

Annual Joint Meeting Kalamazoo Township August 11, 2014



www.kalamazoocountyroads.com
Your Local Road Professionals since 1909

General Information

- **Board of Road Commissioners**
 - **Chairman, Daniel J. Moyle**
 - **Vice Chairman, Kenneth R. Oscarson**
 - **Dennis J. Berkebile**
 - **Jeffrie M. Maddox**
 - **David Q. Worthams – *Kalamazoo Township Liaison***

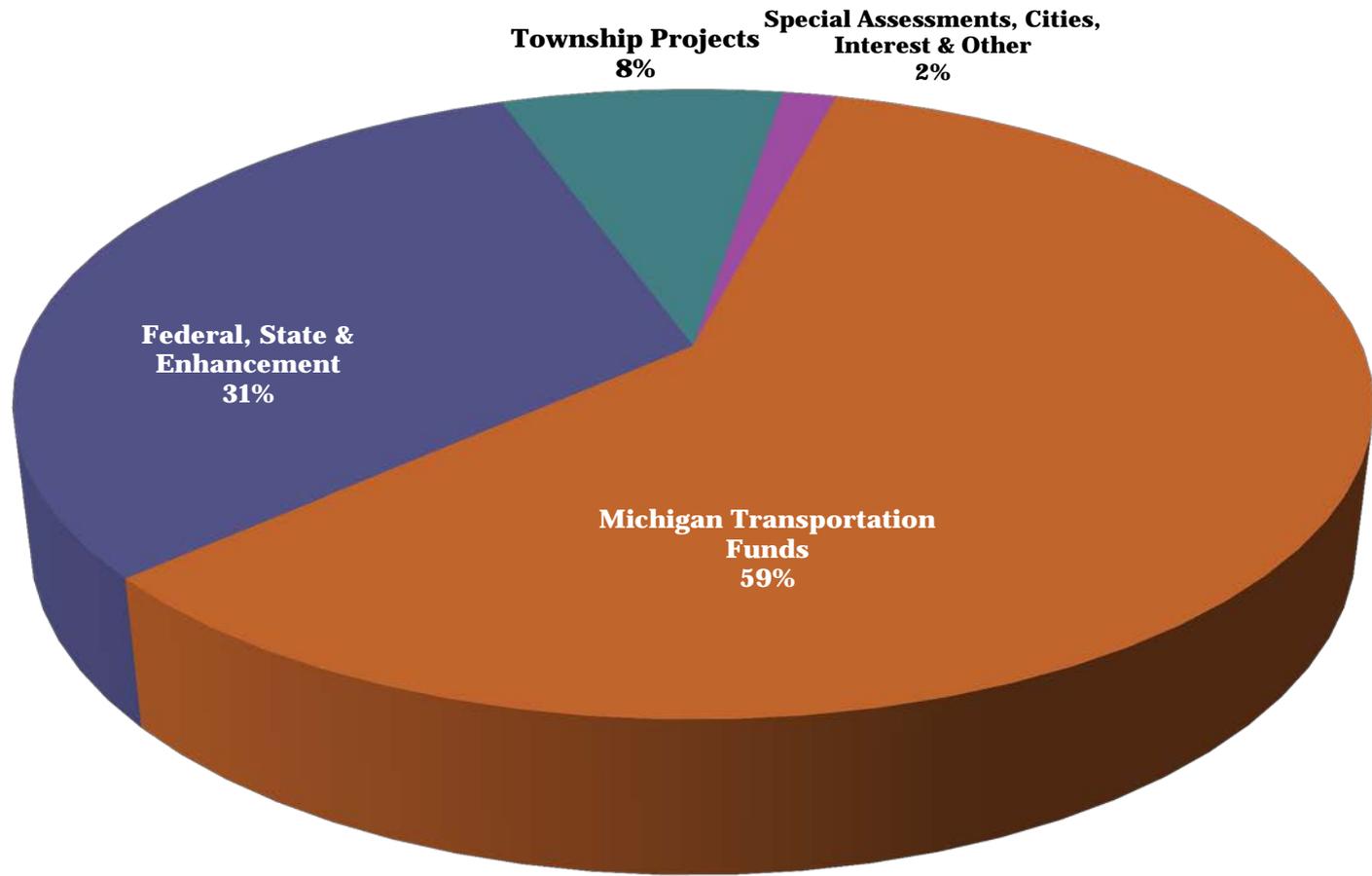


General Information

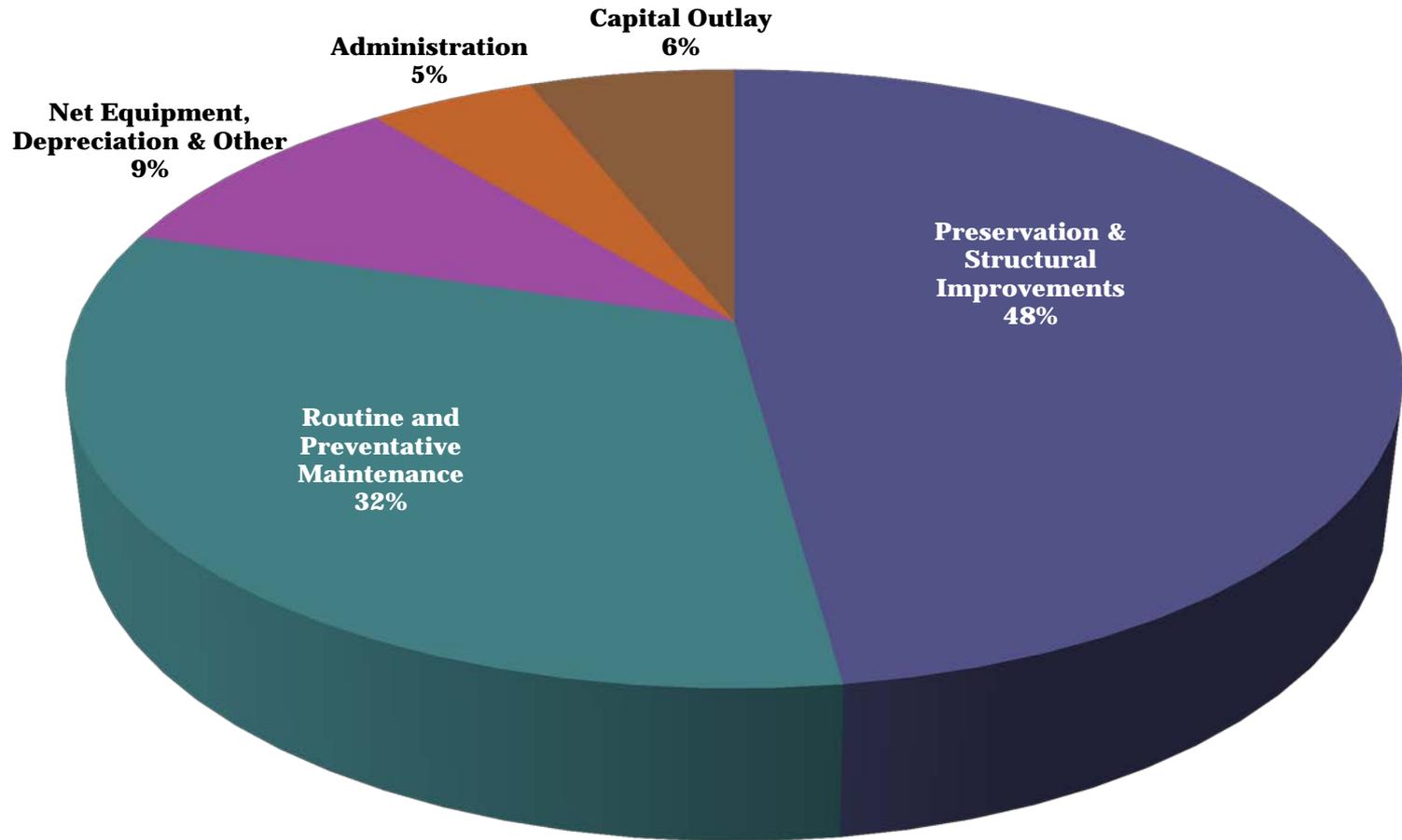
- **40 Employees – 27 Field Operations**
 - **Managing Director, Joanna I. Johnson**
 - **Operations Director, Travis Bartholomew**
 - **General Superintendent, Bill DeYoung**
 - **Project Superintendent, Mark Worden**
 - **Maintenance Superintendent, Zach Clothier**
- **1,267 Miles**
 - **449 Primary Road Miles**
 - **817 Local Road Miles**
 - **103 Local Gravel Road Miles**
- **60 Bridges**
- **20,814 Signs**
- **47 Signalized Intersections**



Revenue Budget 2014



Expenditure Budget 2014



5 Reasons Why MI Roads are Crumbling NOW ...



5. The 1960's saw a boom in U.S. road construction. Many of these roads and bridges are at the end of their life span.



4. Today's vehicles are more fuel efficient, leading to less gas tax paid.

- **1997 Honda Civic**
 - 26 City MPG
 - 33 Highway MPG
- **2013 Honda Civic Hybrid**
 - 44 City MPG
 - 44 Highway MPG



3. Since 2004, the recession and spike in fuel prices have caused motorists to drive less, paying less gas tax.



2. The last gas tax in 1997 was not adjusted to inflation. That 4¢ now has the purchasing power of 2¢

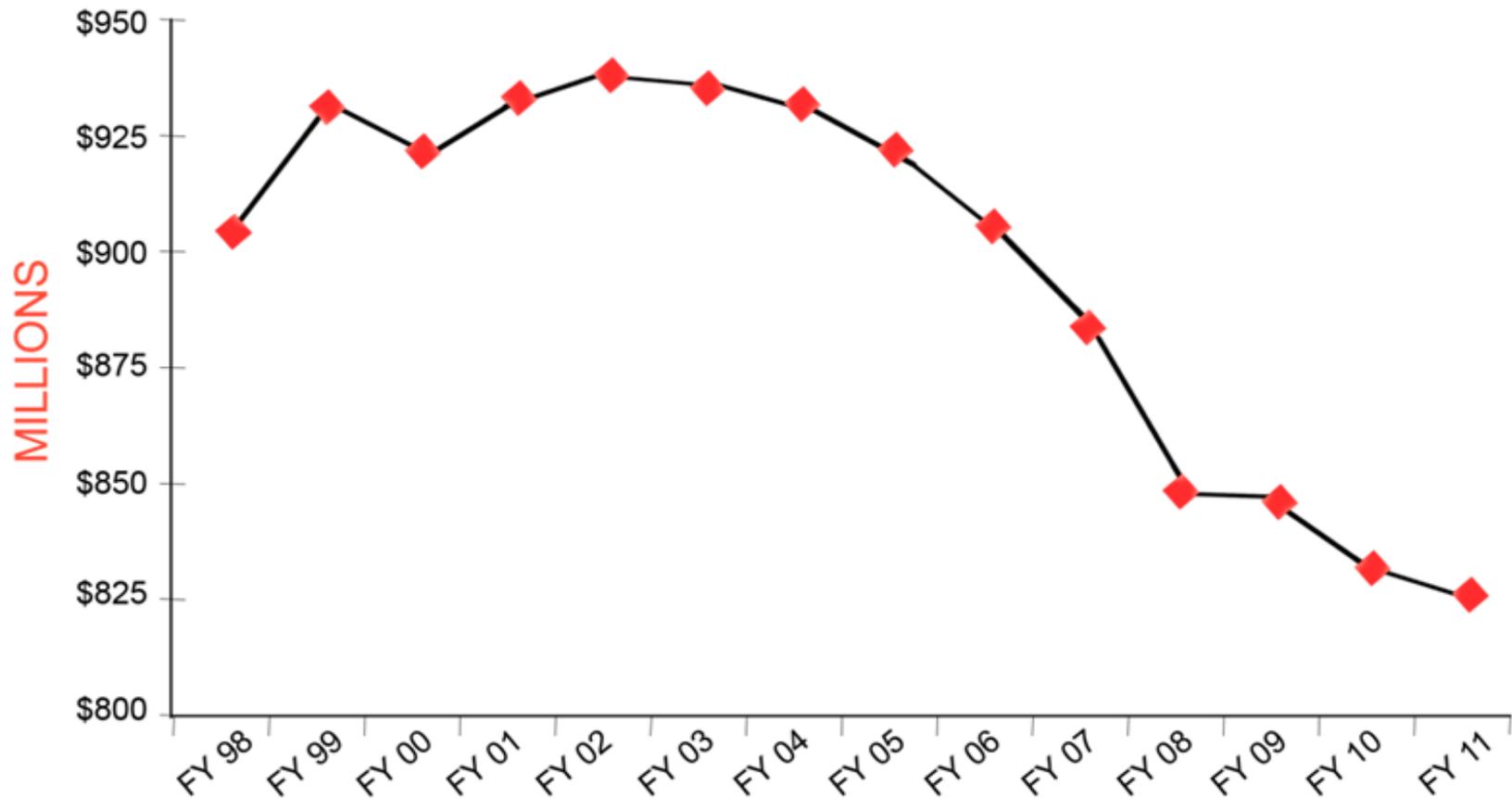


1. Every year \$1 billion we pay at the pump in state sales tax on fuel - doesn't go to the roads.



What's wrong with our roads?

Gas Tax Revenues



What's wrong with our roads?

- Every \$1 repair not made on a “fair” road today becomes \$6 to \$14 repair in the future.
- Michigan drivers pay about \$365/year in gas tax and vehicle registration.
- Bad roads cost motorists \$300-\$500/year in vehicle repairs and costs.*



KCRCRC Policies

Non-motorized Facilities Policy

- Review Primary/Local Road Plan
- At minimum 1 year advance notice prior to design
- Application and agreement process for Board approval
- Includes Non-motorized Paths, Paved Shoulders and Sidewalks



KATS Draft Complete Streets Policy

- It **will** increase costs
- It **will** decrease revenue for road/bridge repairs
- KCRC **will** have the largest impact
- Maintenance Agreements not addressed
- Lacks a master plan approach



Roadside Vegetation Management Policy

- **Storm Damage:**
 - Relocated fallen trees moved outside of the road right-of-way when possible
 - Contact the KCRC within 15 days of the fallen tree being relocated to request it be cut and/or removed.
- **Tree Removal:**
 - Road Improvement Project
 - Dead/Dying trees located in the right-of-way are the responsibility of the property owner for removal.
 - If a property owner wishes to remove, trim or prune a tree – permit required. The permit fee may be waived.

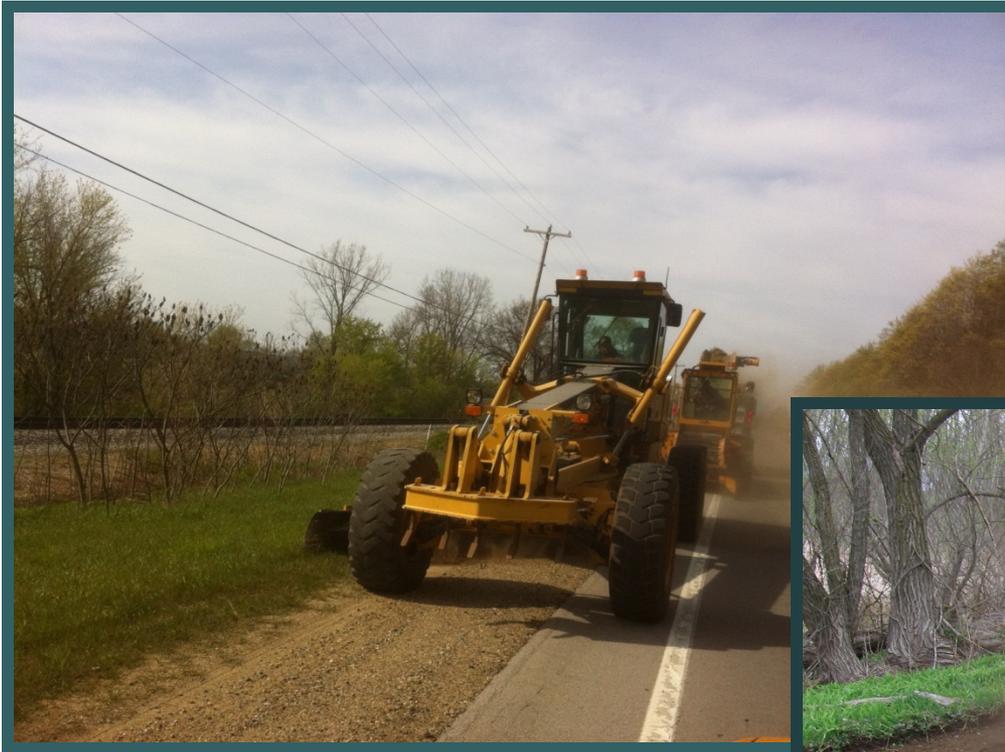


KCRC Operations

Engineering



Road Maintenance





Winter 2014



PASER System

GOOD



PASER 10, 9, 8

Routine:

Crack Fill

Minor Patching

FAIR



PASER 7, 6, 5

Preventive:

Chip Seal

HMA Wedging

Concrete Joint Repair

POOR



PASER 4, 3, 2, 1

Rehab/Reconstruct:

Resurface

Pulverize/HMA Paving

Replace Concrete Slab

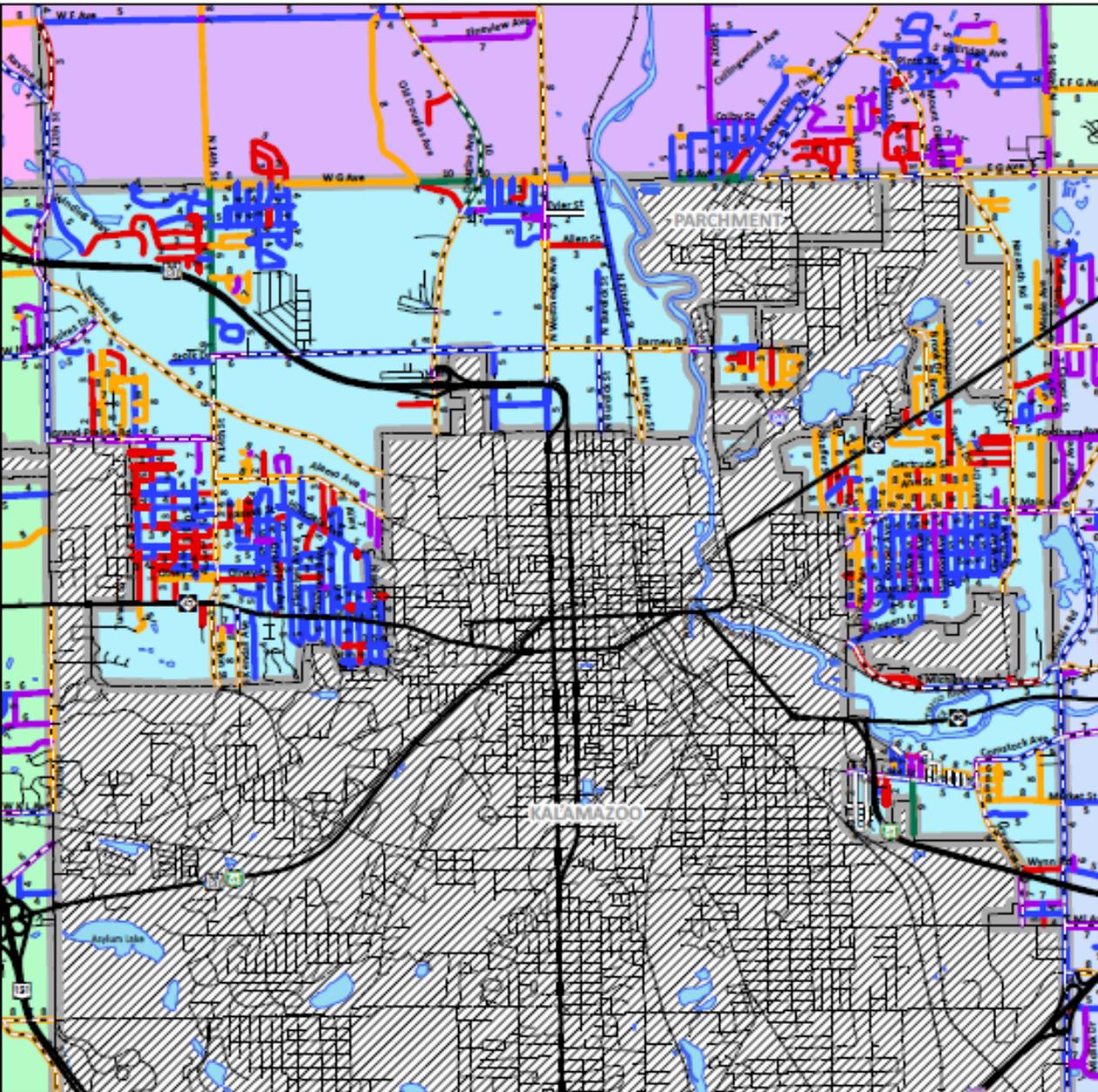
Reconstruct

Kalamazoo Township

- **Primary Road Miles – 24.31**
- **Countywide Average – 6.91**
 - **Kalamazoo Township Average – 6.88**
- **Local Road Miles – 74.37**
- **Countywide Average – 5.49**
 - **Kalamazoo Township Average – 5.23**

2013 Current Asset Management Ratings Map

Kalamazoo Twp



Road Ratings

- Excellent (9, 10)
- Very Good (8)
- Good (6, 7)
- Fair (4, 5)
- Failed, Very Poor or Poor (1, 2, 3)
- Private Roads (Not Rated - 0)

Road Classifications

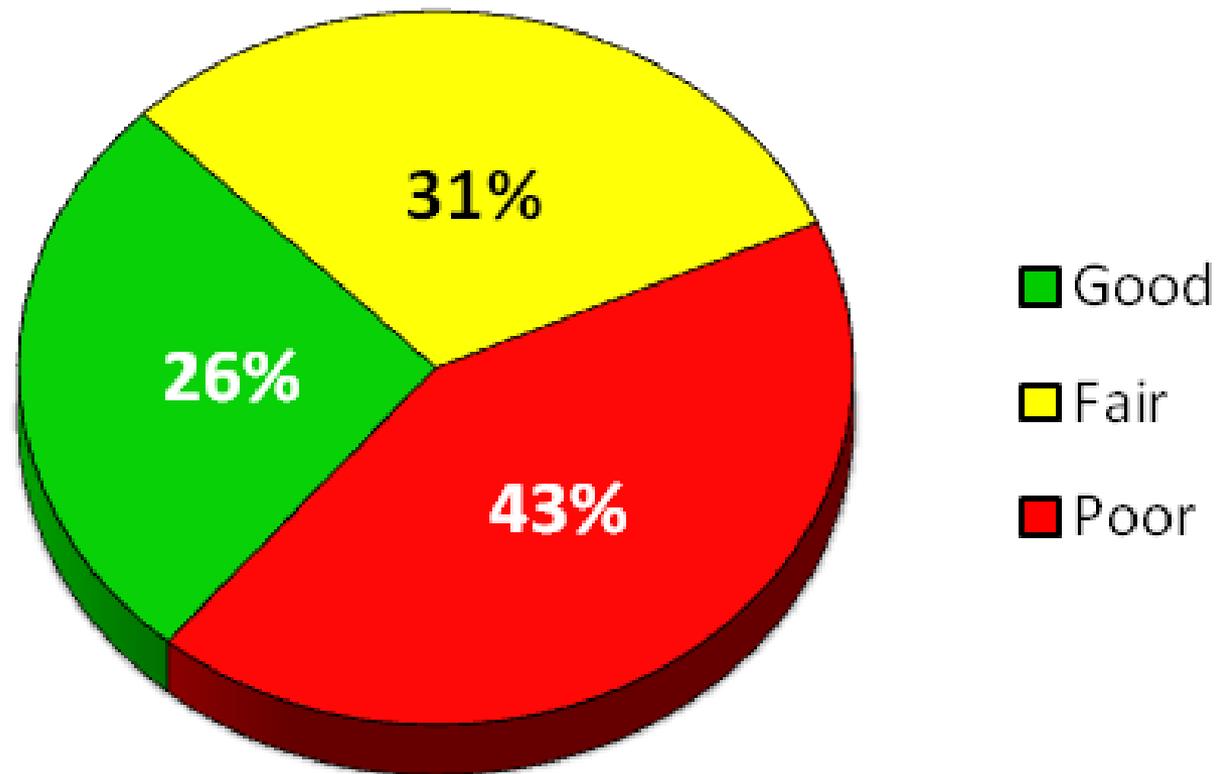
- State Trunkline
- County Primary
- County Local - Gravel
- City
- Private

Boundary Designations

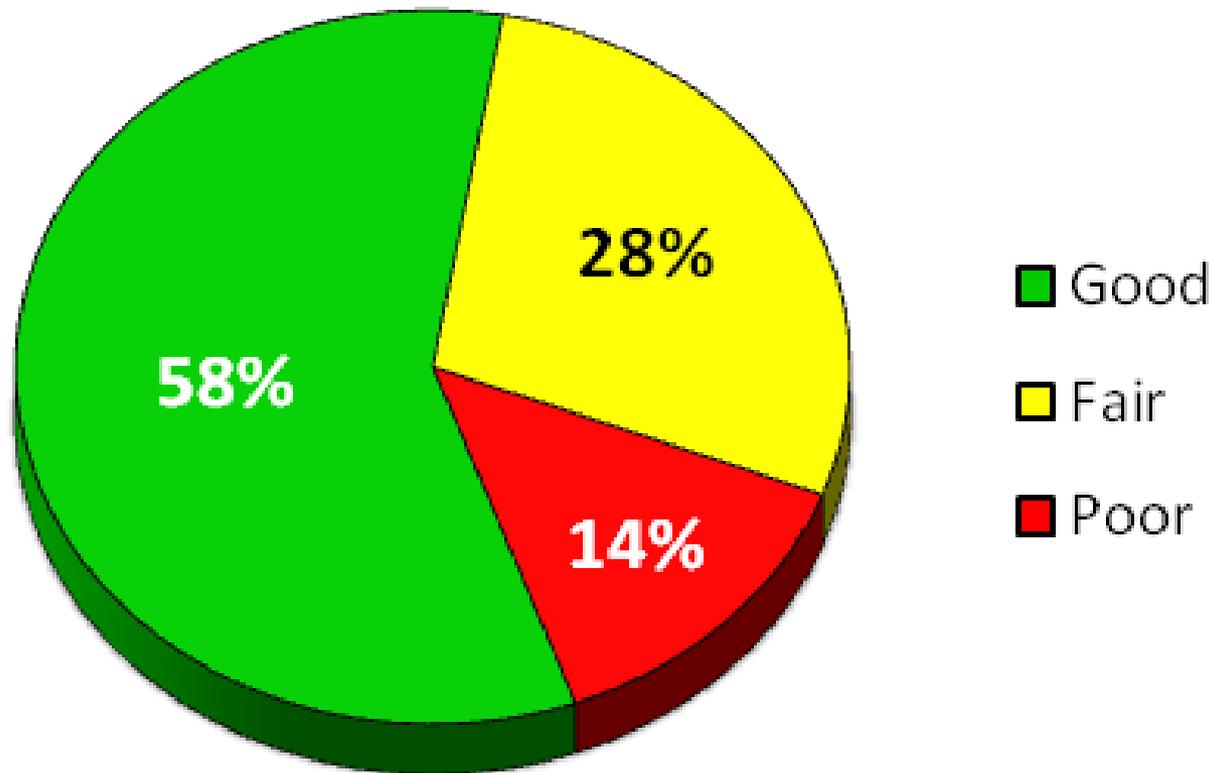
- Township/City
- City/Village Limits
- Lakes & Rivers

2013 Kalamazoo Township

Local Roads

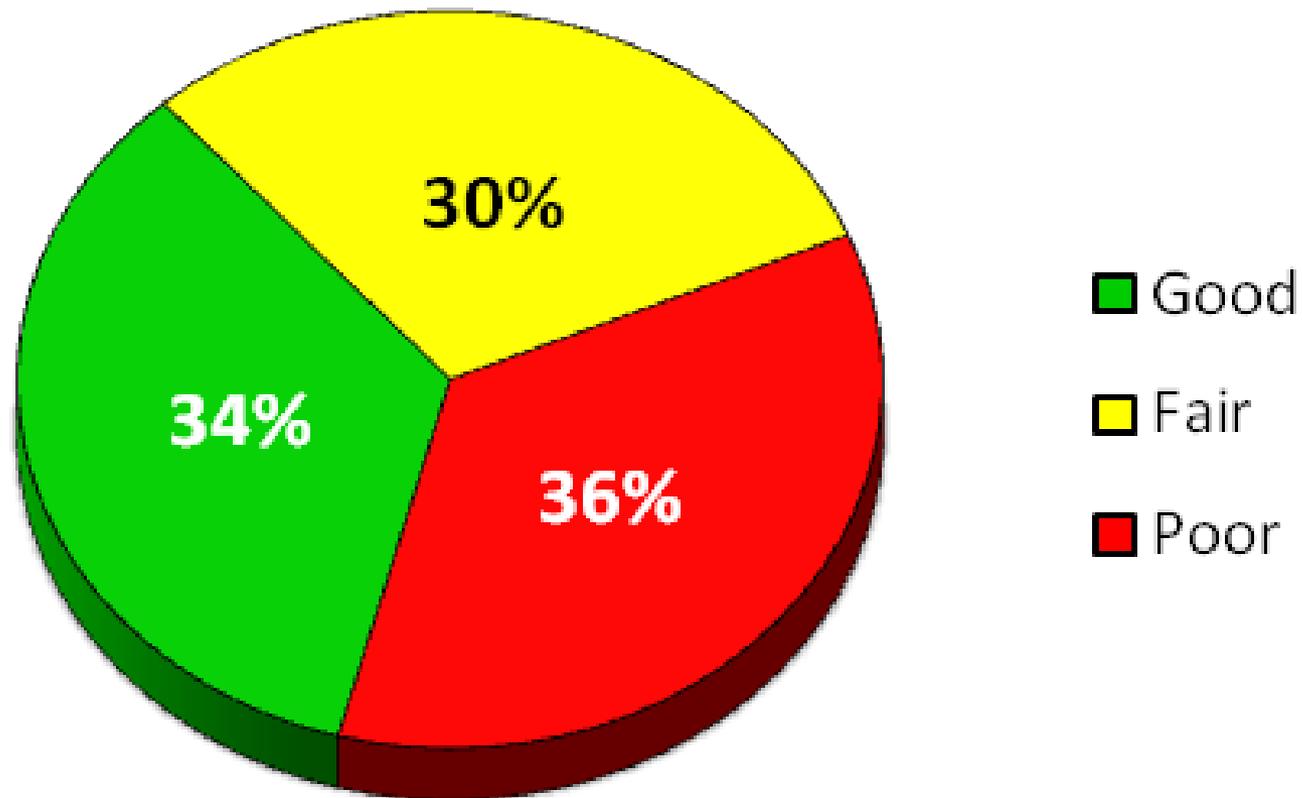


2013 Kalamazoo Township Primary Roads



2013 Kalamazoo Township

Local & Primary Roads



Excellent/Very Good



**Market Street – Sprinkle Road to
Olmstead Road, Rated 9**

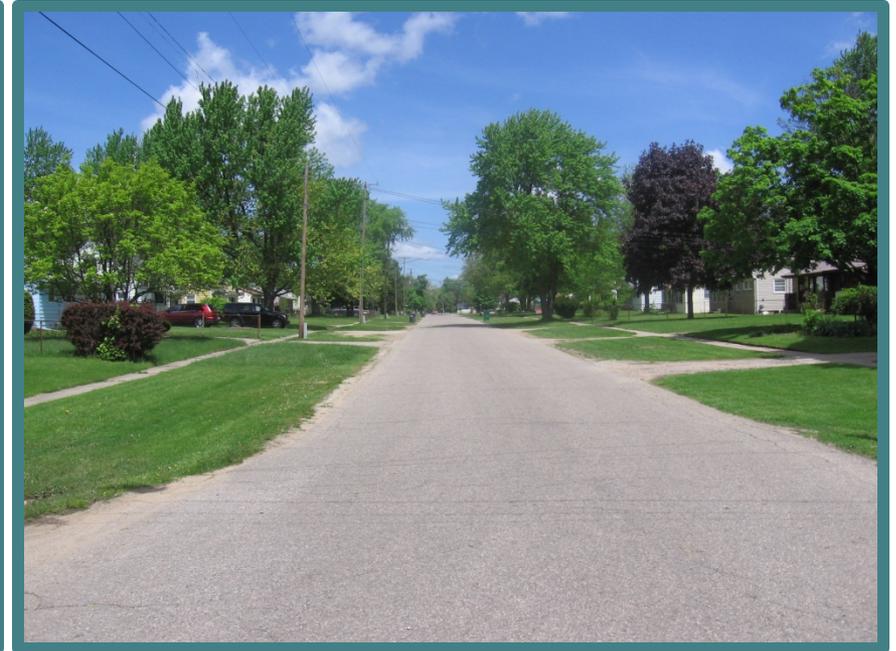


**Lamont Street – South of Lake Street,
Rated 10**

Fair



**Alicia Street – Christine Street to
Westnedge Avenue,
Rated 5**



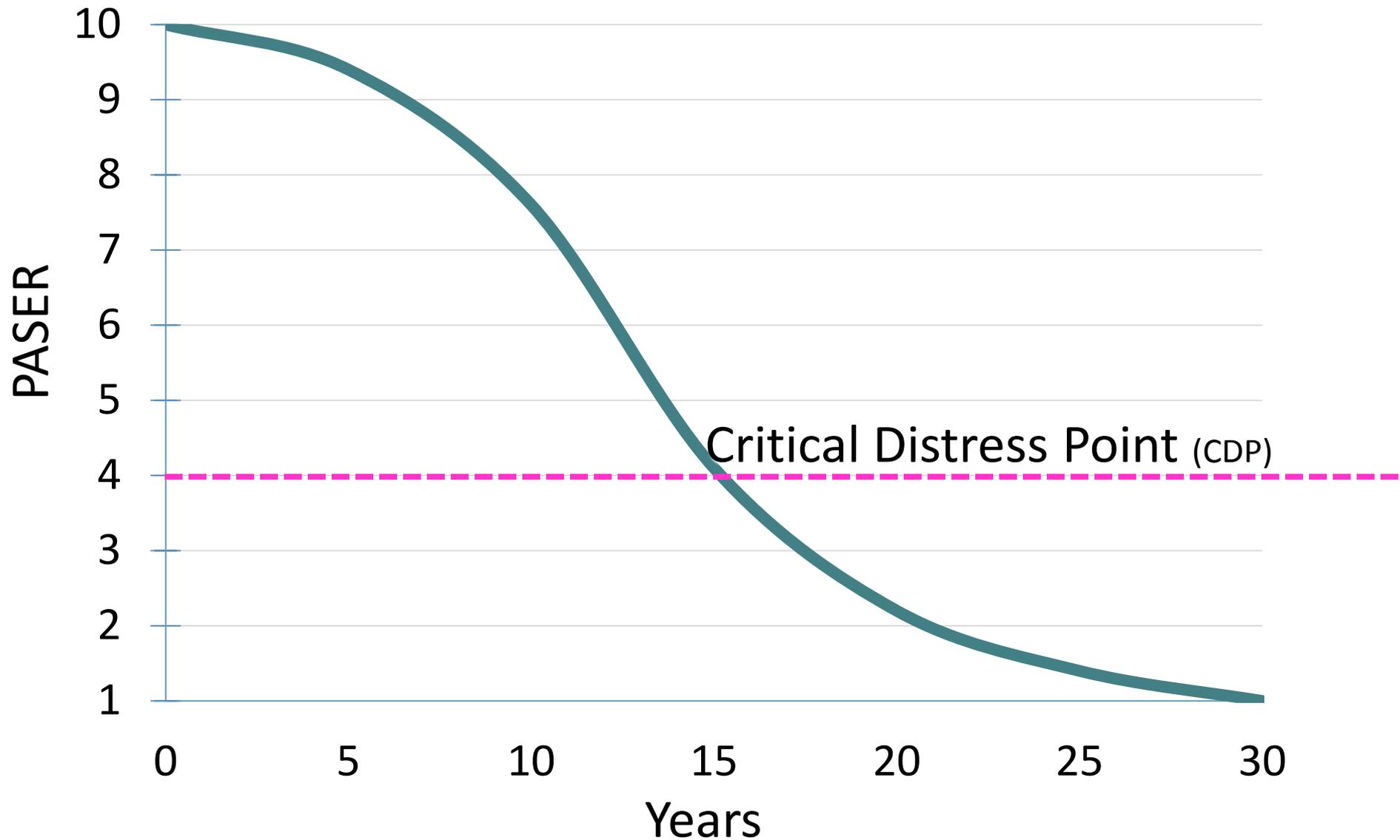
**Craft Avenue – Kenilworth Avenue
to East Main Street,
Rated 5**

Poor

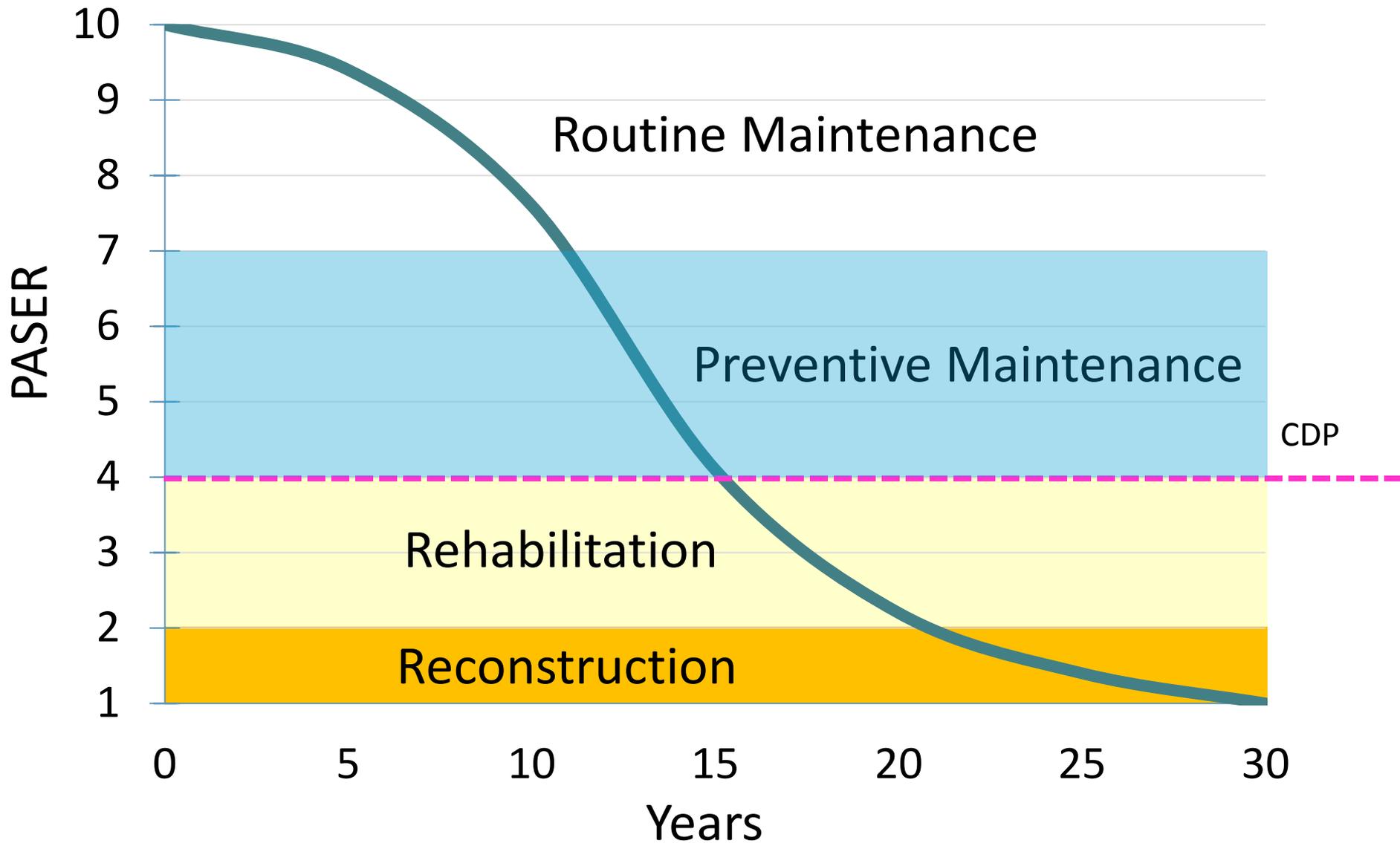


**Cherokee Street – M-43 to Devonshire Road,
Rated 3**

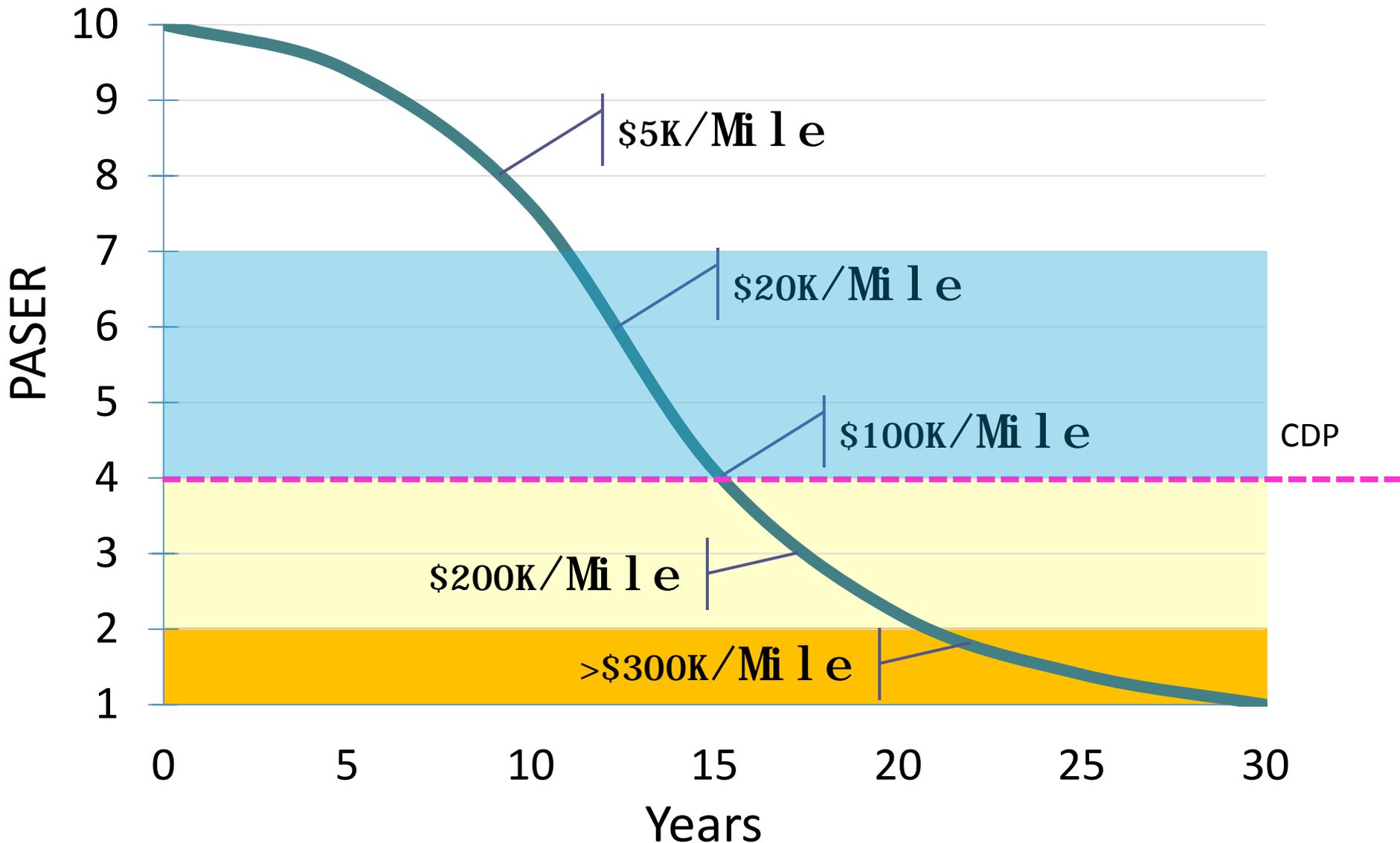
Road Deterioration Over Time



Windows of Opportunity



Cost of Treatments Increases With Time



Example Cost Effectiveness

Fix Type	Cost per Mile	Added Years of Life	Cost per Year of Added Life
Crack Fill	\$5,000	1	\$5,000
Chip Seal	\$20,000	4-9	\$5,000
Overlay	\$100,000	8-12	\$12,500
Crush & Shape	\$200,000	14	\$14,285
Reconstruction	>\$300,000	15	\$20,000

Approaches to Managing Assets

Worst First

Spend money reconstructing and rehabilitate poor roads

Little or no preventive maintenance

Few miles of high-cost fixes

Mix of Fixes

Spend money on preventive maintenance of good roads

Reconstruction if money permits

Many miles of low-cost fixes

Surface Treatment Decision Making Process

- **KCRC Staff**
 - **Local professionals**
 - **Guide the decision making process**
- **Considerations include:**
 - **PASER**
 - **Traffic**
 - **Original construction/pavement strength**
 - **Budget**

2014 Primary Road Projects

Streets	Project	Mileage	Estimated Amount
East Michigan Avenue – Kalamazoo City Limit to Sprinkle Road	<i>Mill/4" HMA Overlay</i>	1.60	\$1,100,000
Grand Prairie Road – Drake Road to Nichols Road	<i>HMA Wedge/Chip Seal</i>	.85	\$30,078
Drake Road – Grand Prairie Road to Ravine Road (Shared with Oshtemo Township)	<i>HMA Overlay/Intersection Improvement</i>	1.00	\$850,000
Barney Road – Nichols Road to Douglas Avenue	<i>Crack Fill</i>	1.29	\$13,080
Nazareth Road – M-43 to G Avenue	<i>Crack Fill</i>	1.20	\$8,685
Squires Drive – Drake Road to Ravine Road	<i>Crack Fill</i>	.38	\$3,868
		Total Estimated Amount-	\$2,005,711

2014 Local Road Projects

Streets	Project	Mileage	Estimated Amount
Avondale Circle – Avondale Drive to end, Avondale Drive – Craft Avenue to Craft Avenue, Craft Avenue – Kenilworth Avenue to East Main Street, Chrysler Street – Kenilworth Avenue to East Main Street, Clearview Street – Kenilworth Avenue to East Main Street, Ashley Drive – Kenilworth Avenue to East Main Street, Dwillard Drive – 350' south of Kenilworth Avenue to East Main Street, Coy Avenue – Dwillard Drive to Craft Avenue, Dearborn Avenue – Dwillard Drive to Craft Avenue	<i>HMA Wedge/Crack Fill/Chip Seal</i>	2.80	\$61,551
Berkley Street – M-43 to Hillsdale Avenue, Clarendon Street – M-43 to West North Street, Dartmouth Street – M-43 to Hillsdale Avenue, Jennison Avenue – M-43 to Kenwood Street, Wealthy Street – M-43 to Kenwood Street, Kenwood Street – Wealthy Street to Pinehurst Boulevard, Commonwealth Avenue/Commonwealth Place – Campbell Avenue to Arlington Street, West North Avenue – Dartmouth Street to Berkley Street	<i>HMA Wedge/Crack Fill/Chip Seal</i>	2.74	\$119,192
Beth Avenue – Christine Street west 901', Christine Street – Alecia Avenue to Beth Avenue, Alecia Avenue – Christine Street to Westnedge Avenue	<i>Crack Fill/Chip Seal</i>	.49	\$23,227
Haskell Street – Nichols Road to Fletcher Avenue	<i>Cold Milling/HMA Overlay</i>	.47	\$73,467
	Total Estimated Amount-		\$277,437

Kalamazoo Township Service Request 2013 Summary

- Pothole, 135
- Snow Removal, 105
- Tree, 87
- Sign, 48
- Drainage, 44
- Thank you, 10
- **2013 Total, 701**

KCRC Communication

- **Website** www.kalamazoocountyroads.com
 - “Contact Us” - Service Requests, Agenda, Minutes, Project Information, Newsletter, Annual Report, Road Data, Budget, Purchasing, etc.
- **Telephone 269-381-3171**
 - Service Requests logged and tracked
 - We want your service requests!!
 - Emergency after hours call 9-1-1 Dispatch
- **Television**
 - KCRC Board meetings televised on Public Media Network or watch from our website link
- **Facebook** www.facebook.com/kalamazoocountyroads
 - Daily updates on roadwork around the county

THANK YOU!

Questions?



Your Local Road Professionals since 1909