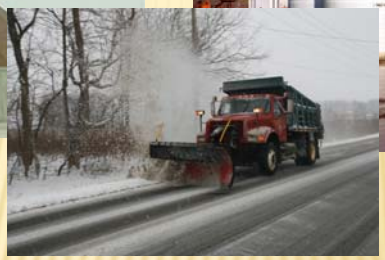
MATERIALS USED IN SNOW AND ICE CONTROL



DIANACLONCH

Specializing in management, operations, snow and ice control, training and innovative technology.

MATERIALS

WINTER MAINTENANCE MATERIALS

- What is our goal…our objective?
- What materials are available for use in winter operations?
- How do these materials work?
- How effective are these materials?
- How do we use these materials?

COMMON ROAD TREATMENT MATERIALS

Chemicals

- Salt (Sodium chloride)
- Calcium Chloride
- Magnesium Chloride
- Potassium Chloride

Natural Occurring Salts

- Brines
- Potassium Acetate
- Calcium Magnesium Acetate
- Urea
- Agricultural Products
- Other Proprietary Materials
- Abrasives

ABRASIVES

- Sand, cinders, ashes, crushed rock
- Specifications
  - Size (gradation) material
  - Type of material
  - Characteristics material
  - Environmental
- Advantages / Disadvantages

CHEMICALS

Chemicals applied to:

- **prevent** bonding of ice and snow to road surface
- **prevent** ice or frost from forming
- **prevent** buildup of snowpack
- melt ice that has formed

CHEMICALS: HOW DO THEY WORK?

- Depress the freezing point of water, turning ice or snow into liquid or slush
- Solid salts dissolve to form brine solution

Panel Introductions……