

Michigan Transportation Asset Management Council

Michigan Bridge Conference

Wayne Harrall, P.E.

March 22, 2017





❖ *Michigan – A Home Rule State*

- 83 Counties
- 533 Cities and Villages
- 1,240 Townships
- MDOT
- 14 Planning Regions
- 15 Metro Planning Agencies
- Consultants & Contractors
- 617 Agencies
 - 122,000+ miles of public roads
 - 11,000+ public bridges





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Legislature Act in 2002

All public roads in Michigan will be managed using the principles of Asset Management

— Public Act 499



- Act Creates Transportation Asset Management Council – TAMC
- Advisory to Michigan State Transportation Commission
 - Asset Management Process
 - Tools and Education
 - Statewide Asset Management Strategy
 - Federal Aid System First
- Partnership for Deployment with Metro & Regional Planning Agencies



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2017 Council



Joanna Johnson
Chair (CRA)



Bill McEntee
Vice Chair (CRA)



Derek Bradshaw
(MAR)



Don Disselkoe
(MAC)



Gary Mekjian
(MML - Nominated)

Bob Slattery
(MML)



Jon Start
(MTPA)



Jennifer Tubbs
(MTA)



Brad Wierich
(MDOT)



Dave Wresinski
(MDOT)



Rob Surber
(DTMB – CSS)



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2017 Bridge Committee

Rebecca Curtis

Chair - (MDOT, Bridge Management Unit)

Keith Cooper

Vice Chair (MDOT, Local Agency Programs,
Bridge Design)

Wayne Harrall
(CRA)

Joanna Johnson
(CRA)

Brad Wieferich
(MDOT)

Don Disselkoen
(MAC)

Al Halbeison
(OHM Advisors)



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Support & Partners



County Road Association
OF MICHIGAN



michigan municipal league



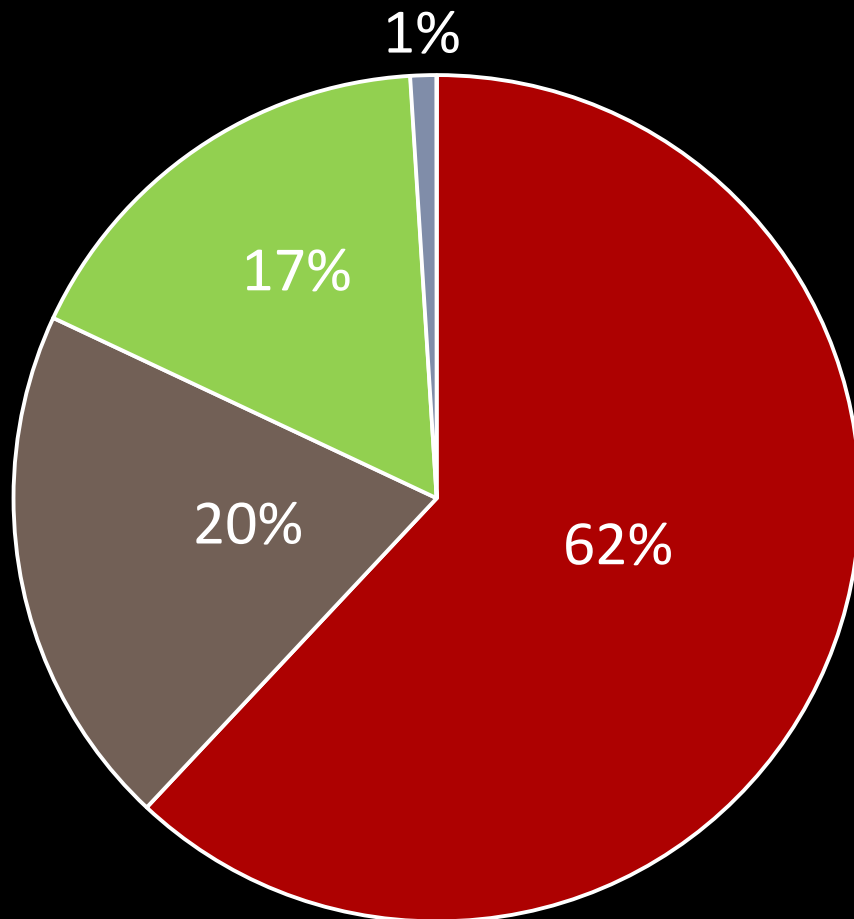
MICHIGAN TOWNSHIPS ASSOCIATION





Budget Overview

FY2017 - \$1,626,400



- Regional Program & Data Collection - \$996,854
- Central Data Agency & Technology - \$322,635 (+\$131,040 grant)
- Training & Educational Activities - \$280,000
- Council Expenses - \$20,540



❖ *“An Honest Broker of Data”*

- ✓ Publication of Michigan’s Roads & Bridges Annual Report - May 2, 2017
- ✓ Reporting Investments – Data Sharing Requirement Part of Act 51 Compliance
- ✓ Interactive Maps, Dashboards & Mobile Accessible Data
- ✓ Road Condition Data on no less than ½ Federal Aid System Annually





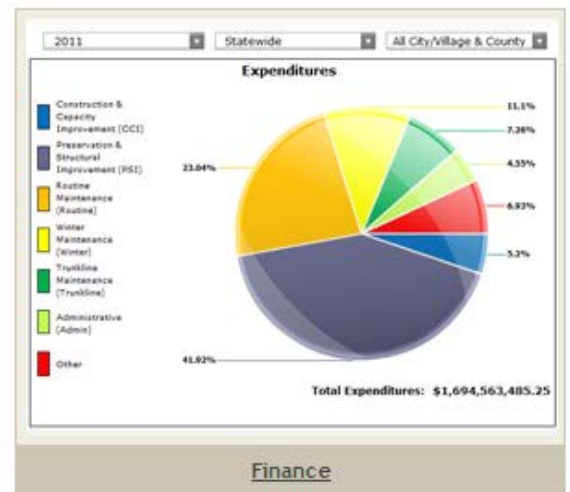
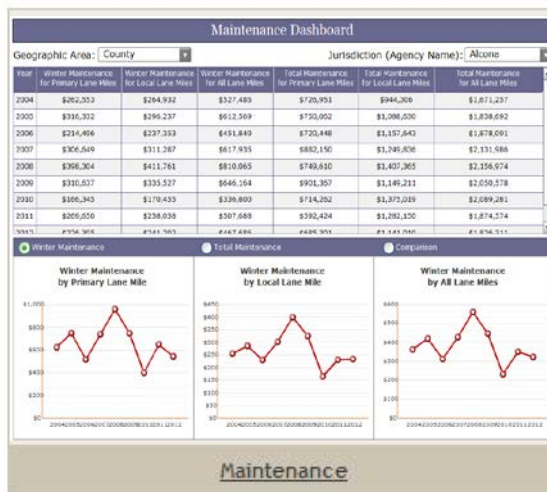
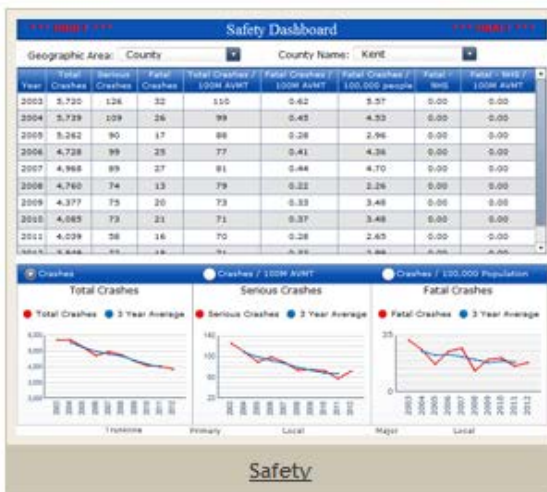
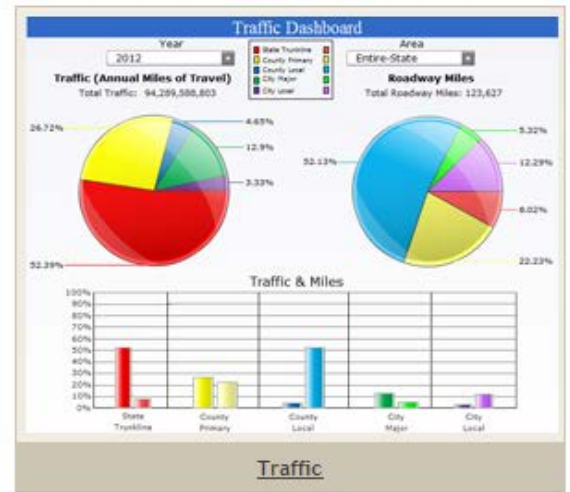
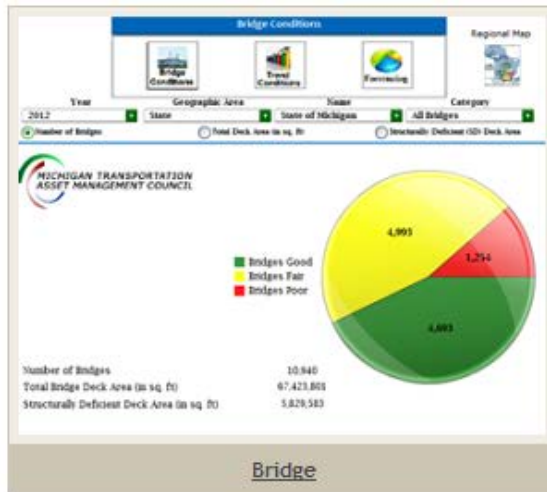
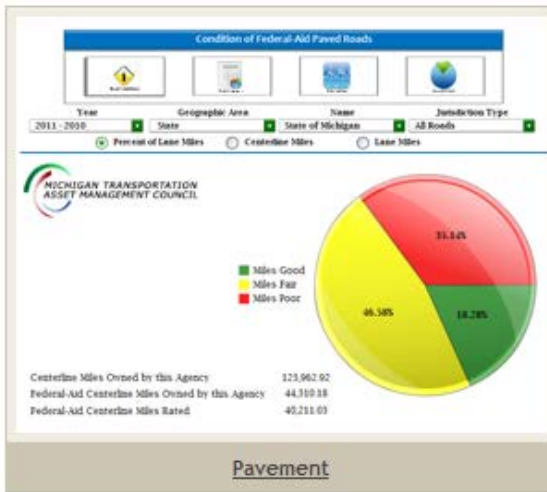
Transportation Asset Management Council

MI Transportation Reporting Portal

Michigan.gov

The Official State of Michigan Website

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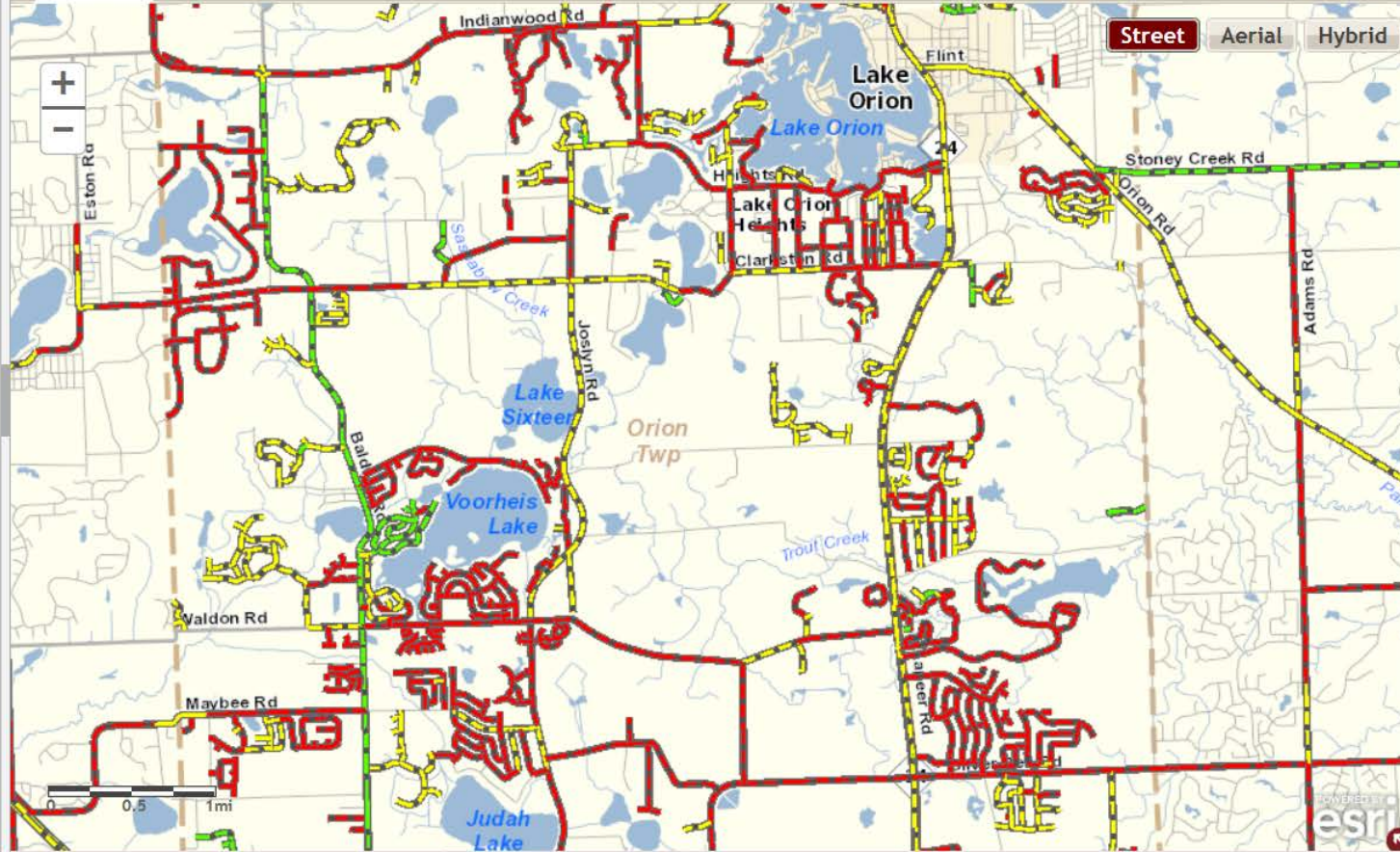
Council Investment Reporting Data Access Education and Training Communication

search address, city, zip, and more

Map Results



Street Aerial Hybrid



Legend

PASER - Road Condition

Most Current:

Poor

Fair

Good



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2014-2016 Achievements



- ✓ **Data Collection & Annual Reporting of Roads/Bridges**
- ✓ **Training Program Highlights ('14-'16):**
 - 54 on-site events
 - 2,372 Participants
 - Avg. 45 participants/event
- ✓ **Completed Study of Unpaved Roads & Publication of Inventory-based Rating**
- ✓ **Improved Coordination & Communications**
 - Website redesign + mobile apps
 - Regional Conference Calls
- ✓ **Act 51 Reports & Investment Reporting mechanisms now linked**
 - 100% compliance with counties
 - 323 cities & villages in compliance



✓ Continue Tenets of TAMC Program

- Data Collection & Reporting
- Training & Educational Programs

**\$250,000 Funding
Increase Requested**

✓ Asset Management Plans

- Develop core plan elements & templates
- Link to Investment Reporting of Asset Management

✓ Analyze Performance of Implemented Improvements using IRT Data & PASER Data

✓ Collect Data on Unpaved Federal Aid Roads

✓ Collect More Data on Non-Federal Aid Eligible Roads



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Asset Management

❖ *Determine Core Elements*

- ✓ Inventory
- ✓ Current Condition of Inventory
- ✓ Forecast Condition 3-5 Years
- ✓ Financial Resources
- ✓ Goal Setting
- ✓ Planned Projects (Capital Project List)
- ✓ Alternative Strategies
- Develop Templates for Local Agencies of All Sizes
- Training & Tech Support
- Coordination with Utilities
- Best Management Practices – Analyze Performance of Various Treatments



Asset Management Plan for
Pavement: City of Ann Arbor, MI

PREPARED FOR
MICHIGAN DEPARTMENT OF TRANSPORTATION




Revised Roadway
Asset Management Plan
City of Norton Shores
2016



4814 Henry Street
Norton Shores, MI 49441

Gary Nelund, Mayor
Mark C. Meyers, City Administrator
Gerald A. Bartoszek, Director of Public Works
Terry Sladick, Streets & Drainage Superintendent

Prepared by:
James R. Murphy, Project Engineer
Department of Public Works



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Focus on Largest Systems

❖ ***“The Top 125”***

- ✓ All 83 Counties
- ✓ 41 Cities
- ✓ MDOT
- Agencies with a minimum of 100 miles of Act 51 Certified Roads
- Comprise 92% of Michigan’s Total Road System
- Account for over 90% of Federal Aid System



Bridge Asset Management Webinars

Webinars introduce participants to the core concepts of bridge asset management and the tools available for creating a bridge asset management plan

- Part 1: Introduction, bridge condition evaluation, assessment of maintenance needs
- Part 2: Cost estimating, optimization of bridge preservation actions

Bridge Asset Management Workshops

Workshop Structure

- Provide participants tools to create a bridge asset management plan
- Gather Data prior to workshop
- Excel and Word templates utilized to organize data
- Word template used to create a draft written plan

Bridge Asset Management Webinars & Workshops

Tentative 2017 Training Dates:

Part 1	Oct. 26	Nov. 28
Part 2	Nov. 2	Nov. 30
Workshop	Nov. 8 & 9 Southern	Dec. 7 Northern

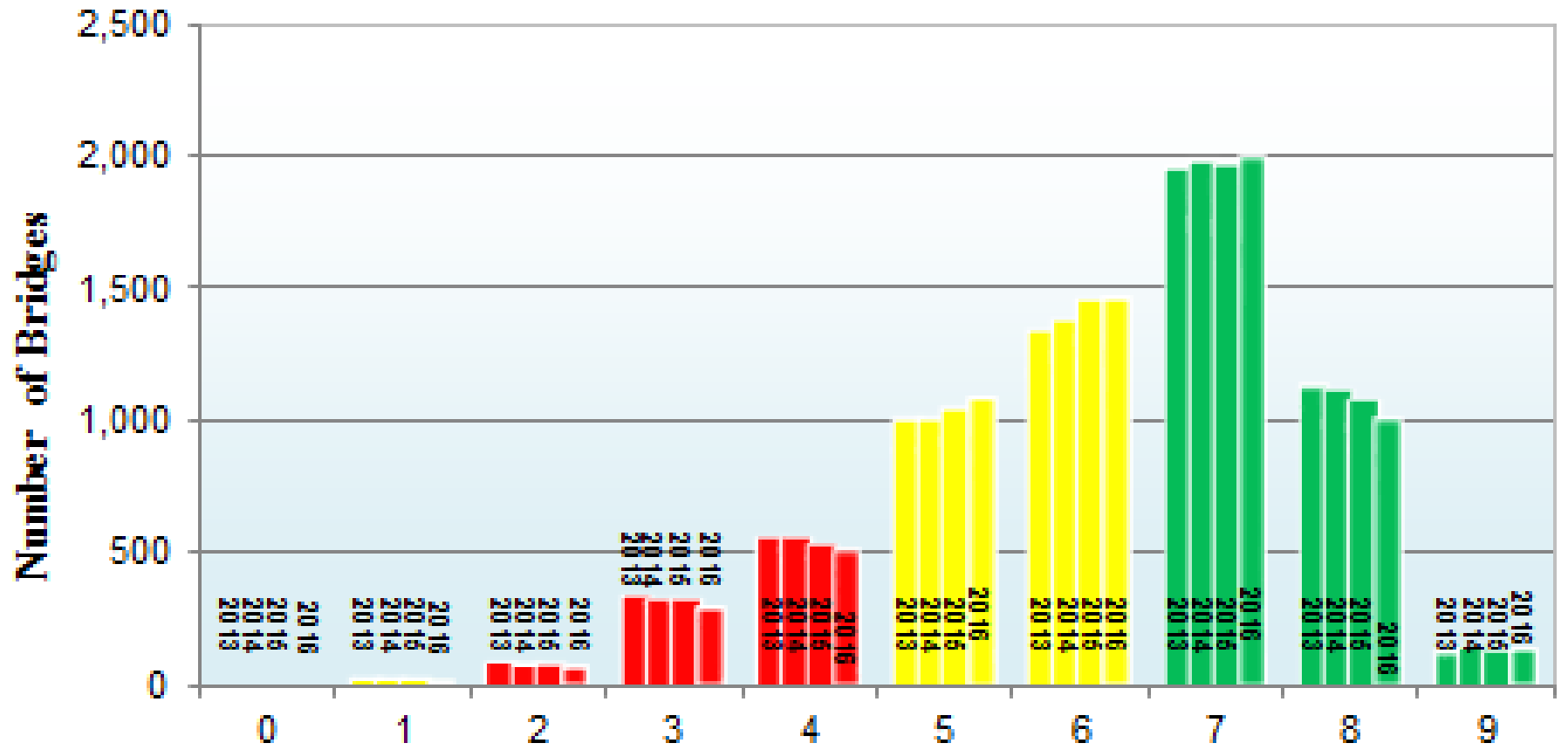


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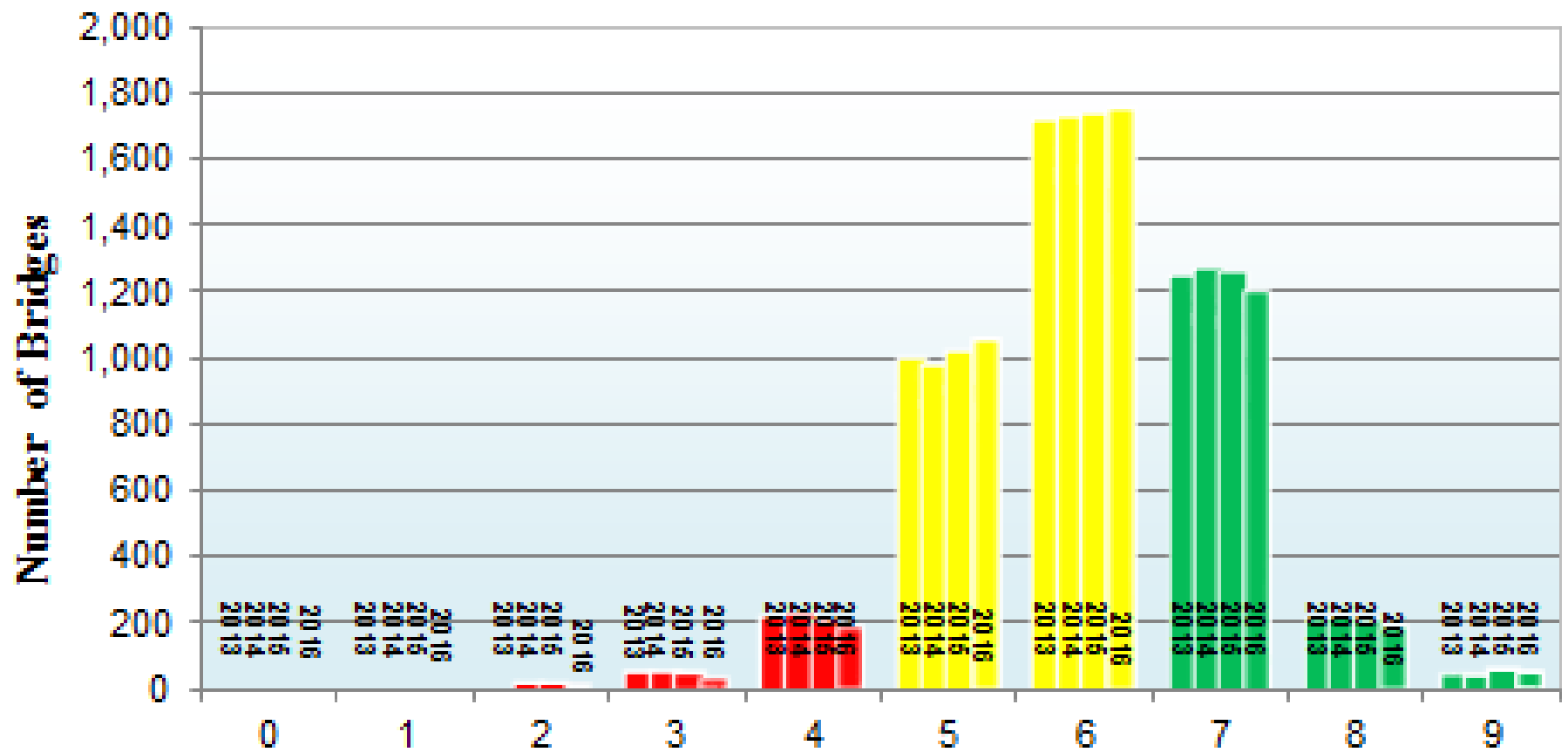


Center for
Technology & Training

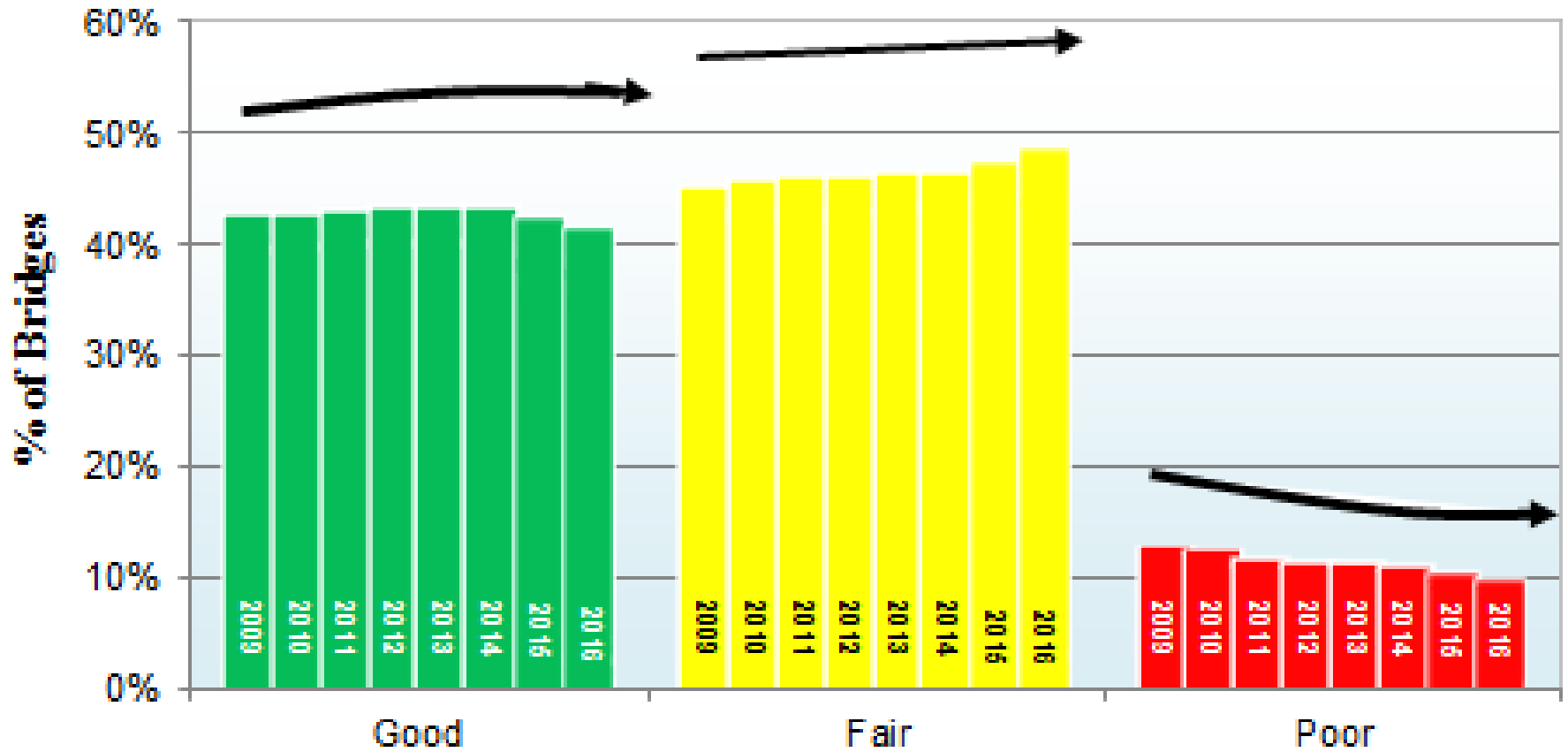
2013-2016 Local Condition Trend



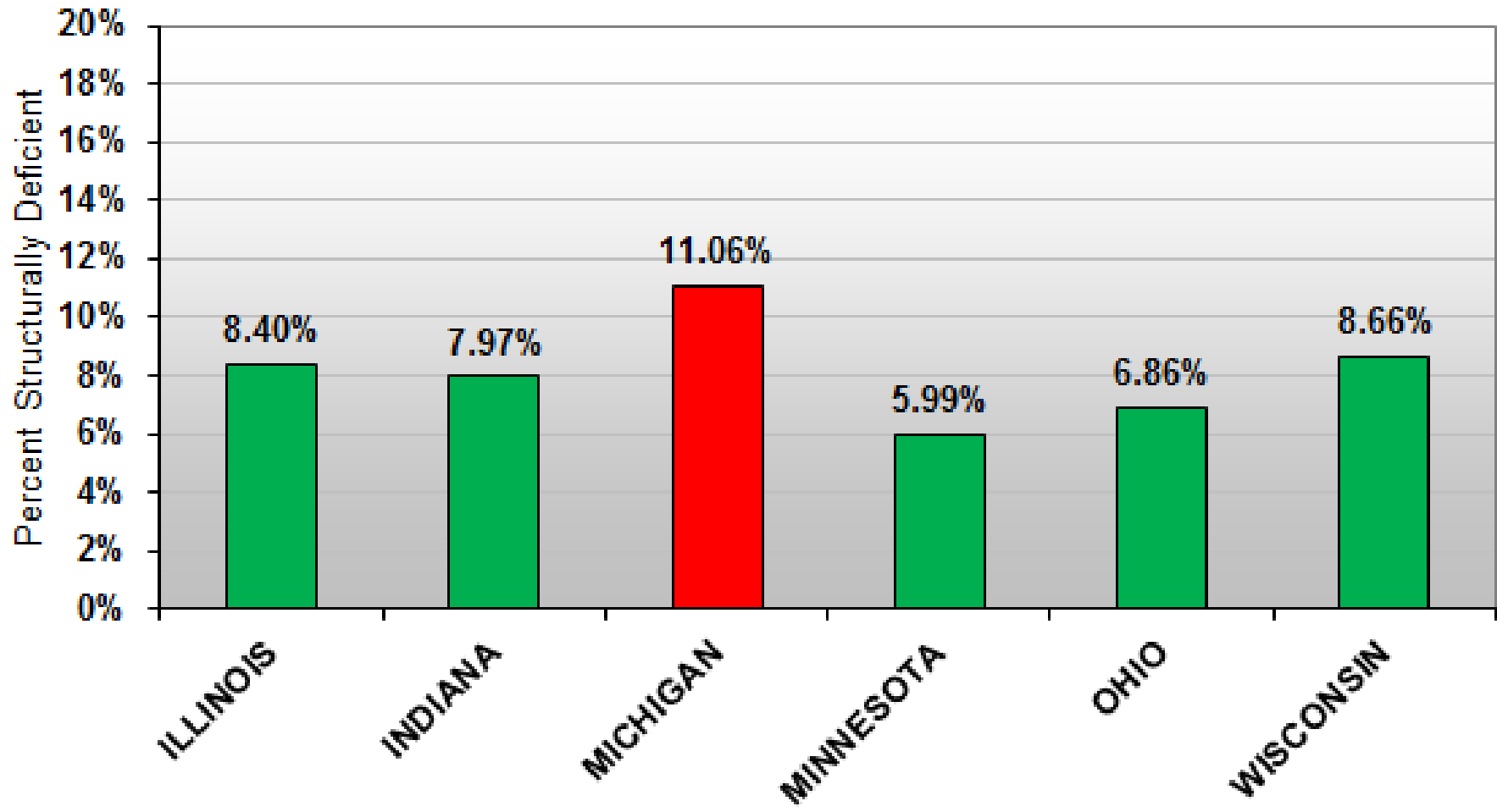
2013-2016 Trunkline Condition Trend



2009-2016 Bridge Condition All Roadway Bridges (MDOT and Local Agency)

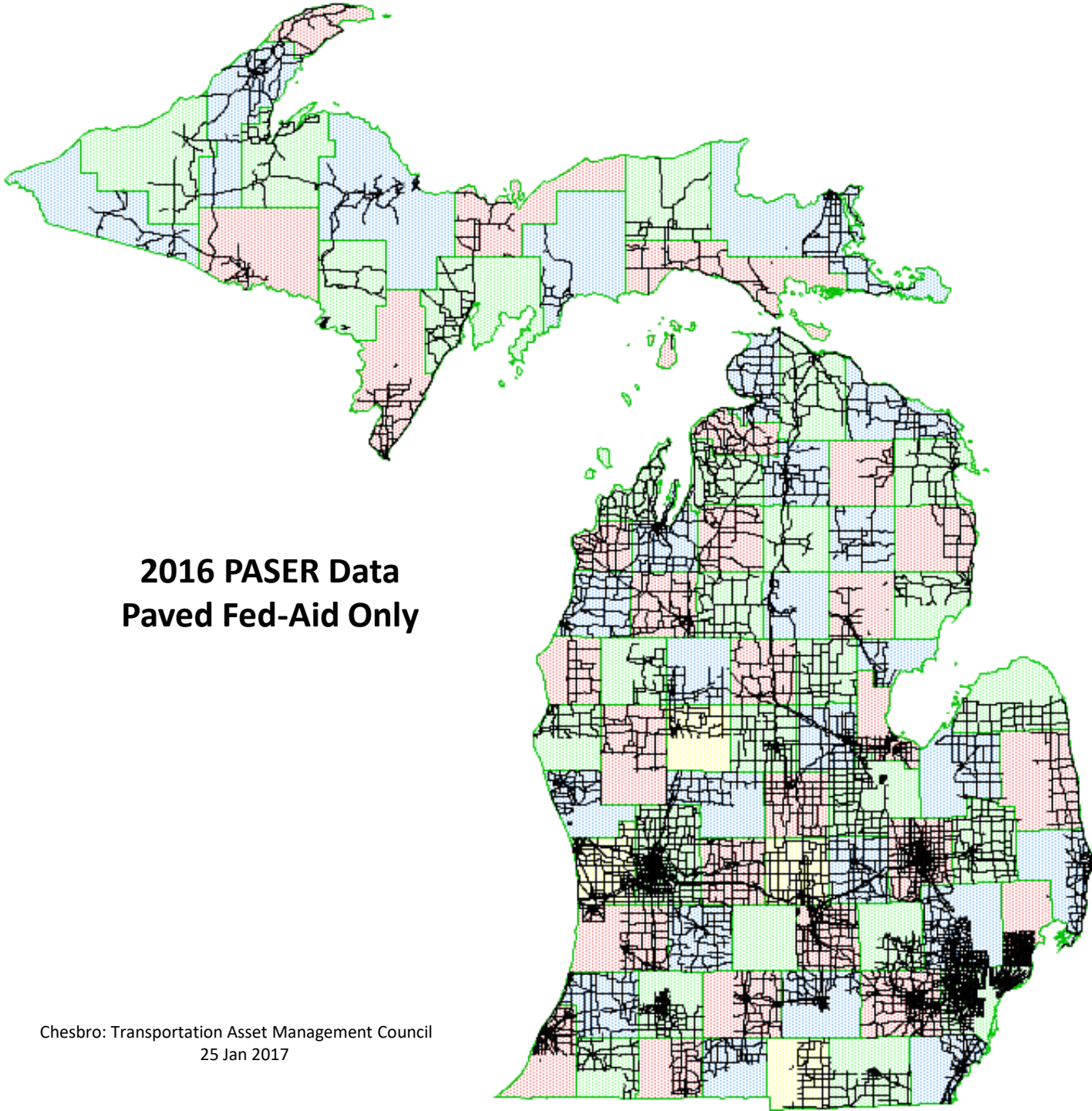


2016 Percent Structurally Deficient Bridges All Highway Bridges (Great Lake States)









**2016 PASER Data
Paved Fed-Aid Only**

All Paved Federal-Aid Roads \approx **88,000** lane miles

Federal-Aid Roads Rated in **2016** = **57,961** lane miles

66% of all Federal-Aid Roads by lane miles

118,999 Observations / Records

Rated in 2015: **61%**

Rated in 2014: **68%**

Rated in 2013: **61%**

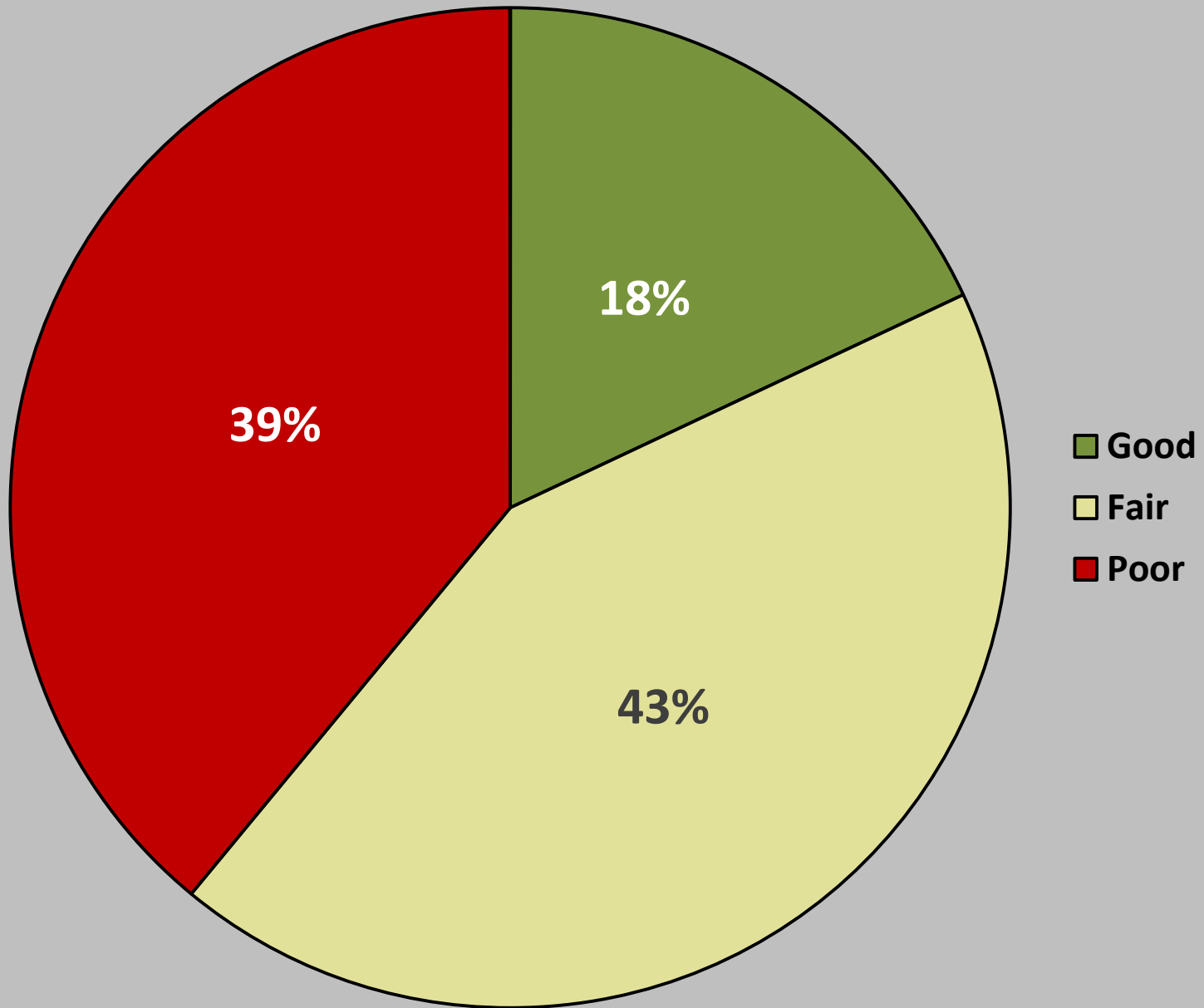
Rated in 2012: **67%**

Rated in 2011: **63%**

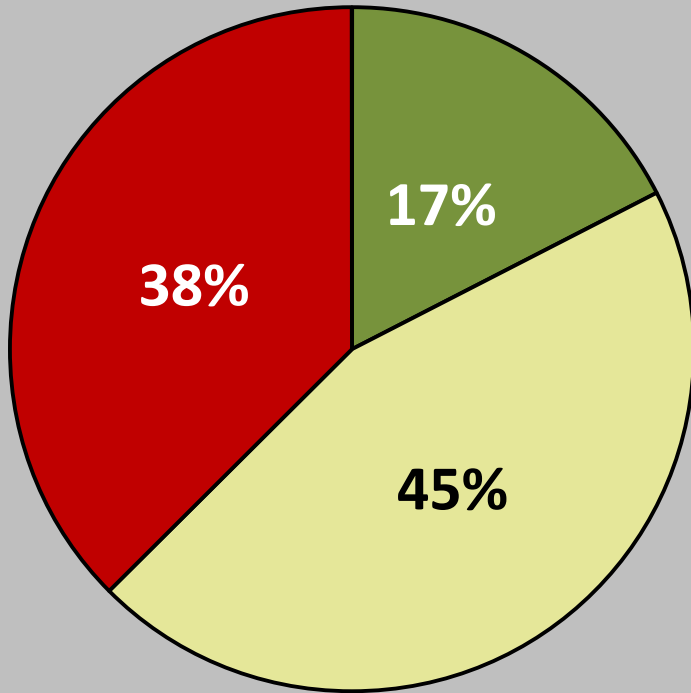
Rated in 2010: **71%**

Rated in 2009: **67%**

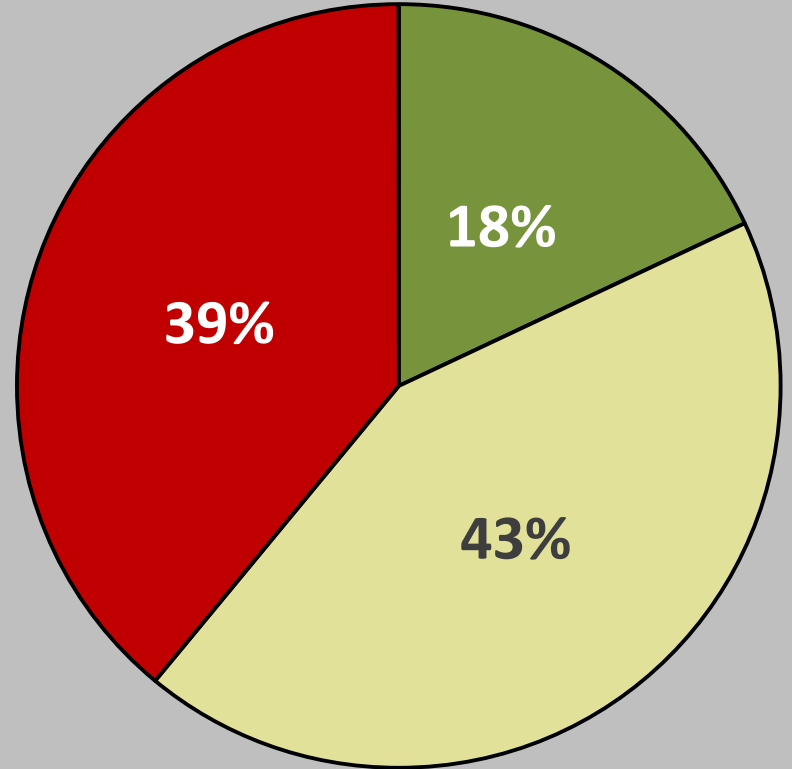
2015-2016 Paved Federal-Aid Road Condition



2014-2015

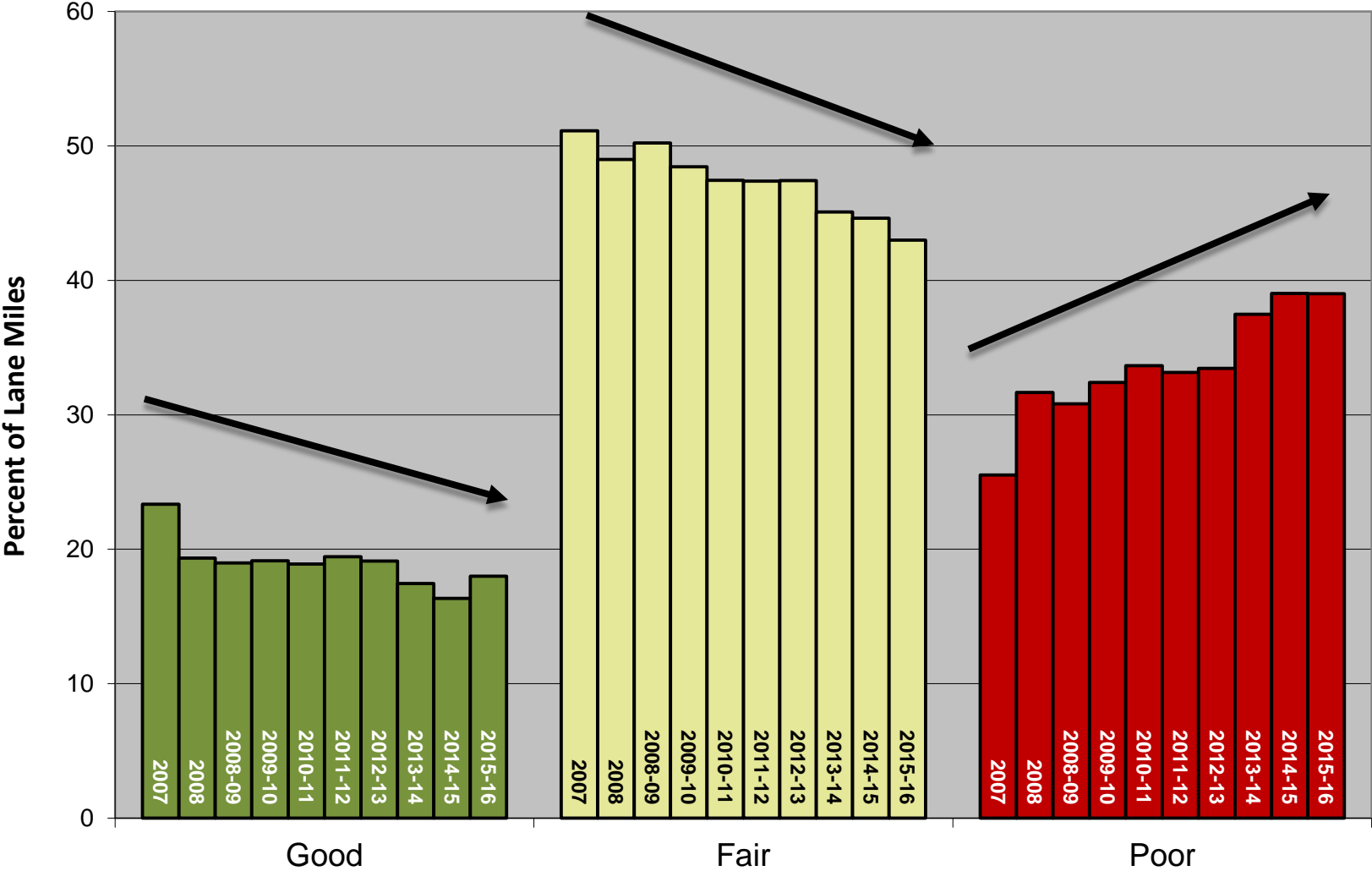


2015-2016



Paved Federal-Aid Road Condition

2007 - 2016





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Feedback? Questions?

THANK YOU!



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