

MIDDLETOWN, 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.

MIDDLETOWN QUICK FACTS

16,150

2010 Census Population

42.8

2010 Census Median Age

\$70,244

2014 ACS Median Household Income

MIDDLETOWN'S OCCUPIED RESIDENTIAL UNITS & POPULATION ESTIMATES

Middletown is one of Rhode Island's 21 coastal communities, situated north Newport and south of Portsmouth, Rhode Island. Middletown is one of the three municipalities that comprises Aquidneck Island

The Town of Middletown has an average household size of 2.42 (2010 Census). The average household size and the percentage of occupied housing units were used to calculate a population estimate. There is a 67% occupancy rate among the residential units located within the 7 FT. SLR inundation zone. Residential units were identified using the RIGIS e-911 shapefile. One single family, and two multi-family residential units were identified in the 7 FT. inundation zone, three of which were estimated to be occupied, and 7 people estimated 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.	1 SF, 2 MF	3 (67% occ. HU)	7

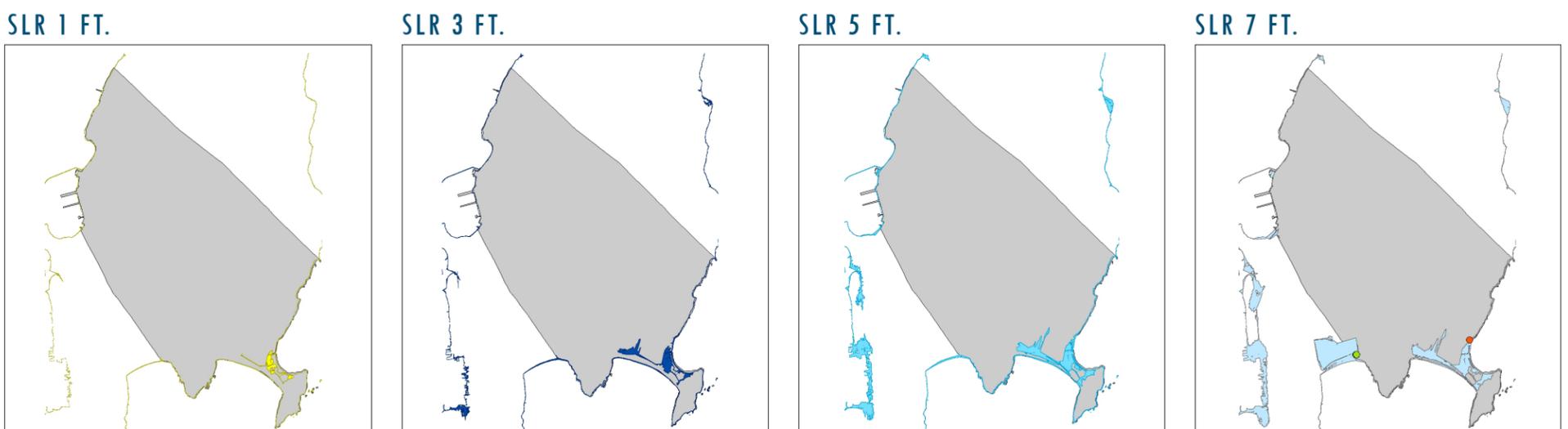
Newport East, Middletown, RI

February 2015 King Tide, Photo Courtesy of Mycoast.org, submitted by Kelsey Drought



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, 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.



Newport East, Middletown, RI
February 2016 King Tide, Photo Courtesy of Mycoast.org, submitted by Kelsey Drought



Hanging Rock Road, Middletown, RI
October 2015 King Tide, Photo Courtesy of Mycoast.org, submitted by Ron Wolanski



Atlantic Beach, Purgatory Road, Middletown, RI
September 2015 King Tide, Photo Courtesy of Mycoast.org, submitted by Ron Wolanski

SLR 7

EST. POPULATION: 7
EST. OCCUPIED HOUSEHOLDS: 3

96% or 7 - White
1% or 0.1 - Black
0% - American Indian/Alaska Native
1% or 0.1 - Asian
6% or 0.4 - Hispanic
8% or 1 - Minority

10%
or 1 - Age 75 or older

5% or 0.2 are Individuals with Disabilities

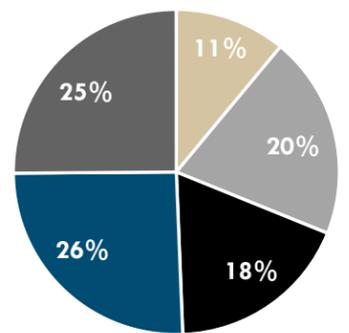
2% or 0.1 are Limited English Proficiency Households

8% or 0.5 are Unemployed

4% or 0.3 are Individuals Below Poverty Level

2% or 0.1 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

32% Renter Occupied

16% Owned Outright



52%
Owned with Mortgage/Loan

RACE &
AGE

SOCIAL
CHARACTERISTICS

HOUSEHOLD
INCOME

HOUSEHOLD
CHARACTERISTICS

MIDDLETOWN (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	
		Single Family (R1) Units	1	
		Multifamily (R2) Units with Calculation (*2)	2*2=4	
		Mobile Home (R3) Units	0	
		Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)	5	
		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 %		
DEMOGRAPHIC <small>Block Level and Block Group Data</small>		Total Units: Single Family (R1), Multifamily (R2), Mobile Home (R3)	5 100%	
		Estimated Occupied Units - Count and Percentage	3 67%	
		Population Calculation	SLR 7	
		Estimated Occupied Units	3 100%	
		Population Estimate= Occupied Units (x) Municipal Avg. Household Size (2.42)	3*2.42=7	
		Race/Hispanic Ethnicity	SLR 7 SLR 7 %	
		Total Population (in Occupied Housing Units)	7 100%	
		White	7 96%	
		Black or African American	0.1 1%	
		American Indian and Alaska Native	0 0%	
SOCIAL <small>Block Group Data</small>		Asian	0.1 1%	
		Some Other Race	0.1 1%	
		Hispanic	0.4 6%	
		Non-Hispanic, White Population	6 92%	
		Minority Population (Total Population minus Non-Hispanic, White Population)	1 8%	
		Age	SLR 7 SLR 7 %	
		Total Population (in Occupied Housing Units)	7 100%	
		Young Children (<5)	0.3 5%	
		School-Age Children (5-17)	1 17%	
		Age 18-24	0.4 6%	
ECONOMIC <small>Block Group Data and Municipal Level Data†</small>		Age 25-44	1 21%	
		Age 45-64	2 33%	
		Age 65-74	1 10%	
		Age ≥75	1 10%	
		Population 16-64 (For Individuals with a disability variable) [‡]	4 61%	
		Population ≥25 (For educational attainment variable)	5 73%	
		Population ≥16 (For employment variable) [‡]	6 78%	
		Population ≥65 (For age ≥65 in group quarters variable) [‡]	1 20%	
		Disability	SLR 7 SLR 7 %	
		Total Population (in Occupied Housing Units, age 16-64)	4 100%	
Individuals with Disabilities	0.2 5%			
Limited English Proficiency (LEP)	SLR 7 SLR 7 %			
Estimated Occupied Housing Units	3 100%			
Limited English Proficiency Households	0.1 2%			
Educational Attainment	SLR 7 SLR 7 %			
Total Population (in Occupied Housing Units, age ≥25)	5 100%			
Less than a High School Diploma or Equivalent	0.3 6%			
High School Diploma or GED	1 20%			
Professional School	0.1 2%			
Associate's/Bachelor's	2 37%			
Master's/PhD	1 17%			
Other (Some College)	1 18%			
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	5 89%	
		Unemployed	0.5 8%	
		Job Industry ‡	SLR 7 SLR 7 %	
		Total Population (age ≥16 and employed)	5 100%	
		Agriculture, forestry, fishing & hunting, mining	0 1%	
		Construction	0.2 5%	
		Manufacturing	0.3 5%	
		Wholesale trade	0.06 1%	
Retail trade	0.5 10%			
Transportation & warehousing, utilities	0.07 1%			
Information	0.07 1%			
Finance & insurance, real estate, rental & leasing	0.3 6%			
Professional, scientific, management, administrative, waste management services	1 11%			
Educational services, health care, social assistance	1 25%			
Arts, entertainment, recreation, accommodation & food services	1 17%			
Other services (except public administration)	0.2 5%			
Public administration	0.5 11%			
JOBS <small>Municipal Data‡ & e911 Data</small>		Income	SLR 7 SLR 7 %	
		Estimated Occupied Housing Units	3 100%	
		Less than \$24,999K	0.3 11%	
		\$25,000 to 49,999	1 20%	
		\$50,000 to 74,999	1 18%	
		\$75,000 to 124,999	1 26%	
		\$125,000 and greater	1 25%	
		Total Population (in Occupied Housing Units)	7 100%	
		Income Below Poverty Level	0.3 4%	
		Income Above Poverty Level	7 96%	
Estimated Occupied Housing Units	3 100%			
With Social Security Income (SSI) Households	0.1 2%			
Without Social Security Income (SSI) Households	3 98%			
Housing Occupancy	SLR 7 SLR 7 %			
Total Housing Units	5 100%			
Occupied Housing Units	3 67%			
Vacant Housing Units	2 33%			
Estimated Occupied Housing Units	3 100%			
Owner-Occupied Housing Units	2 64%			
Renter-Occupied Housing Units	1 36%			
Total Population (in Occupied Housing Units)	7 100%			
Population in Group Quarters	0.2 3%			
Total Population (age ≥65)	1 100%			
Age ≥65 in Group Quarters [‡]	0.2 13%			
Housing Tenure*	SLR 7 SLR 7 %			
Total Population (in Occupied Housing Units)	7 100%			
Population in Property Owned with mortgage or loan	4 52%			
Population in Property Owned free and clear	1 17%			
Population in Renter-Occupied Units	2 32%			
Employment and Business Unit Data‡	Count			
Average Employment - Municipality	10738			
Number of Units (Business - Private and Government)	733			
Average Number of Workers per Unit (Business - Private and Government)	15			
Workers Per Commercial Unit	SLR 7			
e911 Commercial Unit Total	6			
Average Number of Workers/Jobs per Commercial Unit	88			