

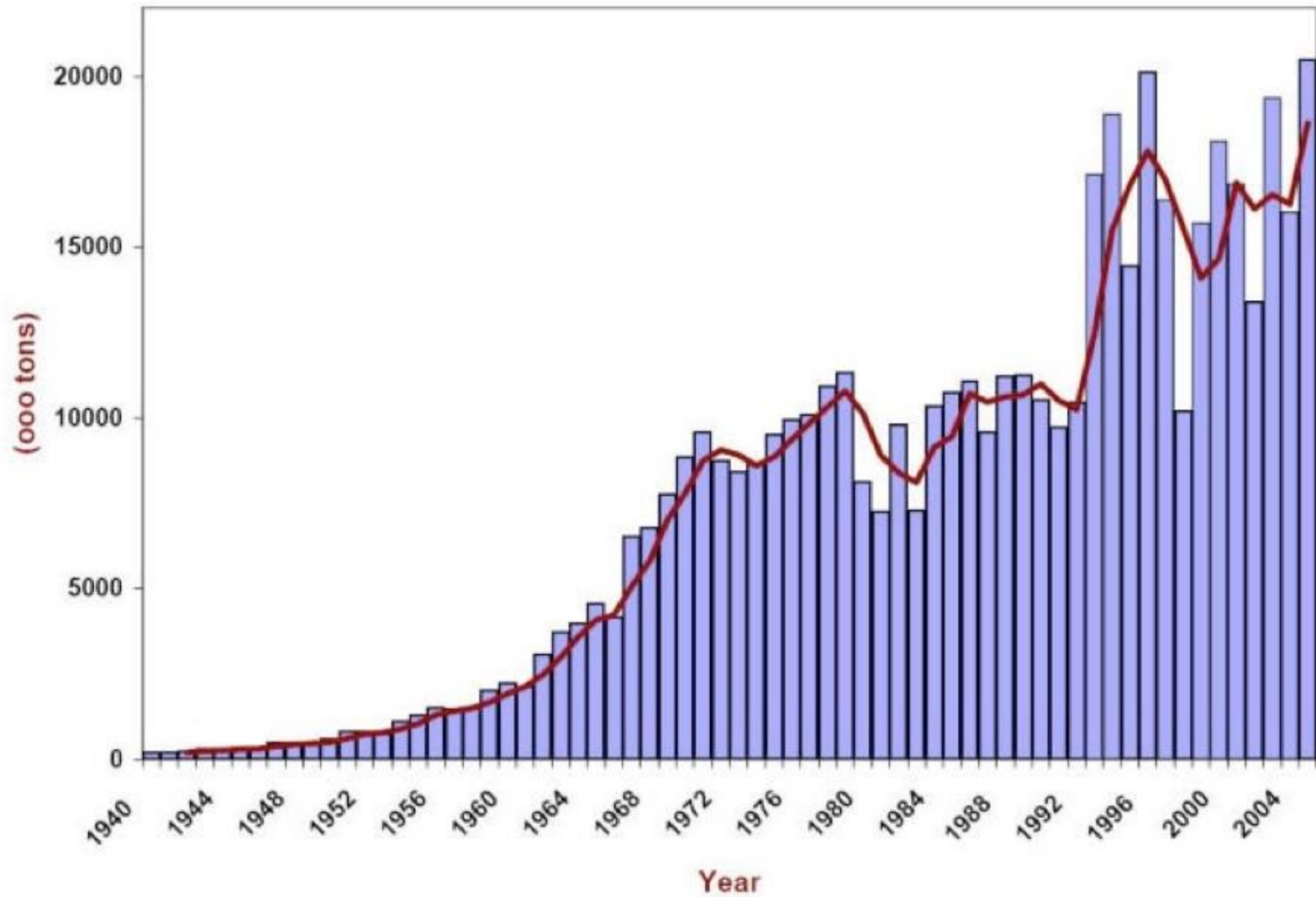
# The State of Chlorides in New Hampshire



Ted Diers, NHDES



# Salt use in the US



Source: Salt Institute

# Why salt matters ...



Landscaping



Toxic for fish



Infrastructure



Wells

# Other issues

- Density of runoff water
  - Effect on phosphorus
- Combination effects
  - Chloride PLUS
  - acidic PLUS
  - low DO

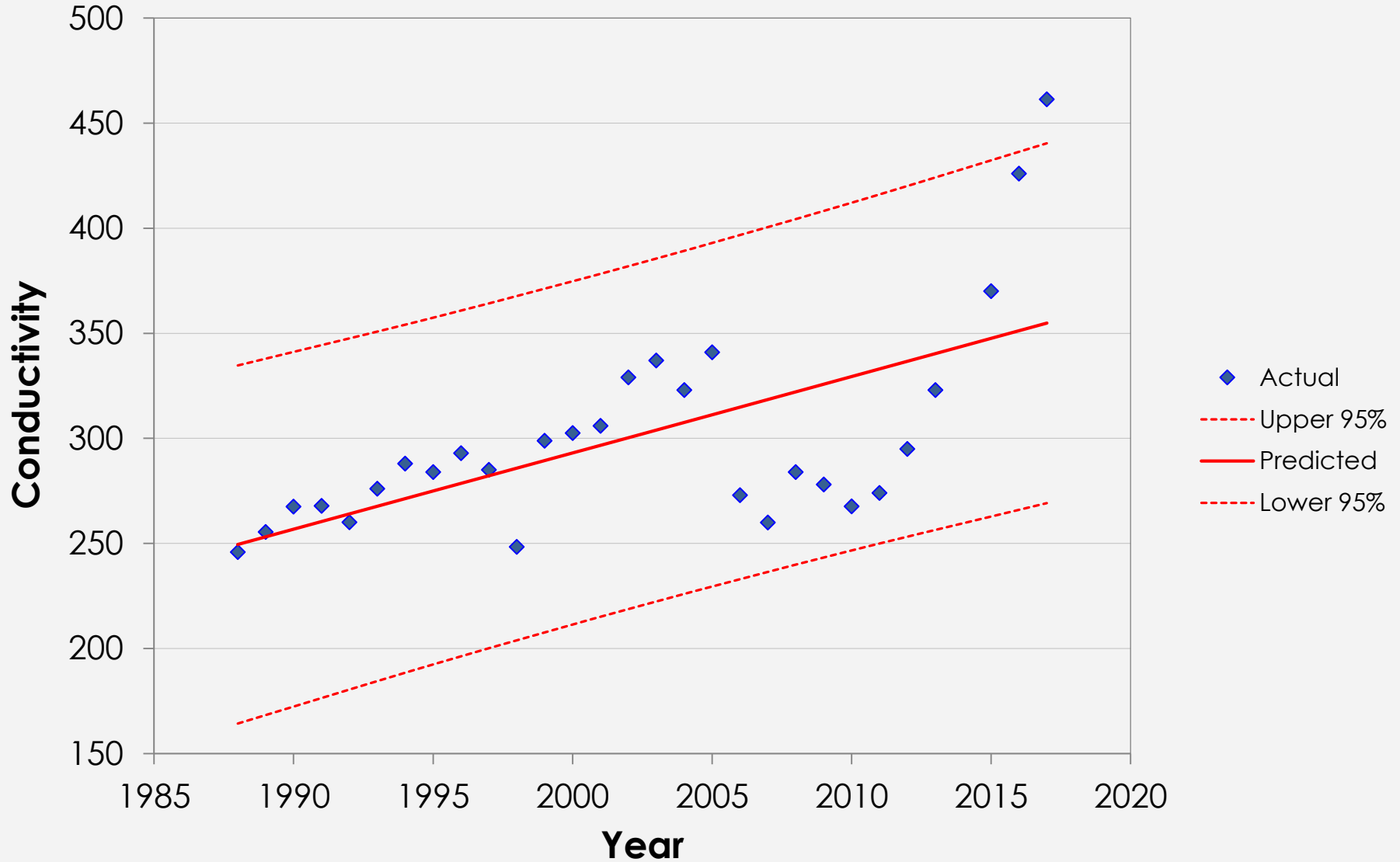


Tap Water

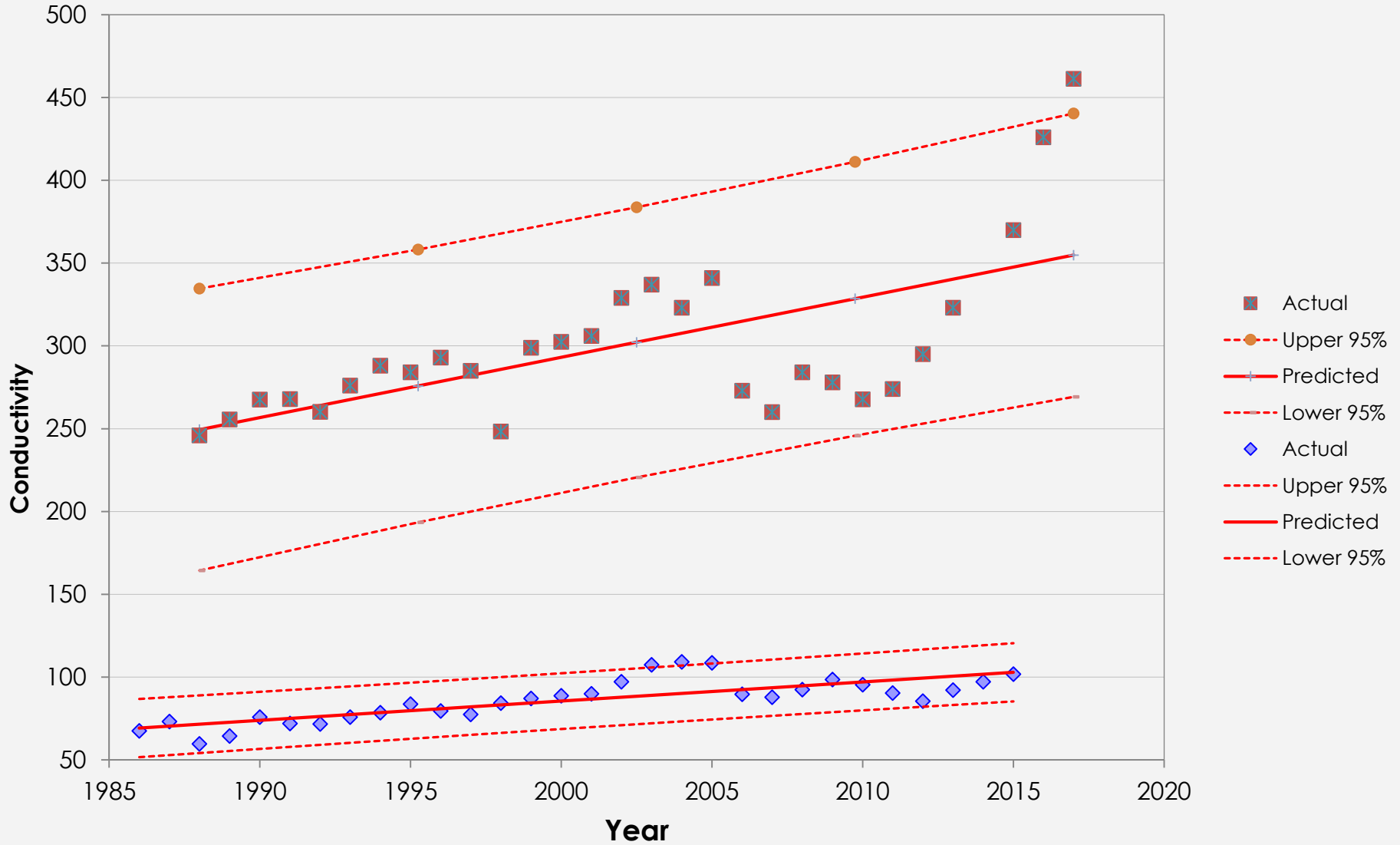


Salt Water

# Cobbetts Pond Conductivity Trend



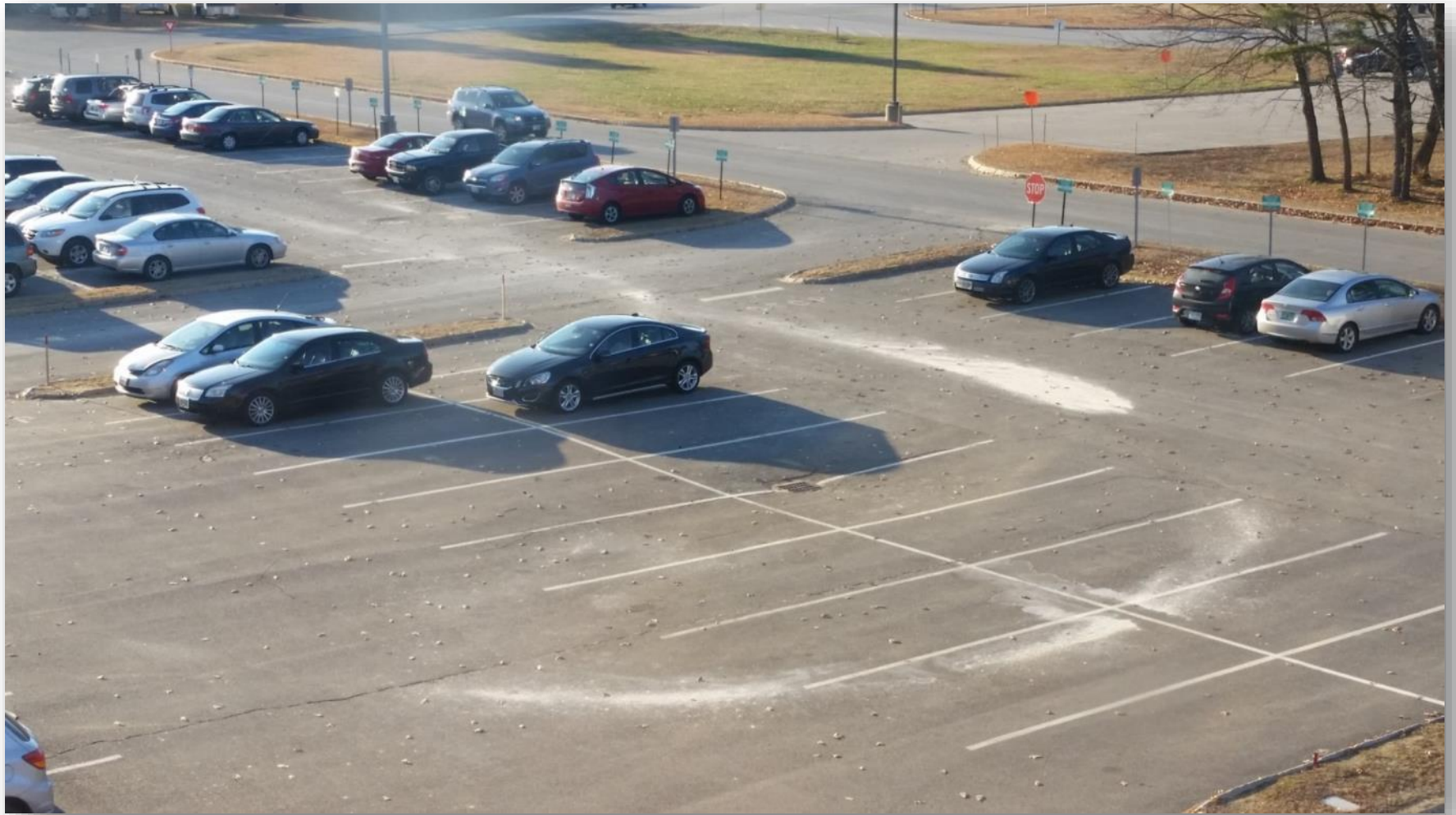
# Conductivity Trends in Cobbetts Pond and Lake Sunapee



# Salt sources?

- Highway - I93 is ~10% of loading
- Roads and parking lots
- Household winter maintenance
- Septic systems and water softeners
- Salt storage





The issue is over-application!

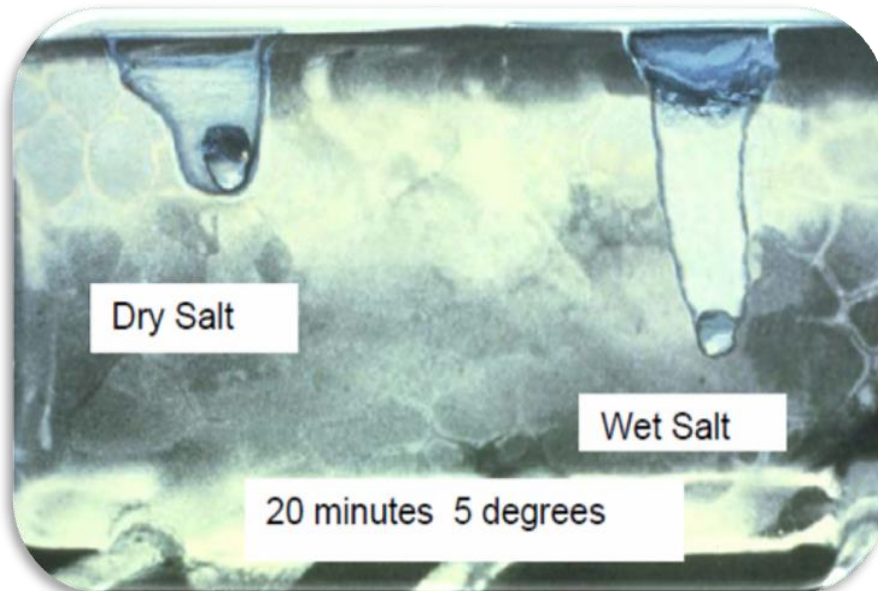


How to reduce?



# Training and Liability

- Training
- Certification
- Liability protection
- Like ski-areas

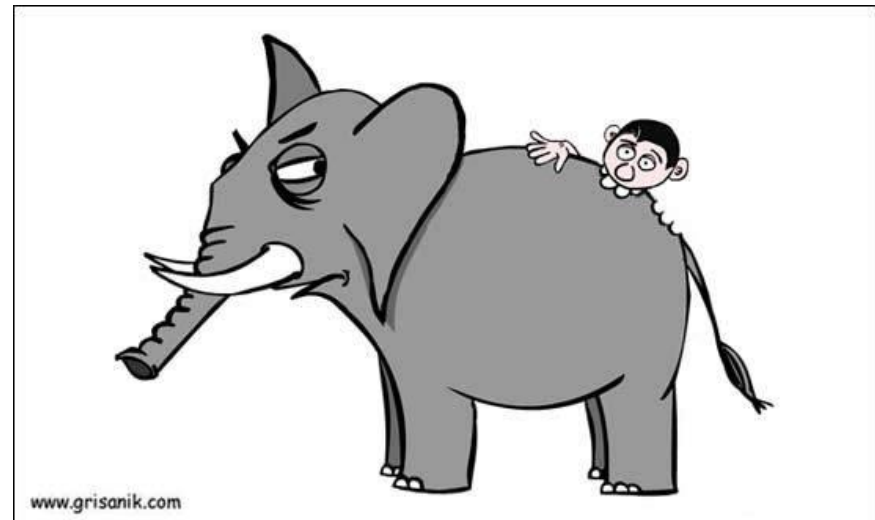


Source: Wisconsin DOT Transportation Bulletin #22



# Many solutions, take small bites

- Focus on highest contributing watersheds
- Understand sources
- Identify Potential Low Salt Roads
- Reduce all salt sources
- Work with towns and NHDOT
- Green SnowPro
- Keep monitoring!



# Discussion



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