## Inventory-Based Rating System TM for Gravel Roads

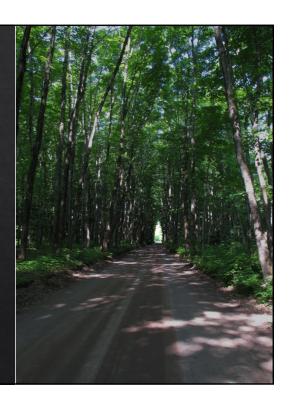


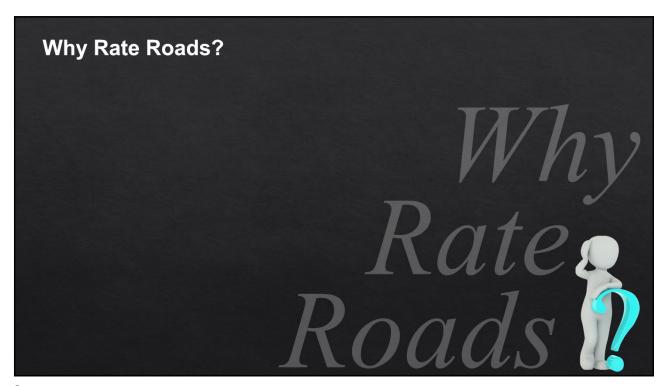


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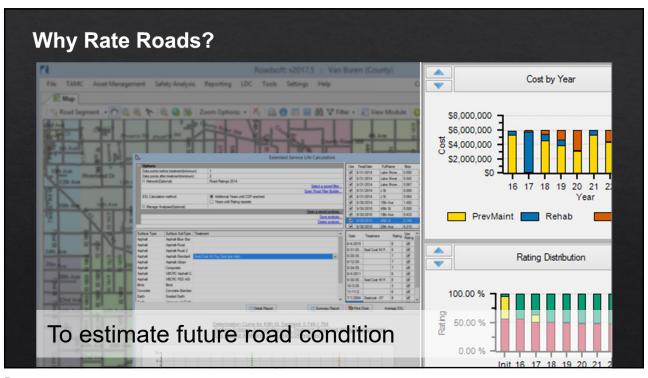
#### **Agenda**

- Why rate roads?
- Why rate gravel roads?
- Why use the IBR System™?
- IBR System™
- Rating exercises

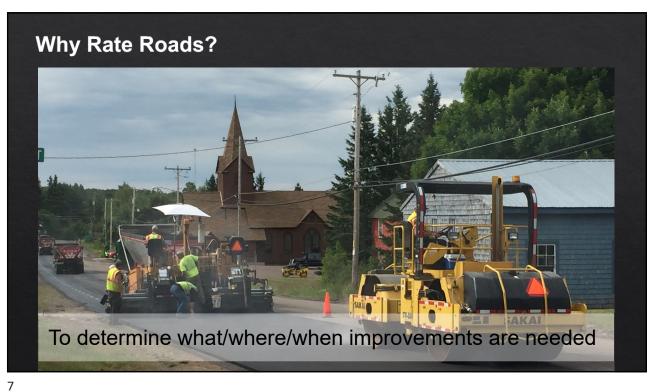


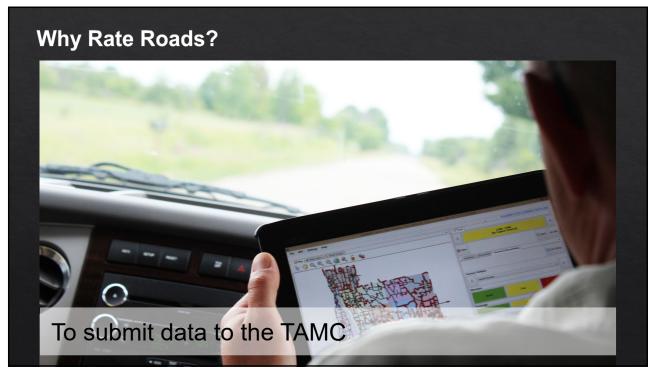




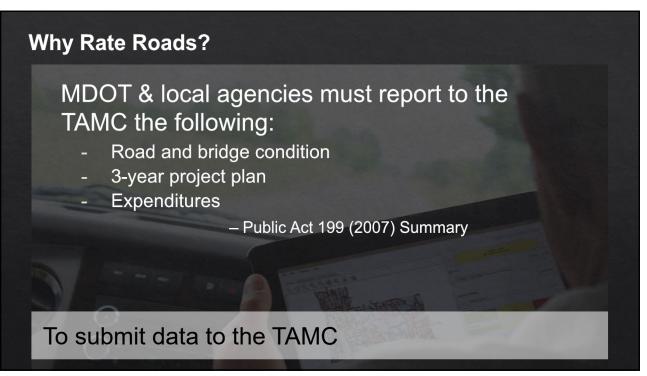


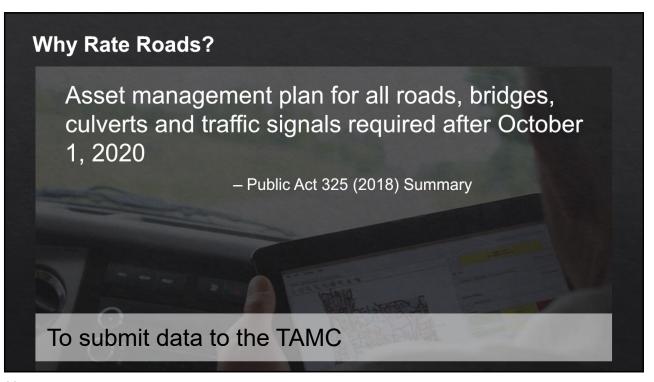












## What is the TAMC? A supporter of excellence in managing Michigan's transportation assets by: developing a pavement management system advising the Michigan Infrastructure Council, the State Transportation Commission, and the Legislature

#### What is the TAMC?

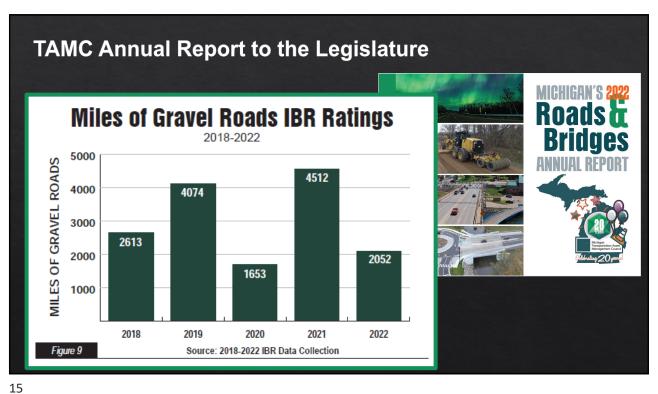
A supporter of excellence in managing Michigan's transportation assets by:

- promoting asset management principles
- promoting tools and practices for road-owning agencies



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# TAMC Annual Report to the Legislature MICHIGAN'S 2022 Roads us Bridges ANNUAL REPORT

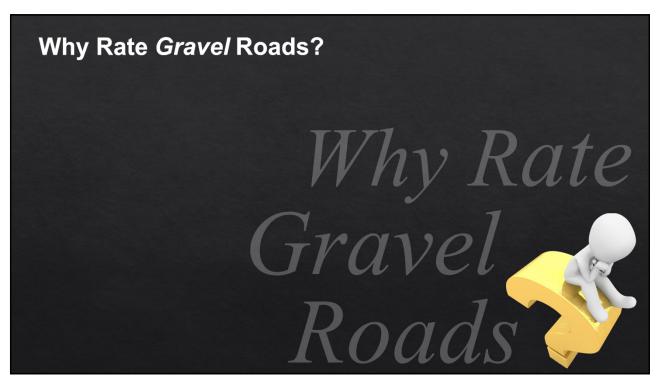


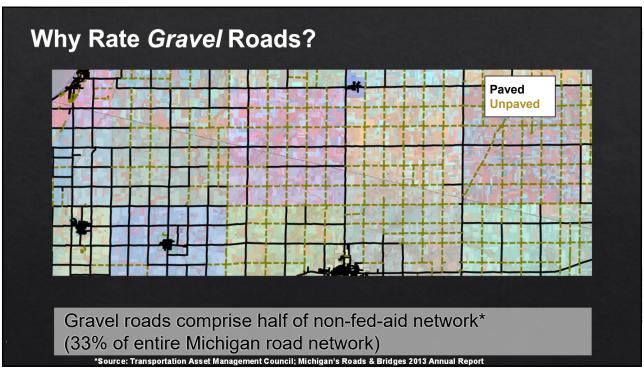
#### **Reporting Data: Tale of Two Data Collections**

TAMC federal-aid data collection

Non-federal-aid data collection

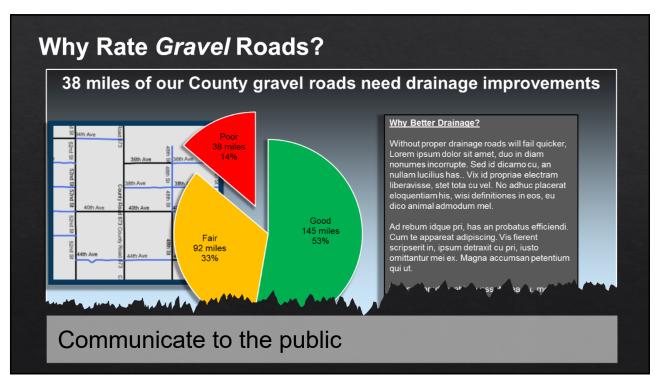
- agency decides what to collect
- agency must get approval first to be eligible for reimbursement
- agency rater does agency's own roads

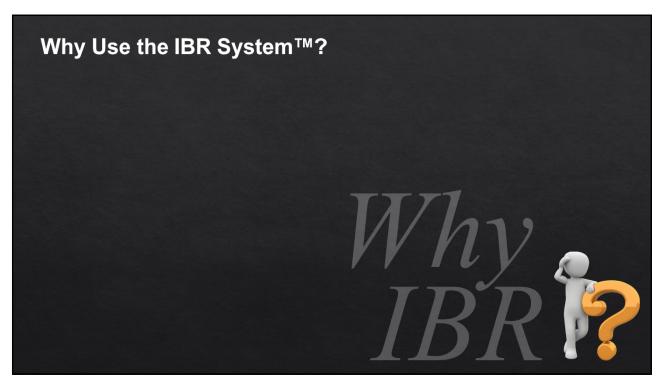










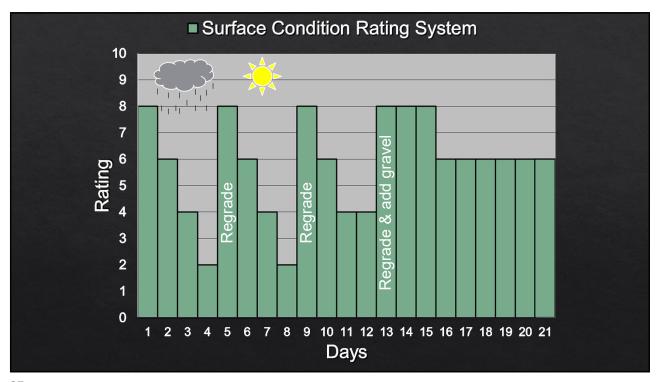


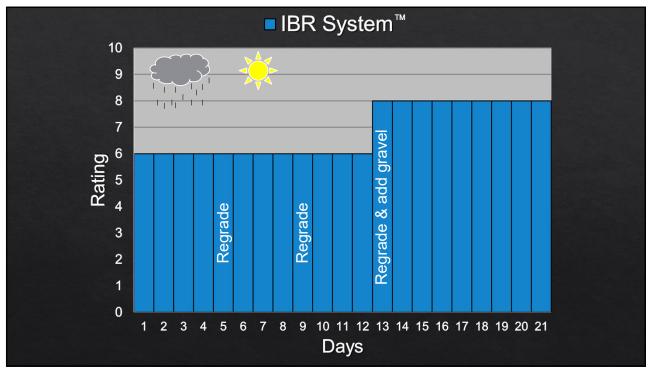


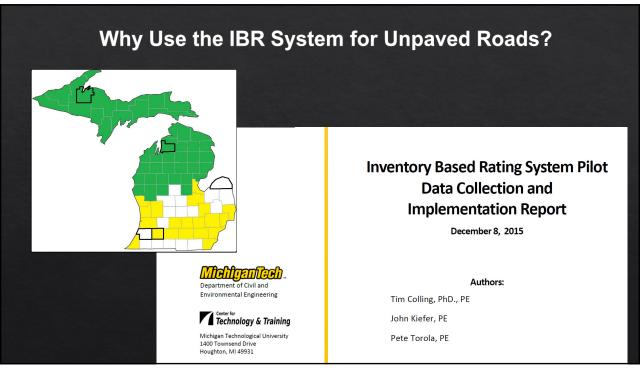






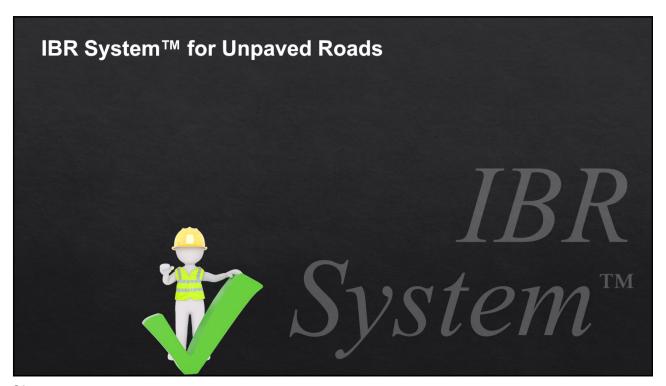


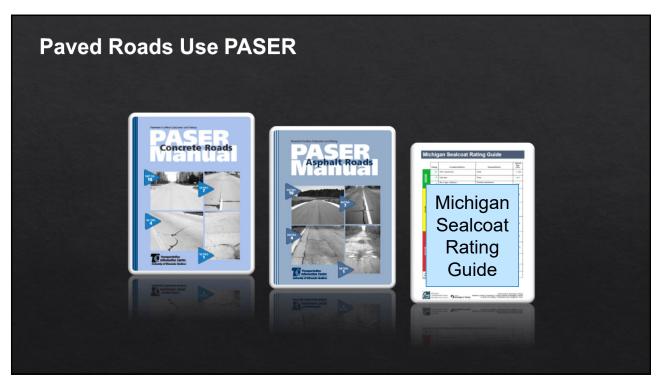


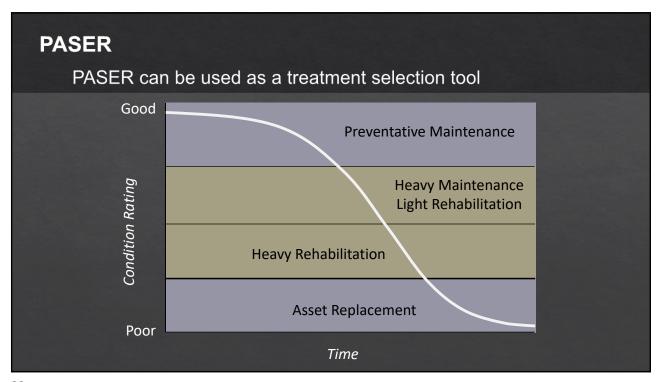


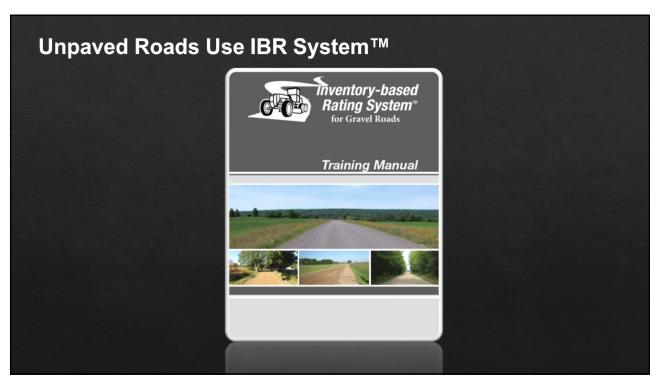
Why Use the IBR System for Unpaved Roads?

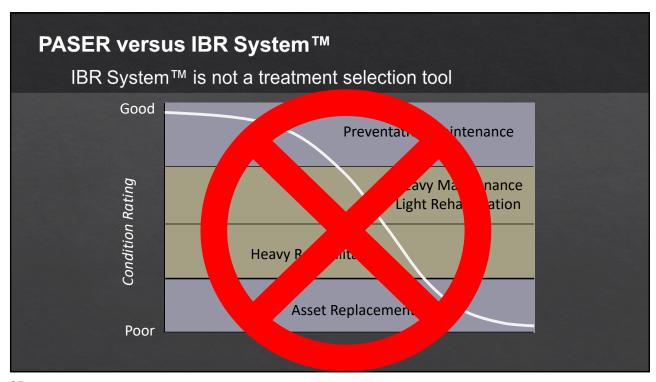
SEASONAL
ROAD
NOT SNOWPLOWED
BY THE
HOUGHTON
COUNTY ROAD
COMMISSION

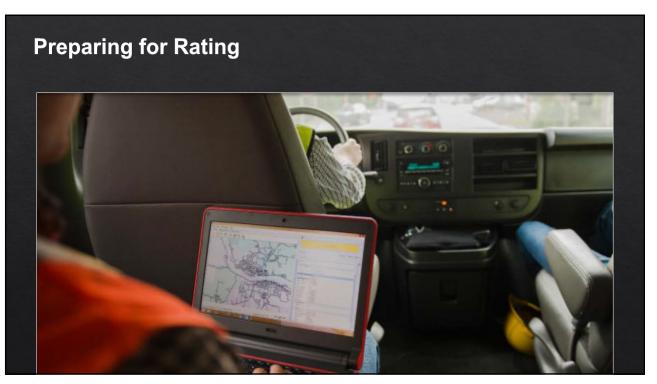














## Preparing for Rating: Understanding the Data Collection Policy

All rating team members must have attended:

- 1. PASER trained or certified in 2021, 2022, 2023, or 2024
- 2. IBR training every 3 years

See the TAMC Data Collection Policy for more details: www.michigan.gov/mic/tamc TAMC Policies



### **Preparing for Rating: Understanding the Funding Structure**

Local Agencies reports to Planning Originations

Planning Organization reports to TAMC

MDOT staff uses MDOT time coding

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#### Preparing for Rating: Understanding the Role of the TAMC Coordinator

Reimbursement
Certification
Data collection policy
Reporting requirements



TAMC Help Desk
Ph: (517) 335-3741
MDOT TAMC@Michigan.gov

### Preparing for Rating: Start & End Dates

START: First Monday of April

Weather permitting

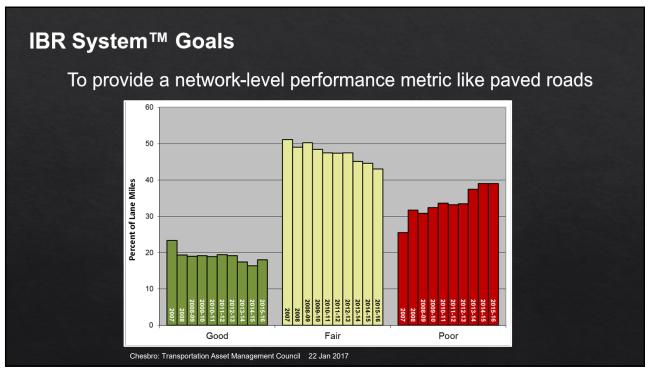
**END: First Friday of December** 

Last day to collect

SUBMISSION: Second Friday of December

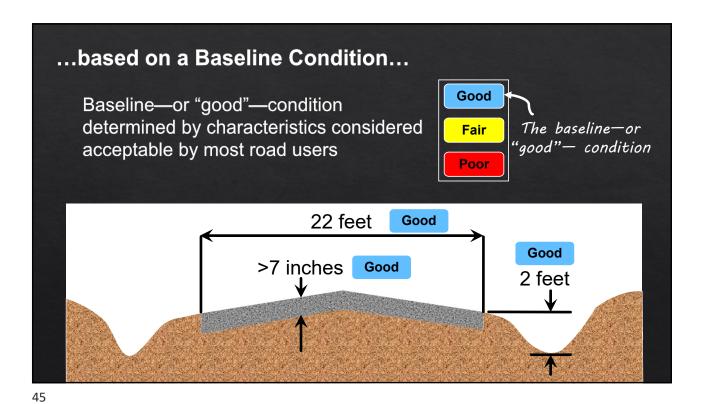
Last day RPO/MPO to submit to CSS

41

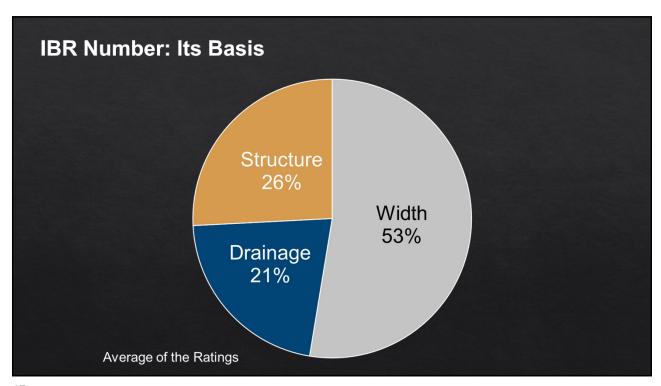


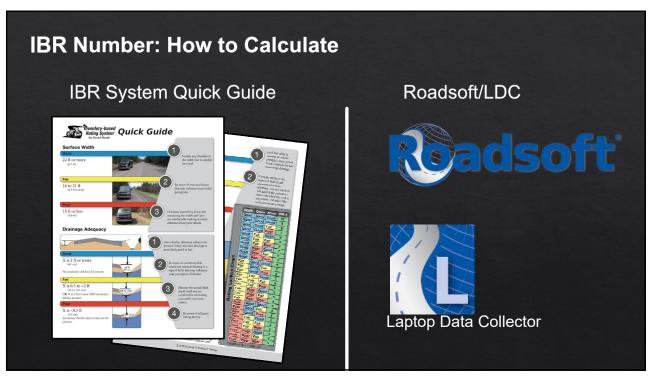




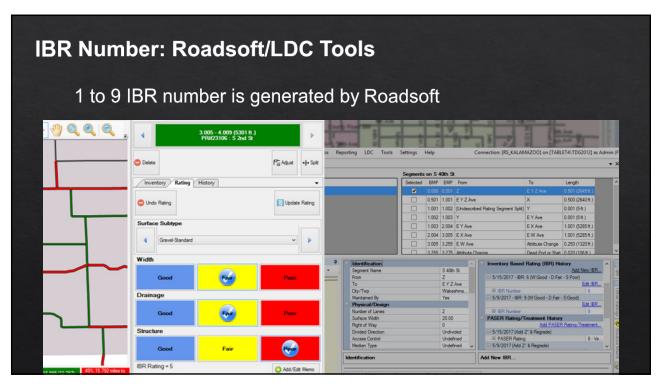


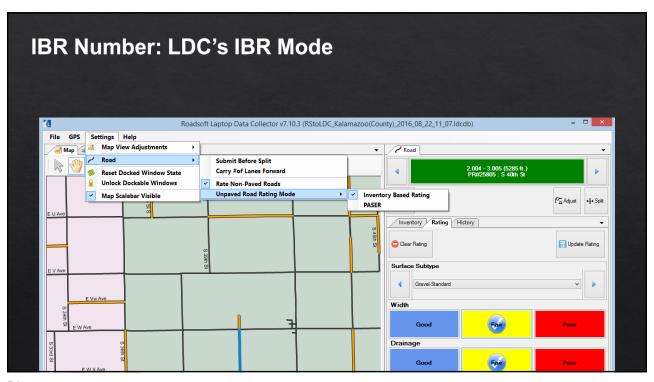
...to Generate an IBR Number √ "good" surface width Good Good 10\* Good Good Good ✓ "good" drainage adequacy Good Good Fair Good Good Poor ✓ "good" structural adequacy Good Fair Fair Good Fair Poor Good Poor Good
Good Poor Fair IBR number = 9 Fair Good Good
Fair Good Poor
Fair Fair Good Fair Fair Poor Good Fair Poor Fair Poor Poor Fair Poor Good Good Poor Good Fair Poor Good Poor Fair Fair Fair Poor Poor Good Poor Fair Poor Poor

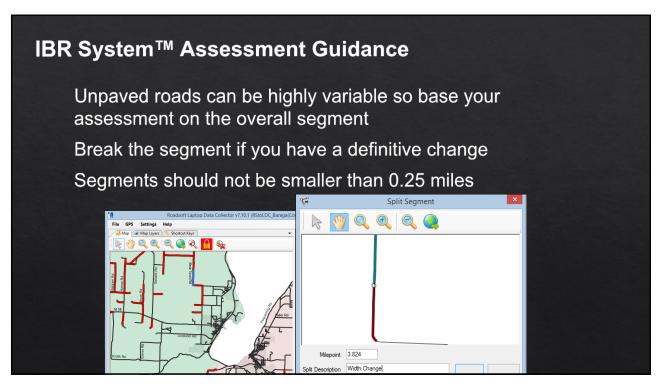


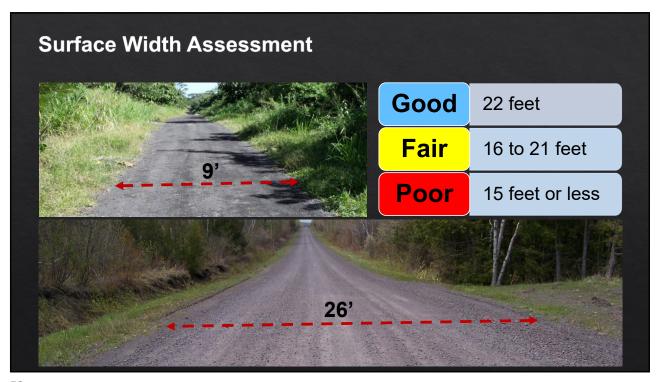


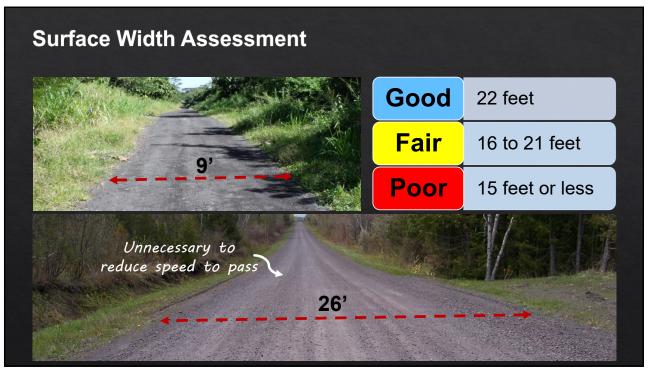


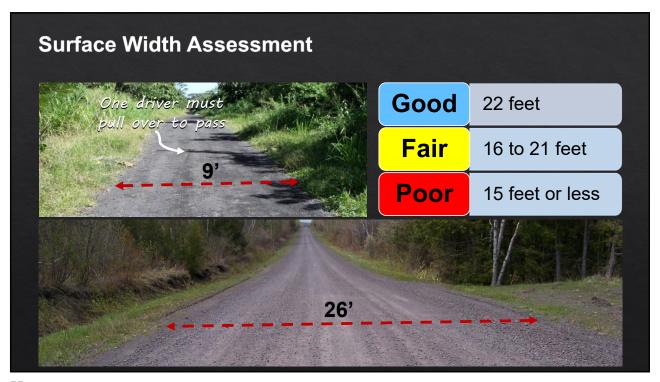


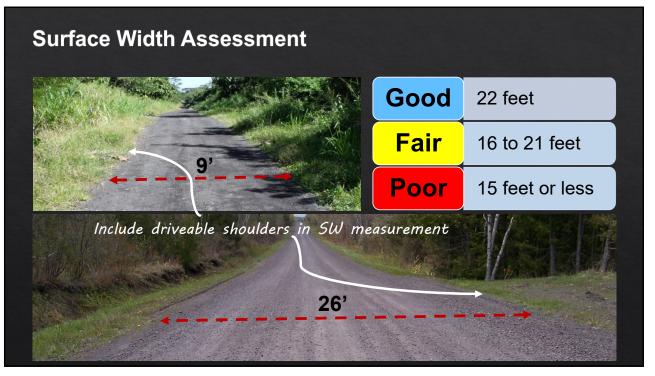


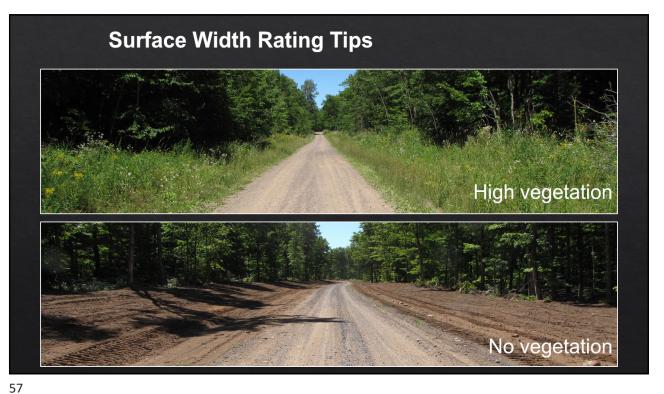




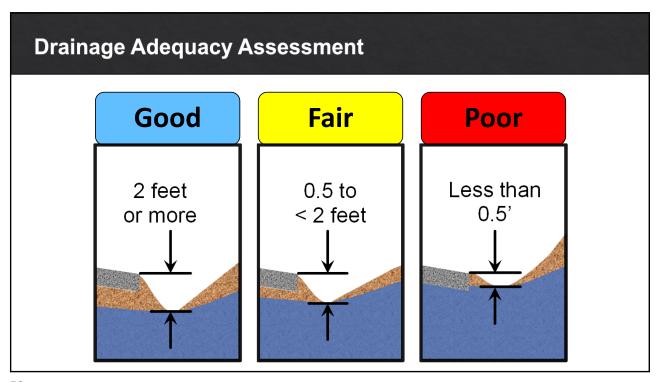


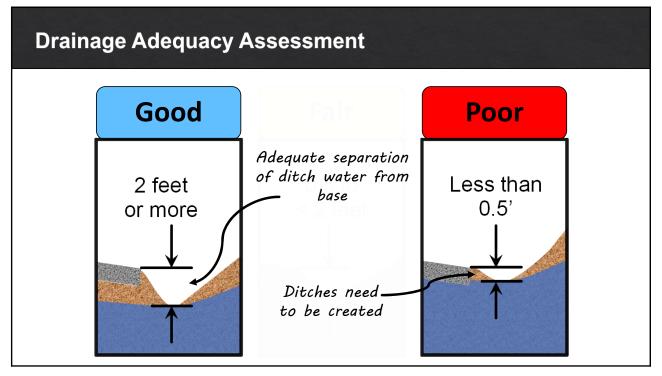


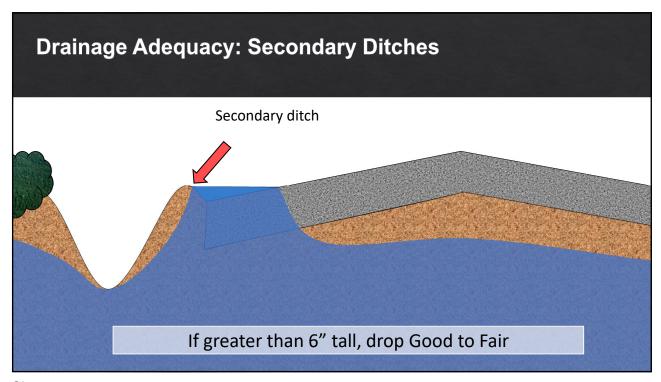


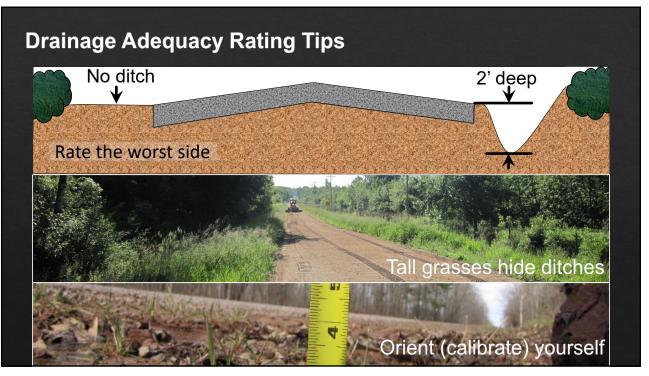




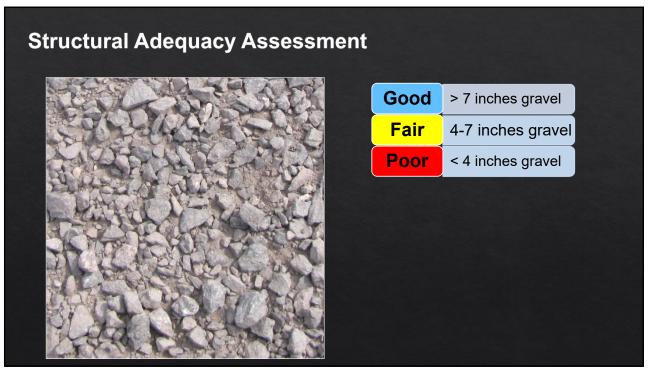


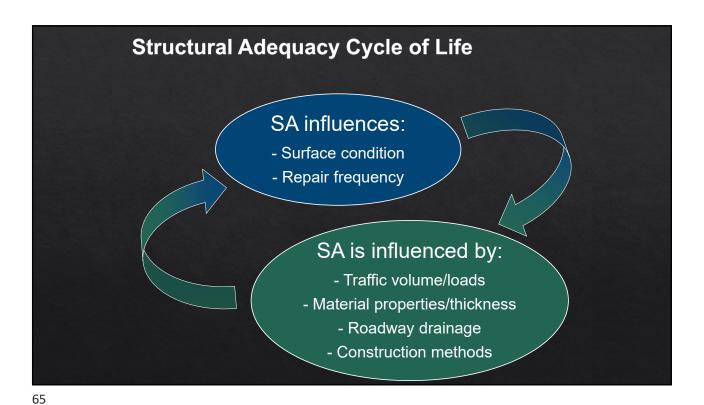








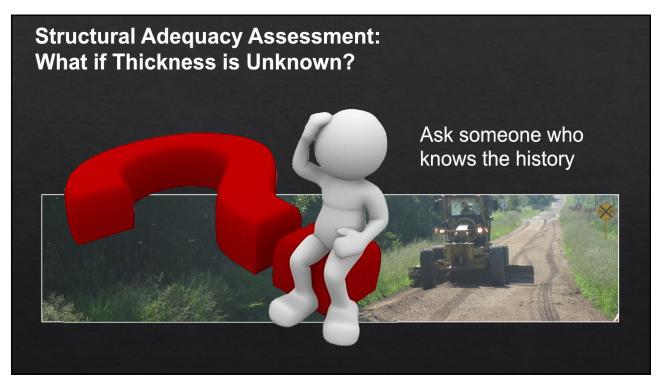




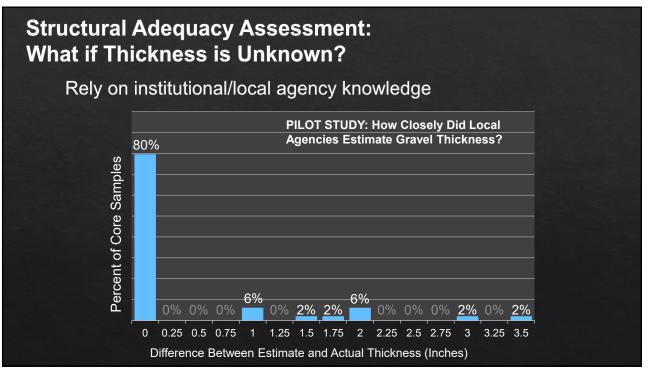
**Structural Adequacy Assessment** Good > 7 inches gravel Fair 4-7 inches gravel **Poor** < 4 inches gravel **Traffic Level** Relative Quality of Roadbed Soil Medium High Low **Very Good** 6" 15" Good 7" 12" 17" Fair 7" 17" **Poor** 9" **Very Poor** 10" \* Higher type pavement design recommended

U.S. Climatic Region III recommended aggregate base thickness from the AASHTO Design Catalogs given in the Gravel Roads Maintenance and Design Manual

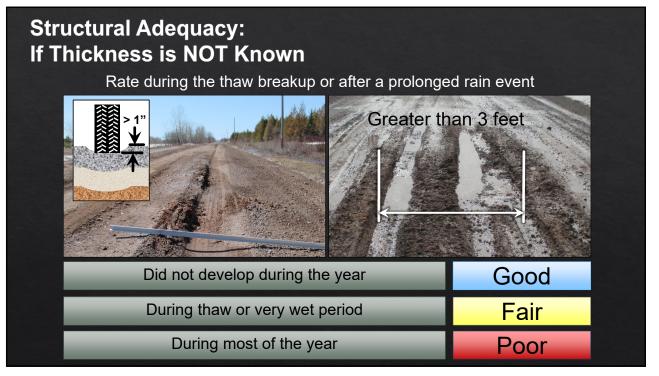


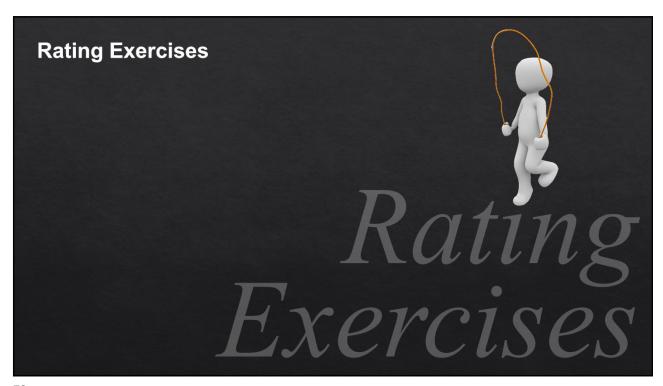












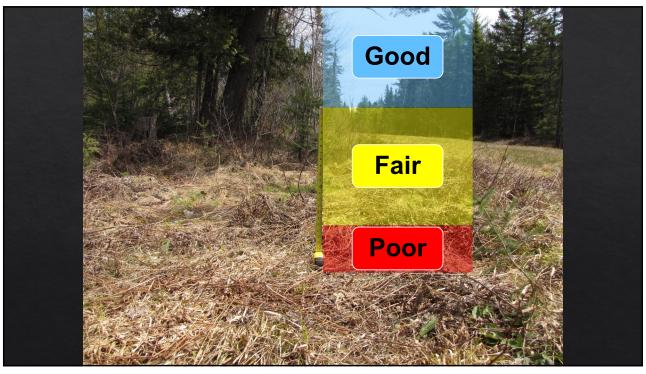


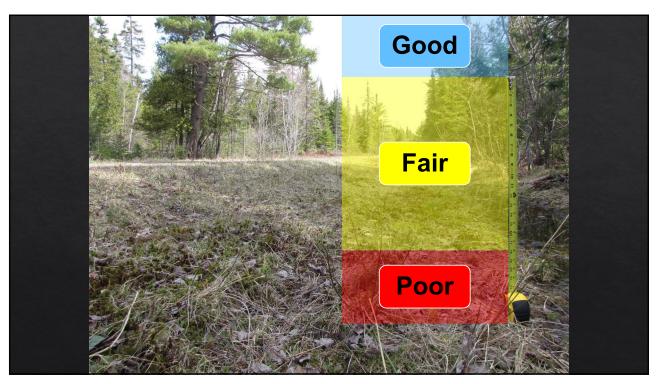


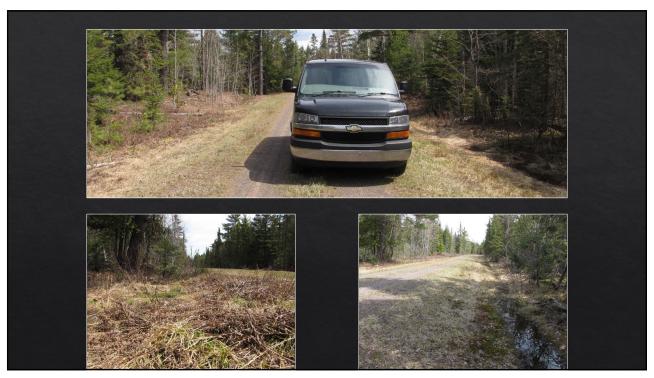


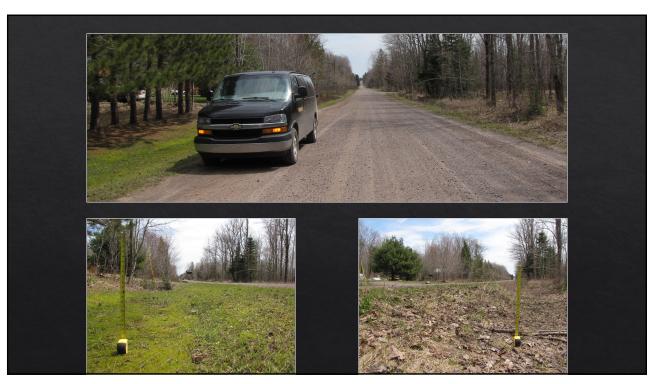


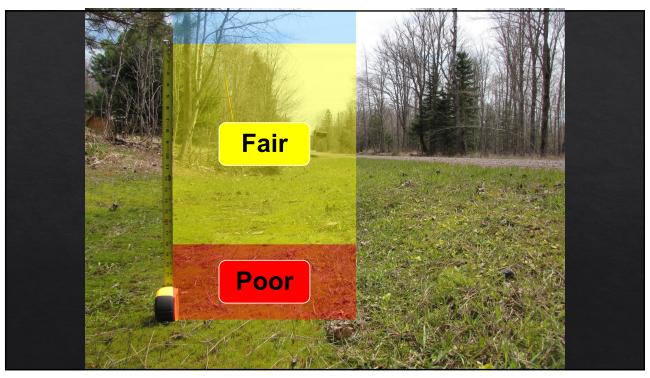


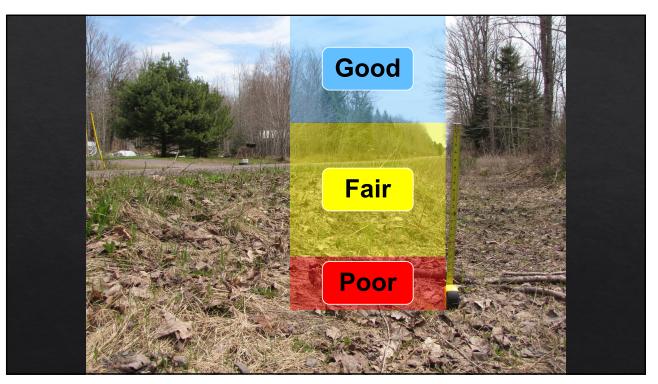


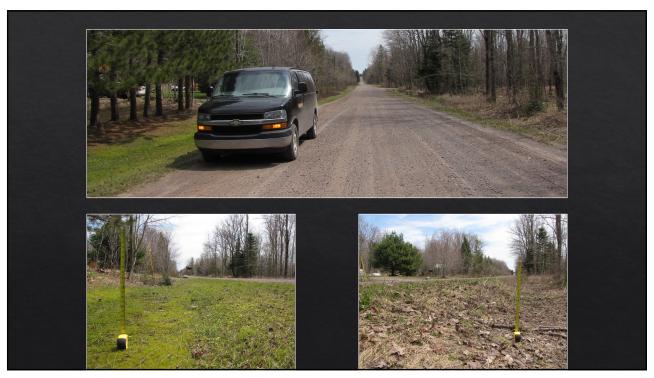


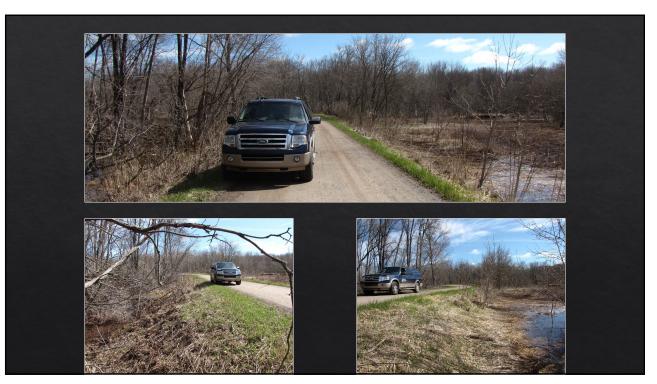


























## Reminders

Collect when vegetation is low
Update IBR number after construction projects
Rate 50% of Fed Aid network
No certification exam for IBR



