

			Road Ass	set Impacts: Town	of Newmarket			
Road Name	Road Class	Miles Impacted	Road Name	Road Class	Miles Impacted	Road Name	Road Class	Miles Impacted
Bay Road	Local	0.03						
Bayview Road	Private	0.03						
Moody Point Drive	Local	0.02						
No Name	Private	0.25						
Smith Garrison Road	Local	0.01						
Treatment Plant Road	Local	0.03						
Water Street	Local	0.01						

State & Municipal Roadways (miles)						
Dondyyay Tyno	Sea Level Scenarios					
Roadway Type	1.7 feet	4.0 feet	6.3 feet			
State	0.00	0.00	0.00			
Local	0.00	0.02	0.09			
Private	0.00	0.10	0.28			
Not Maintained	0.00	0.00	0.00			
Total Road Miles	0.00	0.12	0.37			

Othe	r Transport	ation Asset Impo	acts: Town of Newmarket
Impacted Asset	Metric	Metric Impact	General Location and Name
Urban Compact Areas	Acres	0	N/A
Evacuation Routes	#	0	N/A
Bridges	#	0	N/A
Airports	#	0	N/A
NHDOT Projects	#	1	Bay Road repair
Climate Ready Culverts	#	1	Bay Road over Lubberland Creek

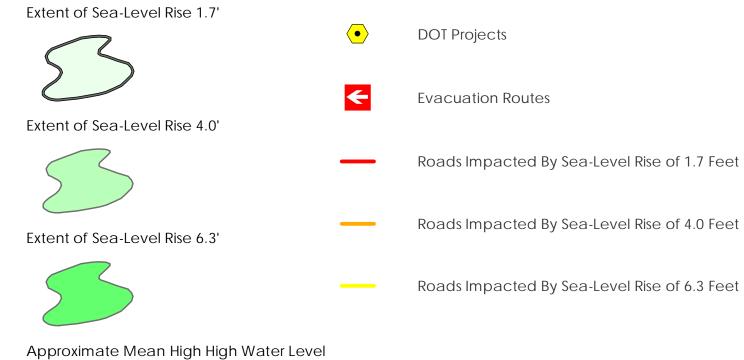


The Climate Risk in the Seacoast: Assessing Vulnerability of Municipal Assets and Resources to Climate Change (C-RiSe) project provides maps and assessments of flood impacts to infrastructure and natural resources in the coastal Great Bay region associated with projected increases in storm surge, sea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

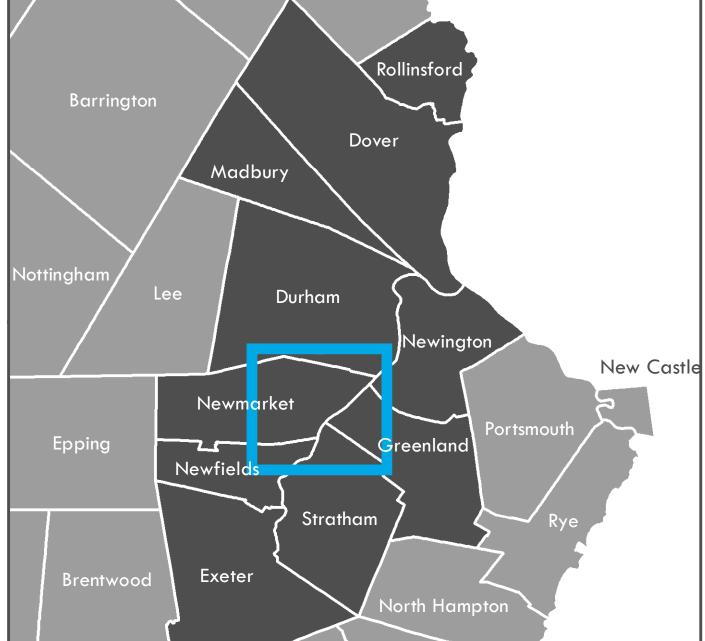
## TOWN OF NEWMARKET

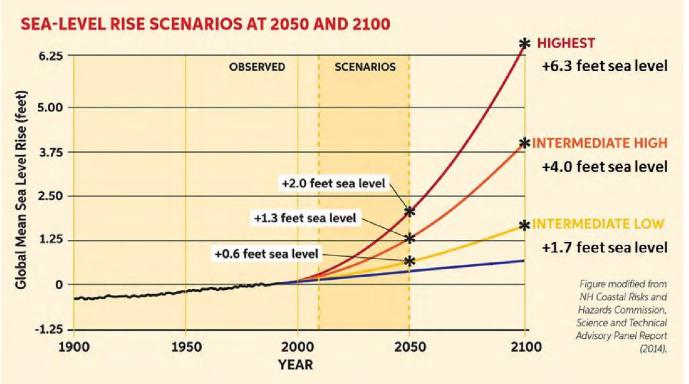
Map 5: Roads and Transportation Assets Sea-Level Rise 1.7', 4.0', 6.3'

## SLR Legend Impact Legend



NHDOT projects were derived from various sources within the New Hampshire Department of Transportation and may have been updated at different times and with varying levels of accuracy. Given redundancies and the need to provide meaningful maps for planning purposes, SRPC generalized projects according to vulnerable areas. A more comprehensive list of impacted projects can be viewed within the community's vulnerability assessment chapter.





## 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		21	2100
	Lower	Higher	Lower	Higher
Current Elevation of MHHW a,b	4.4	4.4	4.4	4.4
100-Year Flood Height	6.8	6.8	6.8	6.8
Subsidence	0.0	0.0	0.0	0.0
Eustatic SLR	1.0	1.7	2.5	6.3
Total Stillwater Elevation a.c	12.2	12.9	13.7	17.5
a - NAVD: North American Vertical Datum of b - MHHW: Mean Higher High Water at Fort c - Total Stillwater Elevation may not equal tota	Point, NH	o rounding		

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. Wake CP, E Burakowski, E Kelsey, K Hayhoe, A Stoner, C Watson, E Douglas (2011) Climate Change in the Piscataqua/Great Bay Region: Past, Present, and Future. Carbon Solutions New England Report for the Great Bay (New Hampshire) Stewards."

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(16 U.S.C. § 1456b).

 $Path: M: \\ \ Newmarket \\ \ Newmarket \\ \ Transportation \\ \ 1\_3.mxd \\ \ Newmarket \\$ 

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

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