

Road Asset Impacts: Town of Stratham								State & Municipal R		
Road Name	Road Class	Miles Impacted	Road Name	Road Class	Miles Impacted	Road Name	Road Class	Miles Impacted	Donderson Trees	9
Butterfield Lane	Local	0.01							Roadway Type	1.7 fee
Chisholm Farm Drive	Local	0.01							Charle	0.32
College Road	State	0.01							State	0.32
Dunbarton Oask Ext	Local	0.18							Lean	0.10
Morning Star Drive	Local	0.07							Local	0.12
NH Route 101 E	State	0.09							Dutumbo	0.02
NH Route 101 W	State	0.10							Private	0.02
No Name	Private	0.14							Not Maintained	0.00
Squamscott Road	State	0.28							Not Maintainea	
Wingate Court	Private	0.05							Total Road Mile	es 0.46

State & Municipal Roadways (miles)				Oth	er Transpo	tation Asset Impacts: Town of Stratham				
D I	Sea Level Scenarios			1	Impacted Asset	Metric	Metric Impact	General Location and		
Roadway Type	1.7 feet	4.0 feet	6.3 feet		Urban Compact Areas	Acres	0	N/A		
State	0.32	0.33	0.48		Evacuation Routes			Route 108		
						#	3	Route 101		
1 1	0.10	0.17	0.07	1				Squamscott Roo		
Local	0.12	0.17	0.27		Bridges	#	1	Route 101 over Squam		
Private	0.02	0.09	0.18		NHDOT Projects			Squamscott Road metal pip		
	0.02					#	3	Route 108/Stratham Circle to		
NI a to AA a Cantan Cana a I	0.00	0.00	0.00	1				NH 101 earth embankment at		
Not Maintained	0.00	0.00	0.00					Squamscott Road over Jev		
T . I D . I A4*!	0.47	0.50	0.00		Climate Ready Culverts	#	3	Squamscott Road east of Je		
Total Road Miles	0.46	0.59	0.93					Squamscott Pond onst of lo		

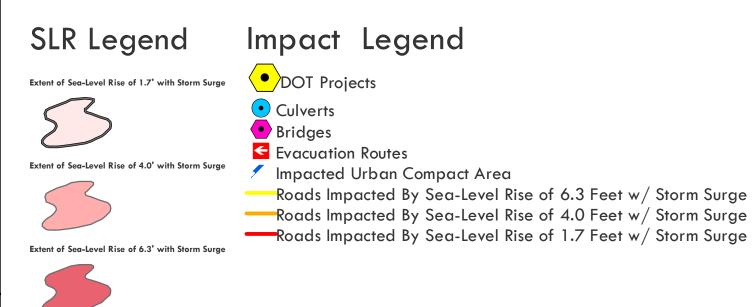
General Location and Name Route 108 Route 101 Squamscott Road Route 101 over Squamscott River Squamscott Road metal pipe replacement Route 108/Stratham Circle to Squamscott River NH 101 earth embankment at Squamscott River Squamscott Road over Jewell Hill Brook Squamscott Road east of Jewell Hill Brook Squamscott Road east of Jewell Hill Brook



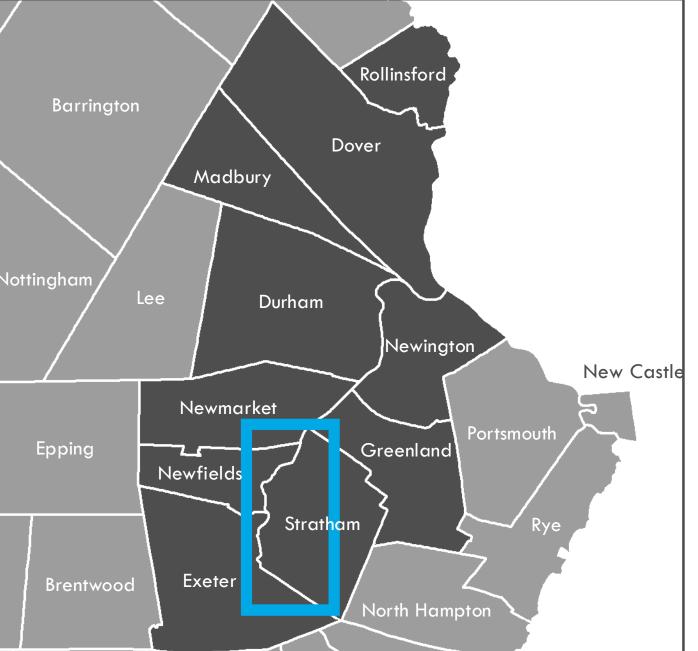
The Climate Risk in the Seacoast: Assessing Vulnerability of Municipal Assets and Resources to Climate Change (C-RiSe) project provides maps and assessments of flood impacts to infrastructure and natural resources in the coastal Great Bay region associated with projected increases in storm surge, sea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

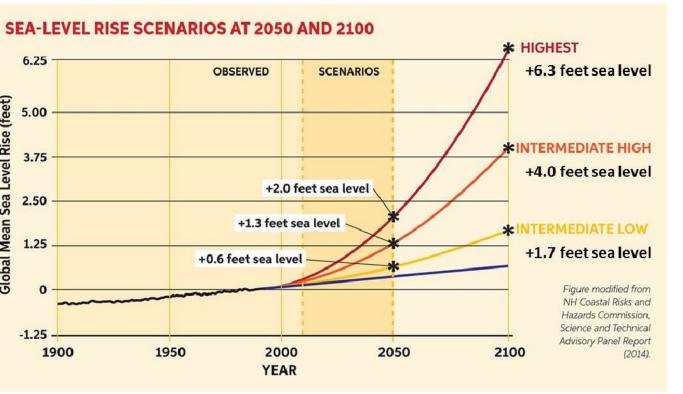
TRANSPORTATION ASSETS: TOWN OF STRATHAM

Extent of Projected Tidal Flooding 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

	2050		21 00		
	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	
ıbsidence	0.0	0.0	0.0	0.0	
astatic SLR	1.0	1.7	2.5	6.3	
otal Stillwater Elevation a.c	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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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. The C-RiSe project is funded by the National Oceanic and Atmospheric Administration under the Coastal Zone

(16 U.S.C. § 1456b).

Special Merit for FY 2015, authorized under Section 309 of the CZMA





