

Dust Management Strategies

- Speed
 - ➤ Increase speed from 10 to 20mph = double the amount of dust
 - ➤ Increase speed from 20 to 30 mph = triple the amount of dust
- Limit Driving on the dustiest days

Barnes and Connor, 2016

since 1917

Dust Management Strategies

- Calcium Chloride Use on roads outside of town (road to the landfill for example)
- Synthetic Fluids Use on roads in town, specially by the school, clinic and near residents who have respiratory problems

Barnes and Connor, 2016

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Synthetic Fluid Considerations Aggregate **Appropriate** mix 100 particle sizes in the 80 aggregate (fines 10-13%). Ask for a 60 particle size gradation 40 of the aggregate from the contractor. 20 0.01 Particle Size (mm) ALASKA since 191

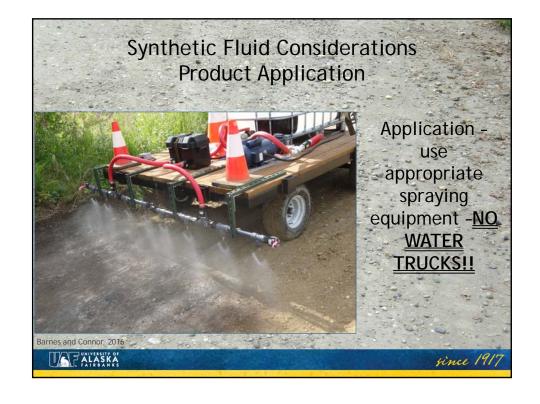
Synthetic Fluid Considerations Product

- Types Be sure product has been tested and has a good reputation - do your homework!
- Best to have a product that can withstand storage down to -50°F.
- Application rates Too much wastes expensive product, too light results in poor performance. Determining the right rate requires testing.

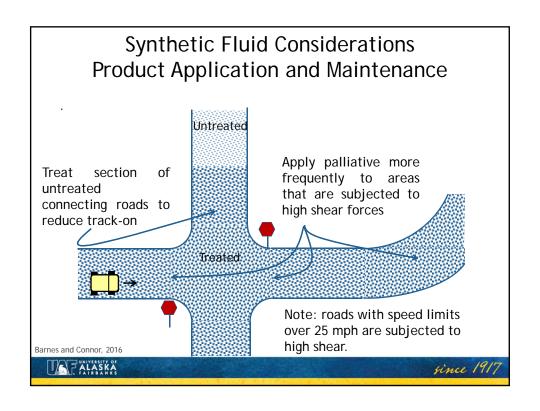
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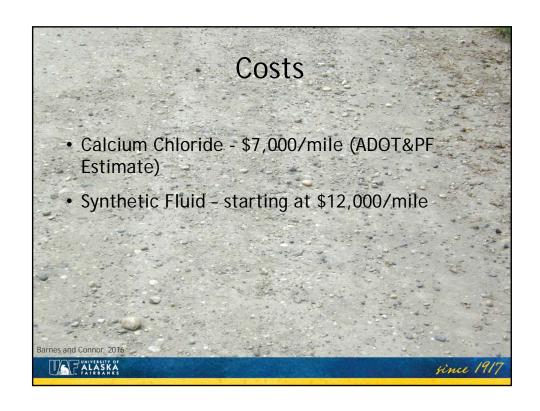
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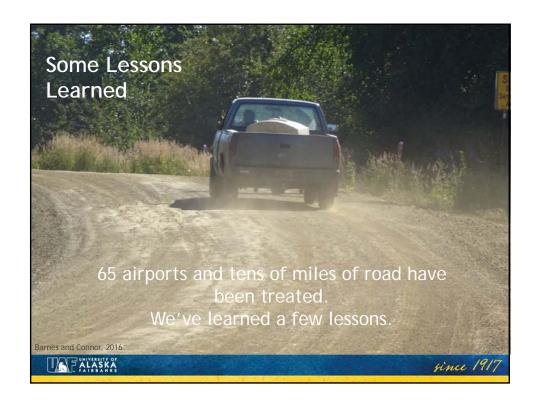














Reasons for Poor Performance

- Surface too sandy (low fines)
- Material too dense to allow penetration of the selected product
- Weather
- Too little product applied
- Use wrong equipment for application
- · Not applied in multiple passes

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