiency Households

5% or 1 are Unemployed

8% or 2 are Individuals Below Poverty Level

5% or 1 Households receive SSI

0% are Individuals with Disabilities

0% are Limited English Proficiency Households

5% or 6 are Unemployed

8% or 12 are Individuals Below Poverty Level

5% or 3 Households receive SSI

0% are Individuals with Disabilities

0% are Limited English Proficiency Households

5% or 13 are Unemployed

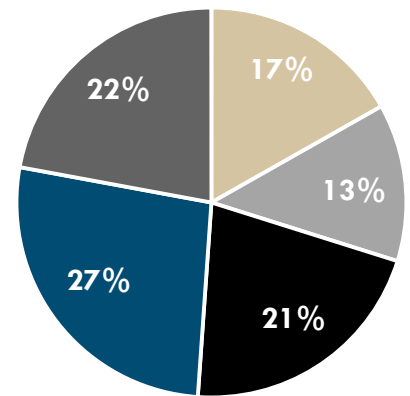
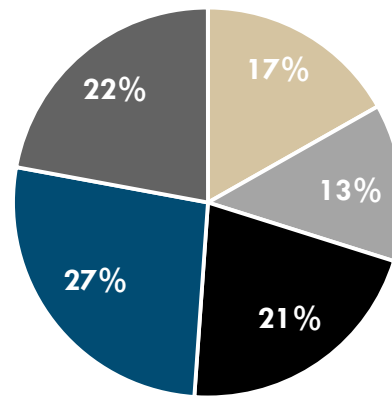
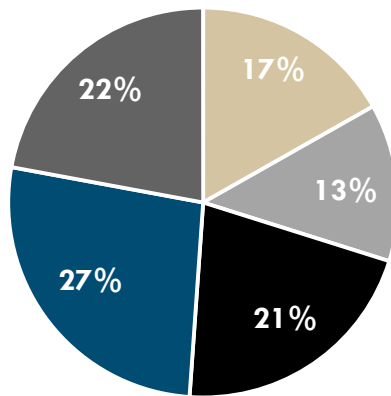
8% or 26 are Individuals Below Poverty Level

5% or 6 Households receive SSI

HOUSEHOLD  
INCOME



- In Estimated Occupied Housing Units



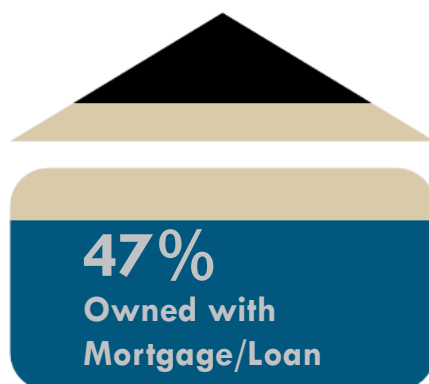
■ Less than 24,999K ■ 25,000 to 49,999 ■ 50,000 to 74,999 ■ 75,000 to 124,999 ■ 125,000 and up

HOUSEHOLD  
CHARACTERISTICS

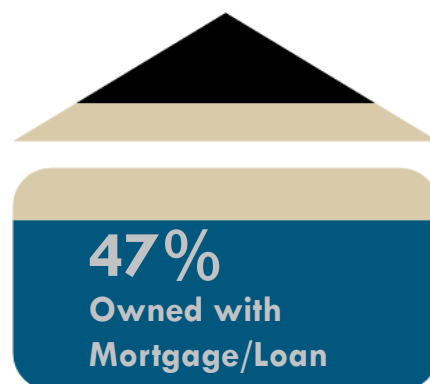


- Percent of Population in Housing Type

19% Renter Occupied  
34% Owned Outright



19% Renter Occupied  
34% Owned Outright



19% Renter Occupied  
34% Owned Outright



# CHARLESTOWN (3FT, 5FT, 7FT)\*

\*No Residential Units within 1FT SLR Scenario

Variable Name	Sea Level Rise (SLR)				Count	
	SLR 3	SLR 5	SLR 7	SLR 7 %	SLR 7	
<b>e911 Housing Unit Total</b>						
Single Family (R1) Units	39	185			396	
Multifamily (R2) Units with Calculation (*2)	0	0			0	
Mobile Home (R3) Units	0	0			0	
<b>Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)</b>	<b>39</b>	<b>185</b>			<b>396</b>	
<b>Note:</b> 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	
<b>e911 Occupied Housing Unit Calculation</b>	<b>SLR 3</b>	<b>SLR 3 %</b>	<b>SLR 5</b>	<b>SLR 5 %</b>	<b>SLR 7</b> <b>SLR 7 %</b>	
<b>Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)</b>	<b>39</b>	<b>100%</b>	<b>185</b>	<b>100%</b>	<b>396</b> <b>100%</b>	
Estimated Occupied Units - Count and Percentage	12	31%	57	31%	125 31%	
<b>Population Calculation</b>	<b>SLR 3</b>		<b>SLR 5</b>		<b>SLR 7</b>	
<b>Estimated Occupied Units</b>	<b>12</b>	<b>100%</b>	<b>57</b>	<b>100%</b>	<b>125</b> <b>100%</b>	
Population Estimate= Occupied Units (x) Municipal Avg. Household Size (2.44)		12*2.44=29		57*2.44=139	125*2.44=305	
Race/Hispanic Ethnicity	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Total Population (in Occupied Housing Units)</b>	<b>29</b>	<b>100%</b>	<b>139</b>	<b>100%</b>	<b>305</b>	<b>100%</b>
White	28	96%	134	96%	293	96%
Black or African American	0	0%	0	0%	1	0.3%
American Indian and Alaska Native	1	2%	3	2%	5	2%
Asian	0	0%	0	0%	1	0.3%
Some Other Race	0	0%	1	0.4%	1	0.4%
Hispanic	0	0%	0	0%	1	0.3%
Non-Hispanic, White Population	28	96%	134	96%	292	96%
Minority Population (Total Population minus Non-Hispanic, White Population)	1	4%	5	4%	13	4%
Age	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Total Population (in Occupied Housing Units)</b>	<b>29</b>	<b>100%</b>	<b>139</b>	<b>100%</b>	<b>305</b>	<b>100%</b>
Young Children (<5)	0	1%	2	1%	5	2%
School-Age Children (5-17)	2	8%	11	8%	22	7%
Age 18-24	2	6%	9	6%	20	7%
Age 25-44	3	11%	15	11%	36	12%
Age 45-64	10	36%	51	37%	110	36%
Age 65-74	6	22%	30	22%	64	21%
Age ≥75	4	15%	21	15%	48	16%
Population 16-64 (For Individuals with a disability variable) <sup>+</sup>	19	67%	93	67%	204	67%
Population ≥25 (For educational attainment variable)	24	84%	118	85%	258	85%
Population ≥16 (For employment variable) <sup>+</sup>	24	83%	115	83%	253	83%
Population ≥65 (For age ≥65 in group quarters variable) <sup>+</sup>	11	37%	51	37%	112	37%
Disability	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Total Population (in Occupied Housing Units, age 16-64)</b>	<b>19</b>	<b>100%</b>	<b>93</b>	<b>100%</b>	<b>204</b>	<b>100%</b>
Individuals with Disabilities	0	0%	0	0%	0	0%
Limited English Proficiency (LEP)	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Estimated Occupied Housing Units</b>	<b>12</b>	<b>100%</b>	<b>57</b>	<b>100%</b>	<b>125</b>	<b>100%</b>
Limited English Proficiency Households	0	0%	0	0%	0	0%
Educational Attainment	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Total Population (in Occupied Housing Units, age ≥25)</b>	<b>24</b>	<b>100%</b>	<b>118</b>	<b>100%</b>	<b>258</b>	<b>100%</b>
Less than a High School Diploma or Equivalent	1	5%	6	5%	13	5%
High School Diploma or GED	6	24%	28	24%	61	24%
Professional School	1	2%	3	2%	6	2%
Associate's/Bachelor's	9	35%	42	35%	91	35%
Master's/PhD	5	20%	23	20%	51	20%
Other (Some College)	3	14%	16	14%	36	14%
Employment	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Total Population (in Occupied Housing Units, age ≥16)</b>	<b>24</b>	<b>100%</b>	<b>115</b>	<b>100%</b>	<b>253</b>	<b>100%</b>
Employed	23	95%	110	95%	241	95%
Unemployed	1	5%	6	5%	13	5%
Job Industry ‡	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Total Population (age ≥16 and employed)</b>	<b>23</b>	<b>100%</b>	<b>110</b>	<b>100%</b>	<b>241</b>	<b>100%</b>
Agriculture, forestry, fishing & hunting, mining	0	1%	1	1%	3	1%
Construction	2	10%	11	10%	24	10%
Manufacturing	2	8%	8	8%	18	8%
Wholesale trade	1	3%	3	3%	6	3%
Retail trade	2	8%	9	8%	19	8%
Transportation & warehousing, utilities	1	4%	4	4%	9	4%
Information	0.3	1%	1	1%	3	1%
Finance & insurance, real estate, rental & leasing	1	5%	6	5%	13	5%
Professional, scientific, management, administrative, waste management services	2	11%	12	11%	26	11%
Educational services, health care, social assistance	6	25%	27	25%	60	25%
Arts, entertainment, recreation, accommodation & food services	2	10%	11	10%	24	10%
Other services (except public administration)	2	8%	9	8%	19	8%
Public administration	1	6%	7	6%	15	6%
Income	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Estimated Occupied Housing Units</b>	<b>12</b>	<b>100%</b>	<b>57</b>	<b>100%</b>	<b>125</b>	<b>100%</b>
Less than \$24,999K	2	17%	10	17%	21	17%
\$25,000 to 49,999	2	13%	7	13%	16	13%
\$50,000 to 74,999	3	21%	12	21%	27	21%
\$75,000 to 124,999	3	27%	15	27%	34	27%
\$125,000 and greater	3	22%	13	22%	28	22%
<b>Total Population (in Occupied Housing Units)</b>	<b>29</b>	<b>100%</b>	<b>139</b>	<b>100%</b>	<b>305</b>	<b>100%</b>
Income Below Poverty Level	2	8%	12	8%	26	8%
Income Above Poverty Level	27	92%	127	92%	279	92%
<b>Estimated Occupied Housing Units</b>	<b>12</b>	<b>100%</b>	<b>57</b>	<b>100%</b>	<b>125</b>	<b>100%</b>
With Social Security Income (SSI) Households	1	5%	3	5%	6	5%
Without Social Security Income (SSI) Households	11	95%	54	95%	119	95%
Housing Occupancy	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Total Housing Units</b>	<b>39</b>	<b>100%</b>	<b>185</b>	<b>100%</b>	<b>396</b>	<b>100%</b>
Occupied Housing Units	12	31%	57	31%	125	31%
Vacant Housing Units	27	69%	128	69%	271	69%
<b>Estimated Occupied Housing Units</b>	<b>12</b>	<b>100%</b>	<b>57</b>	<b>100%</b>	<b>125</b>	<b>100%</b>
Owner-Occupied Housing Units	10	82%	46	81%	99	80%
Renter-Occupied Housing Units	2	18%	11	19%	25	20%
<b>Total Population (in Occupied Housing Units)</b>	<b>29</b>	<b>100%</b>	<b>139</b>	<b>100%</b>	<b>305</b>	<b>100%</b>
Population in Group Quarters	0	0%	0	0%	0	0%
<b>Total Population (age ≥65)</b>	<b>11</b>	<b>100%</b>	<b>51</b>	<b>100%</b>	<b>112</b>	<b>100%</b>
Age ≥65 in Group Quarters <sup>+</sup>	0	0%	0	0%	0	0%
Housing Tenure*	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %
<b>Total Population (in Occupied Housing Units)</b>	<b>29</b>	<b>100%</b>	<b>139</b>	<b>100%</b>	<b>305</b>	<b>100%</b>
Population in Property Owned with mortgage or loan	14	47%	66	47%	144	47%
Population in Property Owned free and clear	10	34%	47	34%	104	34%
Population in Renter-Occupied Units	5	19%	26	19%	57	19%
Employment and Business Unit Data‡					Count	
<b>Average Employment - Municipality</b>					<b>1550</b>	
<b>Number of Units (Business - Private and Government)</b>					<b>234</b>	
<b>Average Number of Workers per Unit (Business - Private and Government)</b>					<b>7</b>	
Workers Per Commercial Unit	SLR 1	SLR 3	SLR 5	SLR 7	SLR 7	
e911 Commercial Unit Total	0	1	1	1	3	
Average Number of Workers/Jobs per Commercial Unit	N/A	7	7	7	20	

HOUSING UNITS & POPULATION

DEMOGRAPHIC

SOCIAL

ECONOMIC

HOUSING

JOBS