

	Infra	structure	Asset Im	pacts: Tov	vn of Madbury
Incorporate al Accost	Metric	Sec	a Level Scen	arios	General Information
Impacted Asset	Metric	1.7 feet	4.0 feet	6.3 feet	General information
Sewer Pipes	Miles	0.00	0.00	0.00	Critical Municipal Infrastructure
Water Pipes	Miles	0.00	0.00	0.00	Critical Municipal Infrastructure
Transmission Lines	Miles	0.00	0.00	0.00	Critical Municipal Infrastructure

	Othe	r Infrastructure Asse	ts: Town of Madbury	
Impacted Asset	Metric	Metric Impact	General Location and Name	
Sewer Lift Station	#	0	N/A	
	44	0	N/A	
Dams	#	0	N/A	
Graveyards	#	0	N/A	
Historic Districts	#	0	N/A	
Residential Structures	#	0	N/A	
\\\\.	44	0	N/A	
Water Access	#	0	N/A	

Note: Total number of impacted assets were calculated using the greatest lea-level scenario (6.3')



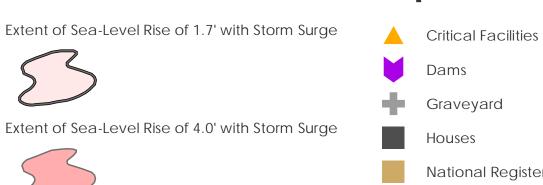
The Climate Risk in the Seacoast: Assessing Vulnerability of Municipal Assets and Resources to Climate Change (C-RiSe) project provides maps and assessments of flood impacts to infrastructure and natural resources in the coastal Great Bay region associated with projected increases in storm surge, sea level, and precipitation.

### TOWN OF MADBURY

Map 4: Extent of Projected Tidal Flooding Sea-Level Rise 1.7', 4.0', 6.3' + Storm Surge

# SLR Legend

## Impact Legend



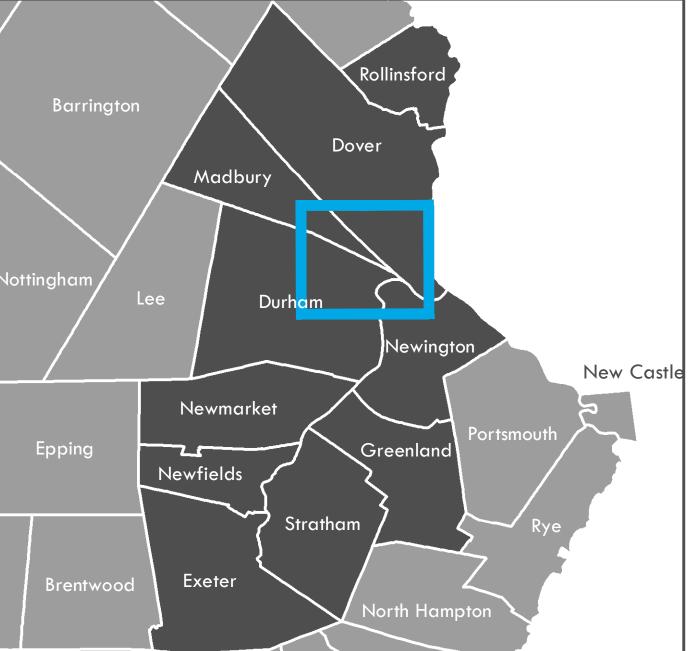
Extent of Sea-Level Rise of 6.3' with Storm Surge

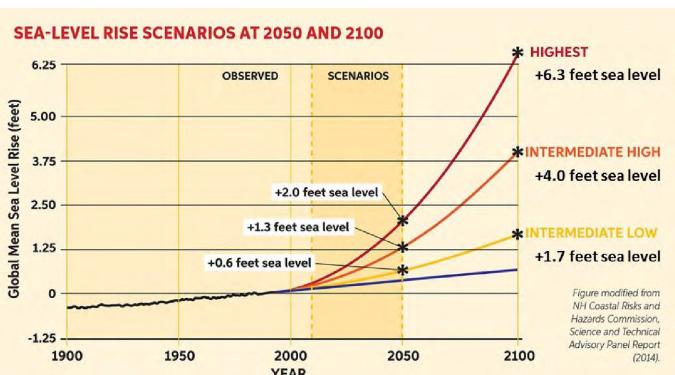
Approximate Mean High High Water Level

National Register of Historic Places Public Water Access Sites Sewer Pipes Transmission Line Water Pipes

There are no infrastructure impacts in Madbury under

#### The building data points shown on this map indicate the relative location of existing structures to the flood scenarios displayed. For the purpose of the C-RiSe assessment, the severity, type, or impact of flooding on these structures was not evaluated.





#### Sea-Level Rise Scenarios

Please note that the sea-level rise scenarios used in this assessment were derived from the Wake, 2011 report (refer to table of values below from this report). These scenarios were selected prior to the release of the Science and Technical Advisory Panel Report to the N.H. Coastal Risks & Hazards Commission, in August, 2014 [1]. While slightly different than the scenarios cited in that report, they yield coverage estimates that are within the mapping margin of error.

[1] Wake CP, Kirshen P, Huber M, Knuuti K, and Stampone M (2014) Sea-level Rise, Storm Surges, and Extreme Precipitation in Coastal New Hampshire: Analysis of Past and Projected Future Trends, prepared by the Science and Technical Advisory Panel (STAP) for the New Hampshire Coastal Risks and Hazards Commission.

	2050		2100	
	Lower	Higher	Lower	Higher
Current Elevation of MHHW a,b	4.4	4.4	4.4	4.4
00-Year Flood Height	6.8	6.8	6.8	6.8
ubsidence	0.0	0.0	0.0	0.0
Sustatic SLR	1.0	1.7	2.5	6.3
otal Stillwater Elevation ac	12.2	12.9	13.7	17.5

Table 13. Estimates (in feet) of future 100-year flood Stillwater elevations at Fort Point under lower and higher emission scenarios (relative to NAVD88) based on the statistical analysis presented in this report.

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Data sets were retrieved from the NH GRANIT database, December, 2015. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Earth Systems Research Center (ESRC), under contract to the Office of Energy & Planning (OEP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OEP nor ERSC make any claim as to the validity or reliability or to any implied uses of these data.

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