

Road Asset Impacts: Town of Durham									State & Municipal Roadways (miles)			Other Transportation Asset Impacts: Town of Durham					
Road Name	Road Class	Miles Impacted	Road Name	Road Class	Miles Impacted	Road Name	Road Class	Miles Impacted	1	D I	Sea Level + Storm Surge Scenarios		ge Scenarios	Incomplete di Annota	Metric	Metric Impact	General Location and Name
Adams Point Road	Private	0.12	Piscataqua Road	State	0.39					Roadway Type	1.7 feet	4.0 feet	6.3 feet	Impacted Asset	Metric	Metric impact	General Location and Name
Back River Road	Local	0.30	Riverview Road	Local	0.03					State	0.05	0.10	0.48	Urban Compact Areas	A	24.4	Neighborhoods near Route 108 along Oyster River and
Bay Road	Local	0.03	Watson Road	Local	0.01						0.05				Acres		Beards Creek
Bunker Lane	Not maintained	0.02								Lasal	0.24	0.50	0.77				Route 4
Cedar Point Road	Local	0.24							Local	0.24	0.58	0.//	Evacuation Routes	#	3	Route 108	
Colony Cove Road	Private	0.01								D : .	0.11	0.14	0.30				Back River Road
Dover Road	State	0.08								Private	0.11	0.16	0.30				Bay Road over Great Bay inlet
Jacksons Landing	Local	0.01								Not Maintained	0.01	0.01	0.02				Route 4 over Johnson Creek
Newmarket Road	State	0.01							inof Maintainea	0.01	0.01	0.02	NHDOT Projects	#	5	Route 4 over Bunker Creek	
No Name	Private	0.17							Total Road Mil	Tatal Dand Mila	s 0.41	0.85	1.57			l	Route 108 bridge replacement over Oyster River
Old Landing Road	Local	0.14								.5 0.41	0.63	1.3/			ľ	Route 108 bike shoulder construction	

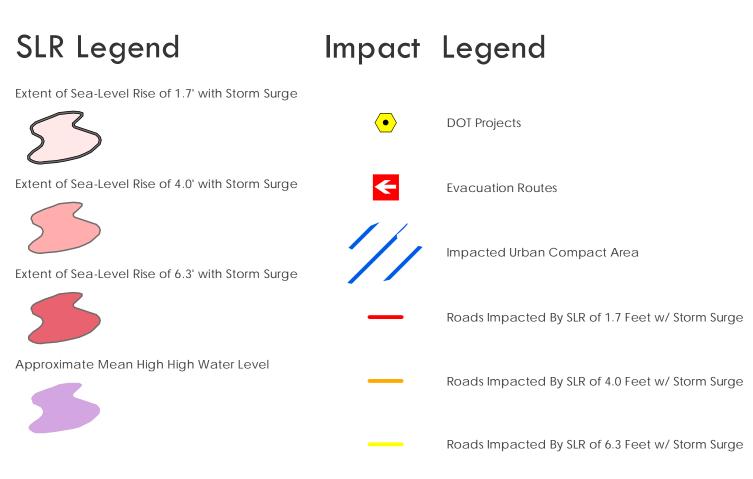
Note: Total number of impacted assets were calculated using the greatest sea-level scenario (6.3') extent + storm surge.



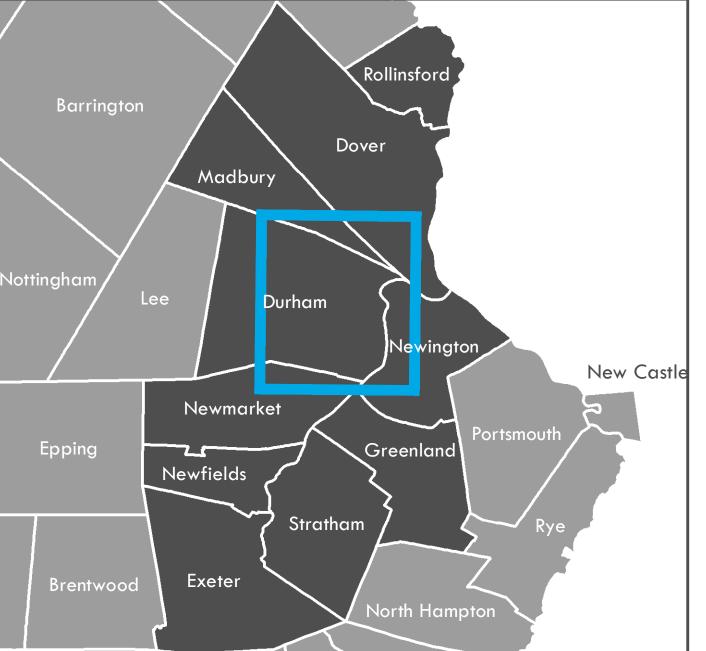
The Climate Risk in the Seacoast: Assessing Vulnerability of Municipal Assets and Resources to Climate Change (C-RiSe) project provides maps and assessments of flood impacts to infrastructure and natural resources in the coastal Great Bay region associated with projected increases in storm surge, sea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

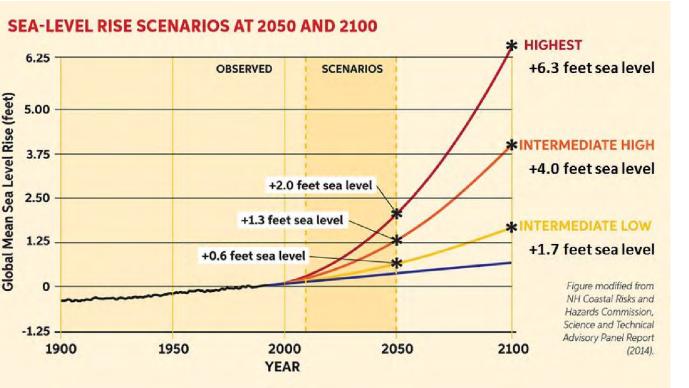
TOWN OF DURHAM

Map 6: Roads and Transportation Assets Sea-Level Rise + Storm Surge 1.7', 4.0', 6.3'



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.

	20	50	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 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. 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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Special Merit for FY 2015, authorized

under Section 309 of the CZMA

(16 U.S.C. § 1456b).

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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