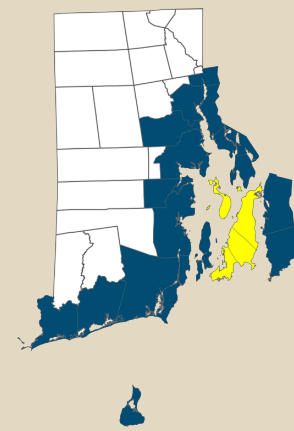


AQUIDNECK ISLAND, RI

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.

AQUIDNECK ISLAND QUICK FACTS

58,211

2010 Census Population

41.3

2010 Census Median Age

\$69,682

2014 ACS Median Household Income

AQUIDNECK ISLAND'S OCCUPIED RESIDENTIAL UNITS & POPULATION ESTIMATES

Aquidneck Island comprises three of Rhode Island's coastal communities: Portsmouth, Middletown and Newport, Rhode Island.

The three communities of Aquidneck Island have a calculated household size of 2.15-2.19 residents per housing unit. The calculated household size and the percentage of occupied housing units were used to calculate a population estimate. Approximately 63-71% of the residential units

located within SLR inundation zones 3, 5 and 7 FT. are occupied units. Single family (SF), multi-family (MF) and mobile home 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 zones, with an additional 525 people estimated in the 5 FT. zone. The 7 FT. inundation zone has the greatest population and number of homes, with 1194 people estimated within the zone and 556 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) Aquidneck Island Calculated. HH Size)
1 FT.	0	0	0
3 FT.	19 SF, 6 MF, 2 Mobile	21 (63% occ. HU)	46
5 FT.	255 SF, 62 MF, 11 Mobile	266 (68% occ. HU)	571
7 FT.	515 SF, 129 MF, 13 Mobile	556 (71% occ. HU)	1194

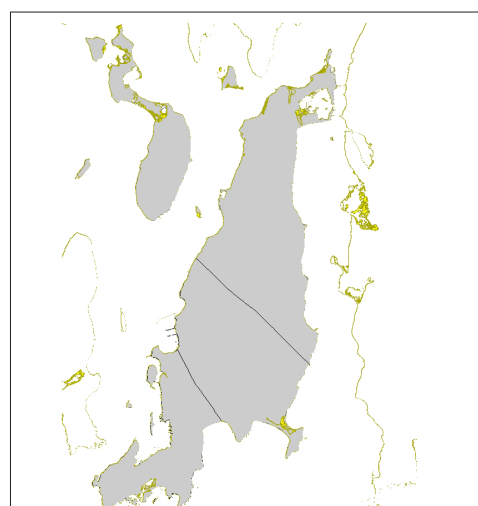


Island Park Beach, Portsmouth RI
Sept. 2015 King Tide, Photo Courtesy of Mycoast.org,
submitted by Thurston Gray

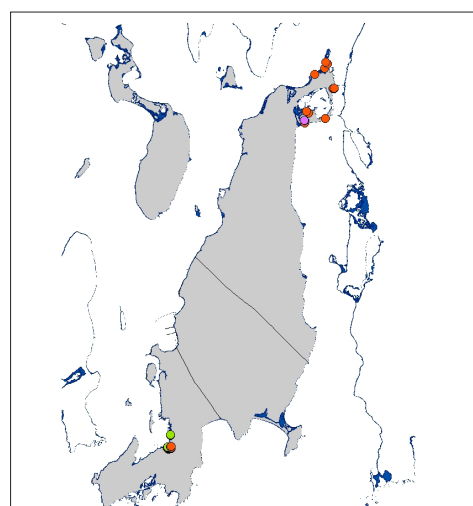
SLR INUNDATION ZONES

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.

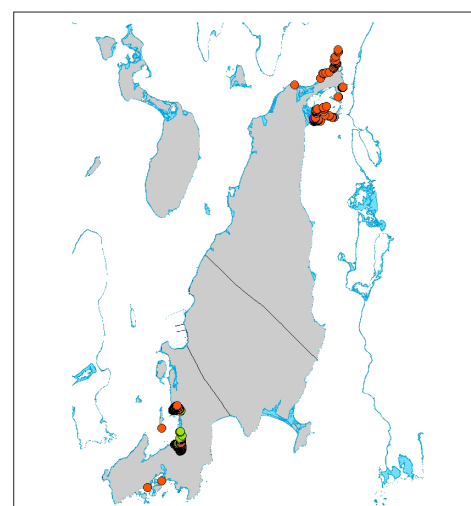
SLR 1 FT.



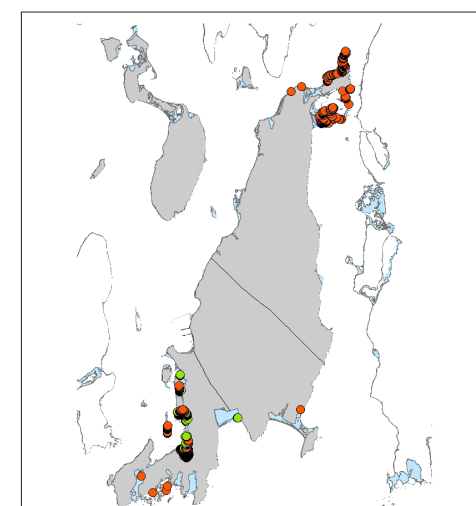
SLR 3 FT.



SLR 5 FT.

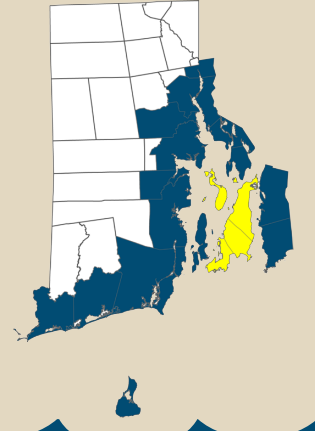


SLR 7 FT.



AQUIDNECK ISLAND, 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: 46
EST. OCCUPIED HOUSEHOLDS: 21


89% or 41 - White
5% or 2 - Black
1% or 0.3 - American Indian/
Alaska Native
2% or 1 - Asian
5% or 2 - Hispanic
14% or 6 - Minority

 **7%**
or 3 - Age 75 or older

SLR 5

EST. POPULATION: 571
EST. OCCUPIED HOUSEHOLDS: 266


86% or 491 - White
5% or 30 - Black
1% or 4 - American Indian/
Alaska Native
2% or 9 - Asian
7% or 41 - Hispanic
17% or 99 - Minority

 **7%**
or 37 - Age 75 or older

SLR 7

EST. POPULATION: 1194
EST. OCCUPIED HOUSEHOLDS: 556

87% or 1038 - White
5% or 61 - Black
1% or 7 - American Indian/
Alaska Native
2% or 20 - Asian
7% or 78 - Hispanic
16% or 193 - Minority

 **6%**
or 74 - Age 75 or older

RACE &
AGE

SOCIAL
CHARACTERISTICS

HOUSEHOLD
INCOME

HOUSEHOLD
CHARACTERISTICS



8% or 2 are Individuals with Disabilities

2% or 0.4 are Limited English Proficiency Households

8% or 3 are Unemployed

12% or 5 are Individuals Below Poverty Level

6% or 1 Households receive SSI

8% or 31 are Individuals with Disabilities

2% or 5 are Limited English Proficiency Households

7% or 35 are Unemployed

12% or 70 are Individuals Below Poverty Level

7% or 19 Households receive SSI

8% or 63 are Individuals with Disabilities

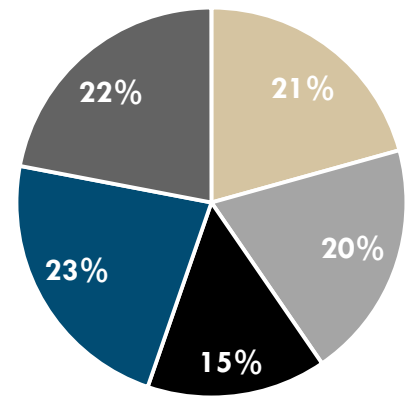
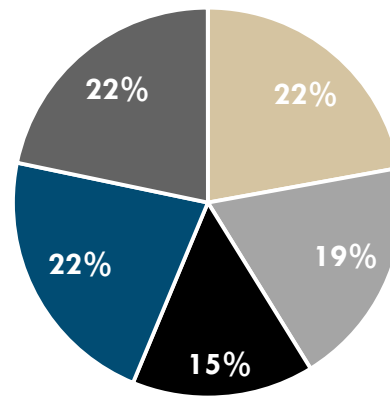
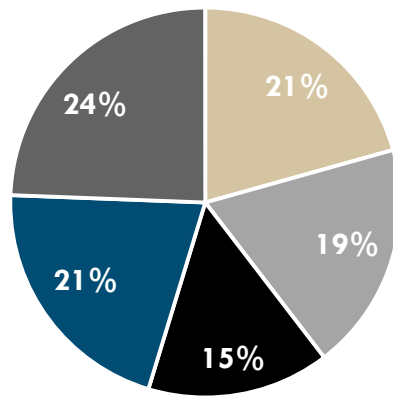
2% or 10 are Limited English Proficiency Households

7% or 69 are Unemployed

11% or 134 are Individuals Below Poverty Level

7% or 37 Households receive SSI

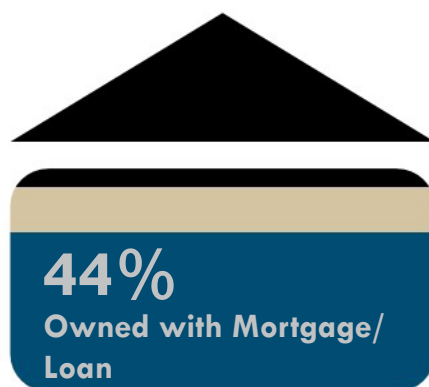
- In Estimated Occupied Housing Units



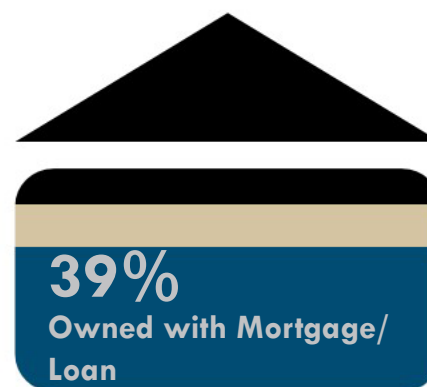
■ Less than 24,999K ■ 25,000 to 49,999 ■ 50,000 to 74,999 ■ 75,000 to 124,999 ■ 125,000 and up

- Percent of Population in Housing Type

42% Renter Occupied
14% Owned Outright



49% Renter Occupied
12% Owned Outright



47% Renter Occupied
13% Owned Outright



AQUIDNECK ISLAND (3FT, 5FT, 7FT)*

*No Residential Units within 1FT SLR Scenario

Variable Name		Sea Level Rise (SLR)				Count
HOUSING UNITS & POPULATION	e911 Housing Unit Total	SLR 3		SLR 5		SLR 7
	Single Family (R1) Units	19		255		515
	Multifamily (R2) Units with Calculation (*2)	6*2=12		62*2=124		129*2=258
	Mobile Home (R3) Units	2		11		13
	Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)	33		390		786
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		Count & Percentage				
DEMOGRAPHIC <small>Block Level and Block Group Data</small>	e911 Housing Unit Calculation	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7
	Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)	33	100%	390	100%	786
	Estimated Occupied Units - Count and Percentage	21	63%	266	68%	556
	Population Calculation	SLR 3		SLR 5		SLR 7
	Estimated Occupied Units	21	100%	266	100%	556
	Population Estimate= Occupied Units (x) RI 21 Coastal Avg. Household Size	21*2.19=46		266*2.15=571		556*2.15=1194
	Race/Hispanic Ethnicity	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7
	Total Population (in Occupied Housing Units)	46	100%	571	100%	1194
	White	41	89%	491	86%	1038
	Black or African American	2	5%	30	5%	61
	American Indian and Alaska Native	0.3	1%	4	1%	7
	Asian	1	2%	9	2%	20
	Some Other Race	1	1%	15	3%	26
	Hispanic	2	5%	41	7%	78
	Non-Hispanic, White Population	40	86%	472	83%	1001
Minority Population (Total Population minus Non-Hispanic, White Population)	6	14%	99	17%	193	
Age	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	
Total Population (in Occupied Housing Units)	46	100%	571	100%	1194	
Young Children (<5)	2	4%	31	5%	59	
School-Age Children (5-17)	7	15%	79	14%	149	
Age 18-24	5	10%	60	11%	147	
Age 25-44	11	23%	145	25%	328	
Age 45-64	15	32%	166	29%	335	
Age 65-74	4	9%	52	9%	102	
Age ≥75	3	7%	37	7%	74	
Population 16-64 (For Individuals with a disability variable) ⁺	31	67%	395	69%	825	
Population ≥25 (For educational attainment variable)	33	72%	401	70%	839	
Population ≥16 (For employment variable) ⁺	39	84%	487	85%	1018	
Population ≥65 (For age ≥65 in group quarters variable) ⁺	6	12%	90	16%	176	
Disability	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	
Total Population (in Occupied Housing Units, age 16-64)	31	100%	395	100%	825	
Individuals with Disabilities	2	8%	31	8%	63	
Limited English Proficiency (LEP)	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	
Estimated Occupied Housing Units	21	100%	266	100%	556	
Limited English Proficiency Households	0.4	2%	5	2%	10	
Educational Attainment	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	
Total Population (in Occupied Housing Units, age ≥25)	33	100%	401	100%	839	
Less than a High School Diploma or Equivalent	2	8%	33	8%	66	
High School Diploma or GED	7	21%	88	22%	183	
Professional School	1	4%	14	3%	26	
Associate's/Bachelor's	11	34%	131	33%	277	
Master's/PhD	6	18%	69	17%	147	
Other (Some College)	5	17%	66	16%	139	
Employment	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	
Total Population (in Occupied Housing Units, age ≥16)	39	100%	487	100%	1018	
Employed	32	82%	399	82%	844	
Unemployed	3	8%	35	7%	69	
Job Industry †	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	
Total Population (age ≥16 and employed)	32	100%	399	100%	844	
Agriculture, forestry, fishing & hunting, mining	0	0%	1	0%	2	
Construction	1	5%	17	4%	37	
Manufacturing	2	8%	28	7%	60	
Wholesale trade	0	1%	6	1%	12	
Retail trade	3	10%	40	10%	84	
Transportation & warehousing, utilities	1	2%	9	2%	19	
Information	0	1%	6	1%	12	
Finance & insurance, real estate, rental & leasing	2	6%	25	6%	54	
Professional, scientific, management, administrative, waste management services	4	13%	53	13%	113	
Educational services, health care, social assistance	8	25%	98	24%	207	
Arts, entertainment, recreation, accommodation & food services	5	16%	72	18%	152	
Other services (except public administration)	1	5%	18	4%	38	
Public administration	2	7%	26	6%	55	
Income	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	
Estimated Occupied Housing Units	21	100%	266	100%	555	
Less than \$24,999K	4	21%	59	22%	115	
\$25,000 to 49,999	4	19%	51	19%	110	
\$50,000 to 74,999	3	15%	40	15%	82	
\$75,000 to 124,999	4	21%	59	22%	126	
\$125,000 and greater	5	24%	58	22%	122	
Total Population (in Occupied Housing Units)	46	100%	571	100%	1194	
Income Below Poverty Level	5	12%	70	12%	134	
Income Above Poverty Level	41	88%	501	88%	1060	
Estimated Occupied Housing Units	21	100%	266	100%	555	
With Social Security Income (SSI) Households	1	6%	19	7%	37	
Without Social Security Income (SSI) Households	20	94%	247	93%	518	
Housing Occupancy	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	
Total Housing Units	33	100%	390	100%	786	
Occupied Housing Units	21	63%	266	68%	556	
Vacant Housing Units	12	37%	124	32%	230	
Estimated Occupied Housing Units	21	100%	266	100%	555	
Owner-Occupied Housing Units	12	59%	136	51%	308	
Renter-Occupied Housing Units	8	40%	131	49%	248	
Total Population (in Occupied Housing Units)	46	100%	571	100%	1194	
Population in Group Quarters	3	6%	24	4%	138	
Total Population (age ≥65)	6	100%	90	100%	176	
Age ≥65 in Group Quarters ⁺	0	7%	5	6%	13	
Housing Tenure*	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	
Total Population (in Occupied Housing Units)	46	100%	571	100%	1194	
Population in Property Owned with mortgage or loan	20	44%	222	39%	482	
Population in Property Owned free and clear	6	14%	71	12%	155	
Population in Renter-Occupied Units	19	42%	278	49%	557	
Employment and Business Unit Data‡	Count					
Average Employment - Municipality	34096					
Number of Units (Business - Private and Government)	2565					
Average Number of Workers per Unit (Business - Private and Government)	13					
Workers Per Commercial Unit	SLR 1	SLR 3	SLR 5	SLR 7		
e911 Commercial Unit Total	3	24	109	207		
Average Number of Workers/Jobs per Commercial Unit	40	319	1449	2752		

Variable Name		Count			
HOUSING <small>Block Level and Block Group Data</small>	Total Housing Units	33	100%	390	100%
	Occupied Housing Units	21	63%	266	68%
	Vacant Housing Units	12	37%	124	32%
	Estimated Occupied Housing Units	21	100%	266	100%
	Owner-Occupied Housing Units	12	59%	136	51%
Total Population (in Occupied Housing Units)	46	100%	571	100%	
Population in Group Quarters	3	6%	24	4%	
Total Population (age ≥65)	6	100%	90	100%	
Age ≥65 in Group Quarters ⁺	0	7%	5	6%	
Housing Tenure*	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7
Total Population (in Occupied Housing Units)	46	100%	571	100%	1194
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Workers Per Commercial Unit	SLR 1	SLR 3	SLR 5	SLR 7	
e911 Commercial Unit Total	3	24	109	207	
Average Number of Workers/Jobs per Commercial Unit	40	319	1449	2752	

Variable Name		Count				
JOBS <small>Municipal Data† & e911 Data</small>	Average Employment - Municipality	34096				
	Number of Units (Business - Private and Government)	2565				
	Average Number of Workers per Unit (Business - Private and Government)	13				
	Workers Per Commercial Unit	SLR 1	SLR 3	SLR 5	SLR 7	
	e911 Commercial Unit Total	3	24	109	207	
Average Number of Workers/Jobs per Commercial Unit	40	319	1449	2752		