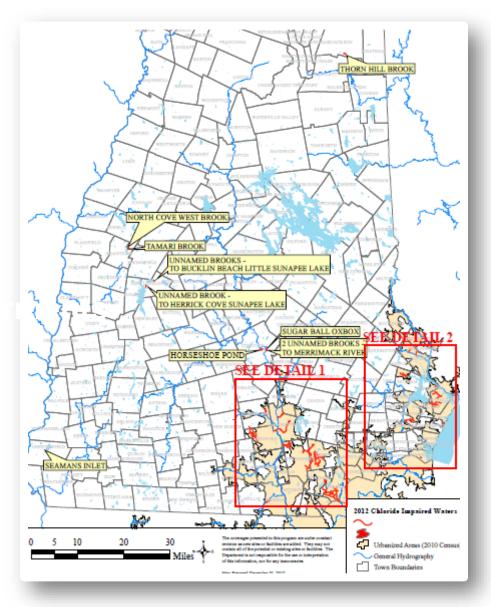




Kate Politano
NHDES Salt Reduction Coordinator



Chloride Impairment is a Statewide Issue



2012 Chloride Impaired Assessment Units – Whole State



I-93 TMDL Watersheds

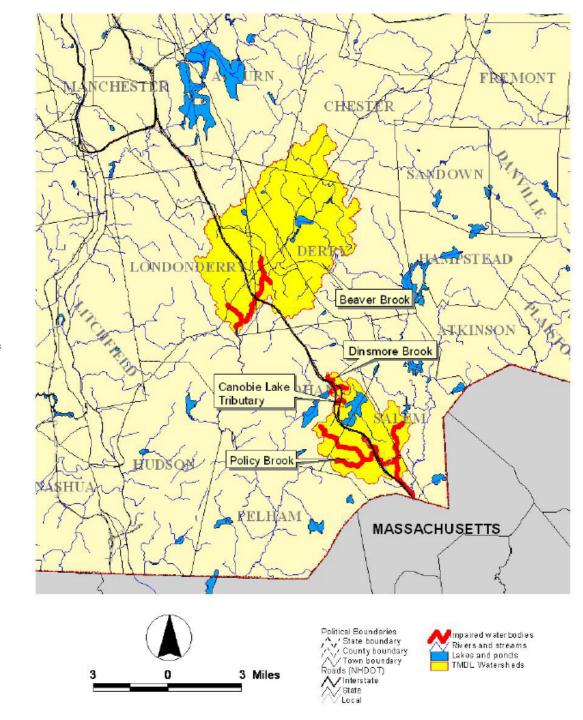
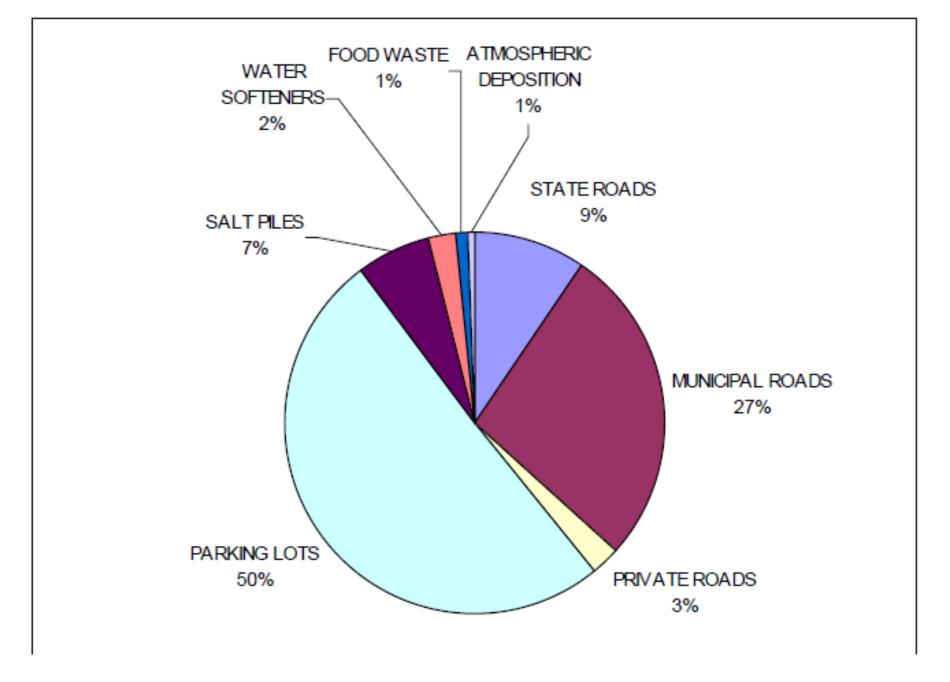




Figure 4: Relative Contribution of Each Source to the Total Salt Imports to the Watershed





A Snowball's Chance...

2010 – Mandatory Certification w/ fee

HB 1676

Referred to Interim Study

2011 – Mandatory Certification w/ fee

HB 202

Inexpedient to Legislate (killed)

2012 – Optional Certification w/ fee

SB 392

Passed Senate

Killed in the

House

2013 – Optional Certification w/ fee

HB 523

Retained in committee

Passed as part of the budget bill (without the fee)



The Plan





Requirements for Chloride Impaired Waters

- Develop Salt
 Reduction Plan
- Implement Plan
- Update Plan



Tracking Salt





Tracking Salt

NHDES-W-07-071



ANNUAL SALT ACCOUNTING REPORT Voluntary Certified Salt Applicator Program Watershed Management Bureau Watershed Assistance Section



RSA/Rule: RSA 489-C, Env-Wq 2204

Name: Date

Certificate Number: Type of Certificate: Master/Individual

Affiliated Business Name: (if none, enter "none")

Below are the three reporting elements necessary for recertification under the Voluntary Certified Salt Applicator Program (aka. <u>Green Snow Proper Env. Wo</u> 2200.

1) Deicer type and amount.

Complete the table below for each type of deicer used last winter including the unit reported. If you do not know the amount of deicer used by type please report the total amount of all deicers used in the TOTAL row at the end of the table.

	SOLID MATERIAL AMOUNT:	LIQUID VOLUME:
	(indicate tons, pounds or	(in gallons)
TYPE OF DEICER USED	yards)	
SALT, DRY		
SALT, PREWETTED IN THE SPREADER		
SALT, PREWETTED IN THE PILE		
CALCIUM CHLORIDE, DRY		
CALCIUM CHLORIDE, LIQUID		
CALCIUM MAGNESIUM ACETATE, DRY		
CALCIUM MAGNESIUM ACETATE, LIQUID		
POTASSIUM ACETATE, DRY		
POTASSIUM ACETATE, LIQUID		
SAND		
SAND/SALT MIX		
LIQUID BRINE		
OTHER:		
TOTAL DEICER USED LAST WINTER		

Form Continued on Next Page ->

(603) 271-2457_salt@des.nh.gov PO Box 95, Concord, NH 03302-0095 www.des.nh.gov

2018-05-25

NHDES-W-07-071

2) Location and area treated

List the town(s) and square feet of paved surface treated with salt/deicer last winter in each town:

TOWN	SQUARE FEET OF PAVED SURFACE TREATED

Subordinates

Master certificate holders are required to list all subordinates working and reporting under their contification:

INAIVIE

(603) 271-<u>2457_salt@des.nh.gov</u> PO Box 95, Concord, NH 03302-0095 www.des.nh.gov

2018-05-25



BMPs



Pre-wetting or treating salt



Anti-icing



Pavement Sensor



Equipment Calibration



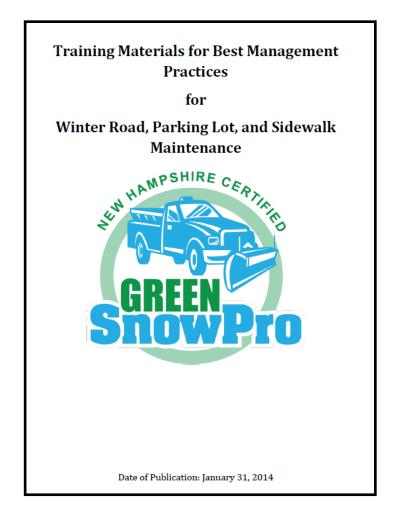


Training





Application Rates



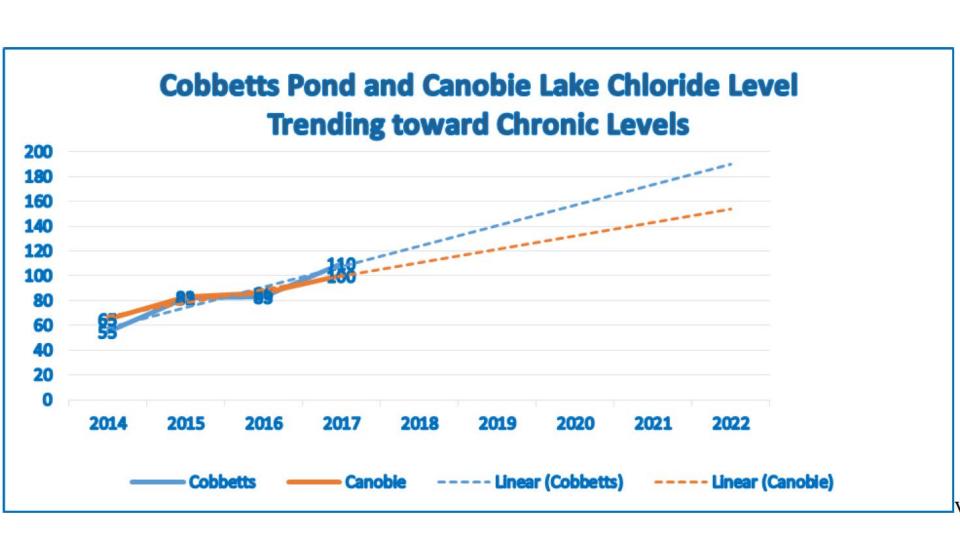
https://t2.unh.edu/sites/default/files/media/GSP/bmp_manual_and_training_program_2014.2018.pdf



No Salt Zones









Doug Heath, USEPA, Boston, MA



Driver Expectations & Behavior



- Social Science and Driver Behavior
 - Drive safely due to conditions
 - Plan ahead stayhome when possible
 - Use snow tires
 - Stay behind snow plows





NH Voluntary Salt Applicator Certification



Maintain safe parking lot, sidewalk, and driveway surfaces while reducing environmental impacts from salt and limit your liability.





Business Flyer

Hiring a NH Certified Green SnowPro as your snow removal contractor will help protect you and your company from slip and fall claims arising from snow and ice conditions.



Figure 26. Improper Site Management





Reductions Estimates



■

Table 9. Recommended Chloride BMPs

Chloride Reduction BMPs	Definition	Potential % Chloride
		Reduction
Pre-Wetting	Application of salt brine or proprietary chemical to dry salt as it is being applied to the roadway	20% - 30%
Pre-Treating	Application of salt brine or proprietary chemical to dry salt either before, during, or after it has been loaded into the truck.	10% - 30%
Anti-Icing	Application of salt brine or proprietary chemical up to 48 hours in advance of onset of storm.	10% - 30%
Zero-Velocity Spreaders	Spreader ejects salt particles at the same velocity of the forward motion of the truck's traveling speed; allowing salt to drop as if the spreading vehicle was standing still.	10% - 50%



Kate Politano

NHDES Salt Reduction Coordinator

271-5329 Kate.Politano@des.nh.gov