Traffic Volume on Non-Federal Aid Roads

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Fixing America's Surface Transportation Act (FAST Act)

State Safety Data Systems

1. State safety data capabilities required to satisfy the HSIP requirements all public roads
2. The safety data collection, integration, improvement, and analysis activities eligible for HSIP funding
State Safety Data System

- All Public Roads
- Common Base Map
- Crash Data System
- Roadway Data System
- Traffic Data System
- MIRE FDE
- Analysis and Evaluation
- Highway Safety Improvement Program
Three Tables

• Non Local Paved Roads
  – AADT
  – AADT Date of collection

• Local Paved Roads
  – AADT

• Unpaved Roads
Project

• Research
• Case Studies
• Peer Exchange
• Guide
  – Pilots
• Technical Assistance
Research – Proposed Scope of Guide

Data Collection and AADT Estimation Methods

A) Traffic Count Based
   “Traditional” Approach and Sampling
   Non-Traditional Methods

B) Non-Traffic Count Based
   Disaggregated Estimates at the Segment Level
   Aggregated Estimates (e.g., County Level)

C) Travel Demand Models
Case Studies

• Delaware Valley RPC
• Southeast Michigan COG
• Virginia State DOT
• New York State DOT
Delaware Valley RPC

- Promotes sharing with other agencies
- Developed interactive mapping application
- Open access to traffic counts
- Minimized duplicate data collection efforts
- Quick and easy access to data
Southeast Michigan COG

• Maintains a centralized database
• Receives traffic counts from Local Agencies
• Conducts validity checks
• Reduced labor costs
• GIS algorithm for computing missing counts
New York State DOT

• Provides counters to Local Agencies
• Equipment and training exchanged for counts
• Reducing duplicate counts
• Additional data and analysis for Local Agencies
• Ten percent of local roads are counted
• Random sampling in selection of count segments
Virginia State DOT

• Trip generation method
• Reduce data collection costs
• Region and district staff use aerials
• Submit estimates to central office
• Continue to promote and improve process
Peer Exchange New Mexico

**Preparation**

1. Lay the Foundation
2. Conduct Gap Analysis
3. Establish Data Governance Process
4. Develop Data Collection and Integration Plan

**Implementation**

5. Identify Training Needs for Data Collection, Integration, and Analysis
6. Perform Data Integration
7. Develop and Deploy the Extract, Transform & Load Process
8. Conduct Analyses
9. Perform Effectiveness Evaluation
Next Steps

• Guide
  – Pilots

• Technical Assistance
Contacts

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