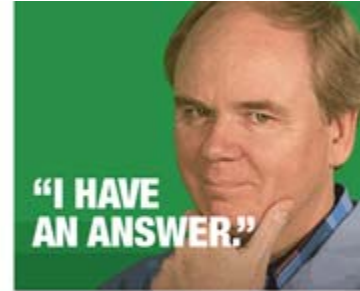


# THANK YOU FOR SUBMITTING YOUR QUESTION...



## Your question:

Dr. Scott, what is the best way to treat hills like we have in Duluth, MN? How do you keep the treatment in place? When we have tried in the past it runs down the hill. What is the cost to do it the right way?

## My answer:

An excellent question - I grew up in Cloquet, and I am very familiar with the steep hills of Duluth! I don't have a definitive answer for you based on experience. I don't know of any studies that have been done on this question nor am I familiar with what other winter maintenance workers do in this situation offhand. However, I will share you with a speculation. My first thought is that I would consider pre-wetting. Wetting increases the adhesion of salt to pavement, and I expect wetted salt would resist being pulled downhill by the force of gravity better than dry salt. Also I suspect that a finer gradation of salt would also better stay put on hills with a high grade. This would be an excellent question to post on the SICOP Snow and Ice List-Serv. If you are not aware of this, let me point you to it as a super resource. It is a "bulletin board" where winter maintenance professionals post questions and share their practical experience with each other. You can sign up for it here: <http://sicop.transportation.org/Pages/snowandicelist-Serve.aspx>.

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