



## NORTHEAST ARKANSAS REGIONAL TRANSPORTATION PLANNING COMMISSION

### Performance Measures: **System Reliability (Travel & Truck Time)**

#### Why We Measure

The Northeast Arkansas Regional Transportation Planning Commission (N.A.R.T.P.C.) is the designated metropolitan planning organization (MPO) for the cities of Bay, Bono, Brookland, Jonesboro, and some unincorporated portions of Craighead County. To help advance local safety efforts, the N.A.R.T.P.C. has collected available system performance data for the MPO region from the Arkansas Department of Transportation (ARDOT) to assess current travel time on roads within area for the identification of potential improvements regarding delays due to congestion, construction, or growth in population and/or traffic.

#### What We Measure

The Northeast Arkansas Regional Transportation Planning Commission (N.A.R.T.P.C.) is in support of the targets set by the Federal Highway Administration (FHWA) for the Arkansas Department of Transportation (ARDOT) to assess the performance of the Interstate and non-Interstate National Highway System (NHS) for the purpose of carrying out the National Highway Performance Program (NHPP); to assess freight movement on the Interstate System; and to assess traffic congestion and on-road mobile source emissions for the purpose of carrying out the Congestion Mitigation and Air Quality Improvement (CMAQ) Program.<sup>1</sup>

#### How We Measure

System Reliability is separated according to **Travel Time** and **Freight (Truck) Travel Time**, and is calculated using the following methodology:

- **Travel Time**- change in normal travel time to destinations on the worst day/time of the week during peak hours
- **Freight (Truck) Travel Time**- change in normal travel time to destinations on the worst day/time of

#### Systems Performance Measures

Systems Performance encompasses the following areas:

- **National Highway System**- Percent of personmiles traveled on the Interstate system that are reliable
- **National Highway System**- Percent of personmiles traveled on the non-Interstate system that are reliable
- **Freight**- Truck Travel Time Reliability Index (TTTR)
- **Traffic Congestion**- Peak Hour Excessive Delay (PHED) Measure
- **Traffic Congestion**- Percent of Non-Single Occupancy Vehicle Travel (SOV) Measure
- **Environmental Impact**- Total Emissions Reduction

#### How We Improve

- Identify and prioritize critical corridors routinely impacted by delays
- Analyze specific times/causes for congestion to develop improvement projects

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<sup>1</sup> Federal Highway Administration:  
<https://www.federalregister.gov/documents/2017/01/18/2017-00681/national-performance-management-measures-assessing-performance-of-the-national-highway-system>



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Performance Measures:  
**Systems Performance**

**Performance Targets-State of Arkansas**

The following chart reflects the 2019 system reliability performance targets set by the Arkansas Department of Transportation (ARDOT) for the state.

*\*Please note that the targets were established based on current statewide highway funding limitations, and may be adjusted in subsequent years should additional funding become available.*

| Travel Time Reliability Performance Measures                    | 2-Year Performance Targets | 4-Year Performance Targets |
|---|----------------------------|----------------------------|
| % of Person-Miles travelled on Interstate that are reliable     | 91%                        | 89%                        |
| % of Person Miles travelled on non-Interstate that are reliable | N/A                        | 90%                        |
| Freight (Truck) Travel Time Reliability Performance Measures    | 2-Year Performance Targets | 4-Year Performance Targets |
| Truck Travel Time Reliability on the Interstate System          | 1.45                       | 1.52                       |

In 2018, the MPO agreed to begin development of an action plan for the region to identify potential solutions to excessive delays in normal travel time. In the meantime, the following table provides a brief analysis of the current interstate travel time within Craighead County provided by ARDOT.

| <b>Craighead County Travel Time Reliability: Interstate</b> |            |
|---|------------|
| Reliable  | Unreliable |
| 93%   | 7%         |

**Quick Facts**

- Major local/regional events such as **concerts, football games, and festivals** can greatly impact travel time
- According to recent data provided by ARDOT, Craighead County may see an **increase of 3 to 4%** in normal freight travel time on the worst day in the month during peak hours
- **Red Wolf/Stadium Blvd.** (near E. Highland Dr. and Aggie Rd.) has been identified as a critical area for potential delays/congestion during normal travel time during peak hours

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