

MAP-21

Performance Measures

Pavement Condition



Photo courtesy of Penn. Asphalt Pavement Assoc.

Moving Ahead for Progress in the 21st Century

Effective in 2012, MAP-21 is the bill that outlines federal funding and policy for the U.S. surface transportation system.

A key feature of MAP-21 is the establishment of a performance- and outcome-based program. The objective of this program is to allow States to invest resources in highway projects that will collectively help impact the achievement of the designated national performance goals.

The states are required to invest resources to progress the following national goals:

- **Safety,**
- **Infrastructure Condition,**
- **Congestion Reduction,**
- **System Reliability,**
- **Freight Movement and Economic Vitality,**
- **Environmental Sustainability,**
- **Reduced Project Delivery Delays.**

Quick Fact! Craighead County encompasses around **1,300 miles** of road (both paved and gravel).³

Who We Are

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. The purpose of the N.A.R.T.P.C. is to prepare consensus-driven, fiscally-constrained plans for the development of a safe, efficient and affordable regional transportation system.

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 evaluate, maintain and enhance the condition of asphalt and concrete pavement on both Interstate and Non-Interstate roads within the National Highway System (NHS). **Road conditions are judged according to cracking, rutting (road depression), faulting (road elevation due to chipping), and roughness.**

How We Measure

Pavement condition is measured according to Level of Services (LOS), which is the evaluation of traffic conditions in terms of speed, travel time, freedom to maneuver, comfort, convenience, traffic interruptions, and safety.¹ It is rated according to the following terms²:

- **Good** - Based on % of mileage where all scores for international roughness index (IRI), cracking, rutting, and/or faulting (as applicable) are within thresholds established in FHWA Rulemaking
- **Poor** - Based on % of mileage where two or more scores for international roughness index (IRI), cracking, rutting, and/or faulting (as applicable) exceed thresholds established in FHWA rulemaking

How We Improve

- Identify priority locations within the region with high volume freight vehicle traffic
- Plan and program preservation projects in good to fair areas
- Identify potential alternate routes for high volume areas

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Performance Targets-State of Arkansas

The following chart reflects the current pavement performance targets set by the Arkansas Department of Transportation (ARDOT) for the state in 2019. These standards have been adopted by the N.A.R.T.P.C.

**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.*

Pavement Performance Measures	2 Year Performance Targets: Arkansas	4 Year Performance Targets: Arkansas
% of Interstate Pavement in Good Condition	N/A	79%
% of Interstate Pavement in Poor Condition	N/A	5%
% of non-Interstate Pavement in Good Condition	48%	44%
% of non-Interstate Pavement in Poor Condition	10%	12%

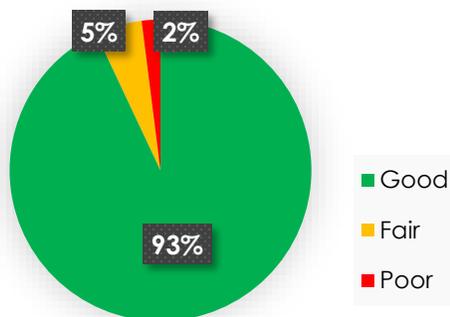
Quick Fact! There are over **16,400 miles⁴** of centerline roads in the Arkansas Highway System, and the condition rating for the state highway roads is **46/100⁵**.



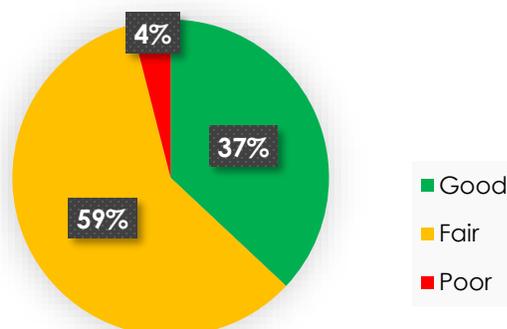
Photo courtesy of freedesignfile.com

Quick Fact! There are approximately **111 miles** of sidewalks in the city of Jonesboro.⁶

Craighead County Pavement Condition: Interstate Roads



Craighead County Pavement Condition: Non-Interstate Roads



**NORTHEAST ARKANSAS
REGIONAL TRANSPORTATION
PLANNING COMMISSION**

¹ Arkansas Section of the American Society of Civil Engineers: <http://www.infrastructurereportcard.org/wp-content/uploads/2016/10/2014-AR-Report-Card-FINAL-Web.pdf>

² Arkansas Department of Transportation: http://www.wemovearkansas.com/docs/TM4A_Performance-Measures.pdf

³ Craighead County Road Department: <http://www.craigheadcounty.org/road-department/>

⁴ Jones, J. *Arkansas Highways Magazine*. September/October 2017 Issue. Page 26

⁵ Arkansas Section of the American Society of Civil Engineers: <http://www.infrastructurereportcard.org/wp-content/uploads/2016/10/2014-AR-Report-Card-FINAL-Web.pdf>

⁶ Craighead County Engineering Department: <http://www.jonesboro.org/139/Engineering>