SEPTEMBER 2022

YTD Report

Wisconsin Salt Wise



Presented to

Fund for Lake Michigan

Presented by

Allison Madison





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INTRODUCTION

Tomorrow I fly to Colorado for the American Public Works Association Western Snow and Ice Conference and National Snow Roadeo. (Yes, they spell roadeo with an "a." You have to appreciate a good pun!) While I'm there, I'll be giving two talks: "Salt Wise Cities" and "The Ecosystem Impacts of Road Salt." In October, I will cohost the Wisconsin DOT Winter Tech Talk and work with operators from across the state to identify and develop strategies to overcome barriers to change.

It's incredible to reflect on the growth of WI Salt Wise over the last two years. We have grown from a local partnership into a statewide coalition with a reach stretching out across the United States and beyond. We are receiving requests to speak at statewide and national conferences, we have built strong connections with lead researchers in the field, and earlier this month we gave our first international interview with a reporter from the New Scientist.

Next week we kick off our fall training season with a calibration day co-hosted with the City of Green Bay. While making calls to invite municipalities to the Green Bay event, staff from a city that sits directly on the Lake Michigan shoreline shared that they don't currently calibrate their salters. We're thrilled that they have since registered their staff for this event.

Thank you again for the opportunity to build networks and promote smart salting practices that reduce damage to infrastructure and vegetation, cut operating budgets, and protect the long-term health of Lake Michigan and all its tributaries.

Allison Madison



CLASS PARTICIPANTS

237 individuals from 63 organizations

Private: American Snow Professional, Avant Gardening & Landscaping, Green Deicer Company, Havenwoods Neighborhood Partnership, Henderson Products, Holy Wisdom Monastery, Madison Top Soil, Milwaukee Brewers, Reinders, S.C. Johnson, Soper Contractors, SSC, WS Development

Municipalities: Appleton, Cedarburg, Cudahy, Germantown, Glendale, Greendale, Hales Corners, Madison, Mequon, Nashotah, North Prairie, Oconomowoc, Oregon, Paddock Lake, Pewaukee, Port Washington, Richfield, River Hills, Rothschild, Shorewood, Tomahawk, Vernon, Wales, Watertown, Waukesha, Waupun, Wauwatosa, West Allis, West Milwaukee, Wisconsin Rapids

Other Public: Kenosha County, Milwaukee County (Fleet, Highway, Parks, Forestry), Waukesha County, Washington County, Madison Water Utility, Milwaukee Area Technical College, Milwaukee Riverkeeper, UW-Madison, Wausau School District

Upcoming Events



Eight classes



Four open houses



Two calibration demos



INSTRUCTIONAL VIDEOS AND PSAs

Joint project with the City of Milwaukee



Environmental Impacts, our first video, is available for viewing on the WI Salt Wise YouTube channel as well as the City of Milwaukee DPW's About Snow and Ice Control Operations webpage. We will be rolling out the full video series to all City of Milwaukee staff during their inhouse training in October.

The remaining videos and PSAs are currently in production:

Materials - filmed

Mechanical Removal - filmed

Pre-storm planning - scripted

PSA 1 - scripted

PSA 2 - in development



WEDNESDAY WEBINARS

February: Water Softener Brine Reclamation

USDA Forest Products Lab Staff

March: American Family Insurance Tracks Salt Savings

Wayne Rayfield, Facilities Land Management Admin.

May: Brine: Facts and Myths

Matt Wittum, Town of Linn Highway Superintendent

June: A Salt Brine Field Study

Andi Bill, UW Traffic Operations and Safety Lab

July: Where have all the Mayflies gone?

Bob Miltner, Ohio EPA; Kevin Goodwin, Michigan EGLE

August: Direct Liquid Application

Bill Kern, Jefferson County Highway Department

September: Brine Blends

Matt Wittum, Town of Linn Highway Superintendent

October: Salt Wise Stories - De Pere

Tony Fietzer, City of De Pere

November: Salt Wise Stories - Eau Claire

Cory Tietz, City of Eau Claire

December: Legal and Policy Strategies for Chloride Management

Dave Strifling, Director of Marquette University's Water and Law Policy Initiative









1003

views



MEDIA COVERAGE

TITLE	MEDIA OUTLET	MONTH
Excess salt on roads, sidewalks showing up in our rivers, lakes	TMJ4 MKE	January
Newsmakers radio interview: Allison Madison, WI Salt Wise and Lewis Kuhlman, City of La Crosse	WPR	January
Wisconsin Salt Awareness Week reminds us: Salt is more dangerous than we realize	News18 Eau Claire	January
Chauncey's Great Outdoors radio interview: Shannon Haydin, WI DNR	ESPN 1000AM	January
Salt Pollution is on the Rise	TV6 Iron Mtn	January
DNR urges reduction in road salt	Watertown Times	January
WI DNR: Reduce Salt Use this Winter	Green Bay News Network	January
Wisconsin Salt Awareness Week	Isthmus	January
Root-Pike WIN celebrates Salt Awareness Week	The Journal Times	January
Wisconsin Salt Awareness Week goes virtual	Merrill Foto News	January
Wisconsin Salt Awareness Week: Recognizing the importance of salt usage	KBJR6 Superior/Duluth	January



MEDIA COVERAGE

TITLE	MEDIA OUTLET	MONTH
Wisconsin Salt Awareness Week kicks off in La Crosse, around state	News 8000 La Crosse	January
Wisconsin Salt Awareness Week goes virtual	La Crosse Tribune	January
Waukesha County Executive Paul Farrow: Celebrates Wisconsin Salt Awareness Week with smart salting and free webinars	wispolitics.com	January
Wisconsin DNR: Learn how to reduce salt this winter	St. Croix 360	January
Road Salt is imperiling US waterways. States might have a solution.	Grist	March
Salt in the Wound: How Brine could curb damage tied to road salting	The Country Today	May
Help monitor the salt in our waters	Water Action Volunteers newsletter	June
Smart Salt Storage: Saving Money & The Environment	Ninja Deicer mailing	August





EVENT SNAPSHOTS

PHOTOS FROM 2022 OUTREACH EVENTS









Clockwise from
upper left: Brown
County Water
Summit, Snow and
Ice Management
Association
symposium tabling,
Snow Plow Roadeo,
Marquette
Waterfront Festival



OUTREACH EVENTS

YTD AND UPCOMING EVENTS

Salt The Environmental Toll of Salt and Deciers

Awareness We're Salting our Drinking Water Water Softener Salt goes Where?

Week Let's Teach about Salt

Salt Reduction Efforts across Wisconsin

Industry Reinder's Turf Conference
Casper's Brine Summit

(and tabling*)

SIMA Snow and Ice Symposium*

APWA Snow and Ice Conference

Annual Public Works Expo*

Wisconsin DOT Winter Tech Talk

Wisconsin Construction, Municipal and Landscape

Expo

Public Events Winter Fun and Outdoor Gear Demo

Bark 'n Brew

Clean Lakes Circus

Teejop Community Resource Fair Lake Wingra Watershed Gathering

Fool's Flotilla/Marquette Waterfront Fest

Outreach City of Oshkosh Sustainability Adv. Board UW-La Crosse Sustainability Club

Presentations

Fox-Wolf Watershed Conference

Mississippi River Symposium

UW-Arboretum Winter Webinar Series

Viterbo Water Conference

WI Society of Science Teachers Conference

UW-Madison Badger Volunteers Brown County Water Summit WI Master Naturalist Conference

UWSP American Water Resources Association Western Great Lakes Bird and Bat Observ. 1796

Views

500

In-person outreach touches

450

Presentation attendees



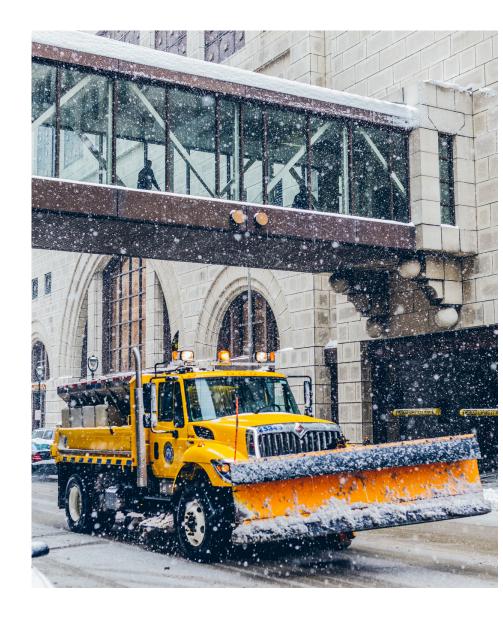
CITY OF MILWAUKEE

Project Summary

We've forged strong relationships with City of Milwaukee staff within the Department of Public Works, the Mayor's Office, and the Environmental Collaboration Office. Salt Wise practices are now promoted through the Mayor's webpage and the ECO Neighborhood toolkit.

City of Milwaukee DPW staff have demonstrated a commitment to continuing education through participation at the APWA Winter Maintenance Supervisor's Training, the Snow Plow Roadeo, Brine Summit, etc.

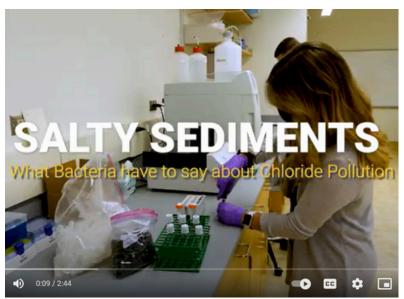
An evaluation and revision of their snow and ice policy is currently underway. Elected officials will be briefed later this fall and asked to support the communication of expectations to constituents.

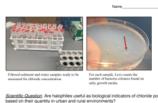




NEW RESOURCES

EXAMPLES OF MATERIALS DEVELOPED IN 2022





Scientific Diseason: Are histophiles useful as biological indicators of chloride pollutio based on their quantity in urban and rural environments?

Scientific Data:

Use the data below to answer the scientific question

Sampling	Site Date			chloride	Number of bacteria colonies per gram of sediment			Average Number of bacteria colonies per gram
	Site description		Month	concentration (mg/L)	Sample A	Sample B	Sample C	of sediment
Tomanic Tom	urban	6/1201	Early May	781.9	2210	1720	1690	
Kinnickinnic River	urban	69691	Late May	911.3	1580	1120	1530	
Kinniskinnis River	unan	60301	Late June	595.4	190	160	240	
Konstance Fore	urban	70691	Late July	453.2	290	475	279	
Konnokense River	urban	8/31/21	Cate August	452.5	65	45	55	
Manomonee River	rune	5/16/21	Early May	150.8	0	3	0	
Manomonee River	nyral	60501	Late May	545.4	7	7	10	
Manomonee River	nune	60201	Late June	147.4	13	167	27	
Manomonee Poer	NAME	hahan	Late July	125.4	12	13	Ť	
Menomonee River	nyaé	9101	Late August	125.0	97	73	63	

Data Nuggets developed by Michigan State University fellows in the NSF BEACON and GK-12 programs





BACKGROUND

After taking the Satt Wise braining in 2019, UW-Green Bay grounds administrators committed to improving practices on campus. From education and equipment upgrades, to changing when and how they satted, an overhaul of their winter maintenance program resulted in huge salt salvings. An indirect benefit was a reduction in damage and cleaning incide buildings.

OVERVIEW
Salt Savings:
Winter 2018-200p; 28t tons
Winter 2019-20: 16g tons
Winter 2020-21: 66 tons
Total Reduction: 80%

HLORIDE REDUCTION STRATEGIES

- In-house training for all custodial staff and resident assistants on the environme impacts of salt, salt use best practices, and the new policies.
- Emphasis on mechanical removal (only spot treating with salt) during the storm.
- New Equipment:
- 3-ton pickup outfitted with ground speed control, air and pavement temp, sensor
 New plows for front loaders enabled the more efficient movement of snow.
- A sectional plow blade that conformed to pavement crown or un Brooms for skid steers produced a better result in less time.

The Salt Wise class opened up a whole new world.
Brad Gajeski, UW/GB Facilities and Planning



Clockwise from
upper left: Video and
page from the Data
Nugget lesson plan,
UWGB success story
for the EPA webpage,
Salt Wise Milwaukee
one-pager for City
elected officials.





THANKS FOR YOUR CONTINUED SUPPORT!



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