Road Maintenance

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MoDOT – Environmental Division
Howard’s Ford - 2009
MoDOT - Modified Low Water Crossings

• Practical Design – Chevy vs Cadillac
• Wider Crossing for Vehicles
• Higher Elevations (decrease flood frequency)
• Installation of Rails
• Environmental Benefits
Road Maintenance Overview

- MoDOT – 34,000 miles of road
- From 200,000 vehicles per day in St. Louis
- To 4 vehicle per day in Southeast
- Most important maintenance factors:
  - Safety, Cost and Environmental
MoDOT – Gravel Roads?

• MoDOT maintains hundreds of miles of gravel shoulders
• MoDOT historically has assisted with country road entrances at intersections
• Different maintenance challenges vs county roads
Dust Control

- Reduce traffic volume
- Reduce speed
- Water roadway
- Synthetic Stabilizers
- Pave Road
- Slow the wind
Drainage is Everything

• Uniform drainage reduces dust
• Eliminates puddles
• Reduces potholes
• Roadway ditch/culvert/low water crossings
Pavement Design

- Selecting the best material for application
- Base is extremely important
- Ensuring gravel road can handle heavy loads (farming equipment)
- Considering smaller compact vehicles
Maintenance of Gravel Roads

• Proper equipment goes a long way
• Good operator is critical
• Training
• Innovative field practices
• Snow Removal
Stormwater Consideration

• Grass slopes
• Grass ditches
• Rock Ditch Checks
Future of Pavements

https://www.youtube.com/watch?v=ScsQYHMFabU
Questions?