Developing Elmore County’s Local Road Safety Plan

presented by
2019 Alabama Transportation Conference

presented by
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Elmore County, AL

Population
- 2010 Census - 78,303
- 2016 Est. - 81,799

8 Municipalities
- Prattville
- Millbrook
- Deatsville
- Elmore
- Coosada
- Eclectic
- Tallassee

3 Rivers & 2 Lakes
- Coosa
- Tallapoosa
- Alabama
- Lake Martin
- Lake Jordan

Elmore County Highway Department

- 1,000 Miles of Roadway
  - 800 Miles of Paved Road
  - 200 Miles of Dirt Road

- 123 Bridges
  - 11 Posted Bridges

Safety Achievements

- Widening Travel Lanes
  - Eliminate shoulder drop-offs

- Roundabout installation
  - Intersection improvements at a location with a history of severe injury and fatal crashes

- Digital Speed Signs-
  - Instant speed feedback
  - Traffic data collection
Safety Achievements

- Centerline Rumble Strips
  - Reduce head-on collisions

Elmore County Safety History

Why Develop a LRSP?

- Create a useful and strategic plan to address roadway safety
- Implement a more in-depth and comprehensive analysis of available data
- Show the need for additional resources
- Provide another tool to ensure the safety of the traveling public

What Will the Plan Accomplish?

- Prioritize segments and intersections that would benefit from safety improvements
- Identify specific transportation safety goals and objectives
- Identify performance measures
- Provide a plan for road safety assessments, road safety reviews, or field investigations at specific sites
- Create a publication that can used by other entities

LRSP Development Process

Data

- Crash Data - AL CARE Crash Data (2012-2016)
- Volume Data – ALDOT system segmentation map and Elmore County data
- Roadway Characteristic Data – Elmore County data
**Network Screening Process**

1. Segment the Roadway Network
2. Associate Crash and Roadway Data with the Roadway Segments
3. Apply Performance Metrics
4. Identify Segments for Potential Safety Improvements

**Performance Metrics**

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<tr>
<th>EPDO Crash Rate</th>
<th>Crash Frequency</th>
<th>No Alcohol Involved Crash Rate</th>
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Elmore County Crashes – State & County Roadways

Elmore County Crashes – County Roadways

Segments for Potential Safety Improvements

LRSP Development Process
Emphasis Areas

- Infrastructure & Operations
  - Roadway Departure
  - Intersections

- Education, Awareness & Coordination
  - Impaired Driving
  - Young Drivers
  - Distracted Driving
  - Coordination with EMS, Enforcement, and Education partners

Develop Crash Typology and Trends

Impaired Driving

- 529 Total Crashes
- 24 Total Fatal Crashes
- 45 Total Serious Injury Crashes

Impaired Driving – Crash Severity

Percent of Fatal Crashes due to Impaired Driving

- 31%

Percent of Serious Injury Crashes due to Impaired Driving

- 16%
**Speeding**

- 373 Total Crashes
- 18 Total Fatal Crashes
- 28 Total Serious Injury Crashes

**Speeding – Crash Severity**

- Percent of Fatal Crashes due to Speeding: 23%
- Percent of Serious Injury Crashes due to Speeding: 10%

**All Emphasis Areas**

- Total Crashes: 877, 77, 76, 81, 52, 0, 10
- Percent of Crashes Resulting in a Fatality or Injury: 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%
LSRP Guidance Documents

- Use the Alabama specific experience in Elmore County to develop guidance on LSRPs
- Intended for local, county, and regional road owners/stakeholders
- Available early 2019!