

Newburyport

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GPH 340

Dr. Luna



Goal of the Project

- The goal of this project is to analyze the impact of projected sea level rise on a coastal North Shore community in Massachusetts.



Newburyport

Newburyport is a small coastal city in Essex County, Massachusetts. It is 38 miles (61 km) northeast of Boston. It was settled in 1635 and incorporated in 1764. Newburyport is a historic seaport with a vibrant tourism industry.



Demographics

- The population was 17,189 at the 2000 census.
- The median income for a household in the city was \$258,557, and the median income for a family was \$273,306. Males had a median income of \$251,831 versus \$237,853 for females. The per capita income for the city was \$234,187.



Area & Elevation

Area

Total-10.6 sq mi (27.4 km²)

Land-8.4 sq mi (21.7 km²)

Water-2.2 sq mi (5.7 km²)

Elevation-37 ft (11 m)

Newburyport





Important Infrastructure

- One Hospital -Anna Jacques Hospital
- Newburyport Police Station
- Newburyport Fire Department
- Newburyport Town Hall
- Newburyport Train Station
- 9 Schools- 5 Public, 3 Private, 1 Charter
- Hundred of Businesses- There are many restaurants and eclectic shops in the town.

Less than or Equal to 3 Meters

- Train Station
- Town Hall
- Schools
- Fire Station
- Hospital
- Police Station
- Roads





Percentage of Area that would be flooded

- At 3 meters, 10.5% of Newburyport would become flooded. Some Roads and Residential Area would be affected including the Newburyport Turnpike.

Less than or Equal to 4 Meters





Percentage of Area that would be flooded

- At 4 meters, 14.5% of Newburyport would become flooded. More Roads and Residential Area would be affected. The Newburyport Turnpike has become even more flooded. Some businesses such as Union Specialties and ITW Holographics would also be affected.

Less than or Equal to 5 Meters

- Train Station
- Town Hall
- Schools
- Fire Station
- Hospital
- Police Station
- Roads





Percentage of Area that would be flooded

- At 5 meters, 19.6% of Newburyport would become flooded. Roads, Residential Area and more businesses would become flooded. Businesses such as Michael's Harborside Restaurant have become flooded. The US Customs House is in danger of being inundated. There would also be a significant amount of open space compromised.

Less than or Equal to 7 Meters

- Train Station
- ▲ Town Hall
- 🚦 Schools
- 🚒 Fire Station
- 🏥 Hospital
- P Police Station
- Roads





Percentage of Area that would be flooded

- At 7 meters, 32.2% of Newburyport would become flooded. The Police Station, Town Hall and two schools are in danger of flooding. The open space that was once compromised is now destroyed. Part of Route 95 has become inundated. The Newburyport Train Station has become flooded as well as one of the town's schools. A chunk of the town's residential area and businesses are now under water.



References

- <http://www.mass.gov/mgis/>
- www.newburyport.com
- <http://www.newburyportchamber.org/>
- <http://en.wikipedia.org/wiki/Newburyport,Massachusetts>