

Maintenance Quality Assurance Program

Road School
2003

Study Advisory Committee

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Activities

- Prioritize Activities
- Level of Service Rating
- QA Analysis
- Field Management Program
- Program Resources
- Training and Implementation

Survey Responses

- BMV – 550; Rest Stop – 40
- Categories:
 1. Repair Potholes
 2. Remove Debris
 3. Keep Roadside Signs Legible
 4. Keep Pavement Markings Visible
 5. Control Roadside Vegetation
 6. Keep Rest Areas Clean
 7. Remove Snow and Ice
 8. Maintain Bridges and Guardrails
 9. Keep Riding Surface Smooth

Survey Rankings

1. Repair Potholes
 2. Keep Riding Surface Smooth
 3. Remove Snow and Ice
 4. Keep Pavement Markings Visible
 5. Keep Roadside Signs Legible
 6. Maintain Bridges and Guardrails
 7. Remove Debris
 8. Keep Rest Areas Clean
 9. Control Roadside Vegetation
- Negligible differences between North and South

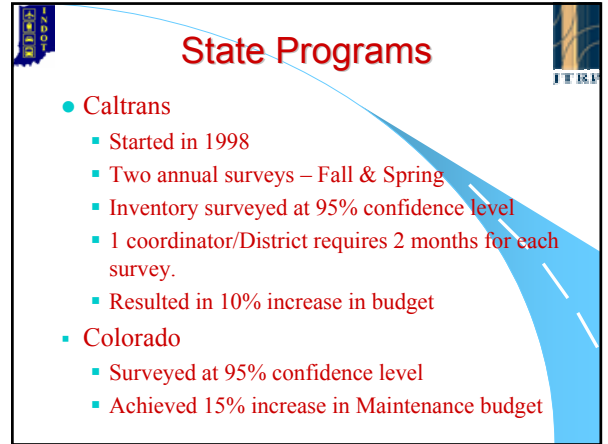
Level of Service Rating

- Established Condition Standards Criteria
- Developed Weighting Factors
- Selected random segments to inspect- based on a 90% confidence level.
- Develop process to collect, analyze, and report LOS data.



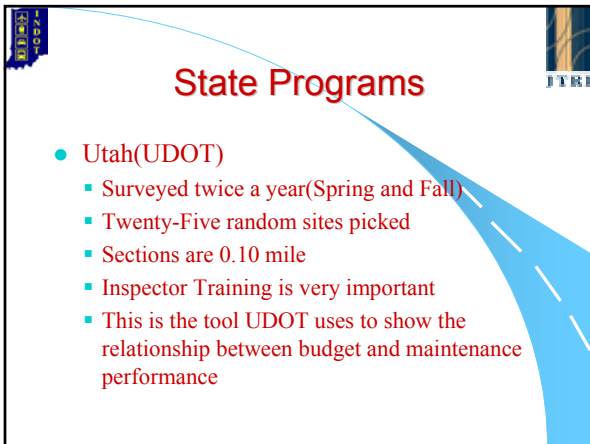
Field Inspection Form and Inspection Examples

- Minimize Traffic Control
- Maximize Roadside Observations
- Flexible Pavement Form
- Rigid Pavement Form
- Inspection Examples



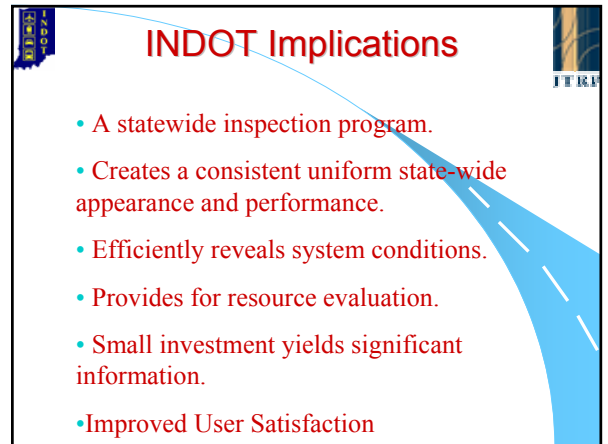
State Programs

- Caltrans
 - Started in 1998
 - Two annual surveys – Fall & Spring
 - Inventory surveyed at 95% confidence level
 - 1 coordinator/District requires 2 months for each survey.
 - Resulted in 10% increase in budget
- Colorado
 - Surveyed at 95% confidence level
 - Achieved 15% increase in Maintenance budget



State Programs

- Utah(UDOT)
 - Surveyed twice a year(Spring and Fall)
 - Twenty-Five random sites picked
 - Sections are 0.10 mile
 - Inspector Training is very important
 - This is the tool UDOT uses to show the relationship between budget and maintenance performance



INDOT Implications

- A statewide inspection program.
- Creates a consistent uniform state-wide appearance and performance.
- Efficiently reveals system conditions.
- Provides for resource evaluation.
- Small investment yields significant information.
- Improved User Satisfaction



Current Activities

- All Districts and Toll Road .
- Returns are Incomplete
- Purdue - Data Analysis
- Stay tuned to the Maintenance Conference