

DRINKING WATER & GROUNDWATER  
TRUST FUND  
*RENEWED INVESTMENT IN  
LOCAL WATER SUPPLY INFRASTRUCTURE  
& SOURCE PROTECTION*

Loans and Grants

May 16, 2018



NEW HAMPSHIRE DRINKING WATER  
& GROUNDWATER TRUST FUND

Johnna McKenna & Paul Susca  
Drinking Water and Groundwater Bureau



# TRUST FUND BACKGROUND

- Created in 2016 by SB380
- Using \$270M from Exxon-Mobil ruling
- Established under RSF 485-F
- Purpose
  - Provide for the protection, preservation, and enhancement of the drinking water and groundwater resources of the state

# Advisory Commission Members

Senator Chuck Morse, Chair	Member of N.H. Senate
Rep. Chris Christensen, Vice Chair	Member of N.H. House of Representatives
Senator Daniel Feltes, Clerk	Member of N.H. Senate
Rachel Miller	State Treasurer or Designee
Rep. Suzanne Smith	Member of N.H. House of Representatives
Clark B. Freise	Governor or Designee
Lisa Morris	Director of the Division of Public Health Services, DHHS
Robert R. Scott	Commissioner of NHDES
Christopher S. Way	Director of Economic Development, DRED
Paul Sanderson	Executive Director of Fish and Game Department
Tim Vadney, P.E.	NH Water Pollution Control Association
Dorothy Kurtz	Business Community
Richard Russman	State or Regional Land Trust
David Paris	NH Water Works Association
Bernie Rousseau	Public Member With Experience in Treatment or Delivery of Drinking Water
Andrea Kenter, P.G.	Public Member Representing Private Well Owners
Bruce Bretton	Selectman from Town Without Public Drinking Water
William W. Boyd, III	Town Council Member from Town With Public Drinking Water
Rodney Bartlett	Public Member

19 Member  
Advisory  
Commission

# ADVISORY COMMISSION

- Make funding decisions
  - Program vision
  - Established a Sub-Committee to propose a framework for awards
    - Framework was established through public meetings and a stakeholder input session
-

# GOALS OF THE TRUST FUND

- Maximize the benefits achieved through the use of the Trust Fund
- Extend the longevity of the funds by emphasizing loans over grants
- Maintain flexibility of the Commission
- Provide funding for source protection and other non-construction efforts
- Protect the SRF program by maintaining use of those funds

# Drinking Water & Groundwater Trust Fund List of Potential Drinking Water Projects

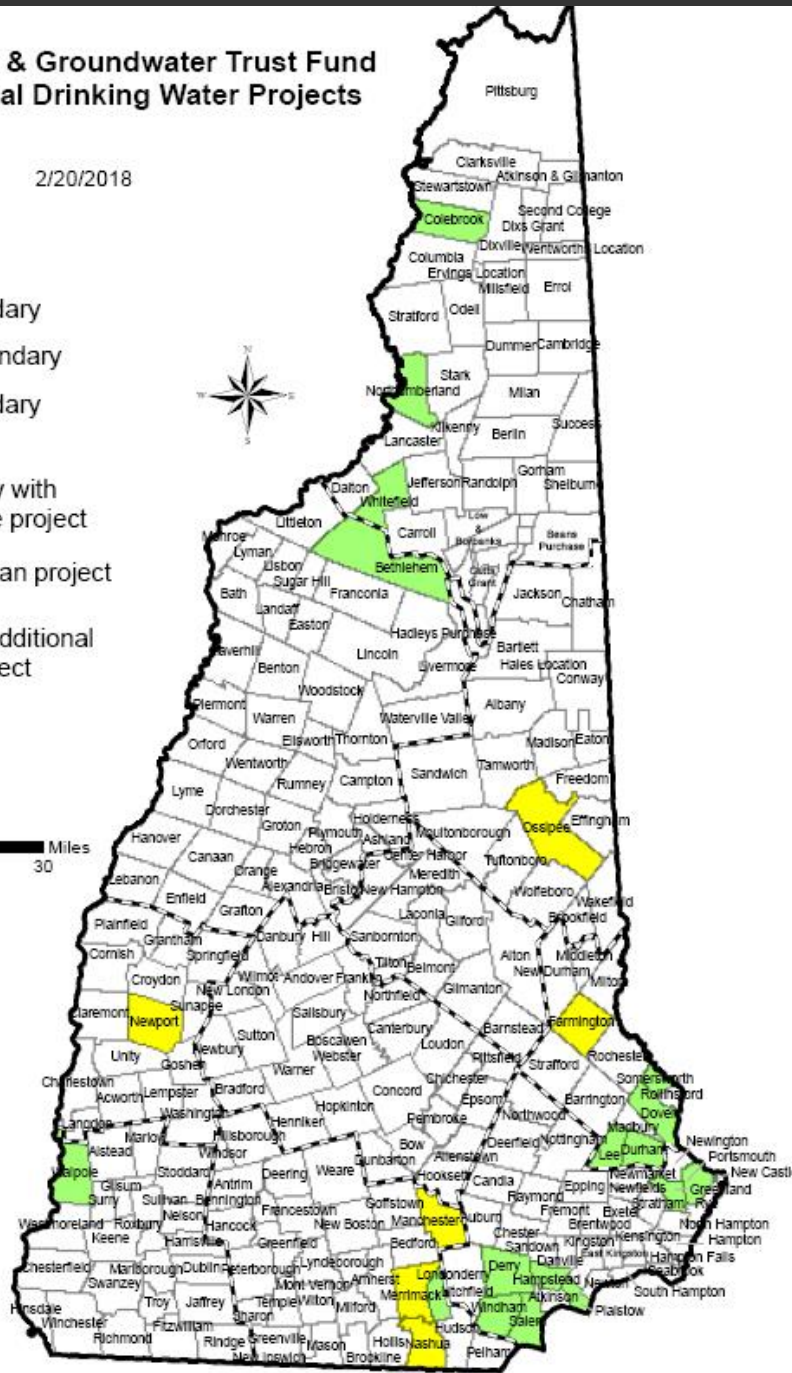
2/20/2018

## Legend

-  Town Boundary
-  County Boundary
-  State Boundary
-  Municipality with at least one project
-  Potential loan project
-  Loan and additional priority project



0 5 10 20 30 Miles



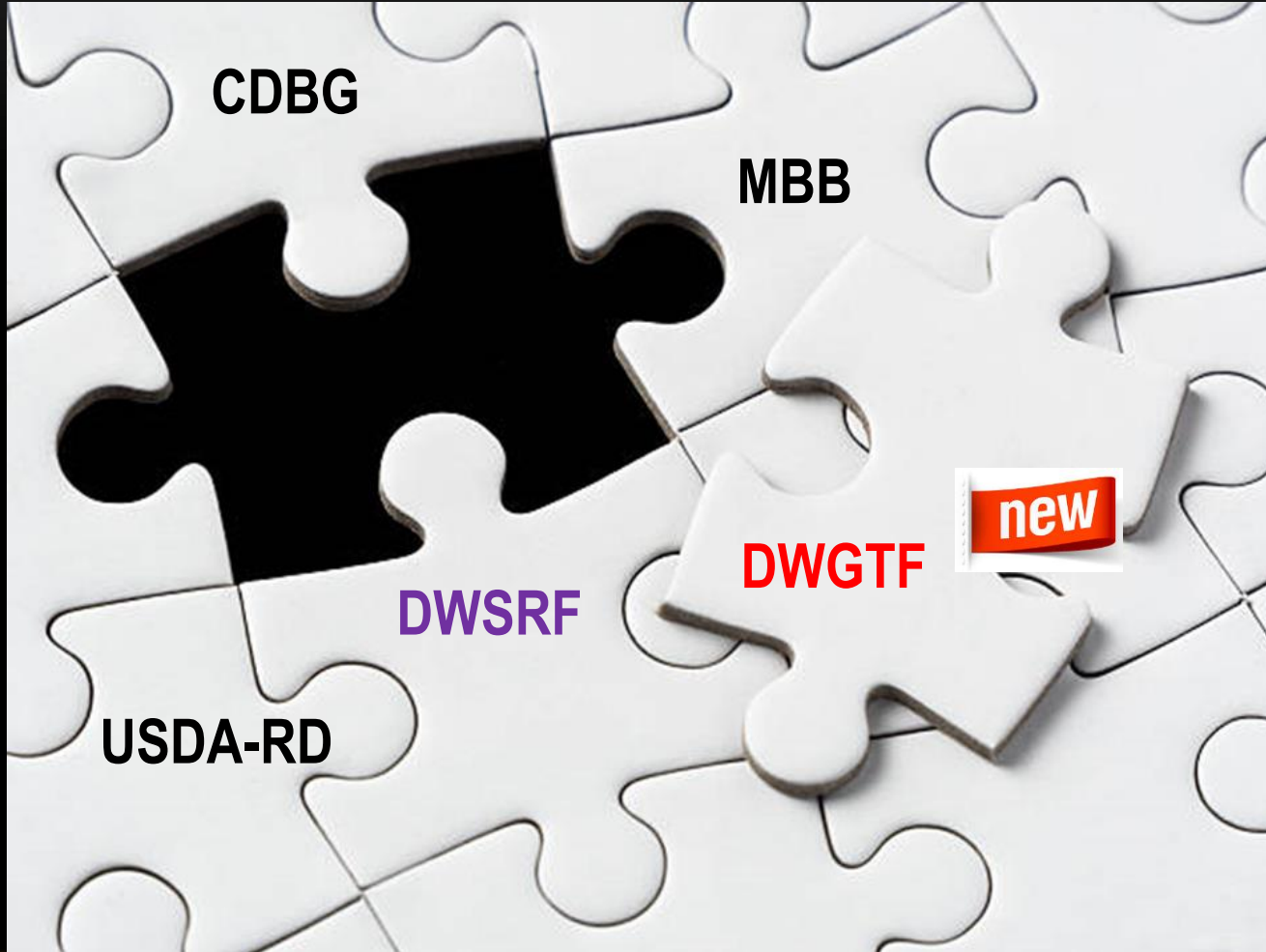
# INITIAL ROUND OF FUNDING

- **Advisory Commission approved \$35M in projects in November 2018**

# CONSTRUCTION PROJECTS



# DWSRF & TRUST FUND





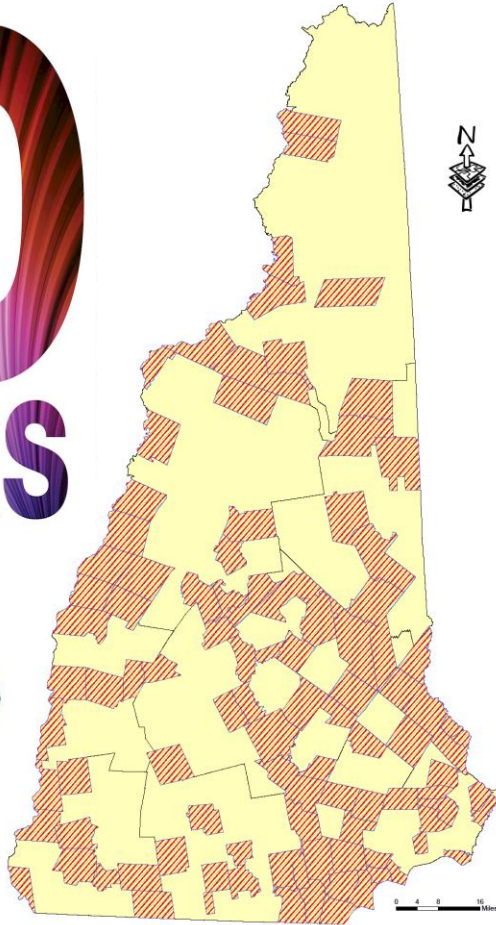
# DW INFRASTRUCTURE INVESTMENT IN NH

Public Water Systems receiving  
DWSRF Construction Funding

20  
YEARS

LEGEND

- Towns w/ Funded Projects
- County Boundaries



GAME CHANGER  
EVENT



NEW HAMPSHIRE DRINKING WATER  
& GROUNDWATER TRUST FUND

\$276M

\$300M in Loans for 260+ projects

# FUNDING AVAILABLE FOR 2018

## Construction

DWSRF

\$7M



DWGTF

~\$50M

\$57,000,000

# AVAILABLE FUNDING PROGRAMS

## Loans & Grants

- Loans
  - No minimum, no maximum
  - Only pay back what you borrow
  - No closing costs
  - Simple loan process
  - No pre-payment penalty
  - 1% construction interest until project completion
  - Repayment begins 1 year after substantial completion (6 months for privately owned systems)

# EXAMPLE LOAN TERMS & RATES

Term	Sample DWSRF Rate (%)	Sample DWGTF Rate (%)
5 years	0.835	3.34
10 years	1.67	3.34
15 years	2.505	3.34
20 years	2.672	3.34
30 years	2.672*	3.34
40 years	n/a	3.34

# “GRANTS”

## DWSRF

### Principal Forgiveness

- Determined by DES
- Based on Affordability Index
  - MHI & Water Rate

## DWGTF

### Grant

- Determined by the Advisory Commission
- Need justification
- Last piece of the funding puzzle
- No more than 50%

# WHO CAN APPLY

- Municipalities
  - Community Water Systems
  - Non-community/non-profit water systems
    - Publicly and privately owned
-

# ELIGIBLE PROJECTS

- Source exploration & development
- Treatment
- Interconnection
- Storage Facilities
- Pump Stations
- Water Main Rehab and Replacement
- Meters

- Growth related expansion
- Improvements related to emerging contaminants
- Dams for drinking water supplies



# REQUIREMENTS

## DWSRF

- Environmental Review
- Asset Management
- Davis Bacon
- American Iron & Steel
- Disadvantaged Business
- Single Audit (\$750K)

## DWGTF

- Environmental Review
- Asset Management





**DWSRF and DWGTF  
PRE-APPLICATION FORM**  
For Drinking Water Infrastructure  
Improvement Projects Loans and/or Grants



RSA/Rule: RSA 486:14, Env-Dw 1100

RSA/Rule: RSA 485-F

The NHDES Drinking Water State Revolving Fund (DWSRF) and Drinking Water and Groundwater Trust Fund (DWGTF) are seeking pre-applications for drinking water infrastructure improvement projects. Project rankings for the DWSRF program will be based on compliance with the Safe Drinking Water Act, protection of public health and affordability of water service. Pre-applications not funded by DWSRF and all grant requests will be forwarded to the DWGTF Advisory Commission for review and selection.

**The deadline for submission is June 15, 2018.**

More information about the two funding programs is available at:

DWSRF - <https://www.des.nh.gov/organization/divisions/water/dwgb/capacity/dwsrf.htm>

DWGTF - <https://www4.des.state.nh.us/nh-dwg-trust/>

SECTION 1 – APPLICANT AND PROJECT INFORMATION			
1.1 APPLICANT INFORMATION			
APPLICANT NAME:			
ORGANIZATION NAME:			
PWS # (if applicable):			
ADDRESS:			
CITY:	NH	ZIP:	
CONTACT PERSON:	TITLE:		
PHONE:	EMAIL:		
MEDIAN HOUSEHOLD INCOME (MHI): \$			
<i>If known, MHI of population served (using the results of a recent income survey or latest data from the American Community Survey). Note: An income survey may be required for small, privately-owned water systems serving portions of a community where the survey data does not accurately reflect the income of the residents.</i>			
CURRENT ANNUAL RESIDENTIAL WATER RATE: \$			
<i>Based on 71,996 gallons/year. If cost of water is included in other charges (rent, condominium fee), break out the estimated annual cost per unit of water. NHDES may request back-up documentation as these figures are used to determine affordability.</i>			
1.2 FUNDING REQUEST			
PROJECT NAME:			
REQUESTED LOAN AMOUNT: \$			
REQUESTED LOAN TERM: Choose an item.			
<i>*The loan should not exceed the useful life of the financial improvement(s).</i>			
REQUESTED GRANT AMOUNT: \$			
OTHER FUNDS CONTRIBUTING TO THE PROJECT (from Section 2.2): \$			
1.3 PROJECT INFORMATION			
SELECT ONE: <input type="checkbox"/> Design/Preliminary Engineering Only <input type="checkbox"/> Design and Construction <input type="checkbox"/> Construction Only			
PROJECT DESCRIPTION: Provide a concise summary of the project.			

[johnna.mckenna@des.nh.gov](mailto:johnna.mckenna@des.nh.gov) (603) 271-7017 | [richard.skarinka@des.nh.gov](mailto:richard.skarinka@des.nh.gov) (603) 271-2948

PO Box 95, Concord, NH 03302-0095

[www.des.nh.gov](http://www.des.nh.gov)

# PRE-APPLICATION

## June 2018

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

# PRE-APPLICATION

- One Pre-Application for both programs (DWSRF & DWGTF)
- One Pre-Application for loans and/or grants
- Will need more information than the typical DWSRF Pre-App
  - Need to be comprehensive for the AC who may not be as familiar with your water system (be informative but brief)
- Put your best foot forward

# PRE-APPLICATION (CONT.)

- For projects that will have started construction in 2019
- Every project should identify all sources of funding for the project (local sources, developers, USDA-RD, etc.)
  - Have a Plan B for any funding sources not secured (e.g. grant)

# PRE-APP REVIEW & RANKING

- DES-DWSRF
  - 1. Rank all eligible pre-apps (loan portion only)
  - 2. Forward project list to Advisory Commission
- DWGTF Advisory Commission
  - 1. Review pre-apps
    - DWSRF ranking does not equal selection
  - 2. Select projects for TF loan & grant funding

# SAMPLE PROJECT PRIORITY LIST (PPL)

## SAMPLE 2018 DWSRF & DWGTF PROJECT LIST PPL

Rank	PWS ID#	APPLICANT	LOCATION	PROJECT NAME	POP	LOAN REQUEST	GRANT REQUEST	TOTAL DWSRF SCORE	ELIGIBLE FOR DWSRF FORGIVENESS
<b>DWSRF PROJECT FUNDING</b>									
1	2194010	Coos County Farm	West Stewartstown	Coos County Complex Interconnection with W. Stewartstown	228	\$900,000	\$225,000.00	130	yes
2	2232010	Glengarry Condominium Association	Stratham	Glengarry Condominium Water System Improvements	171	\$383,000	\$0.00	122	no
3	0162070	Linderhof	Bartlett	Replacement of tanks and upgrade water lines	295	\$250,000	\$0.00	116	no
4	1141020	Emerald Lake Village District	Hillsboro	ELVD Drinking Water Infrastructure Improvement	1,300	\$400,000	\$50,000.00	105	yes
5	1212140	Tyrol Well A	Jackson	Tyrol Well A Well Replacement	33	\$235,000	\$0.00	99	no-seasonal
6	0801010	Exeter Water Dept	Exeter	Surface Water Treatment Plant Upgrade (DBPs)	11,000	\$1,500,000	\$150,000.00	84	yes
7	2301020	West Swanzey Water Co. Inc.	West Swanzey	Installing a SCADA system	203	\$26,400	\$2,600.00	84	yes
8	1603010	Rolling Acres MHP	Mont Vernon	Rolling Acres - New Well House and Distribution	100	\$300,000	\$0.00	82	no
9	0612210	Old Coach Village Condo Association	Derry	OCVA Pump House Replacement	50	\$108,000	\$0.00	82	no
10	1392070	Midridge Condominium Association	Londonderry	Midridge Water Line Replacement	100	\$147,500	\$0.00	78	no
11	1661010	New Castle Water Works	New Castle	Water System Improvements - New Castle	800	\$5,500,000	\$0.00	74	no
<b>DWGTF PROJECT FUNDING</b>									
12	0851010	City of Franklin	Franklin	Pressure Reducing Vault	7,000	\$250,000	\$62,500.00	72	yes
13		Town of Plaistow	Plaistow	Water Supply Improvements	915	\$2,000,000	\$500,000.00	71	no
14	0231010	Berlin Water Works	Berlin	Water Main Replacement	9,500	\$1,500,000	\$300,000.00	69	yes
15	1481010	Marlborough Water Works	Marlborough	2018 Water Main Replacement Project	750	\$1,250,000	\$125,000.00	69	yes
16	0142010	PEU Locke Lake	Barnstead	Locke Lake New Groundwater Source	2,145	\$4,240,000	\$400,000.00	68	yes
17	1793030	Northwood Mountain View MHP	Northwood	Well House Upgrade and Metering	148	\$213,330	\$25,000.00	68	no
18	1032090	Glenwood North	Hampstead	Well pump and piping upgrade	50	\$25,000	\$0.00	68	no
19	0101010	Ashland Water and Sewer Department	Ashland	Ashland Roadway & Utility Reconstruction Project	1,500	\$1,799,420	\$269,000.00	65	yes
20	0101010	Ashland Water and Sewer Department	Ashland	Winona Road Water Line Replacement	1,500	\$265,000	\$180,000.00	65	yes
21	0061010	Alton Water Works	Alton	Bay main replacement, tank restoration	1,750	\$200,000	\$100,000.00	63	yes
22	2051010	Salem Water Works	Salem	South Broadway Water Main Improvements	20,000	\$3,440,000	\$0.00	58	no
23	0201010	Belmont Water Department	Belmont	Depot Street/Pout Pond Water Supply Well	1,612	\$2,500,000	\$500,000.00	53	n/a
24	1621010	Pennichuck Water Works	Nashua	Pennichuck Core Water Main Replacement	87,682	\$3,375,000	\$0.00	50	n/a
25	0112100	Atkinson Woods Owners Association	Atkinson	Filter Installation	140	\$25,000	\$5,000.00	48	n/a
26	1471010	Manchester Water Works	Manchester	Merrimack River Well Collector Water Treatment Plant	133,000	\$13,000,000	\$750,000.00	45	n/a
27	1531010	Merrimack Village District	Merrimack	Turkey Hill Booster Pumping Station	25,000	\$1,300,000	\$0.00	43	n/a
28	1741010	Newport Water Works	Newport	New Groundwater Supply	5,000	\$572,800	\$50,000.00	42	n/a
29	1321010	City of Lebanon	Lebanon	CSO # 13	10,050	\$47,000	\$4,000.00	40	n/a
30	1321010	City of Lebanon	Lebanon	CSO # 12	10,050	\$142,000	\$14,000.00	40	n/a
31	1741010	Newport Water Works	Newport	Filtration Plant and Water System SCADA Upgrade	5,000	\$117,900	\$10,000.00	40	n/a
32	1741010	Newport Water Works	Newport	1st, 2nd, 3rd & 4th Streets Infrastructure Project	5,000	\$1,507,000	\$304,000.00	40	n/a
33	0811010	Farmington Water Department	Farmington	System-wide Water Meter Replacement	3,000	\$588,000	\$50,000.00	25	n/a
34	1843010	Ossipee Mountain Estates	Ossipee	New Water Distribution System and Well House Upgrades	255	\$613,251			
<b>INELIGIBLE FOR DWSRF</b>									
	2563010	Birch Hill Estates	Wolfeboro	Water Tank Cleaning and Rehabilitation	159	\$10,000			

Total Loan Funds Requested:	\$48,730,601	
Total Grant Funds Requested:		\$4,076,100.00
Total Funds Available for DWSRF Loans	\$7,300,000	
Total Funds Available for DWGTF Loans & Grants	\$50,000,000	

# CONSTRUCTION PROJECTS PROCESS

Pre-Application

Final Application

Loan/Grant Documents

Design & Contracts

Construction

Project Completion

Repayment

# CONSTRUCTION PROJECTS TIMELINE

April 18-June 15

- Pre-Apps Submitted

June 16-July 23

- Reviewed & Ranked by DES

Week of July 23rd

- Draft Project List Released/Forwarded to AC

August 16

- Public Comment Period Closes for DWSRF

August-October

- AC reviews and selects projects for funding

Fall 2018 – June 2019

- Funded projects submit final application

# KEY POINTS

- This is the process for 2018
  - Primarily a loan program
  - Be on the “PPL”
  - DES makes decisions on DWSRF
  - Advisory Commission makes decisions on DWGTF loans & grants
  - DWSRF and DWGTF work together
-





NEW HAMPSHIRE DRINKING WATER  
& GROUNDWATER TRUST FUND

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# Grants for Land Conservation Projects

# 4 DOCUMENTS

- Search “NH DWG Trust Fund”
  - Lower right: “Recent Posts” – select “Loans and Grants Workshop”
    - Left side: “Onestop Data Mapper handout (PDF)”
- Back to NH DWG Trust Fund home page
  - “APPLICANTS & RECIPIENTS” tab
    - “Non-Construction Projects”
      - Application Form for Trust Fund Land Conservation Grant Program
      - Trust Fund Land Grant Program Guidelines
      - Eligibility Application Form for Trust Fund Land Conservation Grant Program

## The Multiple Barrier Approach to Protecting Public Health

The multiple barrier approach provides “defense in depth” against waterborne pathogens and chemical contaminants that can cause a variety of illnesses and conditions, some of them potentially fatal. By erecting barriers against these contaminants at each step in the process from raw, untreated source water to the delivery of treated finished water, system owners and operators can protect the health and well being of the people who rely on them for potable water.



### Source Water

**Barriers:** Selecting and protecting the best source of supply.



### Treatment

**Barriers:** Installing treatment methods, implemented by a certified operator, that will improve the quality of the source water.



### Storage and Distribution

**Barriers:** Constructing, operating, and maintaining well-engineered storage facilities and distribution systems.



### Monitoring and Public Information

**Barriers:** Providing consumers with information on water quality and health effects.

Figure 8-6. Multiple-barrier approach to safe drinking water. *Source: USEPA, 2003.*

# USE ALL TOOLS

- Land conservation
- Protective zoning
- Best management practices
- Public education



# LAND AND CLEAN WATER

- Intercept rain
- Slow runoff
- Prevent erosion
- Slowly feed streams
- No pollution sources!



# LAND AND DRINKING WATER

Forest cover  $\uparrow$  10%

=

Water treatment costs  $\downarrow$  20%





# Protecting forested watersheds is smart economics for water utilities

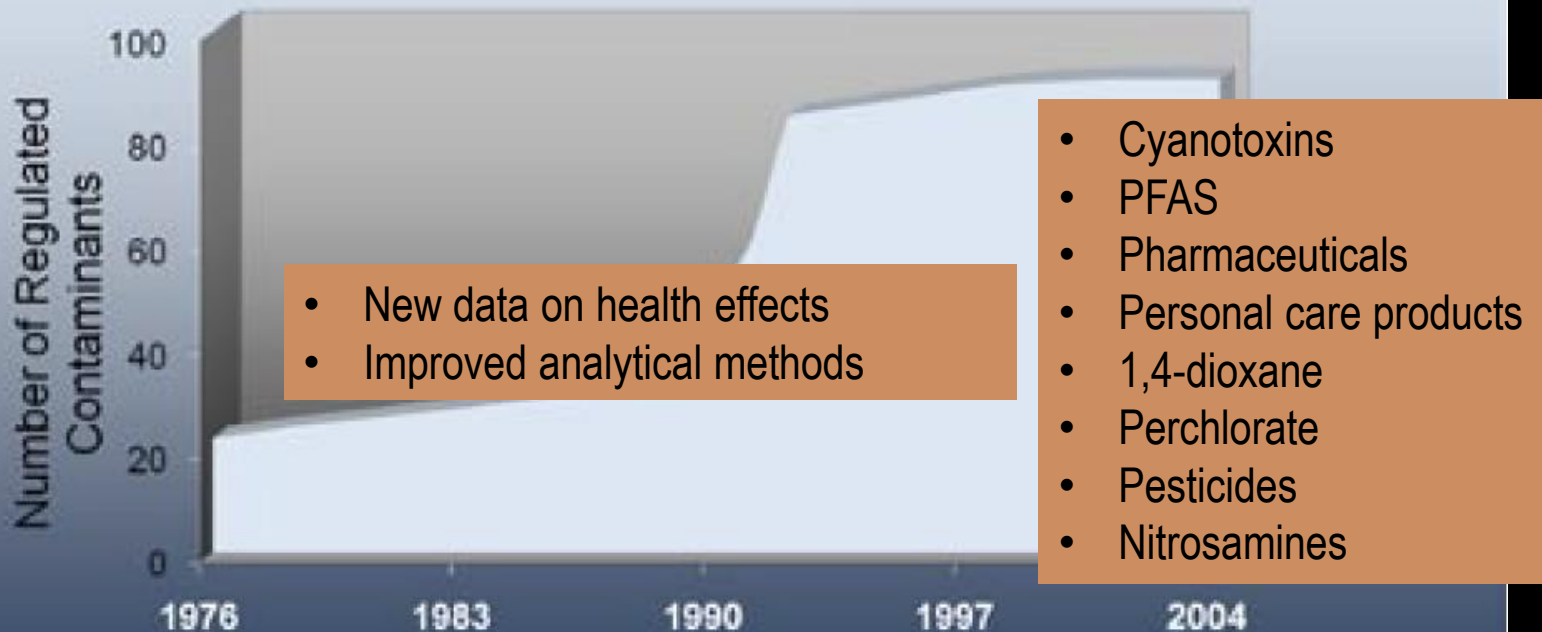
PROTECTING AND SUSTAINABLY MANAGING FORESTED WATERSHEDS IS AN APPROACH THAT, WHEN USED AS A COMPLEMENT TO TRADITIONAL INFRASTRUCTURE, MAY NOT ONLY REDUCE COSTS BUT ALSO HELP SECURE NEW FUNDING STREAMS.

**T**he breathtaking \$1 trillion estimated price tag to repair and expand our nation's drinking water infrastructure is both sobering and compelling (LaFrance, 2013). To address this costly issue, some water utilities and the communities they serve are turning to a solution nearly as old as our nation itself—protecting forested watersheds. Increasing evidence suggests that healthy forests produce water that is less expensive to treat, transport, and store. These same forests also provide a plethora of other cultural, economic, and environmental benefits. And with real estate prices in many areas being lower as a result of the Great Recession, now is the time to protect and sustainably manage the lands and forests that supply our potable water.

The stakes are high. According to the 2008 report of the National Research Council, *Hydrologic Effects of a Changing Forest Landscape* (NRC, 2008), "the forests cycle water from precipitation through soil and ultimately deliver it as streamflow that is used to supply *nearly two-thirds of the clean water supply in the United States.*" Changes in forested headwaters, including tributary streams

# THINKING AHEAD ABOUT CLEAN SOURCE WATER

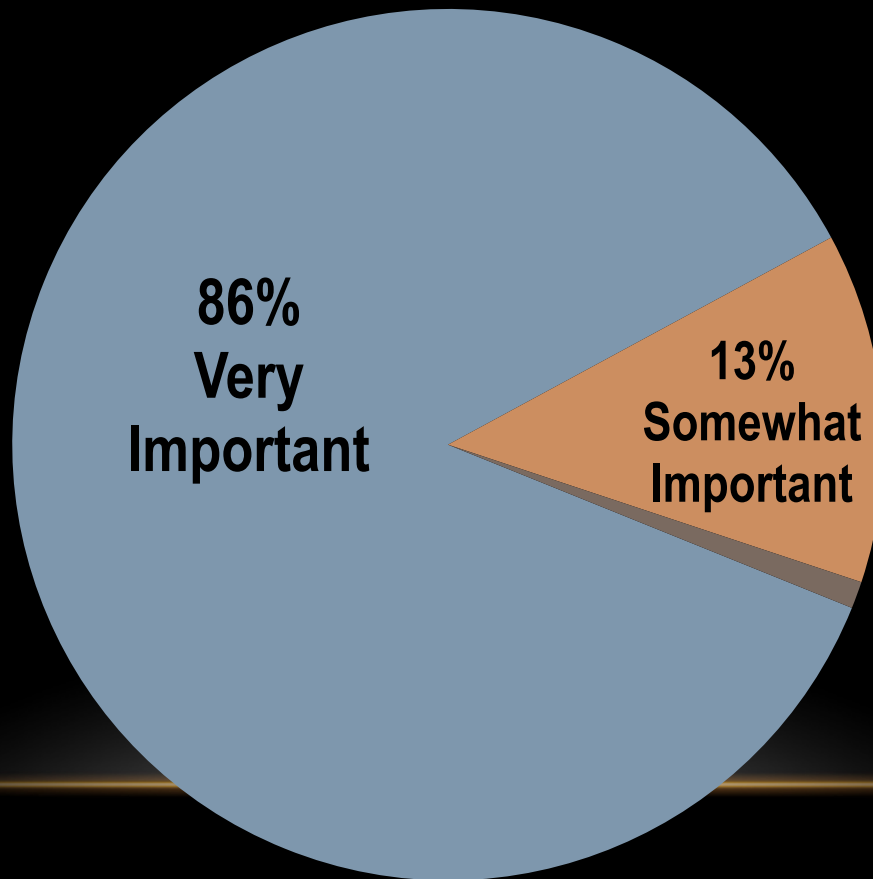
## Number of Contaminants Regulated by the Federal Safe Drinking Water Act





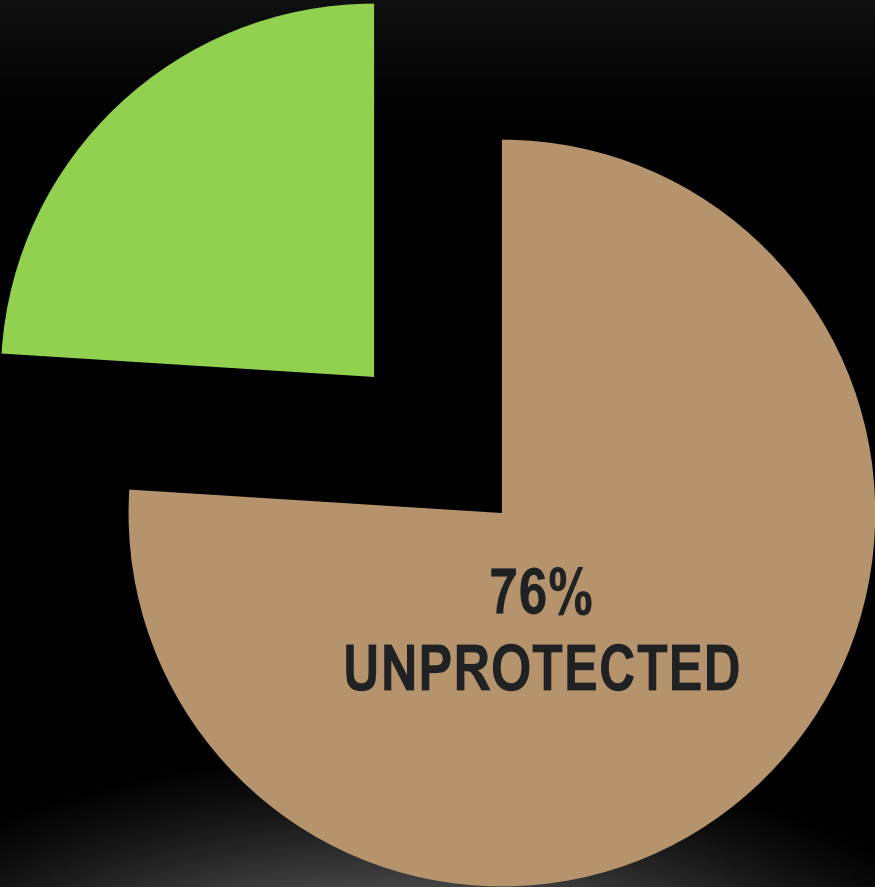
# PUBLIC SUPPORT FOR LAND CONSERVATION

Water quality protection ranked highest

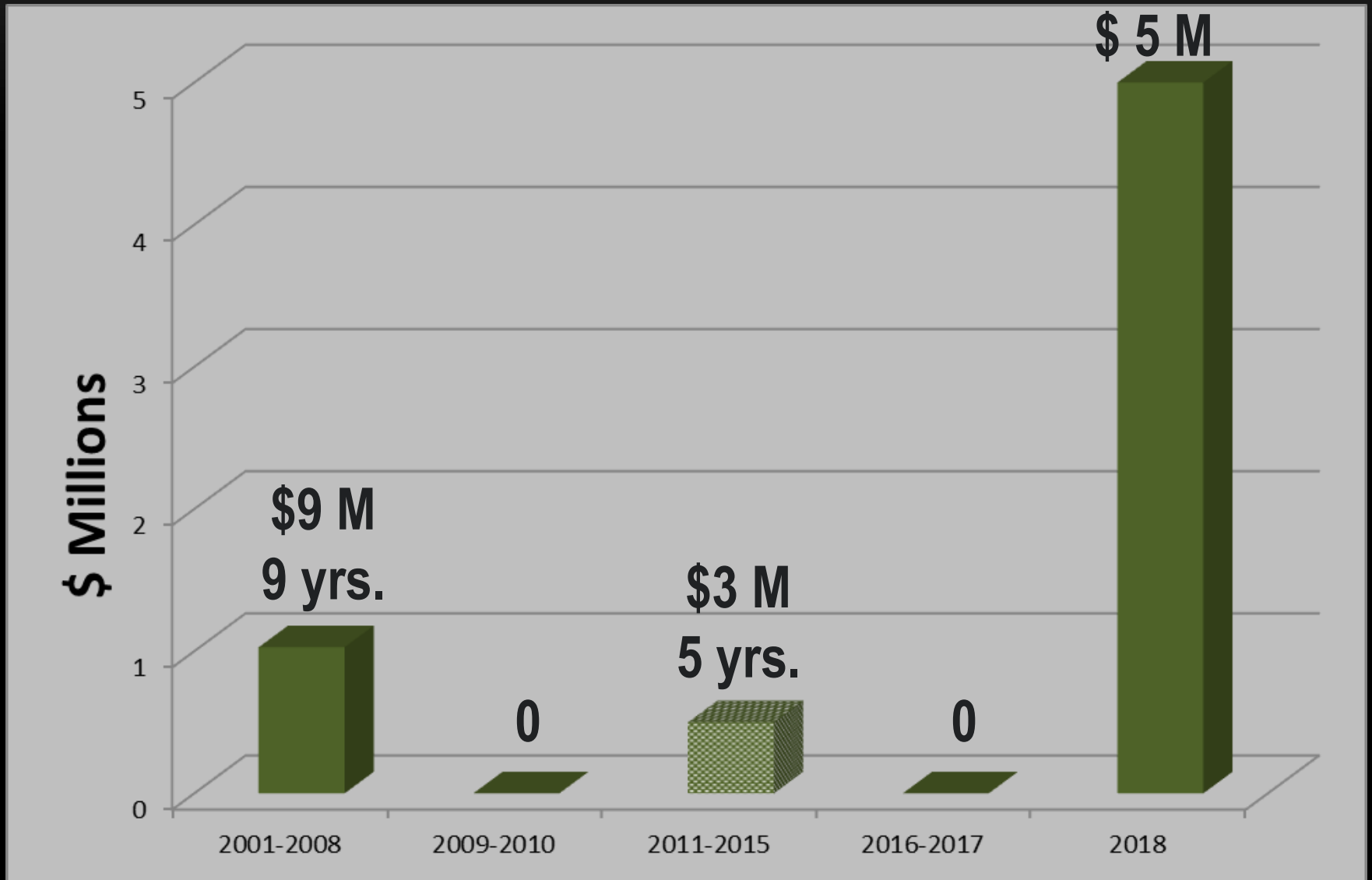


Source: NH Conservation Attitude Survey, 2012

# NH WATER SUPPLY LAND

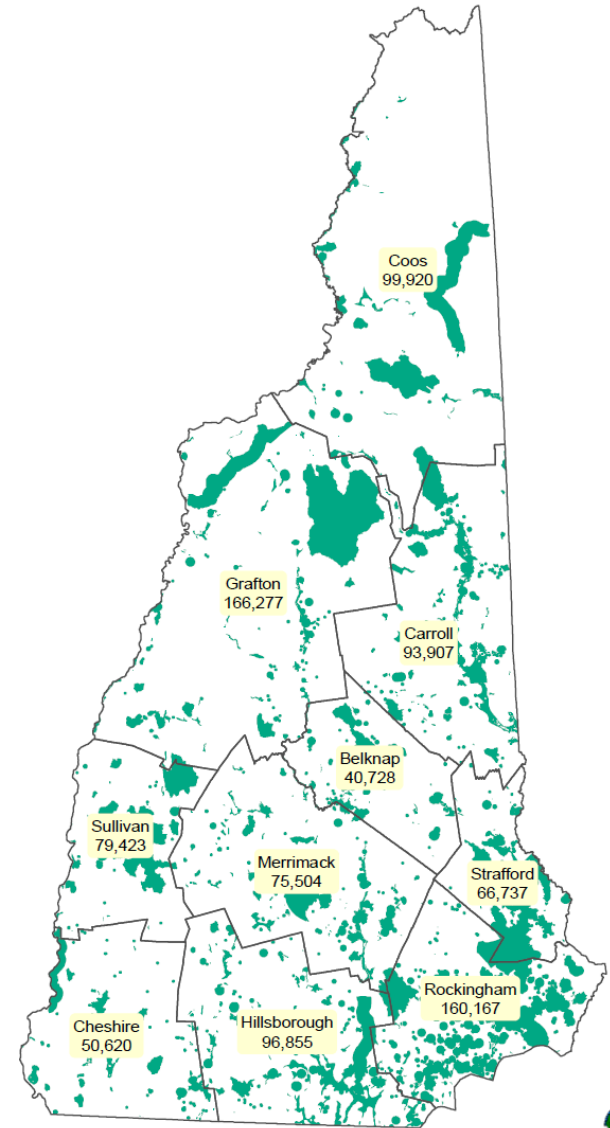


# ANNUAL FUNDING FOR WATER SUPPLY LAND



# ELIGIBLE PROJECTS

- Eligible water supply land
- Uncontaminated, unless...
- Permanent protection
- 50% match
- \$500 K maximum grant



# ELIGIBLE PROJECT COSTS

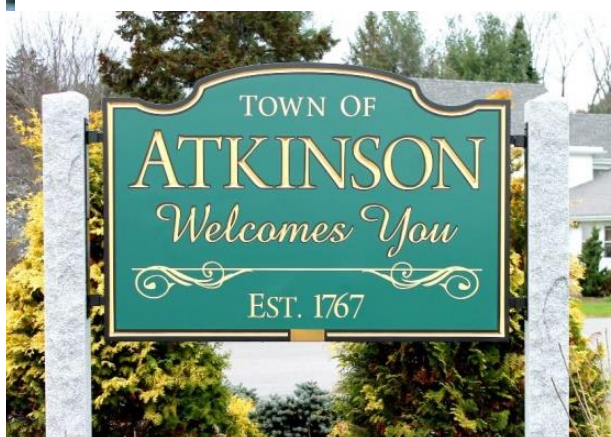
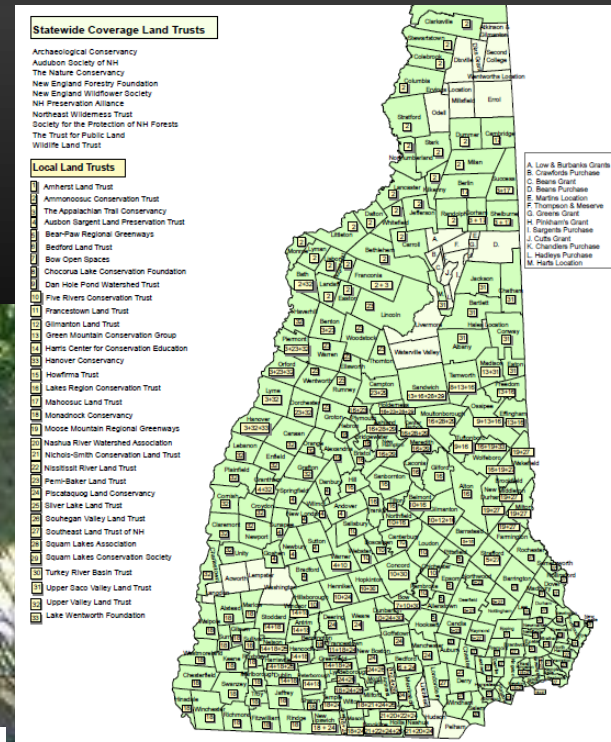
- Land or interest in land
- Associated legal and transaction costs (grant and match properties), including:
  - Appraisal
  - Survey
  - Baseline documentation report
  - Title examination
  - Environmental site assessment
  - Stewardship plan
  - Legal fees, recording fees, closing costs
  - Stewardship fee
- See rules for NHDES Water Supply Land Protection Grant Program – Env-Dw 1002

# POTENTIAL SOURCES OF MATCH

- Municipality
- Bargain sale
- Donated match property
- Other grant programs

LCHIP  
NHDES ARM  
NHDNCR Forest Legacy  
USDA NRCS  
Moose Plate

# ELIGIBLE APPLICANTS



# PROCESS

- Eligibility applications accepted – now
  - Eligibility applications due – June 15
  - Full application – August 6
  - Site visits and review panel
  - Funding decision by Advisory Commission – mid October
-



# HIGH-PRIORITY WATER SUPPLY LANDS

Categories of water supply lands	Land in Each Category		Percent Permanently Conserved*	Percent Developed**	Unprotected, Undeveloped Land	
	Acres	% of State			Acres	% of State
<b>Water supply watersheds</b>	4,136,020	70	27	6.8	2,762,963	47
<b>Hydrologic Areas of Concern (HACs)</b>	454,755	7.7	37	10	241,014	4.1
<b>Wellhead Protection Areas (WHPAs)</b>	387,529	6.5	11	19	266,496	4.5
<b>Stratified-Drift Aquifers (SDAs)</b>	711,717	12	13	23	451,962	7.6
<b>High-Yield SDAs (&gt;= 1,000 ft<sup>2</sup>/day)</b>	166,448	2.8	14	25	102,434	1.7
<b>High-Priority Water Supply Lands</b>	930,138	16	24	15	561,930	9.5

## ELIGIBLE LAND

- High-Priority Water Supply Land
- Water Supply Watershed Land (SWPA)
  - Within 5 miles of intake

OR

- With riparian frontage
  - Land Identified by Water Supplier or Municipality for Water Supply Protection – Present or Future
-



# OneStop Data Mapper

## Welcome

Welcome to the new NHDES OneStop Data Mapper, a viewer displaying OneStop data in an interactive map format. The mapper replaces the NHDES OneStop Web Geographic Information System (GIS). The Onestop Data Mapper is maintained by NHDES and [NH GRANIT](#).

## New Features

- User-friendly design
- Ability to bookmark locations
- Download GIS data

## Helpful Links

- [OneStop Data Mapper Intro Video](#)
- [OneStop Data Mapper User Guide](#)
- [OneStop Data Mapper Tools and Functions](#)
- [OneStop Data Mapper FAQs](#)
- [List of OneStop Data Mapper Layers and Metadata](#)
- [Accessing and Printing Alteration of Terrain Screening Layers](#)

## Access to Data

Most OneStop GIS data is publicly available for viewing and download in the OneStop Data Mapper, except for [secure water supply data](#). Users interested in viewing secure data in the mapper or receiving GIS files must register at the [OneStop Data Retrieval/Data Provider Registration Form](#). Users already approved may login by clicking the icon below.

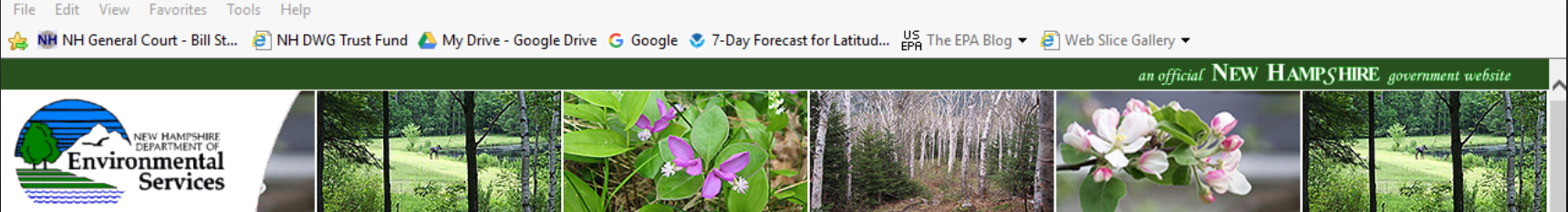
### Secure Water Supply Data:

- Groundwater Classification Areas GAA
- Public Water Supply Wells
- Registered Water Users
- Source Water Protection Areas
- Wellhead Protection Areas
- Water Supply Intake Protection Areas
- Water Well Inventory

## Start NHDES OneStop Data Mapper



https://www4.des.state.nh.us/onestopdatamapper/onestopmapper



# OneStop Data Mapper

## User Login

You may enter the OneStop Data Mapper as an unregistered guest to view public data by selecting Enter as Guest below.

A login is required to view secure water supply data in the OneStop Data Mapper. To obtain a login, register at the [OneStop Data Retrieval/Data Provider Registration Form](#). Users already approved for access may sign in below.



### Enter User Information

Enter as NHDES Staff.  
(with full access rights)

\* User Name:   
\* PIN :   
\* Password :



LOGIN

[Forgot your password?](#)  
[Need help logging in?](#)

## Disclaimer

Please note that the data presented is under constant revision as new sites or facilities are added. The data may not contain all of the potential or existing sites or facilities. NHDES is not responsible for the use or interpretation of this information. Not intended for legal purposes.

New Hampshire Department of Environmental Services | PO Box 95 | 29 Hazen Drive | Concord, NH 03302-0095  
603.271.3505 | TDD Access: Relay NH 1.800.735.2964 | Hours: M-F, 8am-4pm



Getting Around Identify Query Draw Measure  Tool Labels X

Welcome Bookmarks Open Save Pan Zoom In Zoom Out Initial View Full Extent Previous Extent Next Extent Print Map Save Image Share Download Data Upload Data

Basic Navigation Save and Share

Welcome

**NHDES OneStop Data Mapper**

The New Hampshire Department of Environmental Services (NHDES) OneStop Data Mapper provides easy access to environmental data.

**Getting Started**  
Start with the "I want to..." button for easy access. For **Help**, look at the:

- [Intro Video](#)
- [User Guide](#)
- [Frequently Asked Questions](#)
- [Layer Information \(Metadata\)](#)

**Register for Water Supply Layers**  
Please **register** with NHDES or **login** if already approved to view secure NHDES water supply layers.

**Comments**  
We are very interested in feedback. Please direct all comments to **NHDES OneStop Data Mapper Contact**.

*The OneStop Data Mapper was developed by the New Hampshire Department of Environmental Services and NH GRANIT at the Institute for the Study of Earth, Oceans, and Space, University of New Hampshire.*

Welcome Layers

I want to...

- Sign in
- Open the welcome page  
View information about this application.
- View map layers  
Alter visibility of map layers, perform layer actions, and view the legend.
- Find data on the map  
Click, tap, or draw a rectangle on the map to identify features.
- Download data  
Extracts select data sets for download
- Return to initial map extent  
Return to the initial map position and zoom level.
- Bookmark current map extent  
Add the current map extent to the list of bookmarks, so that I can return to it later.

World St... WKID: 4326 Lat/Long ▲ Lat: 45.23444° N Lon: 73.30519° W Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCAn, Esri...



Getting Around Identify Query Draw Measure  Tool Labels X

Welcome Bookmarks Open Save Pan Zoom In Zoom Out Initial View Full Extent Previous Extent Next Extent Print Map Save Image Share Download Data Upload Data

Basic Navigation Save and Share

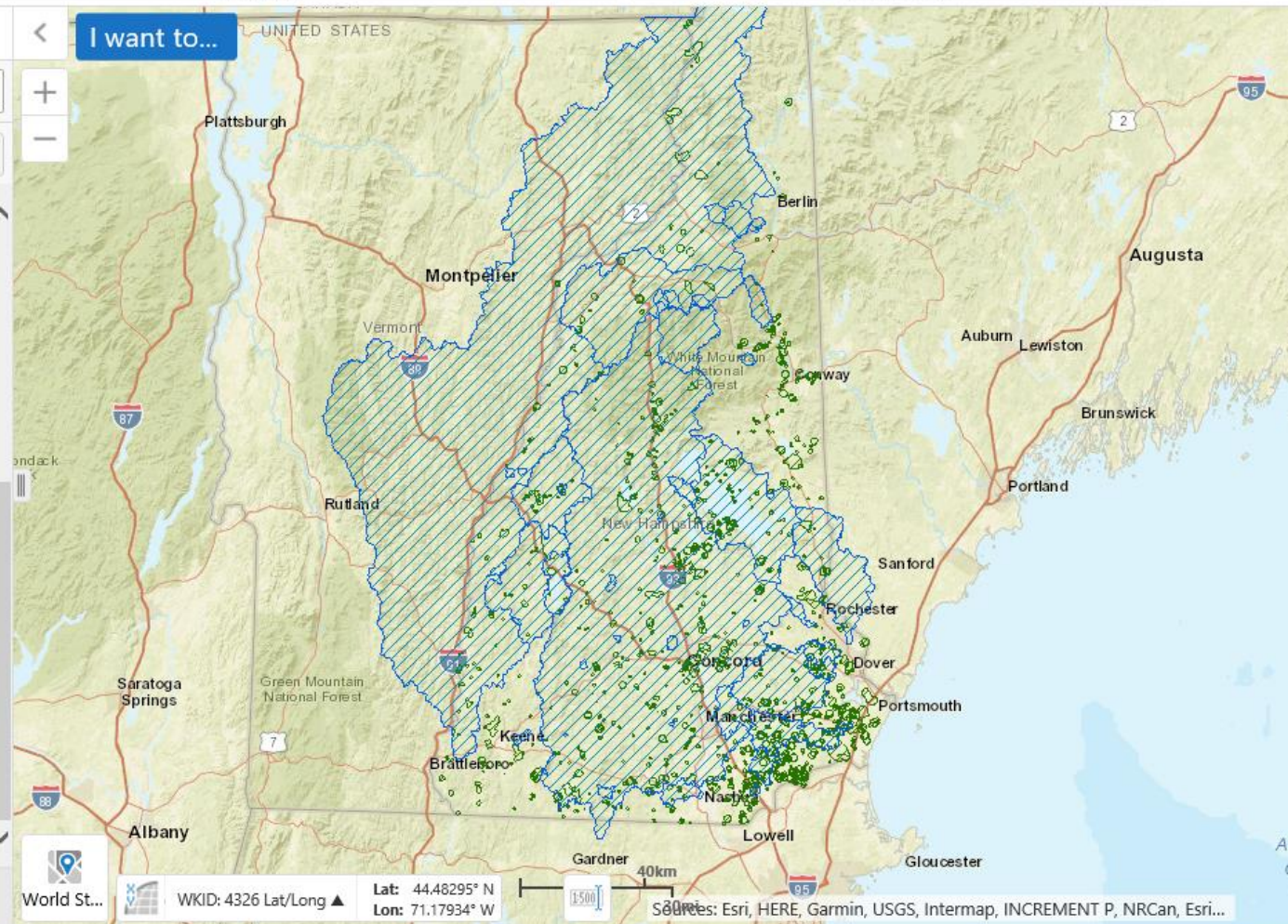
Layers

NHDES Environmental Data

Filter Layers... Filter

- Areas GA1
  - Groundwater Classification
- Areas GA2
  - Groundwater Classification
- Areas GAA
  - Outstanding Resource Water
- Watersheds**
  - Source Water Protection Areas**
  - Surface Water Impairments 2010 with 1 Mile Buffer
  - Water Supply Intake
- Protection Areas**
  - Wellhead Protection Areas**
- Utilities and Water Supply
- Base Layers

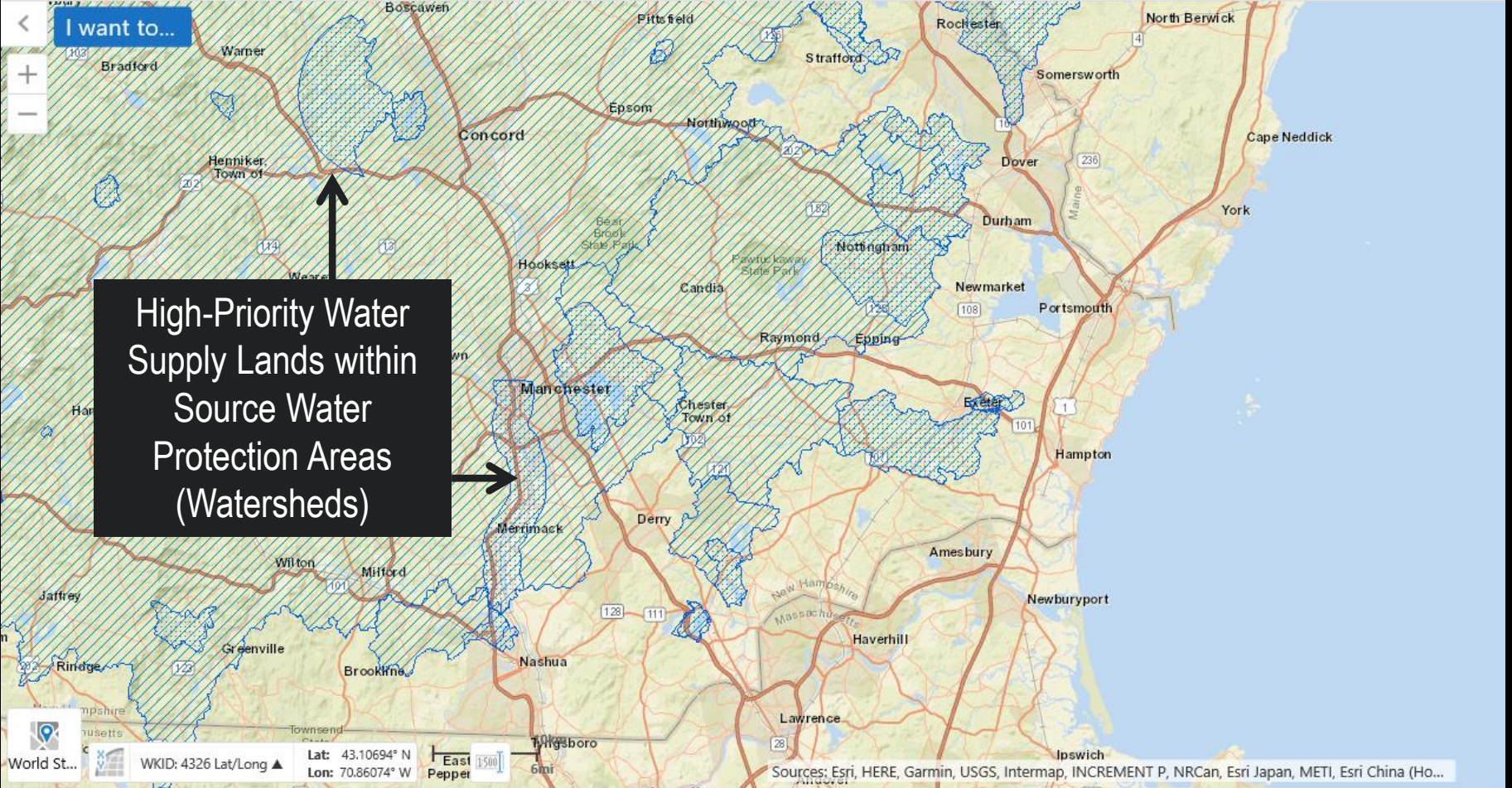
Welcome Layers





Getting Around Identify Query Draw Measure Tool Labels

Map navigation and tool icons: Welcome, Bookmarks, Open, Save, Pan, Zoom In, Zoom Out, Initial View, Full Extent, Previous Extent, Next Extent, Print Map, Save Image, Share, Download Data, Upload Data.

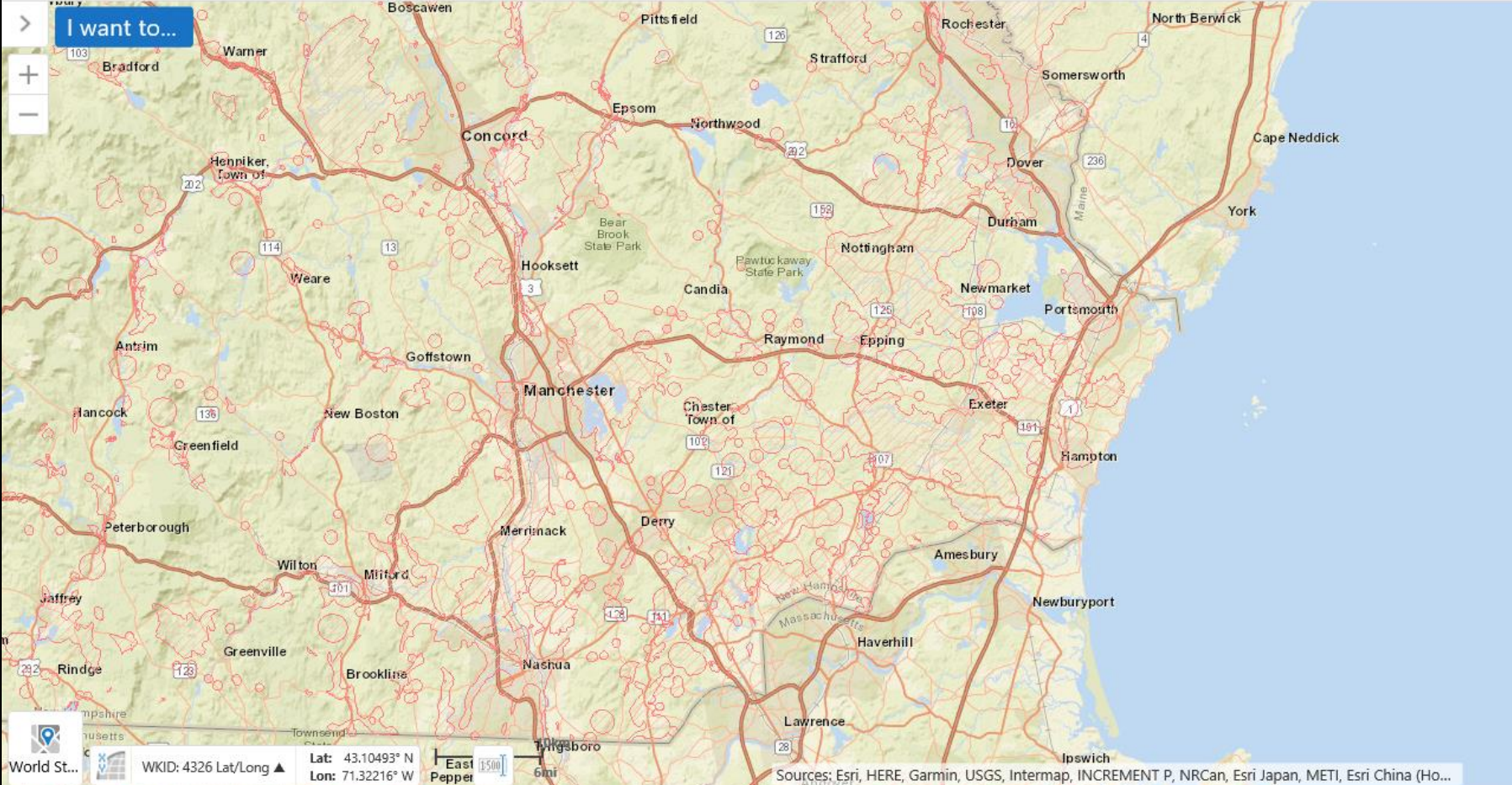




Getting Around Identify Query Draw Measure  Tool Labels X

Basic Navigation Save and Share

- Welcome
- Bookmarks
- Open
- Save
- Pan
- Zoom In
- Zoom Out
- Initial View
- Full Extent
- Previous Extent
- Next Extent
- Print Map
- Save Image
- Share
- Download Data
- Upload Data





# SCORING CRITERIA

Max Points*	Criterion (for detailed scoring criteria, see Attachment 3)
5	1. Source water protection in place by any PWS whose source will be protected
8	2. Land conservation plan that identifies the subject parcel(s) as high priority for conservation.
5	3. Asset management – Water system whose source is being protected is implementing an asset management plan that meets guidelines adopted by the Commission.
5	4. Water conservation program being implemented by water system.
3	5. Energy efficiency – PWS whose source is being protected has completed an energy audit within the past 10 years.
19	6. Proximity to the water supply well or intake
10	7. Frontage on rivers, streams, etc. tributary to a surface source
3	8. Type of water system whose source is to be protected (municipal, community, etc.)
4	9. Population served by the water system
2	10. Number of sources to be protected
4	11. Total acreage (Eligible land) of the project (including match properties)
14	12. Value of match (percentage of total project value) in excess of required match.
3	13. Financial need
5	14. Development pressure in the county in which the project is located
6	15. Project readiness
4	16. Stewardship
<b>100</b>	<b>TOTAL</b>

\*For more detail regarding scoring, please see Attachment 3.

# PARTNERING

- Land Trusts: NH Land Trust Coalition – [nhlrc.org](http://nhlrc.org)
- Conservation Commissions
- Public Water Systems

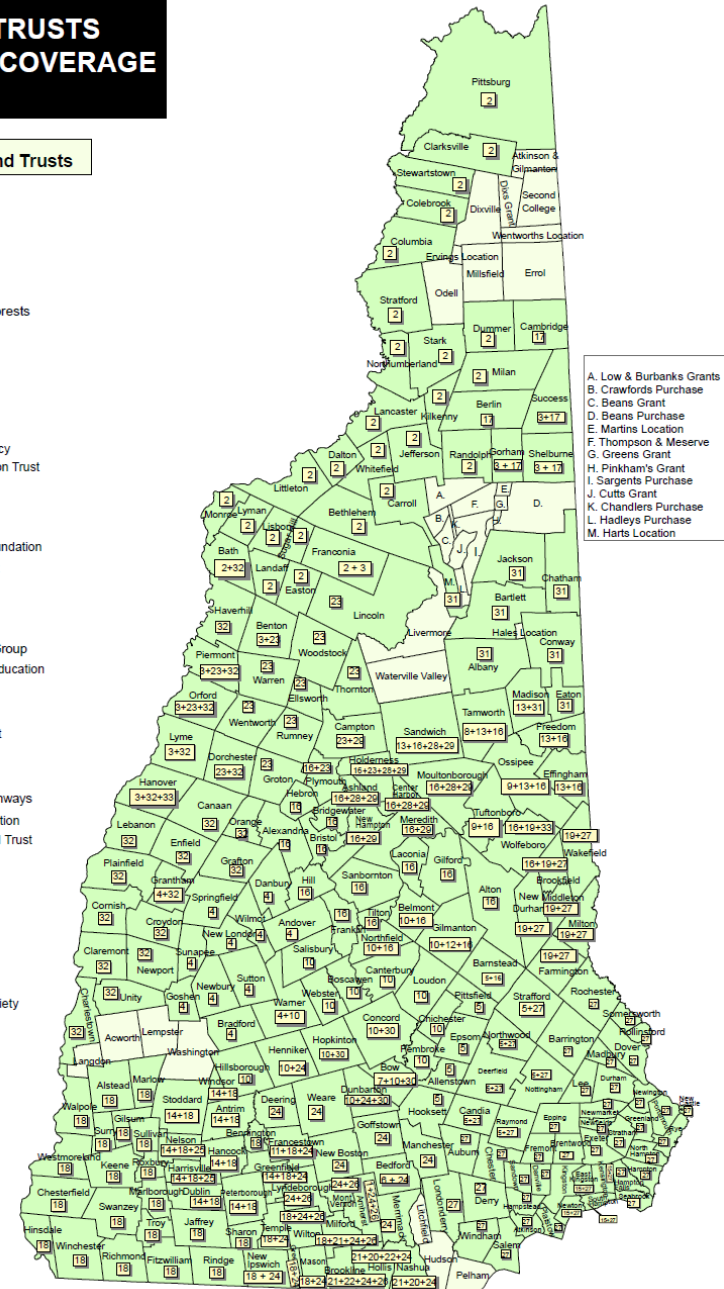
## NH LAND TRUSTS GEOGRAPHIC COVERAGE

### Statewide Coverage Land Trusts

Archaeological Conservancy  
Audubon Society of NH  
The Nature Conservancy  
New England Forestry Foundation  
New England Wildflower Society  
NH Preservation Alliance  
Northeast Wilderness Trust  
Society for the Protection of NH Forests  
The Trust for Public Land  
Wildlife Land Trust

### Local Land Trusts

- 1 Amherst Land Trust
- 2 Ammonoosuc Conservation Trust
- 3 The Appalachian Trail Conservancy
- 4 Ausbon Sargent Land Preservation Trust
- 5 Bear-Paw Regional Greenways
- 6 Bedford Land Trust
- 7 Bow Open Spaces
- 8 Chocorua Lake Conservation Foundation
- 9 Dan Hole Pond Watershed Trust
- 10 Five Rivers Conservation Trust
- 11 Franconstown Land Trust
- 12 Gilmanton Land Trust
- 13 Green Mountain Conservation Group
- 14 Harris Center for Conservation Education
- 15 Hanover Conservancy
- 16 Howfirma Trust
- 17 Lakes Region Conservation Trust
- 18 Mahoosuc Land Trust
- 19 Monadnock Conservancy
- 20 Moose Mountain Regional Greenways
- 21 Nashua River Watershed Association
- 22 Nichols-Smith Conservation Land Trust
- 23 Nissitissit River Land Trust
- 24 Pemi-Baker Land Trust
- 25 Piscataquog Land Conservancy
- 26 Silver Lake Land Trust
- 27 Souhegan Valley Land Trust
- 28 Southeast Land Trust of NH
- 29 Squam Lakes Association
- 30 Squam Lakes Conservation Society
- 31 Turkey River Basin Trust
- 32 Upper Saco Valley Land Trust
- 33 Upper Valley Land Trust
- 34 Lake Wentworth Foundation







Source: iessi via Flickr.com

# ADDITIONAL INFORMATION

- DWSRF
  - <https://www.des.nh.gov/organization/divisions/water/dwgb/capacity/dwsrf.htm>
  - DWGTF
  - <https://www4.des.state.nh.us/nh-dwg-trust>
    - 4/18/18 Workshop Recording
-

# CONTACT INFO

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- Engineering

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- Non-Construction Projects

- Paul Susca                      271-7061                      [Paul.susca@des.nh.gov](mailto:Paul.susca@des.nh.gov)
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# QUESTIONS

