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## SNOW & SALT PARADOX

Salt has been used since 1942 to keep concrete and asphalt snow and ice free. However, its impact is proving to be harmful to the environment and infrastructure.

### NEW HAMPSHIRE ENVIRONMENTAL AFFAIRS CONCLUDED IN 2013:

#### Road Salt Pollution - Toxic to Fish, Invertebrates and Other Species

- EPA Acute Toxicity (kills fish quickly) = 860 mg Cl/L
- EPA Chronic Toxicity (kills fish slowly) = 230 mg Cl/L
  - Contaminates drinking water
- EPA Secondary Maximum Contaminant Level (MCL) based on taste = 250 mg/L of Na or Cl
  - \* Associated with high blood pressure - EPA advisory limit 20 mg Na/L

#### Salt Destroys Vegetation, Infrastructure and Corrodes Vehicles

- No way to remove NaCl once applied
- Not removed by plants and does not stick to soils
- Desalinization is EXPENSIVE and impractical (high energy)

**LIABILITY:** The state of Maine\* estimates the average lawsuit claim due to falls from untreated surfaces is \$33,000 according to statewide statistics.

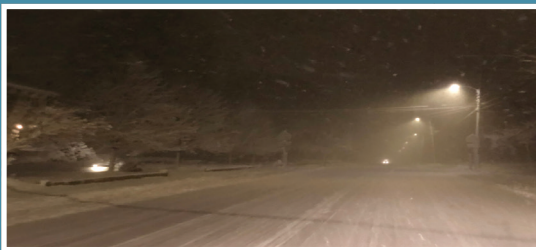
\*Maine Dept. of Labor

**SALT USAGE:** Salt use in New Hampshire has nearly doubled the past 40 years to about 190,000 tons (\$16.15M) per year or 21.5 tons per lane mile.

\*New Hampshire Dept. of Environmental Services



**BLACK ICE:** Melting and refreezing causes black ice in Northern tier states. Using Heated PaveDrain could save lives by collecting the water before it ever hits the main highway.



**ROADWAYS:** Roadways become treacherous when driving in these conditions. Also, once the snow season is over and the budgets are exhausted, states and towns have to use street sweepers to clean the sand and salt costing even more money.



THE MOST EXPENSIVE SYSTEM EVER SOLD IS THE ONE THAT DOES NOT WORK ~ HENRY FORD

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