

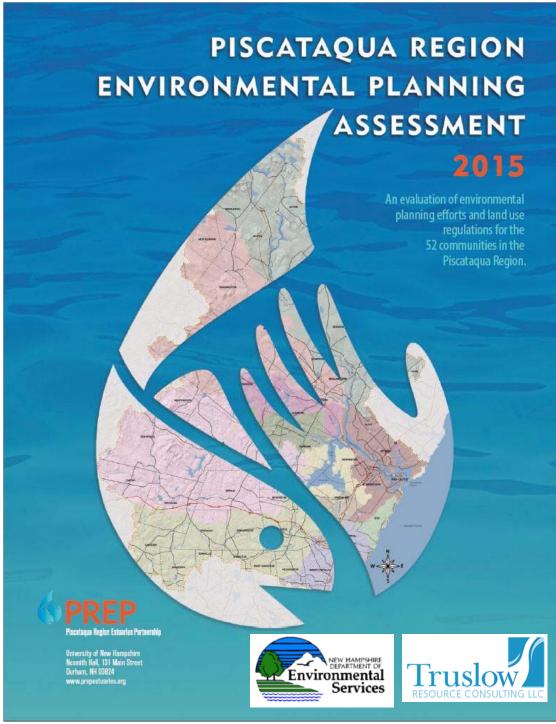
Piscataqua Region Environmental Planning Assessment (PREPA)

Where does your community fit?

Abigail Gronberg, Project Assistant Technical Assistance Program Manager

March 18, 2016





- First PREPA in 2010
- Update initiated in early 2014
- Assessment forms developed with partners
- Sent out to 52 towns with RPC help
- Interview town officials & data input





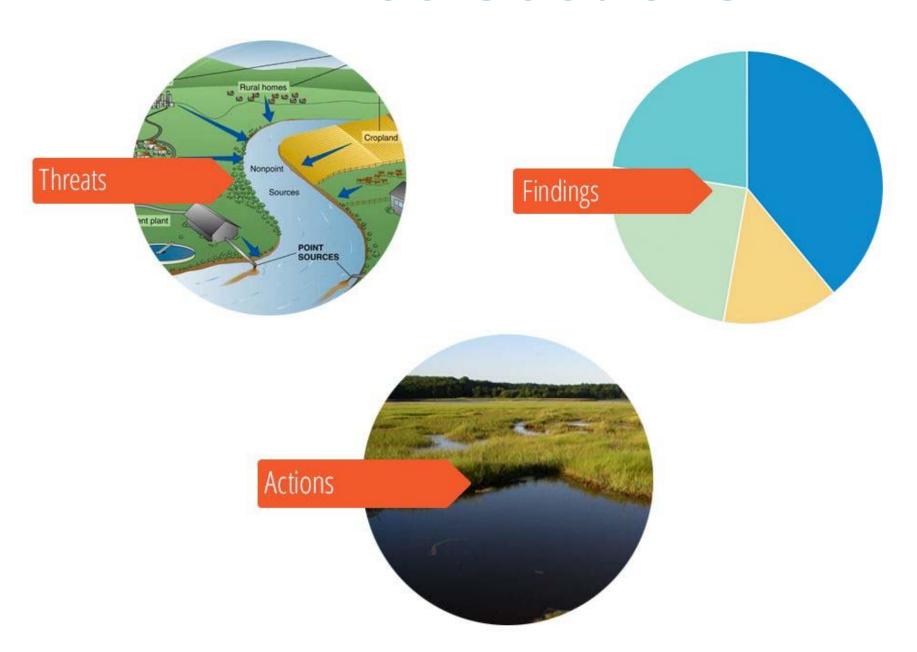




Piscataqua Region Environmental Planning Assessment (PREPA) Form

Municipality Name:Berwick, ME		Regional Planning Commission for municipality: SMPDC				
Name of person completing form:Dave Carpent		•				
Ordinances, regulations, reports reviewed as pathe "Doc. Ref #" column to cite the source of inform Land Use Ordinance 01-001 Comprehensive Plan 01-002 Subdivision Regulations 01-003				ach document, and write this number in		
Name(s) of municipal contacts (i.e. code enforcement officer, Cons. Com. Chair, Planning Board Chair, etc.) interviewed:Planner: John Stoll						
Name(s) of municipal staff (if any) that help the municipality with environmental planning issues. Please note the percent (%) of time that their position allows them to work specifically on environmental planning. Planner: John Stoll @ 20%						
Directions: Fill out one data form per municipality. Fill out the form electronically - <u>no handwritten forms please</u> . For yes or no questions, please check one answer. For blanks without a yes or no, write in the appropriate date, distance, checkmark, or narrative description as prompted by the question. Most questions apply to municipalities in both Maine (ME) and New Hampshire (NH). Questions that only apply to one state are flagged with a (ME) or (NH). Each grey box corresponds to an area that can be checked or can have a narrative answer typed into it.						
Conservation Fundamentals						
	Check One	(yes or no)	Doc.Ref.#	Document URL or Additional Comments:		
Does the municipality have a Conservation Commission?	yes□	no⊠				
Does the municipality have a Code Enforcement Officer?	yes⊠	no□	01-001	www.berwickmaine.org		
Does the municipality have a completed Natural Resource Inventory (NRI) as part of its Comprehensive or Master Plan?	yes⊠	no	01-002			
Year Adopted:						
Natural Resource Chapter in Master Plan (NH)?	yes□	no 🗌				
Year Adopted:						
Comprehensive Plan locally approved (ME)?	yes⊠	no 🗌	01-002			
Year Approved:	1999					
Comprehensive Plan has state consistency approval (ME)?	yes⊠	no□				
Year Approved:	1999					

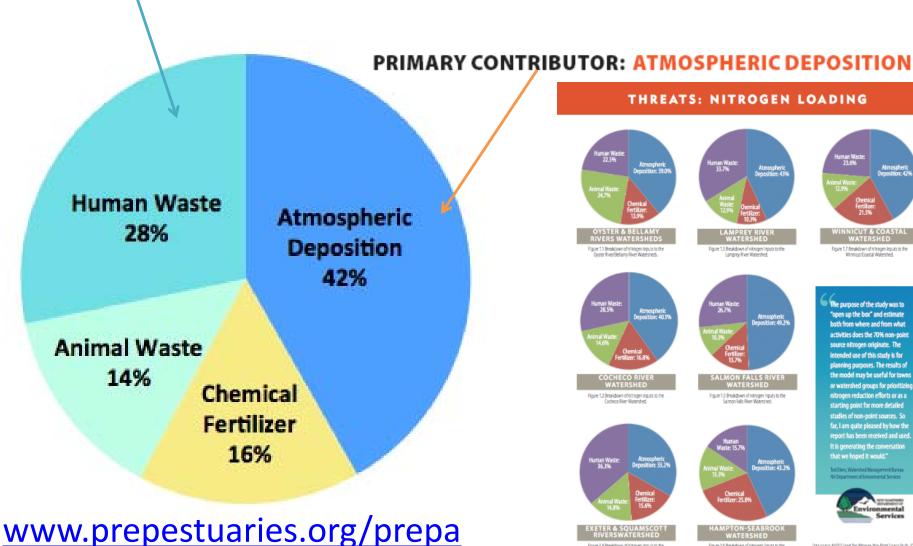
Three Sections



THREATS: NITROGEN LOADING

Non-Point Sources

SECOND CONTRIBUTOR: HUMAN WASTE



Impervious surface (4.0%) Conserved land (13.8%) Salmon Falls Lamprey Oyster-Bellamy Winnicut-Coastal Atlantic Ocean Exeter-Squamscott Hampton-Seabrook

Note: High resolution impervious surface mapping was not available for Brookfield and Wakefield, New Hampshire and communities in Maine. Lower resolution impervious surface mapping was used for these communities.

THREATS: IMPERVIOUS COVER

Balance is key.
PREP recommends
no more than 10%
impervious cover and
no less than 20%
conservation land in
a watershed.

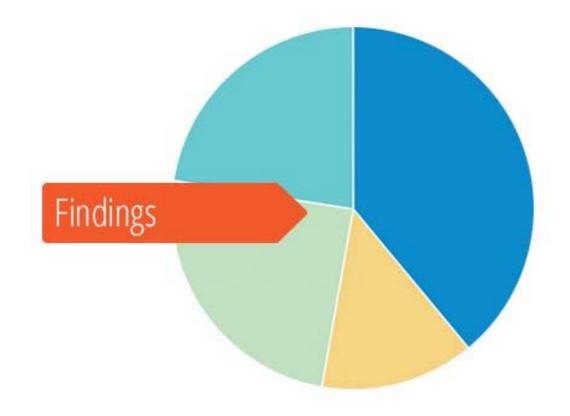
THREATS: CLIMATE CHANGE

Climate change impacts are likely to contribute additional stress to coastal habitats that we are working to conserve and restore.

PREDICTED IMPACTS			
Precipitation (Frequency and Intensity)	1		
Snowmelt	1		
Snow accumulation	1		
Coastal flooding (frequency and intensity)	1		
Sea Level Rise	1		



King Tide Photo 2014 by Ron Sher



Report cards calculated based on the responses to the assessment questions regarding the **4 topics** and what percentage attain the **minimum protective standards** suggested by NHDES or PREP.

WATERSHED FINDINGS

Freshwater Wetlands

Shoreland Protection

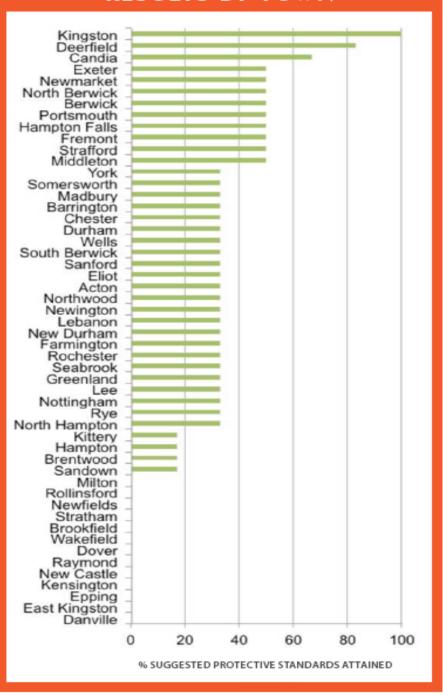
Stormwater Management

Climate Change

Freshwater Wetlands

- Does the municipality have designated "prime" wetlands (NH) or "significant" wetlands (ME), and adopted local regulations to protect these wetlands?
- Do municipal regulations offer explicit protection of vernal pools?
- Does the municipality have a No Soil Disturbance of No Vegetation Disturbance buffer requirement greater than or equal to 100'?
- 1. Does the municipality have a Septic Setback requirement greater than or equal to 100'?
- 1. Does the municipality have a Building Setback requirement greater than or equal to 100'?
- Does the municipality have a Fertilizer Application Setback requirement greater than or equal to 100'?

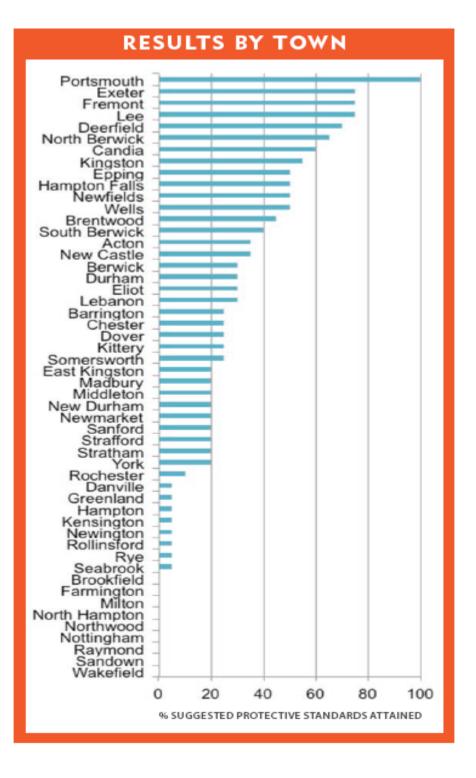
RESULTS BY TOWN



Shoreland Protection

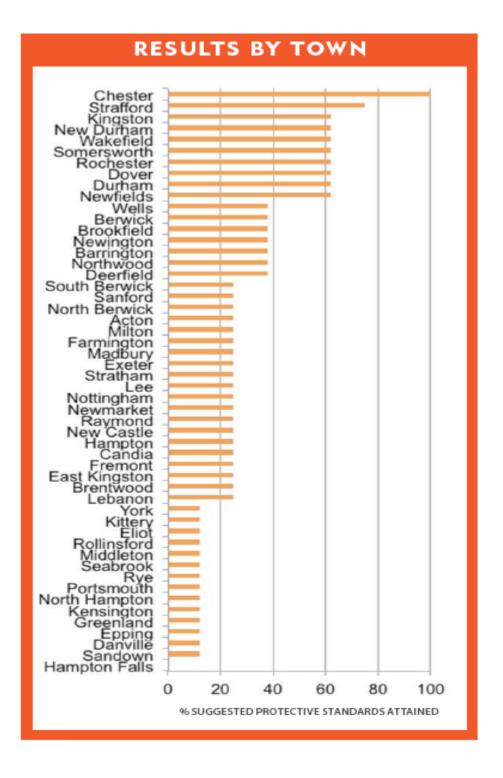
For 1st -4th order streams, lakes, and ponds:

- 1.Does the municipality have a No Vegetation Disturbance or Managed Buffer requirement greater than or equal to 75'?
- 2.Does the municipality have a Septic Setback requirement greater than or equal to 100'?
- 3.Does the municipality have a Primary Structure Setback greater than or equal to 100'?
- 4.Does the municipality have a Fertilizer Application Setback requirement greater than or equal to 100'?



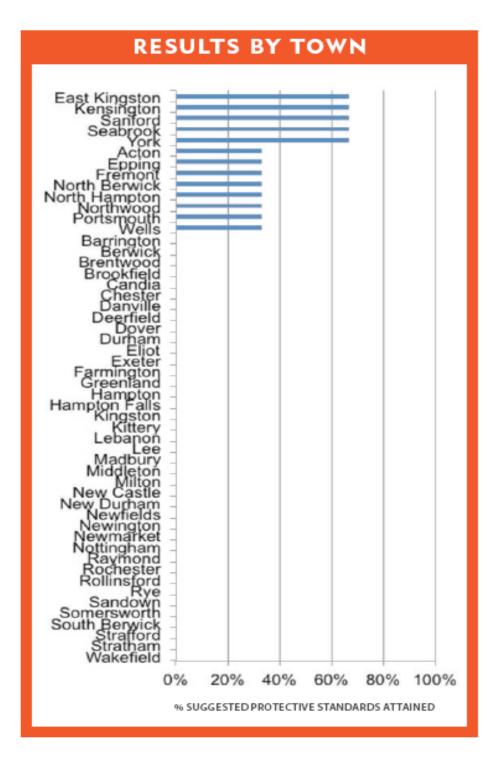
Stormwater Management

- 1. Does the municipality have stormwater management regulations?
- 2. Does the municipality have less than or equal to 9% impervious cover?
- 3. Is the minimum area of soil disturbance that "triggers" application of the municipality's stormwater management regulations less than or equal to 20,000 sq. ft.?
- 4. Does the municipality have a cap of 10% effective impervious cover (EIC) for new development in residentially zoned lots of 1 acre or more?
- 5. Do the municipality's existing regulations require the use of Low Impact Development (LID) techniques to the maximum extent practicable for new development and re-development?
- 6. Do the municipality's stormwater management regulations reflect the minimum design criteria for water quality volume/flow (WQV/WQF), groundwater recharge volume (GRV), and peak flow control defined in the NH Stormwater Management Volume 2?



Climate Change

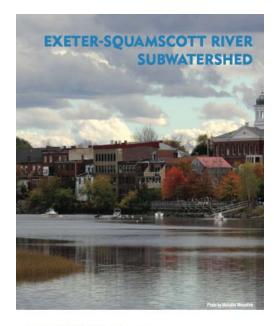
- 1. Has the municipality completed some form of climate change vulnerability assessment?
- 1. Has the municipality completed some form of climate change adaptation planning effort?
- 1. Has the municipality adopted regulatory changes intended to reduce the municipality's vulnerability to potential climate change impacts?





WATERSHED ACTIONS

- Increase naturally vegetated buffers
- Increase setback requirements
- Adopt regulations for fertilizer application
- Adopt model stormwater regulations
- Conduct a climate vulnerability assessment
- Increase land conservation efforts



PISCATAQUA REGION ENVIRONMENTAL PLANNING ASSESSMENT 2015

Exeter-Squamscott River Subwatershed, including: Brentwood, Chester, Danville, East Kingston, Exeter, Fremont, Kensington, Kingston, Newfields, Sandown, Stratham

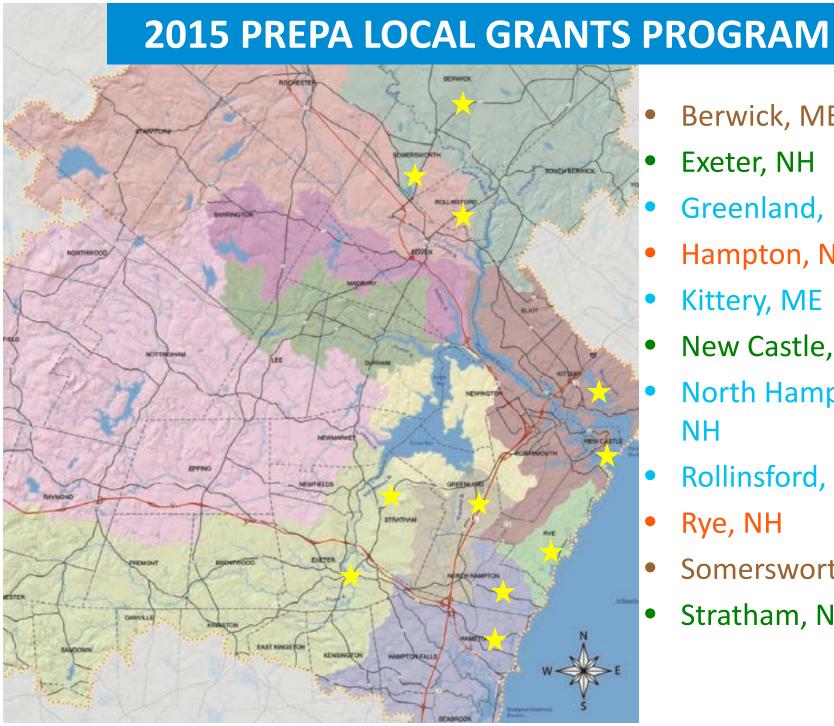


KEY RESOURCES FOR ACTION

Southeast Watershed Alliance's Model Stormwater Ordinance

Land Conservation Plans for New Hampshire and Maine

New Hampshire Coastal Adaptation Workgroup Resources



- Berwick, ME
- Exeter, NH
- Greenland, NH
- Hampton, NH
- Kittery, ME
- New Castle, NH
- North Hampton, NH
- Rollinsford, NH
- Rye, NH
- Somersworth, NH
- Stratham, NH

www.PREPestuaries.org/PREPA





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Join the Community for Clean Water 🔛 @PREPCommunity 📑 /PREPCommunity





