

CRANSTON, 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.

CRANSTON QUICK FACTS

80,387

2010 Census Population

40.8

2010 Census Median Age

\$58,684

2014 ACS Median Household Income

CRANSTON'S OCCUPIED RESIDENTIAL UNITS & POPULATION ESTIMATES

Cranston is one of Rhode Island's 21 coastal communities, located south of Providence, and north of Warwick, Rhode Island.

The City of Cranston has an average household size of 2.49 (2010 Census). The average household size and the percentage of occupied housing units were used to calculate a population estimate. Approximately 83-86% 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 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 15 people estimated in the 5 FT. zone. The 7 FT. inundation zone has the greatest population and number of residential units, with 47 people estimated within the zone and 19 occupied residential units.

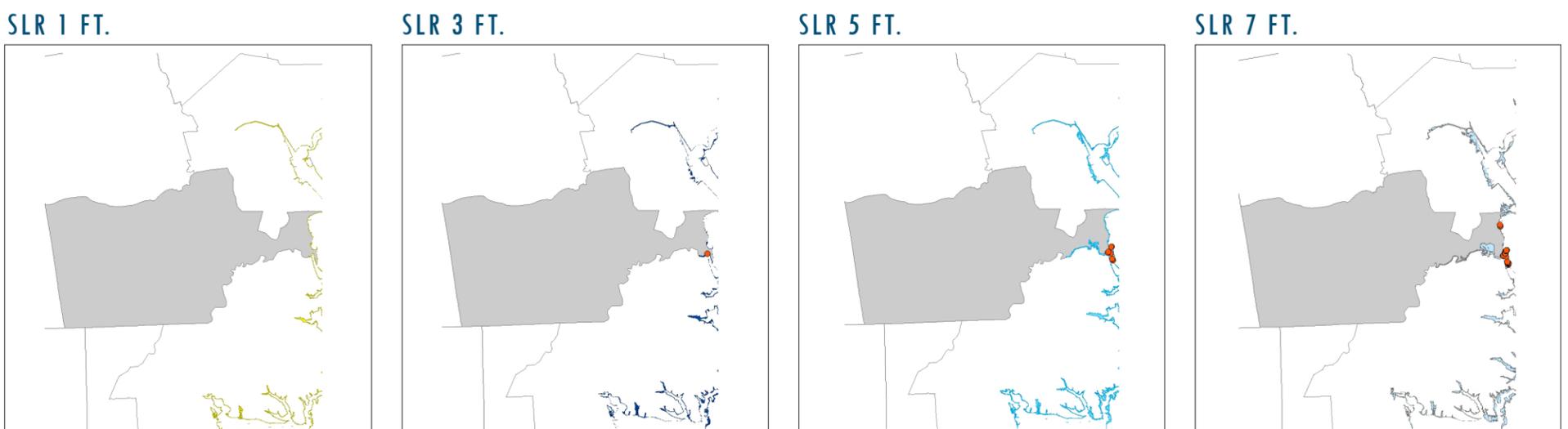
SLR Inundation zone	Residential Units	Occupied Unit calculation (Total Units (x) Occ. Housing Unit Rate in SLR zone)	Population calculation (Occupied Units (x) Cranston Avg. HH Size)
1 FT.	0	0	0
3 FT.	1 SF	1 (83% occ. HU)	2
5 FT.	8 SF	7 (85% occ. HU)	17
7 FT.	22 SF	19 (86% occ. HU)	47



Redwood Drive, Cranston RI
Apr. 2012 King Tide, Photo Courtesy of Mycoast.org,
submitted by Tim Lima

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.



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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: 2
EST. OCCUPIED HOUSEHOLDS: 1

80% or 2 - White
8% or 0.2 - Black
0% - American Indian/
Alaska Native
4% or 0.1 - Asian
6% or 0.1 - Hispanic
21% or 0.4 - Minority

 **4%**
or 0.1 - Age 75
or older

SLR 5

EST. POPULATION: 17
EST. OCCUPIED HOUSEHOLDS: 7

82% or 16 - White
7% or 0.3 - Black
0% are American Indian/
Alaska Native
3% or 1 - Asian
7% or 1 - Hispanic
20% or 3 - Minority

 **5%**
or 1 - Age 75 or
older

SLR 7

EST. POPULATION: 47
EST. OCCUPIED HOUSEHOLDS: 19

81% or 38 - White
7% or 3 - Black
0% - American Indian/
Alaska Native
6% or 3 - Asian
8% or 4 - Hispanic
23% or 11 - Minority

 **5%**
or 2 - Age 75 or
older

RACE & AGE

SOCIAL CHARACTERISTICS

HOUSEHOLD INCOME

HOUSEHOLD CHARACTERISTICS



6% or 0.1 are Individuals with Disabilities

0% are Limited English Proficiency Households

12% or 0.2 are Unemployed

12% or 0.2 are Individuals Below Poverty Level

5% or 0.1 Households receive SSI

7% or 1 are Individuals with Disabilities

0% are Limited English Proficiency Households

12% or 2 are Unemployed

11% or 2 are Individuals Below Poverty Level

5% or 0.3 Households receive SSI

10% or 3 are Individuals with Disabilities

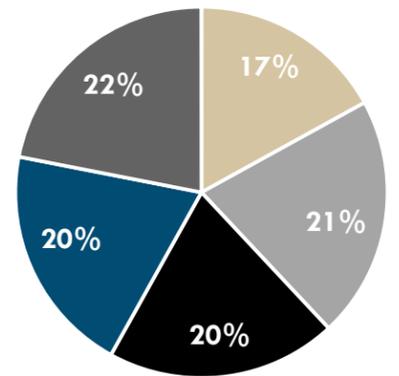
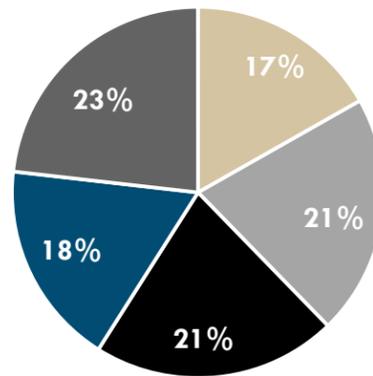
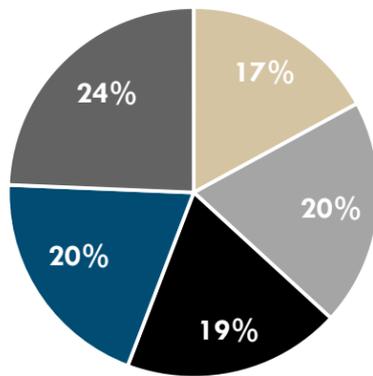
1% or 0.1 are Limited English Proficiency Households

12% or 5 are Unemployed

10% or 5 are Individuals Below Poverty Level

6% or 1 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

30% Renter Occupied
12% Owned Outright



26% Renter Occupied
12% Owned Outright



24% Renter Occupied
14% Owned Outright



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

*No Residential Units within 1FT SLR Scenario

Variable Name	Sea Level Rise (SLR)						Count
	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
e911 Housing Unit Total							
Single Family (R1) Units	1		8		22		
Multifamily (R2) Units with Calculation (*2)	0		0		0		
Mobile Home (R3) Units	0		0		0		
Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)	1		8		22		
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)	1	100%	8	100%	22	100%	
Estimated Occupied Units - Count and Percentage	1	83%	7	85%	19	86%	
Population Calculation	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Estimated Occupied Units	1	100%	7	100%	19	100%	
Population Estimate= Occupied Units (x) Municipal Avg. Household Size (2.49)		1*2.49=2		7*2.49=17		19*2.49=47	
Race/Hispanic Ethnicity	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Total Population (in Occupied Housing Units)	2	100%	17	100%	47	100%	
White	2	80%	16	82%	38	81%	
Black or African American	0.2	8%	0.3	7%	3	7%	
American Indian and Alaska Native	0	0%	0	0%	0	0%	
Asian	0.1	4%	1	3%	3	6%	
Some Other Race	0.1	4%	1	4%	2	4%	
Hispanic	0.1	6%	1	7%	4	8%	
Non-Hispanic, White Population	2	79%	14	80%	36	77%	
Minority Population (Total Population minus Non-Hispanic, White Population)	0.4	21%	3	20%	11	23%	
Age	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Total Population (in Occupied Housing Units)	2	100%	17	100%	47	100%	
Young Children (<5)	0	3%	1	3%	2	4%	
School-Age Children (5-17)	0	9%	2	10%	5	11%	
Age 18-24	1	36%	5	30%	13	27%	
Age 25-44	0	17%	3	19%	9	20%	
Age 45-64	1	26%	5	27%	13	28%	
Age 65-74	0	6%	1	6%	3	6%	
Age ≥75	0.1	4%	1	5%	2	5%	
Population 16-64 (For Individuals with a disability variable) [†]	1	67%	11	67%	31	67%	
Population ≥25 (For educational attainment variable)	1	53%	10	56%	27	58%	
Population ≥16 (For employment variable) [†]	2	83%	14	83%	39	83%	
Population ≥65 (For age ≥65 in group quarters variable) [†]	0.2	10%	2	10%	5	10%	
Disability	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Total Population (in Occupied Housing Units, age 16-64)	1	100%	11	100%	31	100%	
Individuals with a Disability	0.1	6%	1	7%	3	10%	
Limited English Proficiency (LEP)	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Estimated Occupied Housing Units	1	100%	7	100%	19	100%	
Limited English Proficiency Households	0	0%	0	0%	0.1	1%	
Educational Attainment	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Total Population (in Occupied Housing Units, age ≥25)	1	100%	10	100%	27	100%	
Less than a High School Diploma or Equivalent	0	4%	0	4%	1	5%	
High School Diploma or GED	0	20%	2	23%	7	25%	
Professional School	0	8%	1	6%	1	5%	
Associate's/Bachelor's	0	33%	3	31%	8	30%	
Master's/PhD	0	21%	2	20%	4	16%	
Other (Some College)	0	15%	1	16%	5	19%	
Employment	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Total Population (in Occupied Housing Units, age ≥16)	2	100%	14	100%	39	100%	
Employed	1	88%	12	88%	34	88%	
Unemployed	0.2	12%	2	12%	5	12%	
Job Industry ‡	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Total Population (age ≥16 and employed)	1	100%	12	100%	34	100%	
Agriculture, forestry, fishing & hunting, mining	0.0	0%	0	0%	0	0%	
Construction	0.1	5%	1	5%	2	5%	
Manufacturing	0.2	11%	1	11%	4	11%	
Wholesale trade	0.0	3%	0.4	3%	1	3%	
Retail trade	0.2	13%	2	13%	5	13%	
Transportation & warehousing, utilities	0.0	3%	0.4	3%	1	3%	
Information	0.0	2%	0.2	2%	1	2%	
Finance & insurance, real estate, rental & leasing	0.1	7%	1	7%	2	7%	
Professional, scientific, management, administrative, waste management services	0.1	10%	1	10%	3	10%	
Educational services, health care, social assistance	0.4	27%	3	27%	9	27%	
Arts, entertainment, recreation, accommodation & food services	0.1	9%	1	9%	3	9%	
Other services (except public administration)	0.1	5%	1	5%	2	5%	
Public administration	0.1	6%	1	6%	2	6%	
Income	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Estimated Occupied Housing Units	1	100%	7	100%	19	100%	
Less than \$24,999K	0.2	17%	1	17%	3	17%	
\$25,000 to 49,999	0.2	20%	1	21%	4	21%	
\$50,000 to 74,999	0.2	19%	1	21%	4	20%	
\$75,000 to 124,999	0.2	20%	1	18%	4	20%	
\$125,000 and greater	0.2	24%	2	23%	4	22%	
Total Population (in Occupied Housing Units)	2	100%	17	100%	47	100%	
Income Below Poverty Level	0.2	12%	2	11%	5	10%	
Income Above Poverty Level	2	88%	15	89%	42	90%	
Estimated Occupied Housing Units	1	100%	7	100%	19	100%	
With Social Security Income (SSI) Households	0.1	5%	0.3	5%	1	6%	
Without Social Security Income (SSI) Households	1	95%	7	95%	18	94%	
Housing Occupancy	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Total Housing Units	1	100%	8	100%	22	100%	
Occupied Housing Units	1	83%	7	85%	19	86%	
Vacant Housing Units	0.2	17%	1	15%	3	14%	
Estimated Occupied Housing Units	1	100%	7	100%	19	100%	
Owner-Occupied Housing Units	1	68%	5	69%	13	71%	
Renter-Occupied Housing Units	0.3	32%	2	31%	6	29%	
Total Population (in Occupied Housing Units)	2	100%	17	100%	47	100%	
Population in Group Quarters	1	29%	4	24%	9	20%	
Total Population (age ≥65)	0.2	100%	2	100%	5	100%	
Age ≥65 in Group Quarters [†]	0.01	6%	0	5%	0	4%	
Housing Tenure*	SLR 3	SLR 3 %	SLR 5	SLR 5 %	SLR 7	SLR 7 %	
Total Population (in Occupied Housing Units)	2	100%	17	100%	47	100%	
Population in Property Owned with mortgage or loan	1	58%	10	61%	29	62%	
Population in Property Owned free and clear	0.2	12%	2	12%	6	14%	
Population in Renter-Occupied Units	1	30%	4	26%	11	24%	
Employment and Business Unit Data†							Count
Average Employment - Municipality							36408
Number of Units (Business - Private and Government)							2455
Average Number of Workers per Unit (Business - Private and Government)							15
Workers Per Commercial Unit	SLR 1	SLR 3	SLR 5	SLR 7			
e911 Commercial Unit Total	1	2	3	6			
Average Number of Workers/Jobs per Commercial Unit	15	30	44	89			

HOUSING UNITS & POPULATION

DEMOGRAPHIC

SOCIAL

ECONOMIC

HOUSING

JOBS