

Status of 2015-16 County and Township Road and Bridge Investment Needs Study

Transportation Committee
State Capitol – Rough Rider Room
November 12, 2015

Denver Tolliver - Director
Upper Great Plains Transportation Institute

Today's Presentation

- Status of County and Township Road and Bridge Investment Needs Study
- Status of Local Roads Asset Management Initiative
 - Overlaps with Needs Study
 - Advanced by 2015 Legislature
 - Geographic Roadway Inventory Tool
 - Name created by county user group

Local Roads Infrastructure Needs Study History

2007: NDDOT

2009: NDDOT Level of Service Study

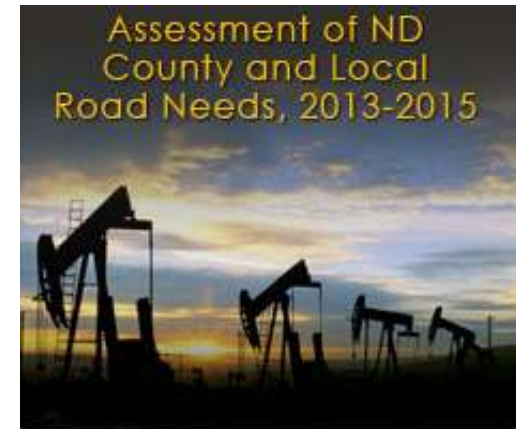
2010: ND Assoc. of Oil and Gas Producing Counties/ND Dept. of Commerce

2010: ND Agricultural Impact Study

2011-13: North Dakota Legislature

2013-15: North Dakota Legislature

2015-17: North Dakota Legislature



Primary Steps of 2015-17 Study

1. **Data collection**
2. **Data analysis**
3. **Cost forecasting & report generation**

Primary Steps – Data Collection (Cont.)

Traffic counting/truck classification

- 1600 +/- classification counts completed on county major collectors
 - Completed August 2015



Pavement video image, pavement distress and ride data

- 5000 miles of pavement video and distress data completed by NDDOT and UGPTI
 - Completed August 2015



Primary Steps - Data Collection (Cont.)

- **Pavement/subgrade strength and depth surveys**
 - **Falling weight deflectometer and ground penetrating radar**
 - **Sampling on all county paved segments > 2 miles in length**
 - **Completed Oct. 28, 2015**



Primary Steps - Data Collection (Cont.)

- **National Bridge Inventory System data (NBIS)**
 - Data to be imported from NBIS in late November
- **Roadway jurisdictional data – who manages the roads**
 - Will be processed in spring through Local Roads Asset Inventory System

Primary Steps - Data Collection (Cont.)

- **Unpaved (gravel roads survey)**
 - Survey released to counties August 14, 2015
 - Survey released to townships Sept. 1, 2015
 - Supplemental letter to county comms/auditors
 - Instructional webinar hosted and recorded
 - Sept. 23, 2015
 - Status as of Nov. 1, 2015
 - 39 counties submitted
 - 300+ townships submitted



Primary Steps – Data Analysis

Traffic analysis and modeling

- Underway
- Projected completion – March 2016

Pavement analysis and modeling

- Data processing completion – Sept. 30, 2015
- Pavement analysis completion – April 2016

Pavement/subgrade strength and depth data

- Data analysis completion – Dec. 31, 2015

Primary Steps – Data Analysis (Cont.)

National Bridge Inventory & Analysis

- **Data analysis completion – April 2016**

Roadway jurisdictional data – who manages the roads

- **Review by counties and LTAP**
 - **Data available for review – March 1, 2016**
 - **Projected review completion by May 15, 2016**

Primary Steps - Cost Forecasting & Report Generation

Draft report – Projected completion: June 15 2016

**Solicitation of comments – Projected completion:
Sept. 1, 2016**

NDLTAP will coordinate outreach

Final Report – Projected Completion: Oct. 1, 2016

Questions about Infrastructure Needs Study?

Local Roads Asset Inventory Toolkit

- 2015 Legislature Appropriated Funds for an Asset Management Initiative.
 - Intended to focus on providing tools for local governments to preserve and maintain roads and bridges.



Local Roads Asset Inventory Toolkit

- Initial Steps:
 - Establish advisory group of county representatives.
 - 10 counties identified
 - Partner with NDAoC
 - Focus on building data inventory important to county road managers
 - Build so it links to on-line mapping built for past study

Local Roads Asset Inventory Toolkit

- Initial items to develop:
 - Web/map-based input system
 - Paved roadways data set
 - Gravel roads data set
 - Bridges
 - Explore adding minor structures (less than 20 ft.)
 - Other critical infrastructure items
 - **Some items are essential to County-Township Needs Study**

Steering Team

- Sharon Lipsh - Walsh
- Dana Larsen - Ward
- Ken Miller - Mercer
- Shirley Murray – Sheridan County
- Todd Miller - Stark
- Tom Soucy - Cass
- Jana Heberlie – Mountrail
- Kevin Fieldsend - Ramsey
- Dan Schriock - Burleigh
- Tyler Michel - Stutsman

Local Roads Asset Inventory Toolkit

- Progress
 - August 12
 - Held 10-county-NDAoC kickoff webinar
- Site visits with all 10 steering committee counties
 - Provided initial training and user input
- Updated program with input from steering committee counties
- Final program rollout to all counties planned for Dec. 1, 2015