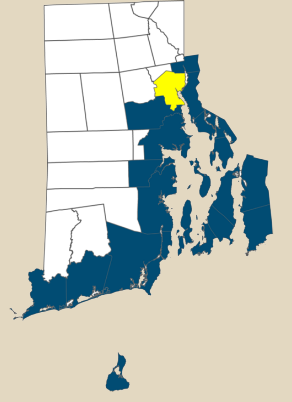


PROVIDENCE, RI

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.

PROVIDENCE QUICK FACTS

178,042

2010 Census Population

28.5

2010 Census Median Age

\$37,514

2014 ACS Median Household Income

PROVIDENCE'S OCCUPIED RESIDENTIAL UNITS & POPULATION ESTIMATES

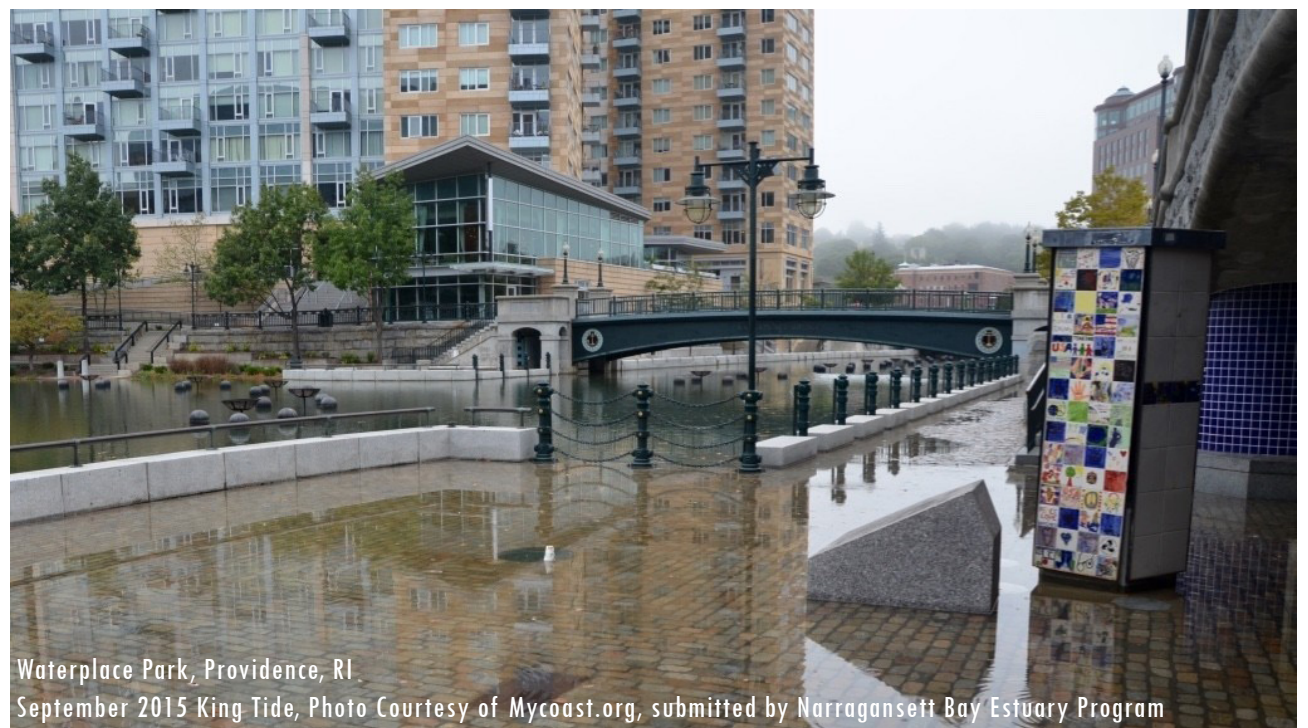
Providence, the state's capital, is one of Rhode Island's 21 coastal communities. Providence is situated south of Pawtucket and north of Cranston.

The City of Providence has an average household size of 2.69 (2010 Census). The average household size and the percentage of occupied housing units were used to calculate a population estimate.

Approximately 85% of the residential units located within the 7 FT. SLR inundation zone are

occupied units. Residential units were identified in GIS using the e-911 shapefile. Two multi-family residential units were identified in the 7 FT. inundation zone. Multifamily units were multiplied by 2 due to the presumption that there are a minimum of two units in each multifamily. Of the four total housing units, an estimated 3 are occupied with a population of 8 within the zone.

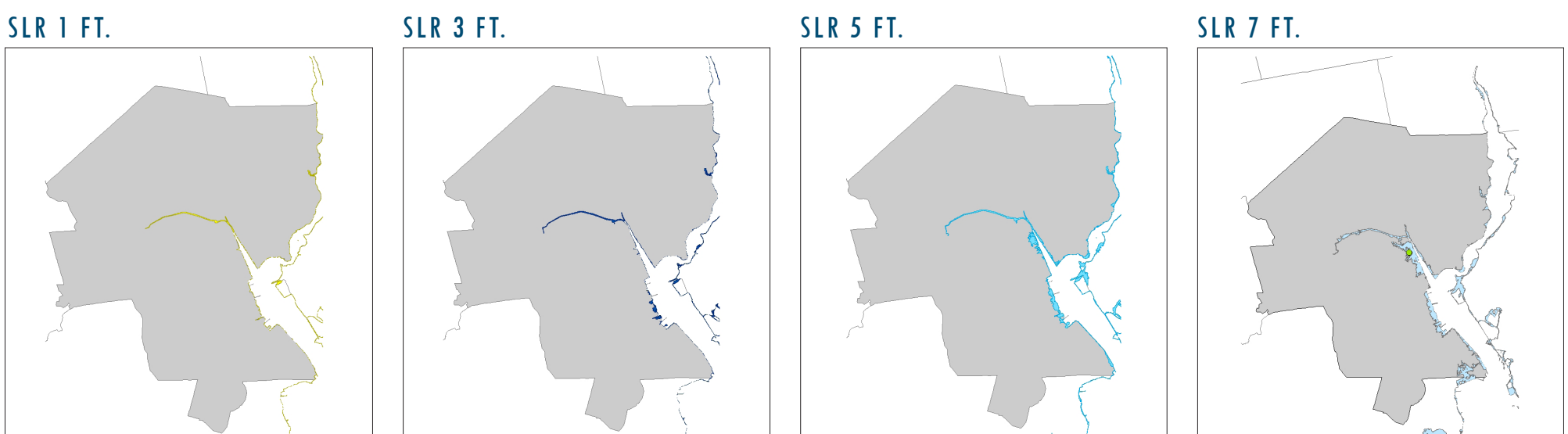
SLR Inundation zone	Residential Units	Occupied Unit calculation (Total Units (x) Occ. Housing Unit Rate in SLR zone)	Population calculation (Occupied Units (x) Middletown Avg. HH Size)
1FT.	0	0	0
3FT.	0	0	0
5FT.	0	0	0
7FT.	2 MF	3 (85% occ. HU)	8



Waterplace Park, Providence, RI
September 2015 King Tide, Photo Courtesy of Mycoast.org, submitted by Narragansett Bay Estuary Program

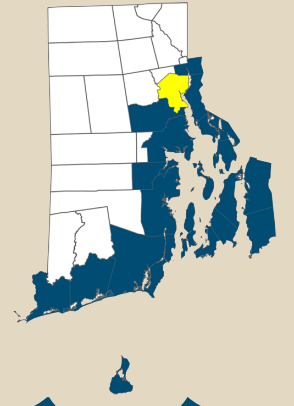
SLR INUNDATION ZONES

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.



PROVIDENCE, RI

SOCIOECONOMICS OF SEA LEVEL RISE COASTAL FACTSHEET



SLR 1, 3 & 5

EST. POPULATION: 0
EST. OCCUPIED HOUSEHOLDS: 0

There were zero residential units located within the e-911 shapefile in the 1, 3 and 5 FT. SLR inundation scenarios. Please note, a zero value does not imply that zero people or structures will be impacted in the aforementioned scenarios.



Fox Point, Providence, RI
October 2015 King Tide, Photo Courtesy of Mycoast.org, submitted by Janet Freedman



Downtown Providence, Providence, RI
October 2014 King Tide, Photo Courtesy of Mycoast.org, submitted by James Boyd



Downtown Providence - Waterplace Park, Providence, RI
September 2015 King Tide, Photo Courtesy of Mycoast.org, submitted by Narragansett Bay Estuary Program

SLR 7

EST. POPULATION: 8
EST. OCCUPIED HOUSEHOLDS: 3

71% or 6 - White
10% or 1 - Black
1% or 0.05 - American Indian/Alaska Native
10% or 1 - Asian
2% or 0.2 - Hispanic
7% or 1 - Minority

8%
or 1 - Age 75 or older

9% or 1 are Individuals with Disabilities

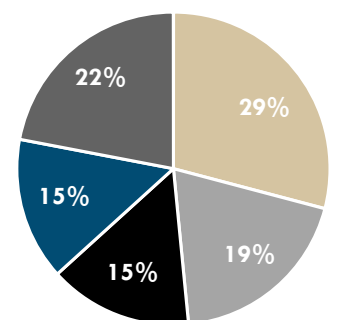
9% or 0.3 are Limited English Proficiency Households

9% or 1 are Unemployed

8% or 1 are Individuals Below Poverty Level

8% or 0.2 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

63% Renter Occupied

10% Owned Outright



RACE &
AGE

SOCIAL
CHARACTERISTICS

HOUSEHOLD
INCOME

HOUSEHOLD
CHARACTERISTICS

PROVIDENCE (7FT)*

*No Residential Units within 1FT, 3FT or 5FT SLR Scenario

Sea Level Rise (SLR)

Variable Name		Count				
HOUSING UNITS & POPULATION	e911 Housing Unit Total	SLR 7		SLR 7		
	Single Family (R1) Units			0		
	Multifamily (R2) Units with Calculation (*2)			2*2=4		
	Mobile Home (R3) Units			0		
	Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)			4		
	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			
	e911 Occupied Housing Unit Calculation	SLR 7		SLR 7 %		
	Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)	4		100%		
	Estimated Occupied Units - Count and Percentage	3		85%		
Population Calculation		SLR 7		SLR 7		
Estimated Occupied Units	3		100%			
Population Estimate= Occupied Units (x) Municipal Avg. Household Size (2.69)			3*2.69=8			
DEMOGRAPHIC <small>Block Level and Block Group Data</small>	Race/Hispanic Ethnicity	SLR 7		SLR 7 %		
	Total Population (in Occupied Housing Units)	8		100%		
	White	6		71%		
	Black or African American	1		10%		
	American Indian and Alaska Native	0.05		1%		
	Asian	1		10%		
	Some Other Race	0.4		5%		
	Hispanic	0.2		2%		
	Non-Hispanic, White Population	7		93%		
	Minority Population (Total Population minus Non-Hispanic, White Population)	1		7%		
SOCIAL <small>Block Group Data</small>	Age	SLR 7		SLR 7 %		
	Total Population (in Occupied Housing Units)	8		100%		
	Young Children (<5)	0.1		1%		
	School-Age Children (5-17)	0.3		3%		
	Age 18-24	5		63%		
	Age 25-44	1		15%		
	Age 45-64	1		8%		
	Age 65-74	0.2		2%		
	Age ≥75	1		8%		
	Population 16-64 (For Individuals with a disability variable) [†]	6		72%		
ECONOMIC <small>Block Group Data and Municipal Level Data†</small>	Disability	SLR 7		SLR 7 %		
	Total Population (in Occupied Housing Units, age 16-64)	6		100%		
	Individuals with Disabilities	1		9%		
	Limited English Proficiency (LEP)	SLR 7		SLR 7 %		
	Estimated Occupied Housing Units	3		100%		
	Limited English Proficiency Households	0.3		9%		
	Educational Attainment	SLR 7		SLR 7 %		
	Total Population (in Occupied Housing Units, age ≥25)	3		100%		
	Less than a High School Diploma or Equivalent	0.2		10%		
	High School Diploma or GED	0.3		12%		
HOUSING <small>Block Level and Block Group Data</small>	Employment	SLR 7		SLR 7 %		
	Total Population (in Occupied Housing Units, age ≥16)	6		100%		
	Employed	6		91%		
	Unemployed	1		9%		
	Job Industry ‡	SLR 7		SLR 7 %		
	Total Population (age ≥16 and employed)	6		100%		
	Agriculture, forestry, fishing & hunting, mining	0		0%		
	Construction	0.2		4%		
	Manufacturing	1		12%		
	Wholesale trade	0.1		2%		
Retail trade	1		11%			
JOBS <small>Municipal Data† & e911 Data</small>	Income	SLR 7		SLR 7 %		
	Estimated Occupied Housing Units	3		100%		
	Less than \$24,999K	1		29%		
	\$25,000 to 49,999	1		19%		
	\$50,000 to 74,999	0.4		15%		
	\$75,000 to 124,999	0.4		15%		
	\$125,000 and greater	1		22%		
	Total Population (in Occupied Housing Units)	8		100%		
	Income Below Poverty Level	1		8%		
	Income Above Poverty Level	7		92%		
Housing Occupancy	SLR 7		SLR 7 %			
Estimated Occupied Housing Units	3		100%			
Owner-Occupied Housing Units	1		34%			
Renter-Occupied Housing Units	2		66%			
Total Population (in Occupied Housing Units)	8		100%			
Population in Group Quarters	5		63%			
Total Population (age ≥65)	0.8		100%			
Age ≥65 in Group Quarters [†]	0.1		15%			
Housing Tenure*	SLR 7		SLR 7 %			
Total Population (in Occupied Housing Units)	8		100%			
Population in Property Owned with mortgage or loan	2		26%			
Population in Property Owned free and clear	1		10%			
Population in Renter-Occupied Units	5		63%			
Employment and Business Unit Data‡		Count				
Average Employment - Municipality		111809				
Number of Units (Business - Private and Government)		5582				
Average Number of Workers per Unit (Business - Private and Government)		20				
Workers Per Commercial Unit		SLR 1	SLR 3	SLR 5	SLR 7	
e911 Commercial Unit Total		1	1	19	161	
Average Number of Workers/Jobs per Commercial Unit		20	20	381	3225	