

# PORTSMOUTH, 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.

#### PORTSMOUTH QUICK FACTS

17,389

2010 Census Population

44.8

2010 Census Median Age

\$77,483

2014 ACS Median Household Income

# PORTSMOUTH'S OCCUPIED RESIDENTIAL UNITS & POPULATION ESTIMATES

Portsmouth is one of Rhode Island's 21 coastal communities, and one of three municipalities which comprise Aquidneck Island in Newport County, Rhode Island.

The Town of Portsmouth 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 per scenario. Approximately 67-70% of the residential units located within SLR inundation

SLR Inundation zone	Residential Units	Occupied Unit calculation (Total Units (x) Occ. Housing Unit Rate in SLR zone)	Population calculation (Occupied Units (x) Portsmouth Avg. HH Size)		
1FT.	0	0	0		
	11 SF, 2	9			
3FT.	Mobile	(67% occ. HU)	22		
	92 SF, 11	71			
5FT.	Mobile	(69% occ. HU)	173		
	202 SF,				
	1 MF, 13	151			
7FT.	Mobile	(70% occ. HU)	368		

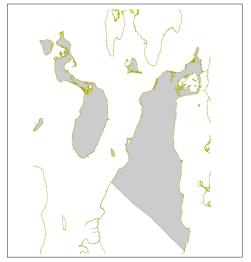
zones 3, 5 and 7 FT. are occupied units. Single family, multi-family, and mobile home residential units were identified in GIS using the e-911 shapefile. The majority of the residential units located in the SLR inundation zones are single family units. There is a significant change between the estimated population located in the 3 and 5 FT. inundation zone, with an additional 151 people estimated in the 5 FT. zone. The 7 FT. inundation zone has the greatest population and number of residential units, with 368 people estimated within the zone and 151 occupied residential units.



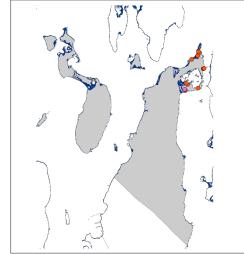
### SLR INUNDATION ZONES

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. Purple points signify mobile home units.

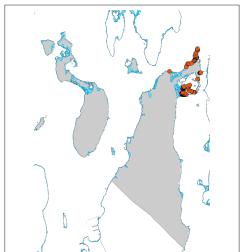
SLR 1 FT.



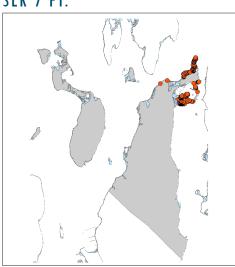
SLR 3 FT.



SLR 5 FT.



SLR 7 FT.





### 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: 22

96% or 21 - White 1% or 0.2% - Black **0**% - American Indian/ Alaska Native 1% or 0.3 - Asian **2% or 0.4** - Hispanic

5% or 1 - Minority

EST. OCCUPIED HOUSEHOLDS: 9

or 2 - Age 75 or

### SLR 5

EST. POPULATION: 173 EST. OCCUPIED HOUSEHOLDS: 71

96% or 166 - White 1% or 2 - Black **0**% - American Indian/ Alaska Native 1% or 2 - Asian 2% or 3 - Hispanic 5% or 9 - Minority

or 13 - Age 75

SLR 7

EST. POPULATION: 368 EST. OCCUPIED HOUSEHOLDS: 151

96% or 352 - White 1% or 4 - Black **0.3% or 1** - American Indian/Alaska Native 1% or 4 - Asian 2% or 7 - Hispanic

6% or 21 - Minority



or 26 - Age 75



SOCIAL CHARACTERISTIC

HOUSEHOLD

**8% or 1** are Individuals with **Disabilities** 

2% or 0.2 are Limited English **Proficiency Households** 

9% or 2 are Unemployed

9% or 2 are Individuals Below Poverty Level

3% or 0.3 Households receive SSI

8% or 9 are Individuals with **Disabilities** 

2% or 1 are Limited English **Proficiency Households** 

9% or 13 are Unemployed

9% or 15 are Individuals **Below Poverty Level** 

3% or 2 Households receive SSI

9% or 20 are Individuals with **Disabilities** 

2% or 3 are Limited English **Proficiency Households** 

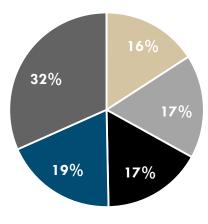
9% or 26 are Unemployed

8% or 30 are Individuals **Below Poverty Level** 

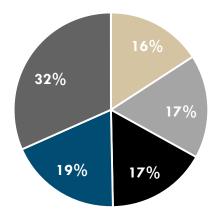
4% or 6 Households receive SSI



- In Estimated Occupied Housing Units

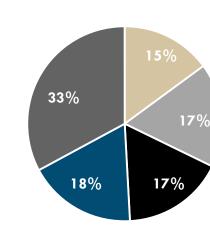


**25,000** to 49,999



■ 50,000 to 74,999

23% Renter Occupied



■ 75,000 to 124,999

■ Less than 24,999K

- Percent of Population in Housing Type

23% Renter Occupied 16% Owned Outright

16% Owned Outright

24% Renter Occupied

■ 125,000 and up

17% Owned Outright



60% **Owned with** Mortgage/Loan

60% **Owned with** Mortgage/Loan **59**% **Owned with** Mortgage/Loan

	Variable Name	Sea Level Rise (SLR)			Count			
ω Z Σ	e911 Housing Unit Total Single Family (R1) Units		SLR 3		SLR 5 92		SLR 7 202	
HOUSING UNITS POPULATIO	Multifamily (R2) Units with Calculation (*2) Mobile Home (R3) Units	0 2			0 11	1*2= <b>2</b> 13		
5 3	Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)	13		103		217		
S G O	Note: Multifamily unit totals are multiplied by 2 based on the presumption that there are a minimum of two unit Variable Name	ls are multiplied by 2 based on the presumption that there are a minimum of two units within each multifamily e911point						
JSII	e911 Housing Unit Calculation SLR 3 SLR 3 % SLR 5 SLR 5 % SLR							
No.	Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)  Estimated Occupied Units - Count and Percentage	13	1 <b>00</b> % 67%	<b>103</b> 71	1 <b>00</b> %	<b>217</b> 151	1 <b>00</b> %	
Τ.	Population Calculation		SLR 3		SLR 5		SLR 7	
	Estimated Occupied Units  Population Estimate= Occupied Units (x) Municipal Avg. Household Size (2.49)	9	100% 9*2.44= <b>22</b>	<b>71</b> 71	100% *2.44=1 <b>73</b>	151 151	100% *2.44=368	
<u>U</u> #	Race/Hispanic Ethnicity	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
PH J. dho	Total Population (in Occupied Housing Units) White	<b>22</b> 21	1 <b>00%</b> 96%	<b>173</b> 166	1 <b>00</b> % 96%	<b>368</b> 352	1 <b>00</b> %	
DEMOGRAPHIC Block level and Block Group" Date	Black or African American American Indian and Alaska Native	0.2	1% 0%	2	1% 0%	4 1	1% 0.3%	
	Asian	0.3	1%	2	1%	4	1%	
	Some Other Race Hispanic	0 0.4	0% 2%	1	0.3% 2%	1 7	0.4% 2%	
	Non-Hispanic, White Population	21	95%	164	95%	347	94%	
	Minority Population (Total Population minus Non-Hispanic, White Population)  Age	1 SLR 3	5% SLR 3 %	9 SLR 5	5% SLR 5 %	21 SLR 7	6% SLR 7 %	
	Total Population (in Occupied Housing Units)	22	100%	173	100%	368	100%	
	Young Children (<5) School-Age Children (5-17)	1 4	4% 18%	7 30	4% 17%	13 61	4% 17%	
	Age 18-24 Age 25-44	1 4	6% 18%	11 33	6% 1 <i>9</i> %	40 66	11% 18%	
	Age 45-64	8	37%	63	36%	127	35%	
	Age 65-74 Age ≥75	2 2	10% 8%	1 <i>7</i> 13	10% 7%	35 26	10% 7%	
	Population 16-64 (For Individuals with a disability variable) <sup>+</sup>	14	62%	107	62%	227	62%	
	Population ≥25 (For educational attainment variable)  Population ≥16 (For employment variable) <sup>+</sup>	16 18	73% 81%	125 141	73% 81%	254 299	69% 81%	
	Population ≥65 (For age ≥65 in group quarters variable) <sup>+</sup>	2	9%	30	17%	61	17%	
SOCIAL Block Group Data	Disability Total Population (in Occupied Housing Units, age 16-64)	SLR 3 14	SLR 3 % 100%	SLR 5 107	SLR 5 % 100%	SLR 7 227	SLR 7 % 100%	
Group	Individuals with Disabilities Limited English Proficiency (LEP)	1 SLR 3	8% SLR 3 %	9 SLR 5	8% SLR 5 %	20 SLR 7	9% SLR 7 %	
S S	Estimated Occupied Housing Units	9	100%	71	100%	151	100%	
	Limited English Proficiency Households  Educational Attainment	0.2 SLR 3	2% SLR 3 %	SLR 5	2% SLR 5 %	3 SLR 7	2% SLR 7 %	
	Total Population (in Occupied Housing Units, age ≥25)	16	100%	125	100%	254	100%	
	Less than a High School Diploma or Equivalent High School Diploma or GED	1	7% 23%	8 29	7% 23%	16 59	6% 23%	
	Professional School Associate's/Bachelor's	1 5	3% 34%	4 42	3% 34%	8 88	3% 34%	
	Master's/PhD	3	17%	22	17%	45	18%	
() #	Other (Some College) Employment	3 SLR 3	16% SLR 3 %	20 SLR 5	16% SLR 5 %	39 SLR 7	15% SLR 7 %	
MIC   Date	Total Population (in Occupied Housing Units, age ≥16)	18	100%	141	100%	299	100%	
CONOMIC Municipal Level Data	Employed Unemployed	16 2	89% 9%	125 13	89% 9%	269 26	90% 9%	
O unicip	Job Industry ‡ Total Population (age ≥16 and employed)	SLR 3 16	SLR 3 %	SLR 5 125	SLR 5 % 100%	SLR 7 269	SLR 7 % 100%	
EC Block Group Data and M	Agriculture, forestry, fishing & hunting, mining	0	0%	0	0%	1	0.3%	
	Construction Manufacturing	1	5% 9%	6 11	5% 9%	14 23	5% 9%	
	Wholesale trade	0.2	1%	2	1%	4	1%	
lock O	Retail trade Transportation & warehousing, utilities	2 0.4	10% 2%	12 3	10% 2%	26 6	10% 2%	
	Information Finance & insurance, real estate, rental & leasing	0.2	1% 7%	2 8	1% 7%	4 18	1% 7%	
	Professional, scientific, management, administrative, waste management services	2	14%	17	14%	37	14%	
	Educational services, health care, social assistance Arts, entertainment, recreation, accommodation & food services	4 2	26% 12%	33 15	26% 12%	71 32	26% 12%	
	Other services (except public administration)	1	5%	6	5%	14	5%	
	Public administration Income	SLR 3	8% SLR 3 %	10 SLR 5	8% SLR 5 %	21 SLR 7	8% SLR 7 %	
	Estimated Occupied Housing Units Less than \$24,999K	<b>9</b> 1	100% 16%	<b>71</b> 11	100% 16%	1 <b>51</b> 23	100% 15%	
	\$25,000 to 49,999	2	17%	12	17%	26	17%	
	\$50,000 to 74,999 \$75,000 to 124,999	1 2	17% 19%	12 13	17% 19%	26 27	17% 18%	
	\$125,000 and greater	3	32%	22	32%	50	33%	
	Total Population (in Occupied Housing Units) Income Below Poverty Level	<b>22</b> 2	100% 9%	<b>173</b> 15	1 <b>00</b> %	<b>368</b> 30	100% 8%	
	Income Above Poverty Level	20	91%	158	91%	338	92%	
	Estimated Occupied Housing Units With Social Security Income (SSI) Households	<b>9</b> 0.3	100% 3%	<b>71</b> 2	1 <b>00</b> % 3%	1 <b>51</b> 6	100% 4%	
<b>√</b>	Without Social Security Income (SSI) Households Housing Occupancy	9 SLR 3	97% SLR 3 %	69 SLR 5	97% SLR 5 %	145 SLR 7	96% SLR 7 %	
HOUSING Beck level and Block Group' Data	Total Housing Units	13	100%	103	100%	217	100%	
	Occupied Housing Units Vacant Housing Units	9	67% 33%	71 32	69% 31%	151 66	70% 30%	
	Estimated Occupied Housing Units	9	100%	71	100%	151	100%	
	Owner-Occupied Housing Units Renter-Occupied Housing Units	7 2	78% 22%	55 16	78% 22%	118 33	78% 22%	
	Total Population (in Occupied Housing Units) Population in Group Quarters	<b>22</b> 0	100% 0%	<b>173</b> 0	100% 0%	<b>368</b> 19	100% 5%	
	Total Population (age ≥65)	2	100%	30	100%	61	100%	
	Age ≥65 in Group Quarters <sup>+</sup> Housing Tenure <sup>†</sup>	0 SLR 3	0% SLR 3 %	0 SLR 5	0% SLR 5 %	5 SLR 7	8% SLR 7 %	
	Total Population (in Occupied Housing Units)	22	100%	173	100%	368	100%	
	Population in Property Owned with mortgage or loan Population in Property Owned free and clear	13 4	60% 16%	104 29	60% 16%	216 64	59% 17%	
V) « º	Population in Renter-Occupied Units Employment and Business Unit Data‡	5	23%	41	23%	88	24% Count	
JOBS oal Data‡ & e911 Data	Average Employment - Municipality						5742	
cipal [	Number of Units (Business - Private and Government)  Average Number of Workers per Unit (Business - Private and Government)						530 11	
Wun	Workers Per Commercial Unit e911 Commercial Unit Total		SLR 3		SLR 5		SLR 7	
	Average Number of Workers/Jobs per Commercial Unit		11		65		119	