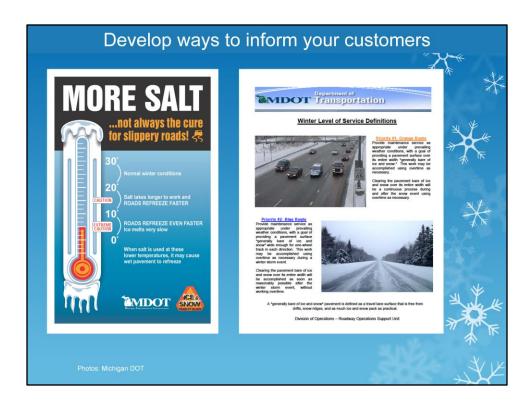


This section contains a few different items that help your organization get prepared for winter. Calibration is one of these items but it is such a large section that we have separated it out of here and gave it its own section.

There may be other things that the audience can suggest that helps them prepare for winter. This section can always be expanded to include more about winter prep.



When the leaves change color you better have your plan in place. Progressive organizations review and update their plan each year.



Communicate the basic concepts of your winter maintenance plan to your customers. By managing their expectations upfront you can avoid some calls and questions during the event.

Many ways to get the word out:

Billboards

Website

Flyers in utility bills

Newspaper

Cable tv channel

Radio

Road signs

State and county fairs

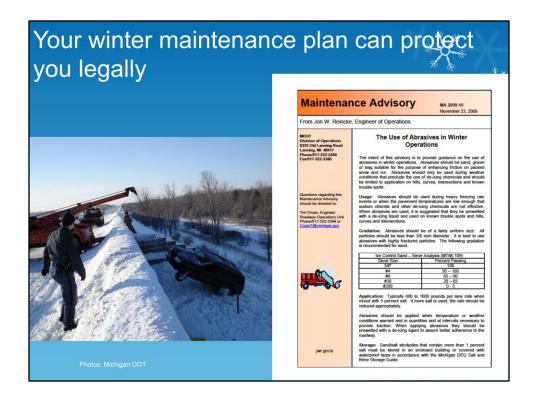
Community festivals

Town meetings



The winter maintenance plan is only as good as your crew is at implementing it. Take time to get them involved in updating and implementing the plan. If they buy into the plan and if they understand the plan you have a much better chance that they will implement the plan during the snow event.

Many ways to educate the crew:
Shop meetings
Getting ready for winter training
Posters in shop/lunchroom/locker room
Website
Printed copy of the winter maintenance plan
Training on the plan



Give example of 2 organizations that had similar accidents. Both went to court The one that had the winter maintenance plan and could prove that they were following it was held harmless. It is not possible to be everywhere at once. We need to prioritize our routes, staff and trucks and do the most critical first.

If it goes to court you can prove that you were offering the best service to the travelling public.

You can give other examples of court cases won by having a policy and documentation to back it up



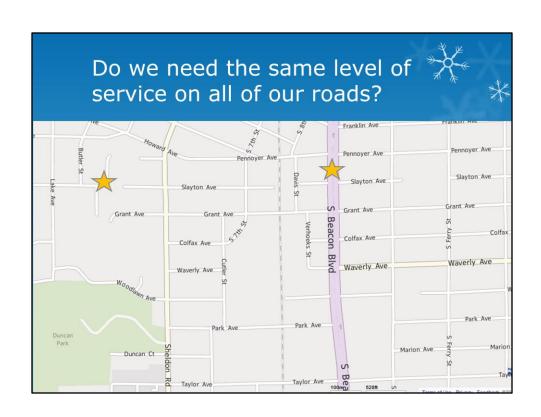
Think about what you can implement in your plan that can help reduce salt use there are many ways to do this.

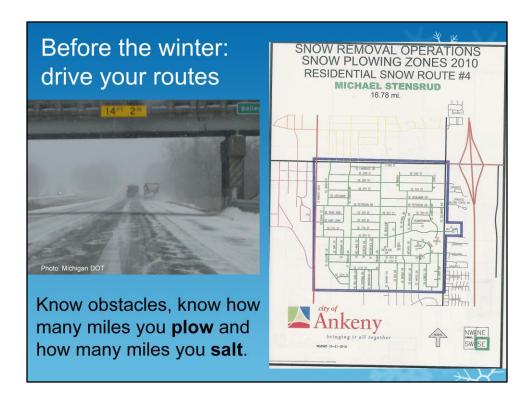
# For example:

Level of service, make sure to have different level of service standards for different areas. Make sure the crew knows what they are. Make sure crew doesn't give higher level of service. Everyone wants to do the best job possible but sometimes by doing the best job it involves more salt. The level of service is design with public safety in mind so if we can hold to that level of service and not exceed it by using extra salt we have done our job in the best way possible.

It may be time to re-evaluate the level of service for areas. Does a dead end road need bare pavement? Maybe not but bare intersections? Probably

Call outs, the earlier we can get out and plow the less the snow and ice will become compacted. Without compaction we can use less salt. So look at your call outs and see if you can move them up. For example move a 3 inch call out up to a 2 inch call out.





Each driver should know their route, how many lane miles they plow and how many they apply material to.

If the driver knows this they should be able to calculate how much salt they need. It is a good cross check for them and the equipment to make sure everything is operating properly.

For example if the route is 20 lane miles and they salt 4 miles of it. If the application rate is 300 lbs/mile they should have used about 1,200 pounds of salt. If the truck is half empty...something is wrong..

Knowledge is power and leads to more effective winter maintenance



Blowing drifting areas get special attention. These areas should be documented for your organization and you should be working to get temporary or living snow fences installed.

Training for the driver is important too. Often times it is better to not anti-icing or salt these stretches and just let the snow blow across the road.

# Snow fences

can reduce blowing and drifting problems, reduce cost of winter maintenance, make roads safer and protect the water!

# LIVING SNOW FENCES Michigan CONSERVATION RESERVE PROGRAM CPP - CP17A

Natural Resources Conservation Service (NRCS) March 2011



## WHAT IS A LIVING SNOW FENCE?

Living snow fences are linear plantings of multiple rows of trees or shrubs established for environmental purposes such as managing snow, providing living screens, and enhancing wildlife habitat. Living snow fences intercept snow to protect roads, lanes, railroads, etc. and also provide travel corridors, nesting sites food and senses ever for more wildlife, seeping sites food and senses ever for more wildlife, seeping

### ELIGIBILITY

To be eligible for this practice for the Conservation Reserve Program (CRP), the land must have a cropping history (4 out of 6 years from 2002 - 2007), and need protection from snow.

If wildfire habitat is the only resource concern, the site is not eligible for a CPF Living snow fence. However, the site may be eligible for a Field Windbreak (CP5A) through the Continuous Conservation Reserve Program, or it may be eligible for other USDA cost-

If the purpose of the windbreak is to protect growing plants, minimize wind enosion, or protect buildings or inventook areast, the site in god leighte for a CRP CPTP. A However, the site may be eligible for a Fisel Windbreak (CPSA) or a Shetherbeit (CPTRA) through CRP, or it may be eligible for other USDA cost-share programs.

#### CRP POLICY

Living snow fences will be installed according to the Windbreak/Shelterbelt Establishment Standard (380) in the local Field Office Technical Guide (FOTG). For the Conservation Reserve Program, the maximum width of living snow fences will be the minimum needed to manage snow, according to the FOTG, regardless of the purpose of the living snow fence (windbreak density of at least 50%).

The living snow fence will be oriented perspendicular to the troublesome winds, and will be located so as not to create visibility or snow accumulation problems. The internal between new and existing fiving snow fences, and the spacing between and within the rows, will be determined based on the Design and Mature height of the species in the living snow fence according to FOTGs. The windward now will be located at least 57 feet from the area to be protected and will extend at least 56 feet in either direction from the area to be

Tree and shrub species selected for the living snow fence will be adapted to the site conditions and meet the standards in the local FOTG. Only viable, high

## INSTALLATION

It is very important to prepare a weed-free and firm seedibed before planting the trees and shrubs, and cost-share is authorized for this component. It may be necessary to prepare the site the fall before planting the trees in the spring using tillage, herbicides, etc. Corntact your local Michigan State University Extension Office for specific herbicide recommendations. All

Plantings using bare-noted stock and non-noted cuttings should be completed in the spring after the ground thaws, but no later than June 1; or planted in the fail after October 1 until the ground fleezes who soil moisture is adequate. Containerized and balled and burlay stock may be planted between October 1 and June 1 as local soil moisture and weather condisions permit

Weed Control is also important to ensure survival and maximum growth of the trees affige they are planted. Cost-share is authorized for one weed control application without 24 montrols affice the three serious particular and a serious control and the serious control weed-free to maximize tree growth: Eshould remain weed-free to maximize tree growth: Fathor weed barriers are very effective at minimizing weedcompetition, but are not eligible for CRP cost-share. competition, but are not eligible for CRP cost-share.

NRCS, Michigan

ftp//ftp-fc.sc.egov.usda.gov/mi

Link to MI snow fence guidance



http://www.dot.state.mn.us/environment/livingsnowfence/design.html MN snowfence website. Helpful in determine location and dimensions of living and structural snow fences.