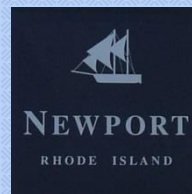


# Newport, Rhode Island



**THE ECONOMICS OF  
FLOODING AND SEA LEVEL RISE  
IN A HISTORIC  
NEW ENGLAND CITY**

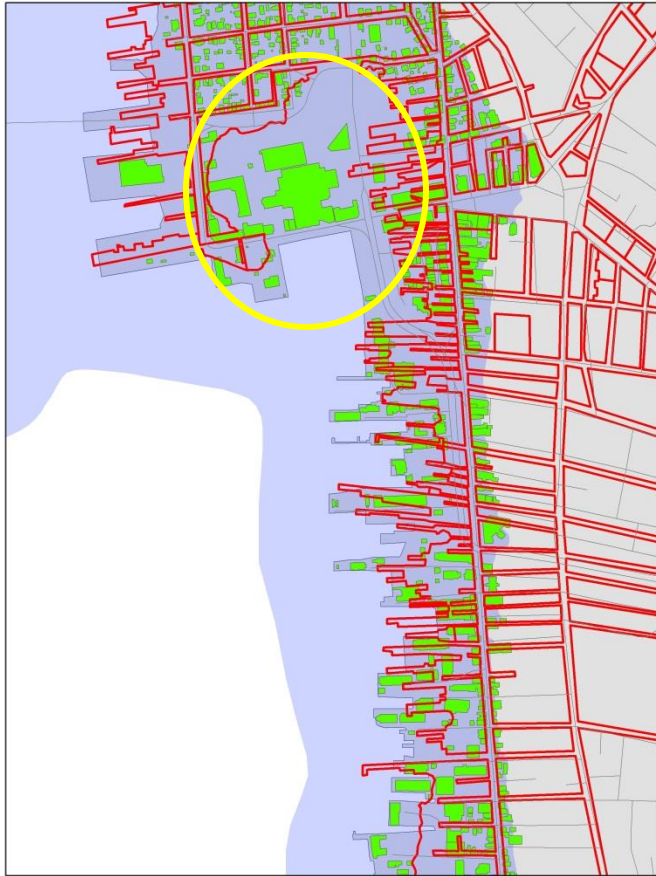


# Geographic History Lessons



- 1777 – Large open section of harbor in the “Point” section
- 1876 – Railroad constructed, open harbor now three ponds
- 1893 – More land filled in
- 1907 – Open harbor area completely filled in

# Geographic History Lessons

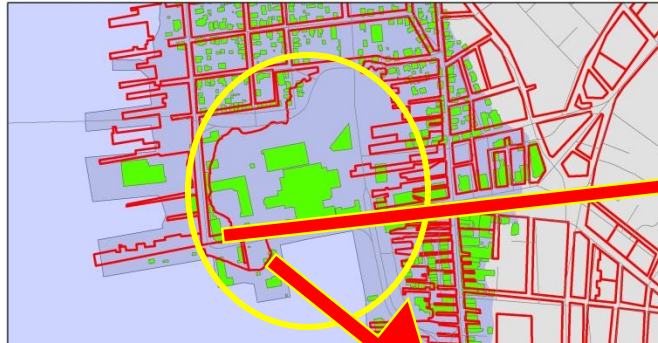


- In the circled area, there is

**\$4,986,568**

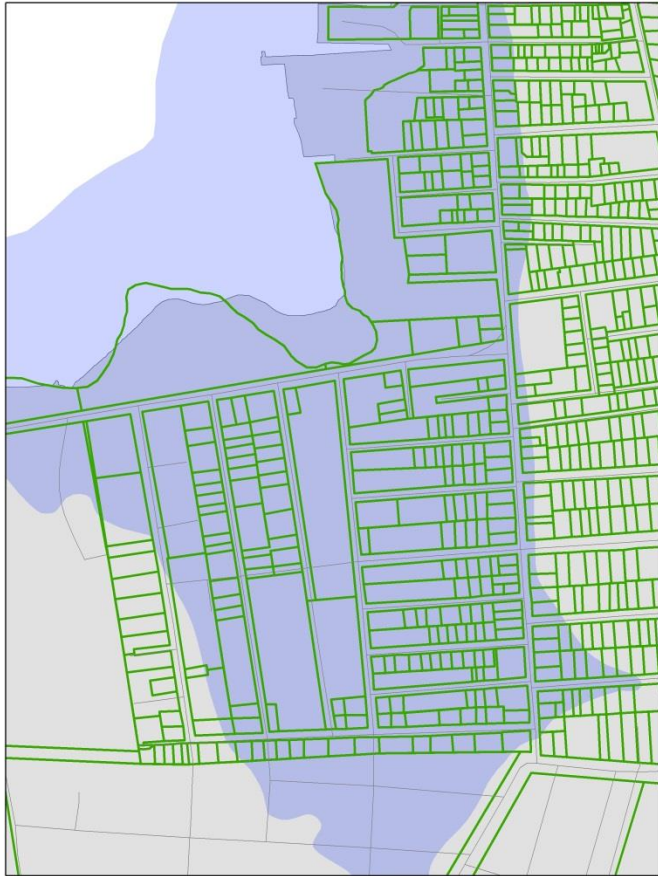
worth of buildings  
constructed on *infilled* land

# Geographic History Lessons



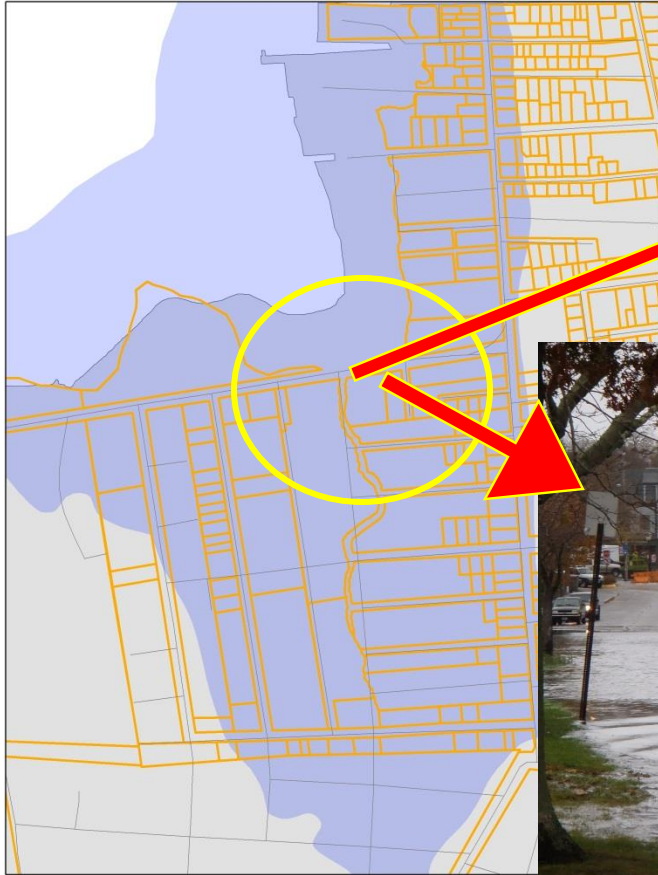


# Geographic History Lessons

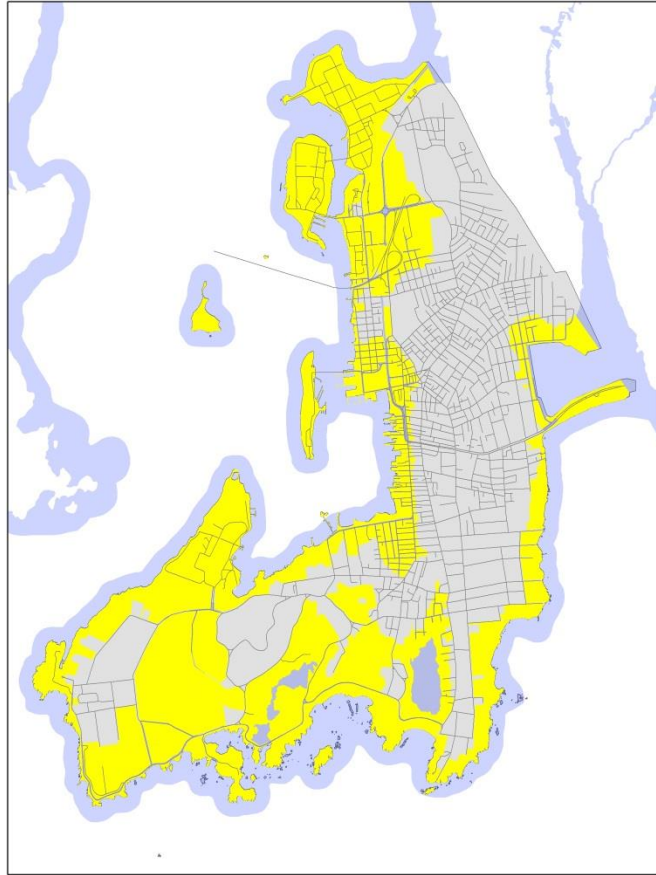
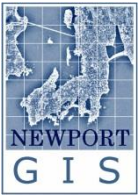


- 1876 – Section of lower harbor has open inlet where Spencer Park is located
- 1893 – Area filled in and now housing lots appear

# Geographic History Lessons



# Newport Floodplain Statistics

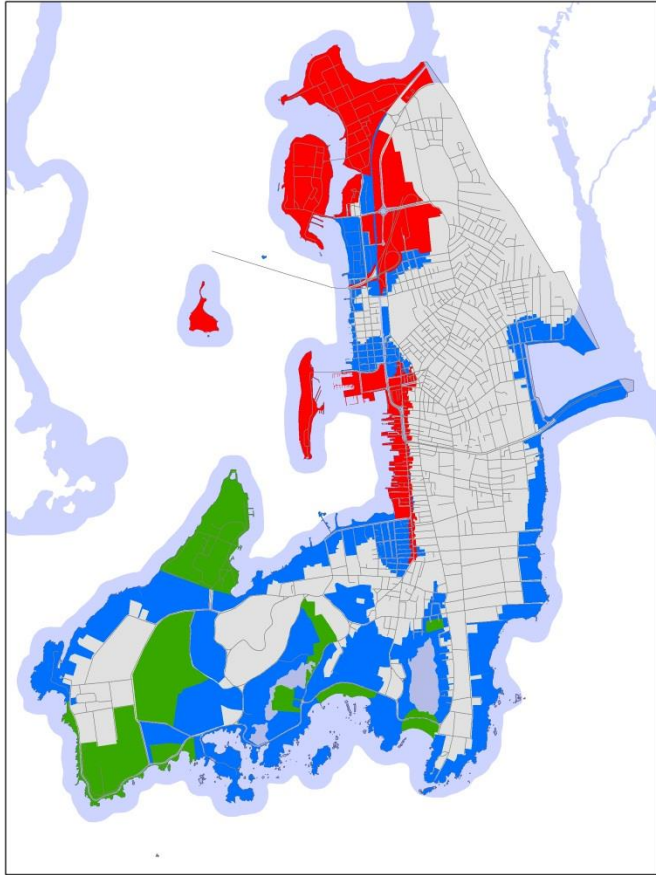
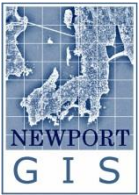


- 4,574.39 Acres of parcels in Newport
- 2,459.32 Acres of those parcels touch the floodplain
- That is

**53.76%**



# Newport Floodplain Statistics

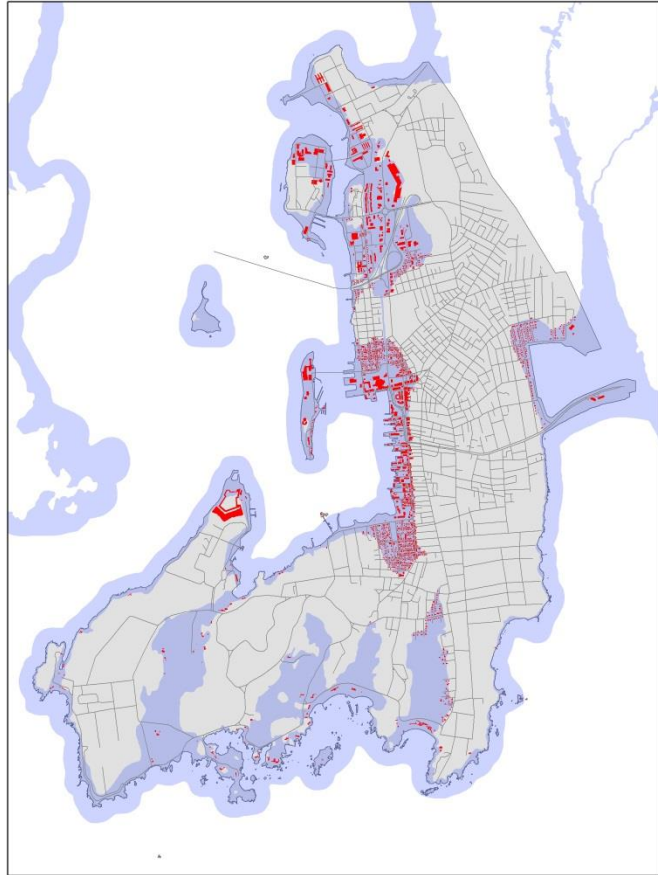
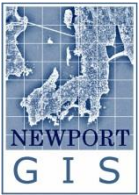


Of the parcels in the floodplain:

- **1,324.3 Acres, or 53.85% are Residential**
- **619.59 Acres, or 25.19% are Commercial/ Business**
- **515.43 Acres, or 20.96% are Recreational/ Open Space**



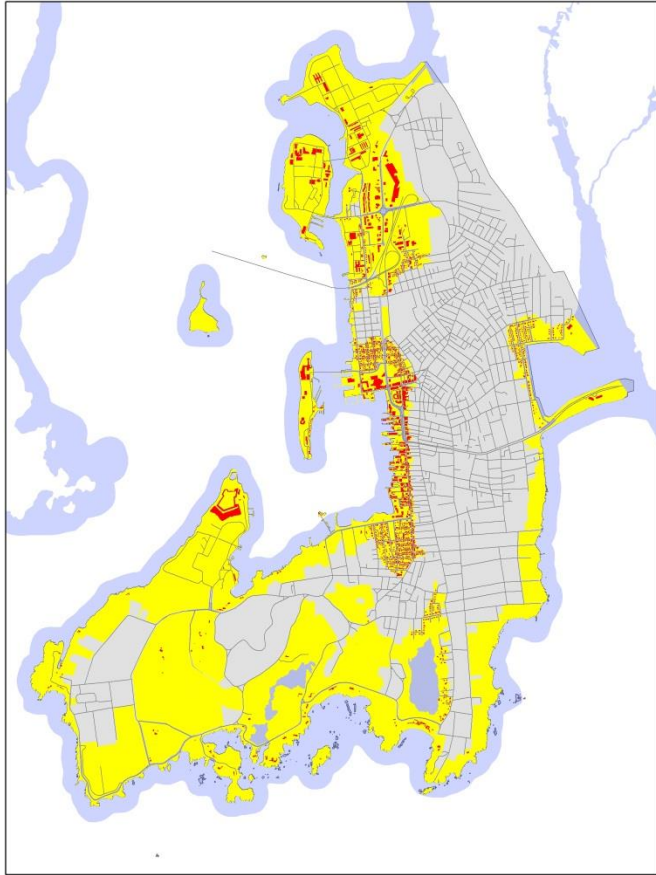
# Newport Floodplain Statistics



- 11,787 Structures in Newport
- 1,988 of those structures are in the floodplain
- That is

**16.87%**

# Newport Floodplain Statistics

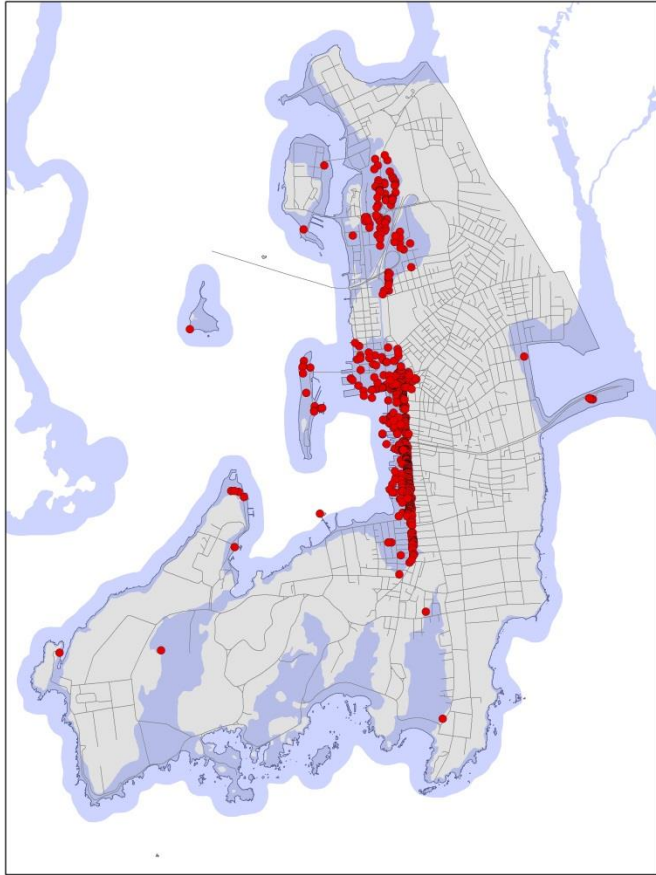


**\$3,817,860,900**

Of potential property loss in  
Newport

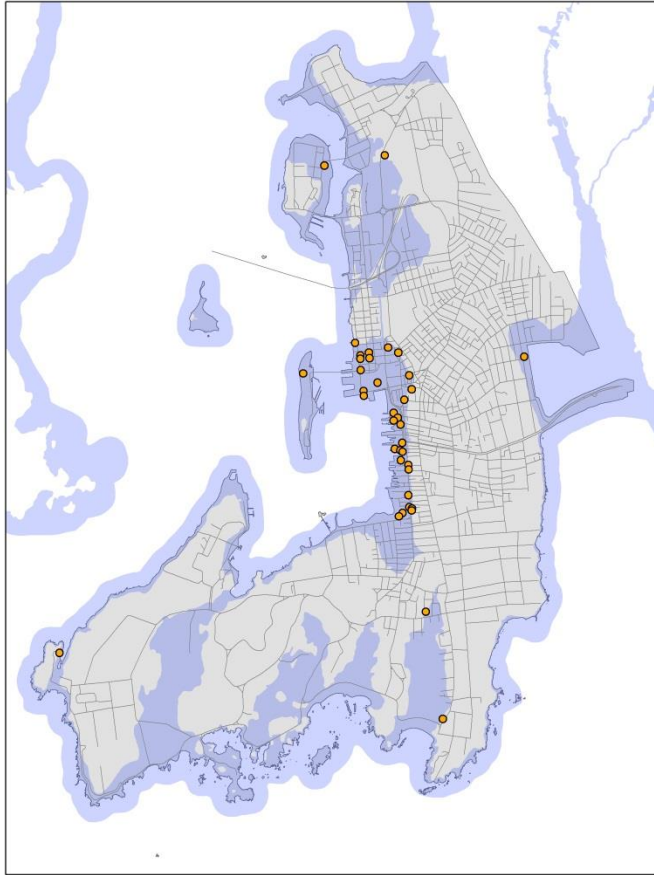
Of combined land and  
structure assessed value in the  
floodplain

# Businesses in the Floodplain



- **585** Businesses identified in the floodplain through e911 data
- **39.5%** Retail Businesses
- **20.3%** Food Service
- **10.8%** Professional Services
- **6.5%** Hotels/ Guest Facilities

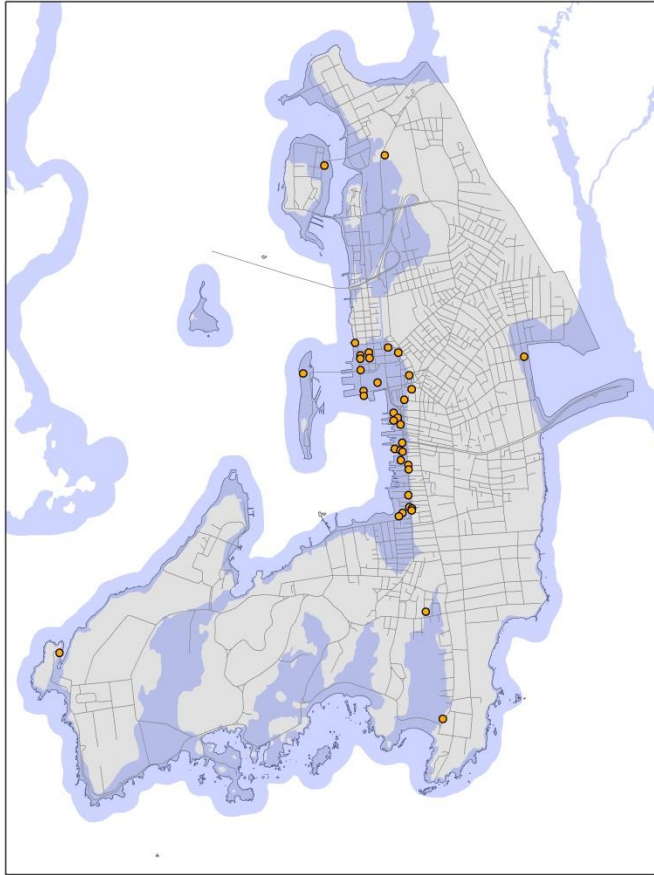
# Hotels/ Guest Houses in the Floodplain



- **128** Registered Hotels/ Guest Houses in Newport
- **37** of those are in the floodplain
- **55.4%** of the total available rooms in Newport are in the floodplain

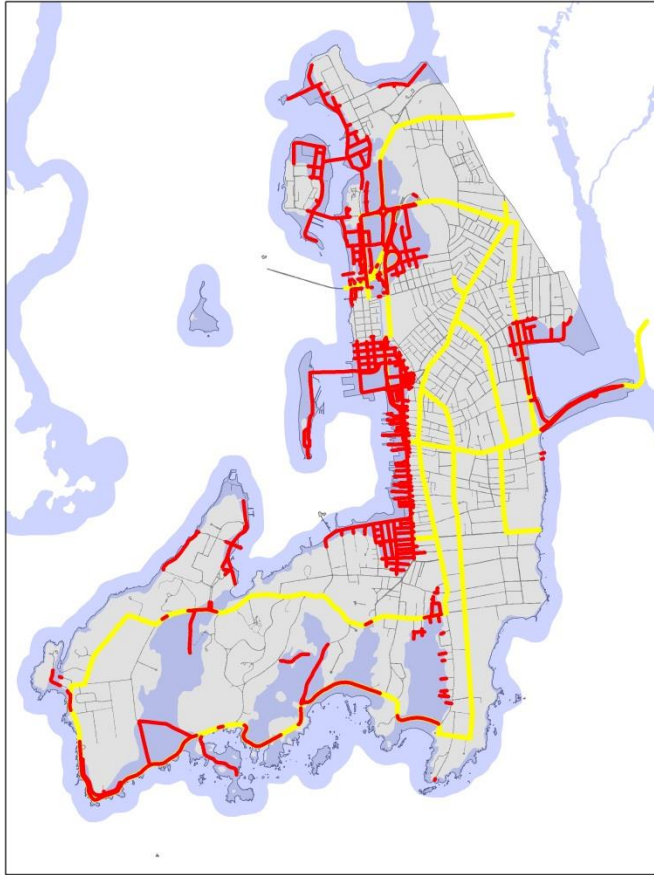


# Hotels/ Guest Houses in the Floodplain



- **\$2,796,928.05**, or **53.2%** of the total taxes collected from these businesses are from businesses in the floodplain
- **\$189,198,614.21**, or **53.15%** of the total estimated income of the Hotel/Guest House industry in Newport comes from businesses within the floodplain

# Road Infrastructure in Floodplain



- **700,513.21** Feet of roadway maintained in the Newport Master Pavement Database
- Designated FEMA Evacuation Routes for Newport
- **191,390.77** Feet of roadway in floodplain, including many sections of designated Evacuation Routes

Aborn Street

**Admiral Kalbfus Road**

Almy Court

**America's Cup Avenue**

Andrew Street

Ann Street

Atlantic Avenue

Atlantic Street

Avenue J

Bannister's Wharf

Barschow Street

Bateman Avenue

Bayside Avenue

Bell Road

Biello Road

Bliss Mine Road

Boss Court

Braman Street

Brewer Street

Bridge Street

Brown and Howard Wharf

Butler Street

Carey Street

Casey Court

Castle Hill Avenue

Catherine Street

Champlin Place

Champlin Street

Chase Street

Chastellux Avenue

Cherry Creek Road

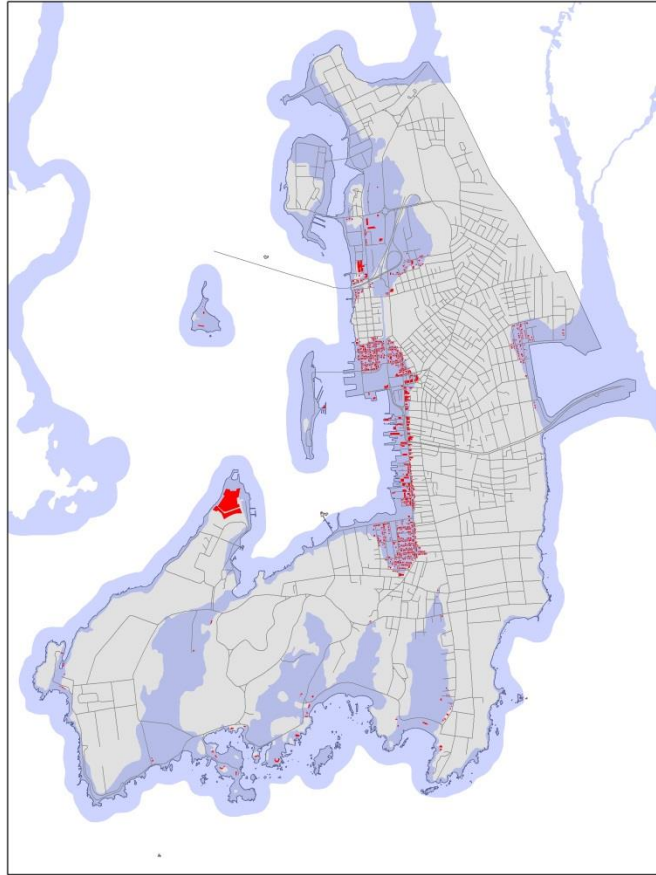
# Road Infrastructure in Floodplain

- **200** Named roads in Newport run through the floodplain





# Historic Structures in Floodplain

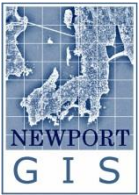


- **968** Historic structures in Newport in the floodplain
- Worth an assessed value of:

**\$559,992,649**



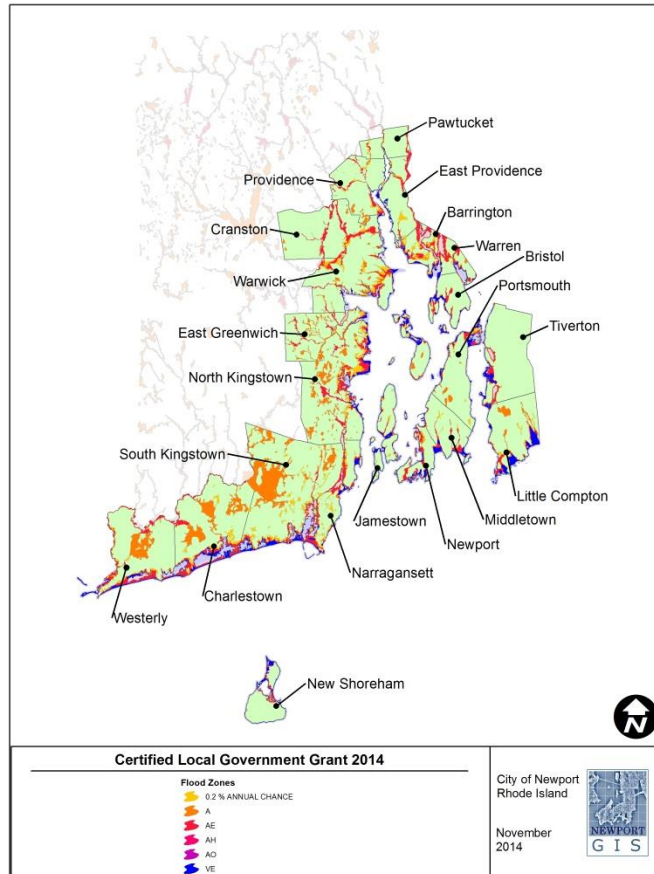
# RI Statewide CLG Grant



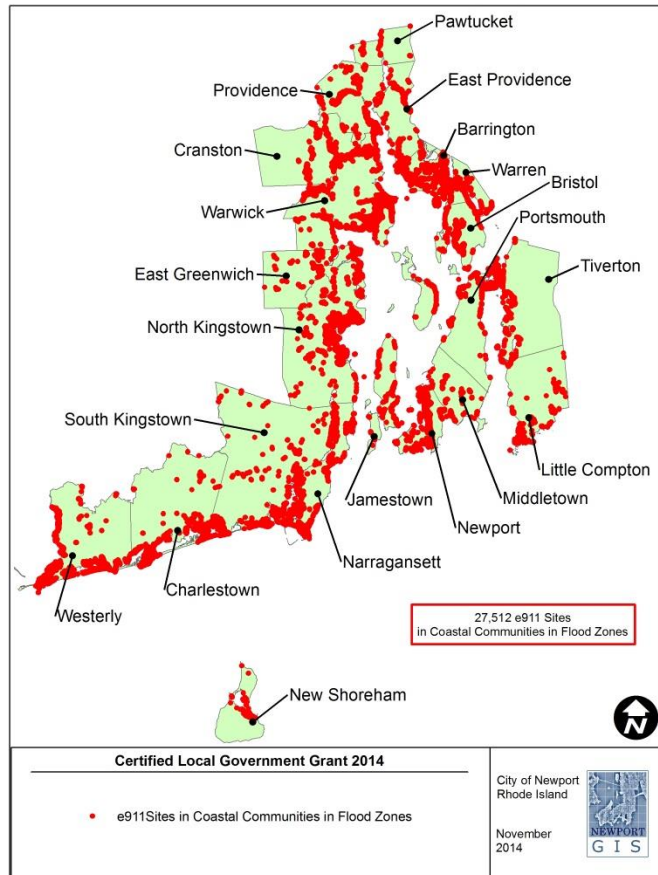
## Certified Local Government Grant (CLG) for Historic Preservation

The City of Newport partnered with the Rhode Island Historical Preservation & Heritage Commission to:

- Identify RI's historic assets in the coastal floodplain
- Work with a consultant to identify and understand all flood regulations applicable to historic assets
- Lay the groundwork for developing a strategy to protect RI's historic assets threatened by coastal flooding and sea level rise

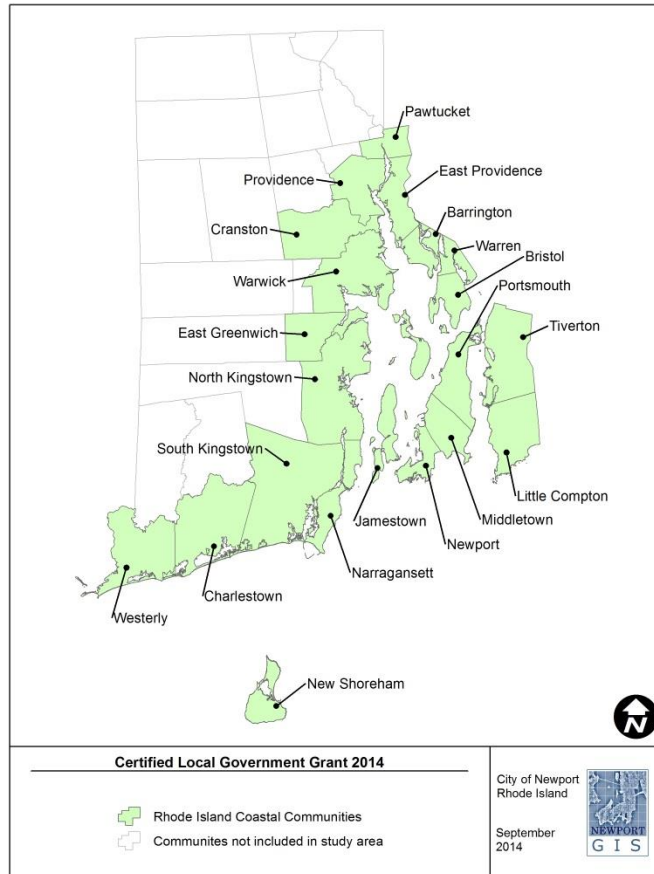
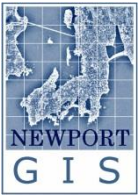


# RI Statewide CLG Grant



- Coastal floodplain identified
- Affected coastal communities identified
- Applicable historic sites identified
- Applicable historic districts identified
- Applicable historic candidate sites identified
- Individual sites identified through e911 location data and tax assessor records

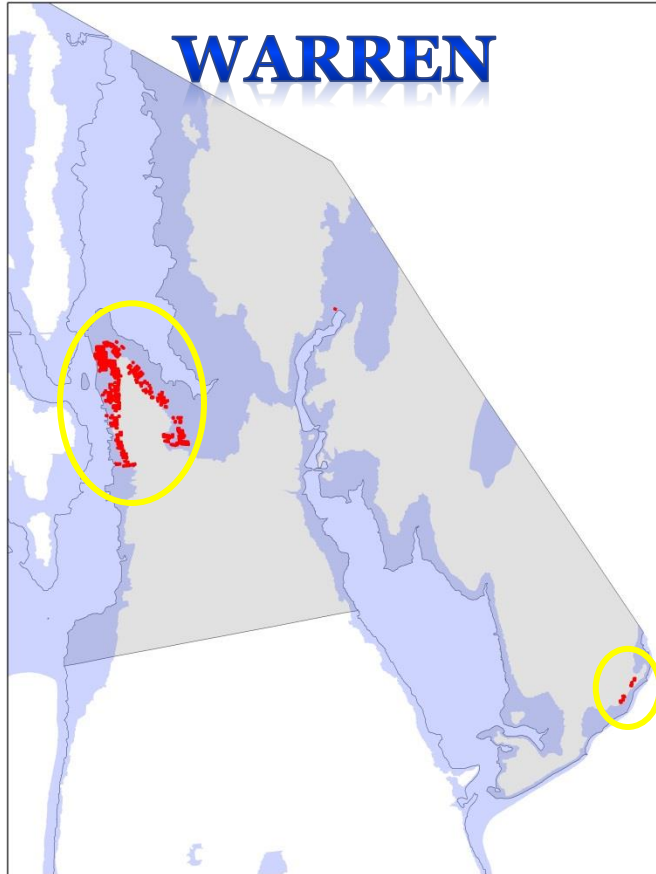
# RI Statewide CLG Grant



**21** of Rhode Island's **39**  
Cities and Towns contain  
historic assets in coastal  
floodplains



# RI Statewide CLG Grant

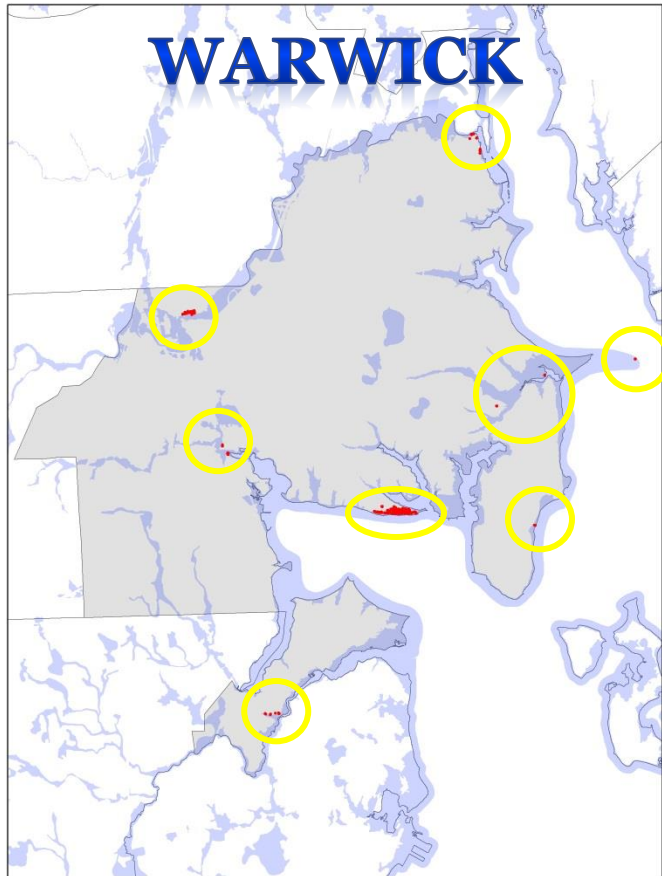


## Bristol County

- Barrington – **55** Structures
- Bristol – **319** Structures
- Warren – **226** Structures



# RI Statewide CLG Grant



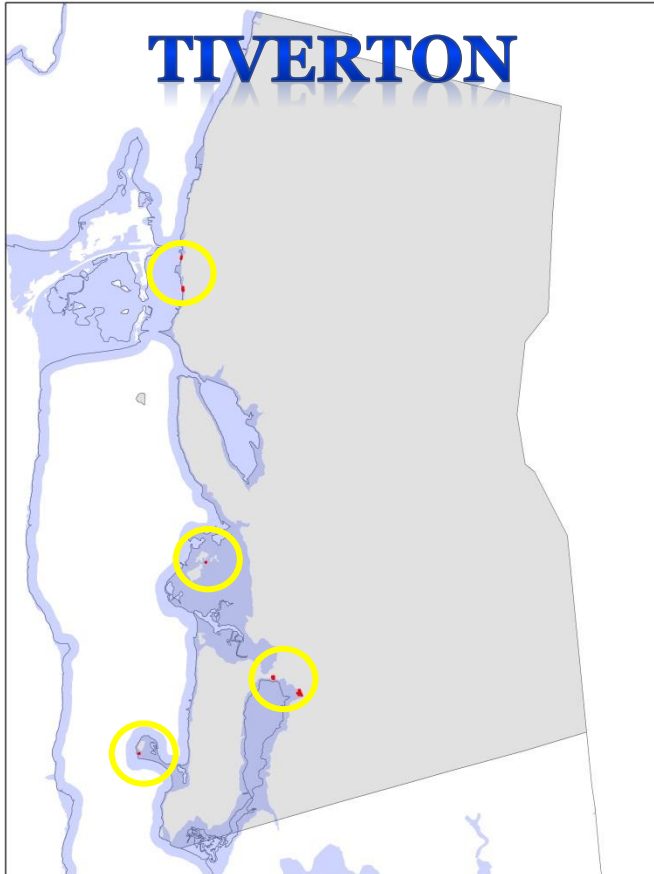
## Kent County

- East Greenwich – **35** Structures
- Warwick – **98** Structures

# RI Statewide CLG Grant



## TIVERTON



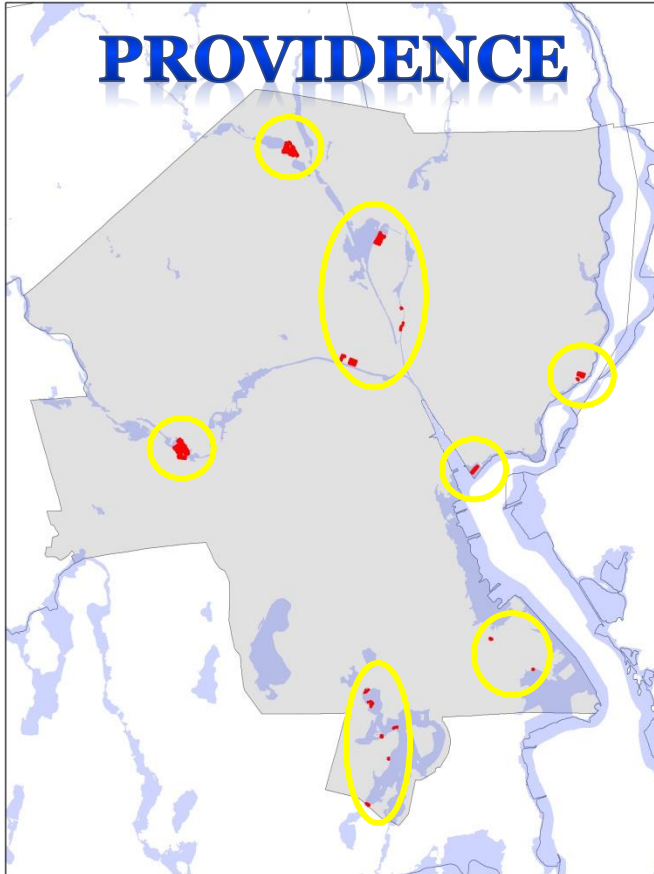
## Newport County

- Jamestown – **24** Structures
- Little Compton – **12** Structures
- Middletown – **4** Structures
- Newport – **968** Structures
- Portsmouth – **6** Structures
- Tiverton – **16** Structures

# RI Statewide CLG Grant



## PROVIDENCE

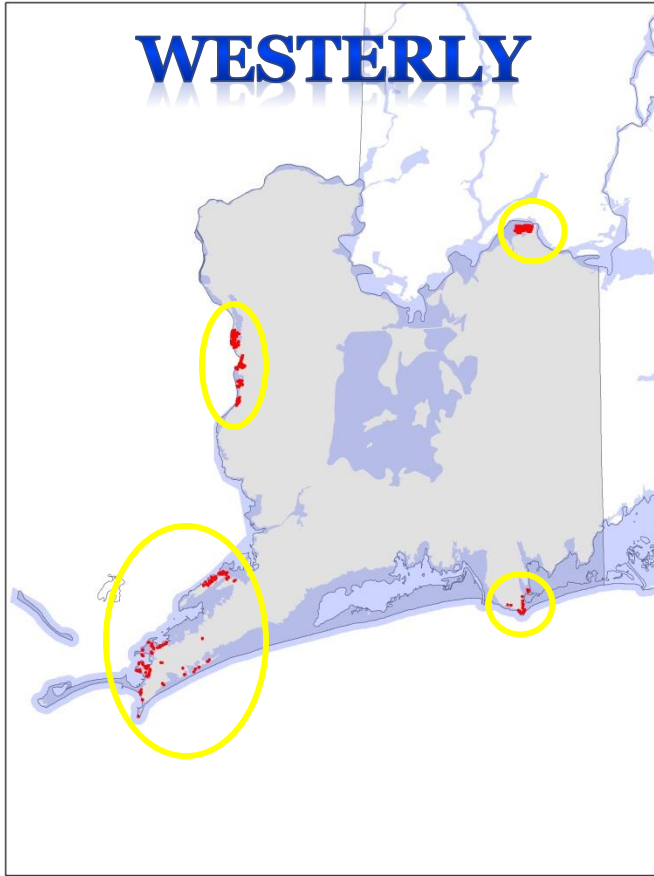


## Providence County

- Cranston – **69** Structures
- East Providence – **6** Structures
- Pawtucket – **11** Structures
- Providence – **40** Structures

# RI Statewide CLG Grant

## WESTERLY



## Washington County

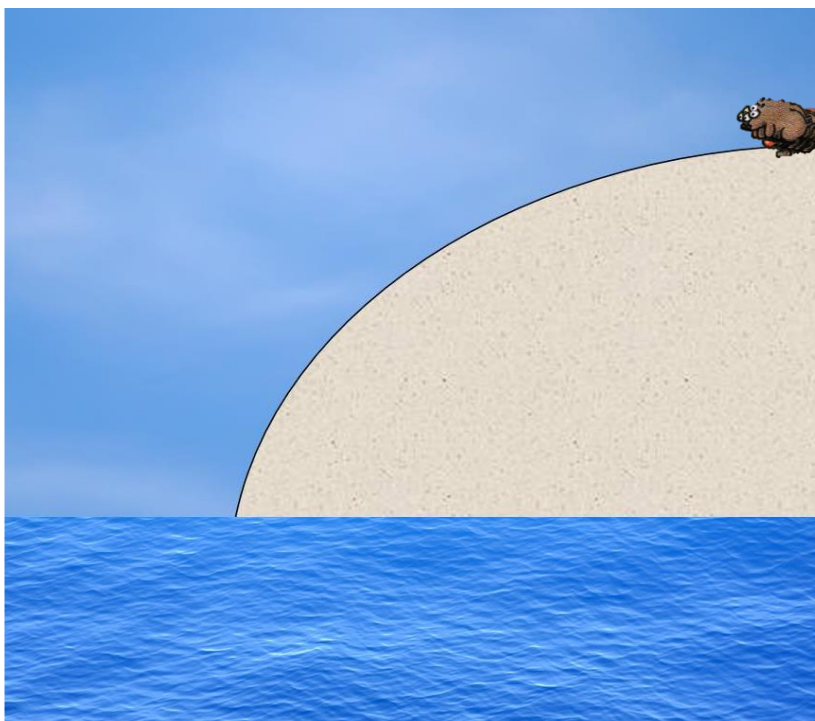
- Charlestown – **9** Structures
- Narragansett – **23** Structures
- New Shoreham – **27** Structures
- North Kingstown – **294** Structures
- South Kingstown – **100** Structures
- Westerly – **185** Structures



# Resilient Responsibility



- Newport is taking the lead in attracting resiliency-based industries to locate in Rhode Island
- Our survival as coastal communities depends on adapting to changing natural and man-made hazards
- Newport seeks to attract companies who's business it is to research and develop new technologies that will increase our chances of survival



# Are You Ready For Sea Level Rise?

