

102 YEARS OF SERVICE 1909 - 2011



Winter Maintenance Operation on 45th Street – Climax Township



Kalamazoo
County
Road
Commission

3801 East Kilgore Road • Kalamazoo, Michigan 49001
Telephone: (269) 381-3171 • Fax: (269) 381-1760
<http://www.kalamazooountyroads.com>

Honorable Board of County Commissioners
County of Kalamazoo
Administrative Building
201 West Kalamazoo Avenue
Kalamazoo, Michigan 49007

Commissioners:

The one hundred third annual activities and financial report of the Board of County Road Commissioners of Kalamazoo County for the calendar year 2011 is herewith submitted in compliance with the provision of P.A. 283 of 1909, as amended.

Respectfully submitted,

Board of County Road Commissioners
of Kalamazoo County

Kent L. McCauley, Chairman

Kenneth R. Oscarson, Vice Chairman

Dennis J. Berkebile, Member

Jeffrie M. Maddox, Member

Daniel J. Moyle, Member

102 YEARS OF SERVICE

The Kalamazoo County Road Commission was formed by a vote of the people in 1909. Five county residents are appointed by the Kalamazoo County Board of Commissioners to serve staggered six-year terms as road commissioners. To better serve our County and local officials, each Road Commissioner has also been assigned as liaison to a township.

MEET THE 2011 ROAD COMMISSIONERS

Kent L. McCauley – Chairman

Mr. McCauley was appointed to the road commission in January 2007. He was elected Chairman of the Board in 2010, 2011 and served as Vice Chairman in 2009. A Vicksburg resident, he serves on the School Board Foundation and United Way. He also has been active with the Vicksburg Village Council, Michigan Road Builders Association, American Underground Contractors, Michigan Asphalt and Paving Association, Michigan Aggregate Association and Parks & Recreation Commission. Mr. McCauley is a sales representative with Filmore Equipment Company. His term expires 12/31/2012. Township representation: Brady, Climax, and Pavilion townships.

Kenneth R. Oscarson – Vice Chairman

Mr. Oscarson was appointed to the commission in November 2007. He was elected Vice Chairman of the Board in 2010 and 2011. A Schoolcraft Township resident, Mr. Oscarson has worked with county road commissions for over 36 years as a professional engineer and has been active in municipal consulting for villages and townships. He has experience as a Planning Commissioner and Zoning and Building boards of appeals. Mr. Oscarson was most recently employed by Fleis & Vandenbrink. His term expires 12/31/2016. Township representation: Kalamazoo, Prairie Ronde, and Wakeshma townships.

Dennis J. Berkebile – Member

Mr. Berkebile was appointed to the road commission in January 2005 and served as Chairman in 2005 and 2006 and Vice Chairman in 2007 and 2008. He has been involved in community activities throughout his career, both in Indiana and Michigan. A Texas Township resident, he has been a member of the township's board, zoning board of appeal and planning commission. He serves as Chairman of the Michigan Works Board. He also serves on the Food Bank of South Central Michigan, Salvation Army, Hospital Hospitality House, and the Youth for Christ and Portage Rotary boards. He also served on the Board of Directors of MCR Industries and Kalamazoo Area Transportation Study Policy Committee. Since 1996, Mr. Berkebile has been employed by Consumers Energy for whom currently serves as area manager. His term expires 12/31/2016. Township representation: Charleston, Schoolcraft, and Texas townships.

Jeffrie M. Maddox – Member

Mr. Maddox, a Galesburg resident, joined the commission in January 2005 and was reappointed in January 2009. He was elected Chairman of the Board in 2007, 2008 and 2009 and served as Vice Chairman in 2005 and 2006. Mr. Maddox was a member of the board of directors of the Home Builders Association of Greater Kalamazoo from 2001 - 2005. His career has included extensive sales and management experience. Mr. Maddox has been with Bel-Aire Heating & Air Conditioning since 1995. Currently, he is the company's sales manager. His term expires 12/31/2014. Township representation: Comstock, Cooper, and Ross townships.

Daniel J. Moyle – Member

Mr. Moyle was appointed to the road commission in November 2007. A Texas Township resident, Mr. Moyle has many years of experience managing a company that maintained and constructed highways, roads and airports. He currently serves on the Environmental Health Advisory Council. Mr. Moyle is now retired from Globe Construction Company. His term expires 12/31/2012. Township representation: Alamo, Oshtemo, and Richland townships.



Daniel J. Moyle Kenneth R. Oscarson Kent L. McCauley Jeffrie M. Maddox Dennis J. Berkebile



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Early Snowplow Operation

CONTENTS

FACTS AND FIGURES	1
TABLE OF ORGANIZATION	2
INTRODUCTION	3
GLOSSARY	7
PRIMARY ROAD PRESERVATION – STRUCTURAL IMPROVEMENTS	8
PRIMARY CONSTRUCTION	11
PRIMARY ROAD PREVENTIVE MAINTENANCE	12
LOCAL ROAD PARTICIPATION FUNDS	15
TOWNSHIP CONTRIBUTIONS	16
LOCAL ROAD PROJECT SUMMARY EXPENDITURES	17
LOCAL ROAD PRESERVATION–STRUCTURAL IMPROVEMENTS, PREVENTIVE MAINT	18
LOCAL ROAD ROUTINE MAINTENANCE EXPENDITURES AND REVENUES	26
ROUTINE MAINTENANCE EXPENDITURES	27
COMBINED BALANCE SHEET	28
STATEMENT OF REVENUES AND EXPENDITURES	29
OTHER SUPPLEMENTAL INFORMATION: GRAPHS	30

One Hundred Third Annual Report of the Board of County Road Commissioners of Kalamazoo County, Michigan

For Calendar Year Ending December 31, 2011

Kent L. McCauley, Chairman
Kenneth R. Oscarson, Vice Chairman
Dennis J. Berkebile, Member
Jeffrie M. Maddox, Member
Daniel J. Moyle, Member
Joanna I. Johnson, Managing Director

FACTS AND FIGURES

Certified Miles

Township	Primary Miles	Local Miles
Alamo	31	39
Brady	32	44
Charleston	22	23
Climax	26	46
Comstock	44	75
Cooper	31	63
Kalamazoo	26	75
Oshtemo	43	74
Pavilion	27	48
Prairie Ronde	22	52
Richland	26	49
Ross	26	54
Schoolcraft	25	36
Texas	32	90
Wakeshma	25	48
Portage City	11	0
Primary road miles	449	
Local road miles		816
Gravel road miles		103
All-season road miles	284	



Winter Maintenance Operation – Cooper Township

• County Bridge System

Bridges	60
Restricted Bridges	10
Closed Bridges	1

• Signs and Signals

Signs Posted	19,300
Stop Signs	2,500
Traffic Signals	46
Flashing Lights at Intersections	41

• Jobs well-done in 2011

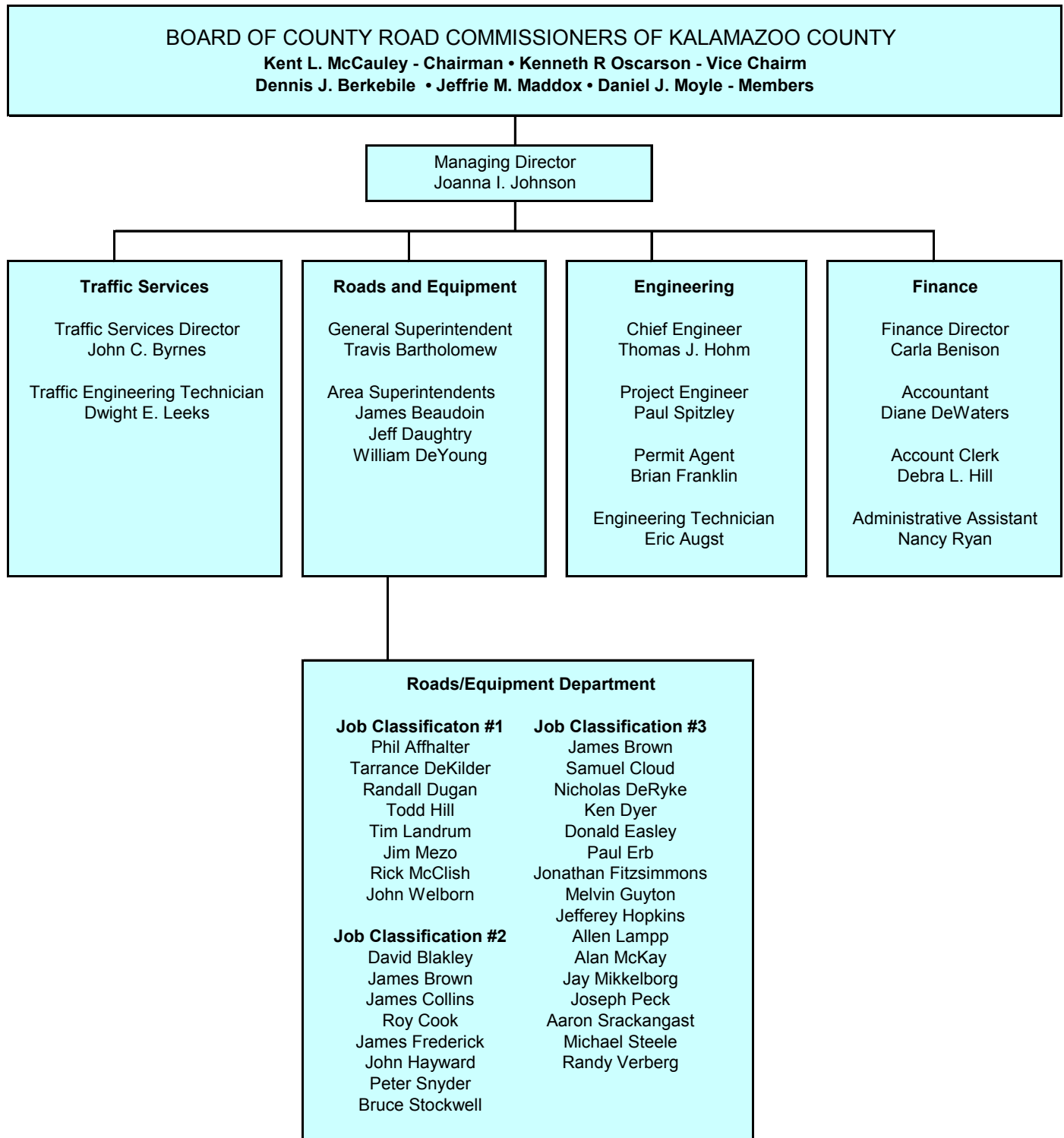
Miles of primary roads paved	6
Miles of primary road chip sealed	88
Miles of local roads paved	9
Miles of local road chip sealed	52
Miles of local road regaveled	2



35th Street south of G Avenue – Comstock Township

TABLE OF ORGANIZATION

December 2011



The goal of the Board of County Road Commissioners of Kalamazoo County is using our expertise, energy and funds to provide the safest and most convenient road system possible, and to contribute to economic development and high quality of life throughout the county.

INTRODUCTION

The Kalamazoo County Road Commission (KCRC) has provided a brief overview of our funding, operations, and assets within this report. Additional financial and audit information, publications and resources can be found on our website at www.kalamazooountyroads.com.

This report provides a citizens guide to the efforts by KCRC in public service. These efforts are on-going and continuously developed to meet the needs of our changing reality while improving our infrastructure. Our work is never complete and we will continue to be focused on continuous improvement, leadership and public service. Our goal is to be the BEST road commission in the State. This is only accomplished by our team of employees vested in the spirit of leadership and service. Thank you for allowing us the opportunity to serve you.

The Kalamazoo County Road Commission (KCRC) is the jurisdictional authority over all public roads lying outside the incorporated cities and villages within Kalamazoo County, exclusive of any state trunkline highway. At the end of 2011, KCRC maintains 1,263.86 miles of road throughout the 576 square-mile county. The KCRC certified primary road system consists of 449.28 miles; the remaining 814.58 miles comprise the local road system. Along with the road system, KCRC maintains bridges, traffic signs/signals, culverts, storm sewers, and roadsides throughout the county.

PROJECT SELECTION

The KCRC establishes road improvement priorities for the primary road system. Annually, our staff develops an improvement plan spanning five years that is based on engineering assessments and on-site reviews. This plan is reviewed and projects undertaken based on current and future road needs and anticipated funding.

In December 2011, the KCRC adopted a \$38.5 million, five-year Primary Road Capital Improvement Plan (CIP) for the period 2012 through 2016. The plan includes such preservation-structural improvement projects as resurfacing, reconstructing and widening roads; upgrading certain roads to all-season status; safety projects; bridge replacements; and upgrading traffic signals.

For the local road system, road improvement priorities are developed in conjunction with township governments. In 2010, KCRC approved a policy requesting that each township work with our designated Area Superintendent to develop a 5-year local road improvement plan supporting asset management for planning purposes and local road preservation. In 2011, staff continued to work with our townships to develop these plans. The KCRC maintains a local road participation fund program that provides funds for each township that must be matched on a dollar-for-dollar basis for local road improvement projects. In 2011, KCRC applied \$950,000 toward this match program. These projects include local road preservation-structural improvement, preventive maintenance and construction projects such as chip seal, hot mix asphalt (HMA) overlays and road reconstruction.

The financial commitment of township boards and residents through the years has proven invaluable. These partnerships help provide better service to our joint constituencies. Also available for funding, under the provisions of Act 246, Public Acts of 1931 is the special assessment district option. The State statute provides an opportunity to fund local road improvement projects through the creation of a special assessment district. This can be initiated either by response to a township board resolution or by a petition of landowners. In 2011, four special assessment districts were created; three in Oshtemo Township and one in Ross Township (construction in 2012). Texas Township approved a special assessment district under the provisions of Act 188, Public Acts of 1954 by township board resolution in 2010. Climax Township is the only township in Kalamazoo County with a dedicated road millage.

ASSET MANAGEMENT

Infrastructure is a valuable asset in every community. It is important to maintain these assets as efficiently and cost effectively as possible. A transportation asset management program allows KCRC to plan and prioritize road improvements. Since 2004, federal aid eligible road asset management data has been collected in Kalamazoo County. In 2009, the KCRC began a process of collecting data on the non-federal aid system and to date all 15 townships have been completed with local ratings completed for Cooper, Kalamazoo, Pavilion, Prairie Ronde and Wakeshma, Townships in 2011. Updated data will be gathered on a 3-year township rotation for the non-federal aid system. The data collected used the Pavement Surface

Evaluation Rating (PASER) system, as is used in the federal aid data collection. The method of collection using the Roadsoft GIS laptop data collector and trained KCRC staff consisted of a survey of roads and each pavement was assigned a rating based on PASER criteria. PASER rating is based on a number system, 1 through 10 with 1 being the worst and 10 being the best. This data will assist in establishing a strategic plan for project selection and maintaining our infrastructure with the right fix at the right time.

For additional information on asset management statewide, please visit the Transportation Asset Management Council (TAMC) website at www.michigan.gov/tamc.

Please review our asset management graphs in this report, that reflect data for KCRC's primary and local road system.

FINANCES

The KCRC is a special purpose government engaged in a single government program of road and bridge maintenance, preservation and construction for the county of Kalamazoo, Michigan. Our annual audited financial statements are included in the basic financial statements of Kalamazoo County, Michigan as a discretely presented component unit. Our Board of County Road Commissioners adopts an annual budget in accordance with the Uniform Budgeting Act (P.A. 621 of 1978). An independent audit is performed annually on KCRC financial statements, and we annually submit our Act 51 Financial Report to the Michigan Department of Transportation as required by Act 51, Public Acts of 1951 as amended. In 2011, we continued to take every possible step to increase our efficiency by controlling expenditures, including overhead and administrative costs. Steps taken include benefit modifications, technology enhancements, equipment investments, on-going collaboration, modifications to our winter maintenance operations, and modifications to our material usage.

Please review our financial graphs, in this report, that reflect data for our revenues, expenditures, historical information, and winter maintenance operations.

REVENUES

MICHIGAN TRANSPORTATION FUND

The Michigan Transportation Fund (MTF), the repository of fuel taxes and vehicle registration fees collected by the state, is the principal source of road commission funding. The collected funds are distributed to the Michigan Department of Transportation (MDOT), 53 cities and villages, and 83 county road commissions, using a formula based on variables that include the density of population, road mileage by classification and collected vehicle registration fees.

Our general allocation revenue from the MTF has been decreasing over the years. The decrease is attributable to several issues. Since the fuel tax is based on a flat per-gallon rate, and not on a percentage of total fuel purchased (for example, such as the sales tax), the fewer gallons of fuel sold has a significant impact on this important revenue stream. As fuel efficiency rises and less gallons of fuel are sold, the resulting decrease in MTF revenues continues to become a challenge to road commissions throughout the state.

Please review our MTF graph, in this report, for historical information.

MICHIGAN STATE AND FEDERAL TRANSPORTATION FUNDS

The KCRC also works diligently to qualify for special sources of revenue for road improvement projects from other state and federal sources.

State sources include critical bridge funds, snow-removal funds, and Transportation Economic Development Funds or TEDF dollars. TEDF Category A funds are competitively available for road projects related to industry development and redevelopment opportunities TEDF Category D funds are available for use to upgrade roads to all-season standards and to develop a network of roads that are not weight restricted during seasonal weight restriction periods. TEDF Category F funds are competitively available for use to upgrade roads to complete broken links in the all-season-road network in the urban area.

FEDERAL SURFACE TRANSPORTATION PROGRAM FUNDS

Federal revenue sources are provided for in the Federal Transportation Legislation by the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) since 2005 and currently on its 9th extension. Federal sources include Surface Transportation Program (STP) funds, American Recovery and Reinvestment Act (ARRA) and Congestion Mitigation and Air Quality (CMAQ) funds.

Federal funding is distributed to the KCRC through the Kalamazoo Area Transportation Study (KATS), the Metropolitan Planning Organization (MPO) for the Kalamazoo urbanized area. One of the charges of the KATS is to fulfill Federal, State, and Policy Committee directives to ensure an equitable distribution of transportation funding in Kalamazoo County, as well as to plan for the future of the transportation network within financially feasible goals. The KATS provides a framework in which the KCRC is able to coordinate with the other agencies in the Kalamazoo area and to seek additional public comment on our CIP.

CMAQ programs reduce vehicle pollutant emissions by improving the flow of traffic, or by providing transportation choices that reduce pollution. CMAQ funds are designated to the Kalamazoo region to support projects that will result in improved air quality.

Projects completed during 2011 utilizing STP funds :

- Sprinkle Road from S Avenue to Zylman Avenue
- 12th Street from C Avenue to North County Line

The ARRA funding provided investment in our nation's infrastructure; including roads, bridges, and public transit to save or create jobs for American workers and enhance economic growth. For KCRC these funds totaled approximately \$22,000 dollars in 2011.

Project completed during 2011 utilizing ARRA funds:

- Sprinkle Road North from G Avenue to D Avenue, Chip Seal

FEDERAL LOCAL BRIDGE PROGRAM FUNDS

Under SAFETEA-LU, Michigan is eligible to use federal funds to improve the condition of highway bridges through replacements, rehabilitation, and preservation activities. Through legislation in 2004, Michigan created a Local Bridge Fund to be administered by the Local Bridge Advisory Board and seven Regional Bridge Councils. Funding from the Local Bridge Fund is allocated to each region based on available funds and weighted ratios provided in the legislation.

These funds are available on a statewide competitive basis. Bridges eligible for these funds must be structurally deficient, functionally obsolete and in need of repair or do not function in a way that meets traffic needs.

The TAMC annual report on deficient bridges is available on the TAMC website at www.michigan.gov/tamc.

In 2011, 10% of KCRC (6 bridges) are rated as structurally deficient: Structurally Deficient (SD) status – A highway bridge is classified as structurally deficient if the deck, superstructure, substructure, or culvert is rated in “poor” condition (0 to 4 on the National Bridge Inventory (NBI) rating scale). A bridge can also be classified as structurally deficient if its load carrying capacity is significantly below current design standards or if a waterway below frequently overtops the bridge during floods. Please review our Bridge Rating Summary graph in this report.

EXPENDITURES

KCRC engineering and maintenance operations are responsible for providing engineering and technical expertise for road commission projects, operations, preventative maintenance and improvement projects on the county road system. These efforts also include our traffic safety operations. KCRC operations are supported by our administrative team, equipment operations and capital outlay expenditures.

Routine maintenance activities, outside of construction projects, include surface patching, roadside mowing, tree cutting/removal, culvert repair, guardrail maintenance, and winter maintenance.

During 2011, approximately 15 miles of roads were paved totaling over \$5.7 million dollars. To preserve the capital investment in our roads, more than 140 miles of roads were chip sealed totaling over \$3.6 million dollars. Over \$9 million dollars was spent on our primary road system and over \$6 million on our local road system for both construction and maintenance operations in 2011.

Safety improvement projects also were completed, including, addition of turn lanes at intersections, shoulder paving, upgrading of traffic signals and new traffic signal installations at intersections.

Projects completed during 2011 including safety:

- Sprinkle Road from S Avenue to Zylman Avenue
- Mosel Avenue at Riverview Intersection

ACHIEVEMENTS AND EDUCATIONAL OPPORTUNITIES

ACHIEVEMENTS

The International Right of Way Association (IRWA) honored the 12th Street/Texas Drive at Milham roundabout project as one of the 2011 Infrastructure Projects of the Year. The project was a collaborative effort with the City of Portage who submitted the project for recognition.

EDUCATIONAL OPPORTUNITIES

In 2011, the KCRC held educational sessions on the following topics:

- Rules of the Road –August 10, 2011
- Complete Streets–October 25, 2011 for transportation agencies

SUMMARY

We hope this report provides a better understanding of the KCRC, our commitment to Kalamazoo County, the role we play in improving our infrastructure and to contribute to economic development and high quality of life throughout the county.



S. Sprinkle Road Base Course Paving – Pavilion Township

● GLOSSARY

All-season Roads—roads that have a sub-base, base and surface of adequate thickness and composition to withstand year-round use of heavy vehicles without damage.

Asset Management – Asset Management is a systematic approach to selecting the best investment at the right time to maximize the life of the asset being measured.

Cape Seal—a surface treatment that involves the application of micro seal to a newly constructed surface treatment of chip seal. Cape seals provide a dense, waterproof surface with improved skid resistance and ride quality.
6-8 Year Average Life Cycle

Chip Seal—a surface treatment in which the pavement is sprayed with asphalt emulsion and then immediately covered with aggregate and rolled. Chip seals are used primarily to seal the surface of a pavement.
5-7 Year Average Life Cycle

Crack Seal - a rubber material consisting of polymers, virgin rubber and asphalt emulsion to form an elastic moisture barrier over cracks in the road that, when properly heated and applied, will maintain its form over extreme heat and cold fluctuations in the roadway preventing the infiltration of water.

Double Seal—two applications of chip seal applied to a prepared gravel base.
8-10 Year Average Life Cycle

Fog Seal—a light application of slow setting asphalt emulsion diluted with water and without addition of any aggregate applied to the surface of a bituminous pavement or recent chip seal. Fog seals are used to renew aged asphalt surfaces and seal minor cracks. When applied over a recent chip seal, the fog seal reduces dust and lock in aggregate.
1-3 Year Average Life Cycle

HMA (Hot Mix Asphalt) Overlay—the application of HMA (hot mix asphalt), a combination of aggregates, mineral fillers, RAP (recycled asphalt pavement), and asphalt binder. HMA is placed on top of gravel or other old surfaces and rolled to compact in place.
15-20 Year Average Life Cycle

HMA (hot mix asphalt) Wedge—a repair patch placed by a paving machine that varies in depth and length.

Local Roads—county roads not classified as primary roads in the county road system. KCRC has 815.53 miles of these roads, including those in plats.

Micro Seal—a mixture of polymer modified asphalt emulsion, mineral aggregate, mineral filler, water, and other additives, properly proportioned, and spread on a paved surface. Also utilized to correct rutting on high volume roads. *6-8 Year Average Life Cycle*

PASER—PASER stands for Pavement Surface Evaluation and Rating. The PASER system was developed by the University of Wisconsin-Madison as a tool to rate the current surface condition of roads.

Preservation—structural improvement roadwork, including placing a hard surface on a gravel road, reconstructing an existing road or bridge, resurfacing a road with a HMA overlay or installing new culverts or catch basins.

Routine Maintenance—roadwork, including pothole filling, pavement marking, roadside mowing, tree/brush removal, guardrail repair, minor drainage corrections, grading gravel roads, sign installation and snow removal.

Primary Roads—major roads within the county road system in Kalamazoo County. Primary roads typically accommodate 85 percent of the county's road system traffic and include 449.28 miles of roadway.

Reconstruction—removing the existing road surface and replacing it with materials of a thickness that conforms to current standards for pavement design. Vertical and horizontal alignment drainage improvements are also factors of reconstruction.
Varies Year Average Life Cycle

Rehabilitation—placing additional surface material or doing other work to return a road, including its shoulders, to structural or functional adequacy.
Varies Year Average Life Cycle

Resurfacing—placing new bituminous pavement material over existing pavement. Shoulder material is added to match the elevation of the new pavement.
Varies Year Average Life Cycle

RoadSoft - road data GIS software used to compile and report on the condition assessments. RoadSoft was developed by Michigan Technological University for all road agencies in Michigan

- PRIMARY ROAD PRESERVATION
- STRUCTURAL IMPROVEMENTS
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION	TOTAL
9th Street – KL Avenue to M-43, Project No. 210292. Design engineering for proposed project to resurface and widen road.	26,957.62
11th Street/ON Avenue – N Avenue to 12 th Street, Project No. 210246. Design engineering for proposed reconstruction project.	26,139.59
11th Street – at N Avenue, Project No. 210359. Traffic signal flasher upgrade.	6,816.72
12th Street – at Milham Road and Texas Drive, Project No. 210116. Construction engineering, right-of-way purchases, and contractor payments by State for an intersection reconstruction project, including a roundabout to improve traffic flow.	921,870.13
12th Street – C Avenue to north county line, Project No. 210900. Construction engineering and contractor payments by State for road reconstruction to all season standards.	898,754.03
24th Street – S. Sprinkle Road to R Avenue, Project No. 210287. HMA overlay and gravel shoulders. Project includes trench widening.	42,483.39
29th Street – W Avenue to V Avenue at Portage River Bridge, Project No. 210288. Approach widening and HMA overlay.	7,519.33
35th Street – at Miller Drive, Project No. 210358. Pedestrian signal upgrade.	5,149.87
35th Street – .09 mile north of Miller Drive, Project No. 210026. Construction engineering and contractor payments by State for 2010 intersection relocation project.	77,671.58
35th Street – G Avenue south 1000', Project No. 210297. Slope stabilization, storm sewer construction, concrete curb and gutter construction, and HMA overlay.	314,961.30
35th Street – I-94 westbound off ramp to Kalamazoo River, Project No. 210960. Engineering services for 2010 reconstruction project.	13,067.20
36th Street – .25 mile south of Q Avenue, Project No. 210032. Precast concrete four-sided box culvert replacement and HMA overlay.	193,432.85
37th Street – G Avenue to M-89, Project No. 210137. Design engineering services for proposed project.	3,502.07
43rd Street – R Avenue to Q Avenue, Project No. 210886. Construction engineering and contractor payment by State for 2009 HMA resurfacing project.	17,159.76
G Avenue – 35 th Street to 37 th Street, Project No. 210285. Final Accounting by State for 2004 project.	2,806.49
D Avenue – Foxwood Street to Richland village limits, Project No. 210290. HMA wedge.	7,066.46
N Avenue (Kilgore Road) – at 29th Street, Project No. 210120. Intersection HMA completion of 2010 intersection improvement project.	38,115.56
VW Avenue – 18 th Street to Portage Road, Project No. 210139. Construction engineering services and contractor payment by State for 2011 safety and resurfacing project.	480,023.02

- **PRIMARY ROAD PRESERVATION**
- **STRUCTURAL IMPROVEMENTS**
- Including Administrative and Equipment Allocation

PROJECT DESCRIPTION	TOTAL
Douglas Avenue – at G Avenue, Project No. 210198. Design engineering services for proposed intersection improvement project.	7,950.77
Mosel Avenue – At Riverview Avenue, Project No. 210199. Design engineering for proposed traffic signal upgrade.	582.58
Ravine Road – at Squires Drive, Project No. 210797. Construction engineering and contractor payment by State for 2008 safety improvement project.	1,275.72
River Street – BL I-94 to L Avenue, Project No. 210291. HMA wedge.	7,708.95
Nichols Road – Ravine Road to Barney Avenue, Project No. 210123. Design engineering for proposed reconstruction project.	1,191.29
Parchmount Avenue – 845' west of Nazareth Road, Project No. 210296. Shared project with City of Kalamazoo for HMA overlay project with gravel shoulders.	20,983.87
North Sprinkle Road – at G Avenue, Project No. 210961. Construction engineering for 2010 intersection safety improvement project including traffic signal upgrade.	45,870.55
South Sprinkle Road – S Avenue to Zylman Avenue, Project No. 210135. Construction engineering and contractor payments by State for reconstruction project, including widening to 3 lanes from Wells Street to Zylman Avenue, HMA overlay, culvert replacement and ditching to improve drainage.	1,272,911.29
South Sprinkle Road – at S Avenue, Project No. 210136. Construction engineering and contractor payments by State for intersection safety project.	296,690.82
Stadium Drive – 4 th Street to 6 th Street, Project No. 210115. Construction engineering and contractor payment by State for 2010 resurfacing project.	32,046.08
Total Primary Structural Improvements	4,770,708.89



12th Street Roundabout – Texas Township

- **PRIMARY STRUCTURES**
- **HEAVY MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION	TOTAL
9th Street Bridge – over Amtrak railroad, Project No. 220550. Contractor payments by State for 2009 bridge replacement project.	11,751.54
24th Street Bridge – south of X Avenue (over Portage Creek), Project No. 220523. Construction engineering and contractor payments by State for 2010 bridge replacement project.	61,702.49
35th Street Bridge – at Galesburg city limits (over Kalamazoo River), Project No. 220275. Construction engineering and contractor payment by State for 2008 rehabilitation project.	5,365.22
River Street Bridge – over Kalamazoo River, Project No. 220140. Design engineering and right-of-way for proposed replacement bridge.	52,169.65
Total Primary Bridge	130,988.90



36th Street Box Culvert Replacement – Pavilion/Climax Townships

- PRIMARY CONSTRUCTION
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION	TOTAL
Texas Drive – at 8 th Street, Project No. 110127. Final Accounting by State for 2010 construction project.	4,959.61
<hr/>	
Total Primary Construction	4,959.61



Texas Drive at 8th Street – Texas Township

- **PRIMARY ROAD**
- **PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION	TOTAL
2nd Street – G Avenue to DE Avenue, Project No. 380346. Crack seal.	9,622.83
2nd Street – Z Avenue to W Avenue, Project No. 380248. Crack seal and chip seal.	87,691.60
4th Street – Almena Drive to M-43, Project No. 380351. Crack seal.	1,850.55
6th Street – D Avenue to Ravine Road, Project No. 380249. HMA wedge and chip seal.	58,223.94
6th Street – I-94 to N Avenue, Project No. 380352. Crack seal.	3,084.24
8th Street – XY Avenue to W Avenue, Project No. 380352. Crack seal.	11,103.27
9th Street – M-43 to H Avenue, Project No. 380250. Chip seal.	39,915.56
11th Street – Stadium Drive to West Michigan Avenue, Project No. 380352. Crack seal.	2,037.08
12th Street – Texas Drive to Parkview Avenue, Project No. 380253. Crack seal.	8,019.03
12th Street – Q Avenue to Texas Drive, Project No. 380251. HMA wedge and Chip seal.	71,400.24
24th Street – Vicksburg Village Limit to V Avenue, Project No. 380333. Crack seal.	1,850.55
26th Street – East Michigan Avenue to Forest Harbor Drive, Project No. 380345. Crack seal.	6,168.48
26th Street – N Avenue to ML Avenue, Project No. 380252. Chip seal.	38,451.21
26th Street – TU Avenue to UV Avenue, Project No. 380338. Crack seal.	5,551.64
28th Street – MN Avenue to ML Avenue, Project No. 380254. Chip seal.	18,073.51
29th Street – T Avenue to MN Avenue, Project No. 380255. HMA wedge and chip seal.	134,097.73
32nd Street – M-43 to Baseline Road, Project No. 380256. Chip seal.	13,761.51
34th Street – Q Avenue to MN Avenue, Project No. 380323. Chip seal.	74,321.77
35th Street – MN Avenue to I-94, Project No. 380257. Chip seal.	32,156.39
36th Street – W Avenue to PQ Avenue, Project No. 380258. Chip seal.	141,524.36
40th Street – M-89 to Baseline Road, Project No. 380259. Chip seal.	93,808.75
40th Street – MN Avenue to East Michigan Avenue, Project No. 380260. HMA wedge and Chip seal.	48,745.32
42nd Street – Augusta village limits to M-89, Project No. 380261. Chip seal.	51,488.19

- **PRIMARY ROAD**
- **PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION	TOTAL
42nd Street – O Avenue to ON Avenue, Project No. 380340. Crack seal.	1,850.55
44th Street – Climax village limits to MN Avenue, Project No. 380262. Chip seal.	14,002.06
46th Street – Y Avenue to X Avenue and X Avenue – 46 th Street to 47 th Street and 47th Street – X Avenue to W Avenue, Project No. 380263. Chip seal.	43,718.86
D Avenue – Richland Village Limit to 30 th Street, Project No. 380347. Crack seal.	6,168.48
D Avenue – 37 th Street South to 37 th Street North, Project No. 38356. Crack seal.	2,467.39
DE Avenue – N. Sprinkle Road to 26 th Street, Project No. 380324. Chip seal.	14,451.45
G Avenue – 32nd Street to 36 th Street, Project No. 38355. Crack seal.	10,486.42
H Avenue – Drake Road to 10 th Street, Project No. 380266. Chip seal.	21,287.09
KL Avenue – 4 th Street to 11 th Street, Project No. 380264. Chip seal.	82,700.49
ML Avenue – River Street to 35 th Street, Project No. 380265. HMA wedge and Chip seal.	102,144.81
MN Avenue – 34 th Street to Mercury Drive, Project No. 380339. Crack seal.	25,108.19
N Avenue – 9 th Street to 11 th Street, Project No. 380266. Chip seal.	23,480.85
Q Avenue – Vankal Street to 6 th Street, Project No. 380267. Chip seal.	62,060.83
TU Avenue – S. Sprinkle Road to 27 th Street and 27th Street – TU Avenue to T Avenue and T Avenue – 27 th Street to 29 th Street, Project No. 380270, Crack seal and Chip seal.	57,393.54
U Avenue – US-131 to Oakland Drive, Project No. 380271. Chip seal.	33,187.59
V Avenue – 24 th Street east 540', Project No. 380334. Crack seal.	1,850.55
VW Avenue – Schoolcraft Village Limit to 18 th Street, Project No. 380337. Crack seal.	8,389.13
W Avenue – 4 th Street to 8 th Street, Project No. 380272. Chip seal.	44,606.91
W Avenue – 42 nd Street to 44 th Street, Project No. 380335. Crack seal.	16,038.05
W Avenue – 47 th Street to east county line, Project No. 380336. Crack seal.	3,084.24
XY Avenue – US-131 to Portage Road, Project No. 380273. Chip seal.	48,925.30
YZ Avenue – 27 th Street to 32 nd Street, Project No. 380274. Chip seal.	47,226.84
Augusta Drive – Augusta village limit to M-89, Project No. 380275. Chip seal.	63,122.82
Cork Street – S. Sprinkle Road to 26 th Street, Project No. 380284. Chip seal.	30,686.06
Drake Road – West Michigan Avenue to M-43, Project No. 380276. Chip seal.	96,043.13

- **PRIMARY ROAD**
- **PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION	TOTAL
East Gull Lake Drive – C Avenue to Baseline Road Project No. 380277. Chip seal.	60,354.70
Kendall Avenue – Kalamazoo City Limit to M-43, Project No. 38349. Crack seal.	1,850.55
Miller Drive – 1325' east of 35 th Street to 38 th Street, Project No. 380269. Chip seal.	26,390.26
Mt. Olivet Drive – G Avenue to Riverview Drive, Project No. 380348. Crack seal.	6,168.48
Portage Road – VW Avenue to Mandigo Avenue, Project No. 380278. Chip seal.	51,074.14
Solon Street – Kalamazoo City Limit to M-43, Project No. 38350. Crack seal.	1,850.55
Stadium Drive – 6 th Street to 8 th Street, Project No. 380284. Chip seal.	54,845.85
Ravine Road – Drake Road to Kalamazoo city limits. Project No. 380279. HMA wedge, crack seal and chip seal.	84,655.76
Ravine Road – C Avenue to north county line, Project No. 380280. Chip seal.	49,110.21
River Street – BL-94 to Comstock Avenue, Project No. 380343. Crack seal.	1,850.55
River Street – M-96 to East Michigan Avenue, Project No. 380344. Crack seal.	3,084.24
Riverview Drive – Mount Olivet Road to D Avenue, Project No. 380281. Crack seal and chip Seal.	71,130.48
N. Sprinkle Road – F Avenue to D Avenue, Project No. 380282. Chip seal.	62,108.51
N. Sprinkle Road – G Avenue to F Avenue, Project No. 380221. Chip seal.	39,223.16
N. Sprinkle Road – at H Avenue, Project No. 380342. Crack seal.	2,158.96
S. Sprinkle Road – Centre Street to Zylman Avenue, Project No. 380283. Crack seal and chip seal.	36,642.63
S. Sprinkle Road – Kilgore Road to I-94, Project No. 380341. Crack seal.	14,434.25
S. Sprinkle Road – V Avenue to S Avenue, Project No. 380332. Crack seal.	15,421.21
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Total Primary Preventive Maintenance	2,395,783.87

● LOCAL ROAD PARTICIPATION FUNDS

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The Board of County Road Commissioners determines, annually, the amount of local road participation funds that will be made available to each township. The distribution of the funds is based on township mileage and population and is determined on the same basis that local road fund money is distributed to the Board from the Michigan Transportation Fund.

Participation funds are made available to the townships for use on local road preservation-structural improvements, preventive maintenance, construction and special assessment projects. Townships, in order to receive local road participation funds, must match funds on a dollar-for-dollar basis.

Township	Allocation
Alamo	34,375.00
Brady	40,291.00
Charleston	19,062.00
Climax	33,578.00
Comstock	112,874.00
Cooper	78,659.00
Kalamazoo	136,640.00
Oshtemo	110,999.00
Pavilion	54,634.00
Prairie Ronde	38,405.00
Richland	56,561.00
Ross	50,179.00
Schoolcraft	41,071.00
Texas	108,951.00
Wakeshma	33,721.00
Total	950,000.00



L Avenue - Charleston Township

LOCAL ROAD TOWNSHIP CONTRIBUTIONS

Township	Preservation- Structural Imp. Contributions	Preventive Maintenance Contributions	Routine Maintenance Contributions	Special Assessment Contributions	Total Township Contributions
Alamo	4,432.53	23,019.00	1,589.70		29,041.23
Brady		35,466.96	4,178.17		39,645.13
Charleston	23,371.59		1,290.43		24,662.02
Climax	1,449.10	84,404.12	2,097.82		87,951.04
Comstock		30,371.07			30,371.07
Cooper	43,688.79	36,897.68			80,586.47
Kalamazoo	33,010.85		441.00		33,451.85
Oshtemo		154,540.44	882.00	12,309.28	170,731.70
Pavilion	53,770.71				53,770.71
Prairie Ronde	13,182.06	23,833.10	18,005.44		55,020.60
Richland	48,965.43	43,700.00	5,840.80		98,506.23
Ross		49,849.60	2,012.86		51,862.46
Schoolcraft	84,665.18	5,328.26			89,993.44
Texas	311,354.52	215,987.95			527,342.47
Wakeshma		86,677.67	7,901.75		94,579.42
Total	617,890.76	793,075.88	44,239.97	12,309.26	1,467,515.87

Preservation-Structural Improvement Contributions: Payments made by township for preservation-structural improvement projects

Preventive Maintenance Contributions: Payments made by township for preventive maintenance projects

Routine Maintenance Contributions: Payments made by township for dust control, and miscellaneous

Special Assessment Contributions: Payments made by township for special assessment projects



Country Club Village Special Assessment – Oshtemo Township

- **LOCAL ROAD PROJECT SUMMARY EXPENDITURES**
- **Preservation – Structural Improvements and Preventive Maintenance Expenditures**
- Including Administrative and Equipment Allocations

Township	Local Preventive Maintenance	Local Preservation Structural Improvements	Total Township Projects
Alamo	48,332.08	9,437.72	57,769.80
Brady	74,182.55	0.00	74,182.55
Charleston	0.00	45,174.64	45,174.64
Climax	122,335.13	9,117.06	131,452.19
Comstock	62,216.80	0.00	62,216.80
Cooper	77,693.20	163,308.22	241,001.42
Kalamazoo	0.00	0.00	0.00
Oshtemo	414,487.96	0.00	414,487.96
Pavilion	0.00	114,488.21	114,488.21
Prairie Ronde	49,739.89	28,067.15	77,807.04
Richland	61,274.24	105,798.92	167,073.16
Ross	96,466.60	0.00	96,466.60
Schoolcraft	10,166.48	128,927.26	139,093.74
Texas	274,633.36	409,362.58	683,995.94
Wakeshma	126,804.53	0.00	126,804.53
Total	1,418,332.82	1,013,681.76	2,432,014.58

Preservation-Structural Improvements: Roadwork, including placing a hard surface on a gravel road, reconstructing an existing road or bridge, resurfacing a road with HMA overlay or installing new culverts or catch basins.

Preventive Maintenance: Roadwork, including chip sealing, pavement crack filling, and wedging to preserve roads by retarding surface deterioration.



Chip Seal Operation – Oshtemo Township

- **LOCAL ROAD PRESERVATION**
- **STRUCTURAL IMPROVEMENTS AND PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION	PREVENTIVE MAINTENANCE	STRUCTURAL IMPROVEMENT
• ALAMO TOWNSHIP ~ 38.59 Local Road Miles		
DE Avenue – 2 nd Street to 5 th Street, Project No. 680217. Crack seal.	6,590.57	
Owen Drive – 6 th Street to F Avenue, Project No. 680218. Crack seal and chip seal.	36,349.23	
Owen Drive – Hart Drive to Ravine Road, Project No. 680230. Crack seal.	5,392.28	
Owen Drive – Ravine Road to D Avenue, Project No. 510235. Crack seal and multiple HMA wedges.		9,437.72
TOWNSHIP TOTALS	48,332.08	9,437.72

• BRADY TOWNSHIP ~ 44.04 Local Road Miles		
29th Street – XY Avenue to WX Avenue and WX Avenue – 29 th Street to 29 th Street and 29th Street – WX Avenue to W Avenue, Project No. 680320. HMA wedges at multiple locations and chip seal.	54,301.95	
UV Avenue – S. Sprinkle Road east 2025', Project No. 680322. HMA wedges at multiple locations and chip seal.	18,219.91	
XY Avenue – 32 nd Street east 3950', Project No. 680321. Crack seal.	1,660.69	
TOWNSHIP TOTALS	74,182.55	0.00

• CHARLESTON TOWNSHIP ~ 22.65 Local Road Miles		
L Avenue – 38 th Street east 3700', Project No. 510226. HMA overlay and gravel shoulders. In 2010 this section of road was pulverized and HMA base was applied.		45,174.64
TOWNSHIP TOTALS	0.00	45,174.64

• CLIMAX TOWNSHIP ~ 46.40 Local Road Miles		
37th Street – Between T Avenue and S Avenue, Project No. 510236. Culvert replacement.		9,117.06

- **LOCAL ROAD PRESERVATION**
- **STRUCTURAL IMPROVEMENTS AND PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION (Climax Township – Continued)	PREVENTIVE MAINTENANCE	STRUCTURAL IMPROVEMENT
OP Avenue – 44 th Street to 47 th Street, Project No. 680294. Crack seal and chip seal.	27,936.01	
S Avenue – 43rd Street to 48 th Street, Project No. 680295. Crack seal and chip seal.	53,437.26	
RS Avenue – 39 th Street to 43rd Street, Project No. 680296. Crack seal and chip seal.	40,961.86	
TOWNSHIP TOTALS	122,335.13	9,117.06

• **COMSTOCK CHARTER TOWNSHIP ~ 74.76 Local Road Miles**

Dawes Avenue – 26 th Street east 1070', Project No. 680299. Chip seal.	5,024.80	
Frederick Street – Comstock Avenue north 690', Project No. 680298. Chip seal.	2,701.40	
Knight Street – Comstock Avenue north 670', Project No. 680300. Chip seal.	2,679.25	
Larch Avenue – 95' south of Ripley Street to Comstock Avenue and Azuba Avenue – Ripley Street to Comstock Avenue and Harway Avenue – 254' south of Ripley Street to Comstock Avenue and Ripley Street – 140' west of Larch Avenue to Harway Avenue, Project No. 680301. Chip seal.	17,173.76	
Ferris Street – 351' south of Higgins Avenue to Comstock Avenue and Alger Street – 318' south of Higgins Avenue to Comstock Avenue and Blair Street – 317' south of Higgins Avenue to Comstock Avenue and Pingree Street – 356' south of Higgins Avenue to Comstock Avenue and Sleeper Street – 290' south of Higgins Avenue to Comstock Avenue and Marine Court – Comstock Avenue south 316' and Higgins Avenue – Ferris street to River Street, Project No. 680303. Chip seal.	29,758.56	
Rystock Drive – Comstock Avenue north 530', Project No. 680297. Chip seal.	2,103.65	
Sullivan Drive – Comstock Avenue north 645', Project No. 680302. Chip seal.	2,775.38	
TOWNSHIP TOTALS	62,216.80	0.00

- **LOCAL ROAD PRESERVATION**
- **STRUCTURAL IMPROVEMENTS AND PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION	PREVENTIVE MAINTENANCE	STRUCTURAL IMPROVEMENT
• COOPER CHARTER TOWNSHIP ~ 62.83 Local Road Miles		
22nd Street – B Avenue to Baseline Road, Project No. 510229. HMA wedge.		22,735.38
B Avenue – Douglas Avenue to 17 th Street, Project No. 680227. HMA wedge and chip seal.	38,196.14	
G Avenue – 14 th Street (Nichols Road) to Old Douglas Avenue, Project No. 510228. HMA overlay and gravel shoulders. <i>Project shared with Kalamazoo Township. \$70,286.42</i>		140,572.84
Baseline Road – Riverview Drive to 22 nd Street, Project No. 680237. HMA wedge and chip seal.	39,497.06	
TOWNSHIP TOTALS	77,693.20	163,308.22

• **KALAMAZOO CHARTER TOWNSHIP** ~ 74.59 Local Road Miles

G Avenue – 14th Street (Nichols Road) to Old Douglas Avenue, HMA overlay and gravel shoulders. *Project shared with Cooper Township. \$70,286.42*

TOWNSHIP TOTALS	0.00	0.00
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• **OSHTEMO CHARTER TOWNSHIP** ~ 74.43 Local Road Miles

H Avenue – 2nd Street to 6th Street, Project No. 680313. Chip seal. 30,702.48

J Avenue – Vankal Street to 2nd Street, Project No. 680310. Chip seal. 20,136.88

KL Avenue – Vankal Street to Almena Drive, Project No. 680309. Crack seal and chip seal. 16,175.35

Antiqua Circle – 11th Street east 790' and **Tropicana Street** – Brandy Avenue to Antiqua Circle and **Brandy Avenue** – Tropicana Street to Fountain Square Drive and **Fountain Square Drive** – 175' south of Brandy Avenue to Sweet Briar Drive and Caribia Avenue – Fountain Square Drive south 180', Project No. 680304. Curb repair and chip seal. 23,893.87

Baton Rouge Avenue – Belle Chase Boulevard to 8th Street and **Bayou Vista Street** – Saint Charles Place to Belle Chase Boulevard and **Belle Chase Boulevard** – 160' south of Saint Charles Place to Baton Rouge Avenue and **Cajun Drive** – 160' west of Belle Chase Boulevard to Belle Chase Boulevard and **Saint Charles Place** – 8th Street west 1325', Project No. 680308. HMA wedge and chip seal. 48,340.93

- **LOCAL ROAD PRESERVATION**
- **STRUCTURAL IMPROVEMENTS AND PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION (Oshtemo Township – continued)	PREVENTIVE MAINTENANCE	STRUCTURAL IMPROVEMENT
Carver Drive – N Avenue north 2100’ and Wilson Drive – Carver Drive west 500’, Project No. 680312. Chip seal.	12,648.00	
Carver Drive – N Avenue north 2100’ and Wilson Drive – Carver Drive west 500’, Project No. 560195. Special assessment micro seal.	14,756.44	
Josiane Drive – Rosemary Lane south 990’ and Rosemary Lane – Lisa Drive to 2 nd Street and Lisa Drive – Rosemary Lane north 160’, Project No. 680315. Crack seal.	1,797.43	
Lodge Lane – Horizon Heights Drive to West Main Street and Club View Drive – Horizon Heights Drive to Lodge Lane and West Ridge Circle – Horizon Heights Drive to East Ridge Circle and East Ridge Circle – West Ridge Circle to Valley View Drive and High Crest Drive – Horizon Heights Drive to Valley View Drive and Horizon Heights Drive – West Ridge Circle to Club View Drive and Shadywood Drive – Horizon Heights Drive to Club View Drive and Sunrise Circle – Shadywood Drive north 400’ and Fairway Circle – Club View Drive west 575’ and Scenic Way Drive – Echo Hills Drive to Winding Wood Drive and Echo Hills Drive – Scenic Way Drive to South Manorwood Drive and South Manorwood Drive – Echo Hills Drive to Windingwood Drive and Valley View Drive – High Crest Drive to Club View Drive and Windingwood Drive – Scenic Way Drive to Club View Drive and Woodlane Drive – Manorwood Drive to Horizon Heights Drive, Project No. 680307. HMA wedge and chip seal.	76,316.41	
Lodge Lane – Horizon Heights Drive to West Main Street and Club View Drive – Horizon Heights Drive to Lodge Lane and West Ridge Circle – Horizon Heights Drive to East Ridge Circle and East Ridge Circle – West Ridge Circle to Valley View Drive and High Crest Drive – Horizon Heights Drive to Valley View Drive and Horizon Heights Drive – West Ridge Circle to Club View Drive and Shadywood Drive – Horizon Heights Drive to Club View Drive and Sunrise Circle – Shadywood Drive north 400’ and Fairway Circle – Club View Drive west 575’ and Scenic Way Drive – Echo Hills Drive to Winding Wood Drive and Echo Hills Drive – Scenic Way Drive to South Manorwood Drive and South Manorwood Drive – Echo Hills Drive to Windingwood Drive and Valley View Drive – High Crest Drive to Club View Drive and Windingwood Drive – Scenic Way Drive to Club View Drive and Woodlane Drive – Manorwood Drive to Horizon Heights Drive, Project No. 560196. Special assessment micro seal.	100,229.51	
Olde Forest Drive – 48’ south of Greystone Road to 424’ north of Greystone Road, Project No. 560253. Special assessment micro seal.	6,403.43	
Red Bud Trail – Rose Arbour Avenue north 455’ and Bramble Drive – Rose Arbour Avenue to H Avenue and Chesapeake Drive – Windrift Avenue to Rose Arbour Avenue, Project No. 680306. Curb repair and chip seal.	20,242.39	

- **LOCAL ROAD PRESERVATION**
- **STRUCTURAL IMPROVEMENTS AND PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION (Oshtemo Township – continued)	PREVENTIVE MAINTENANCE	STRUCTURAL IMPROVEMENT
Sundowner Lane – 11 th Street to Sweet Briar Drive and Sweet Briar Drive – 11 th Street to 326' east of Fountain Square Drive, Project No. 680305. Crack seal.	2,995.71	
Wickford Drive –M-43 to J Avenue, Project No. 680311. Chip seal.	16,778.08	
Wolf Drive –Vankal Street to G Avenue, Project No. 680314. Chip seal.	23,071.05	
TOWNSHIP TOTALS	414,487.96	0.00

• **PAVILION TOWNSHIP** ~ 48.35 Local Road Miles

ON Avenue – 28 th Street to 29 th Street, Project No. 510271. HMA overlay and gravel shoulders.		68,488.62
28th Street – O Avenue to ON Avenue, Project No. 510272. HMA overlay and gravel shoulders.		45,999.59
TOWNSHIP TOTALS	0.00	114,488.21

• **PRAIRIE RONDE TOWNSHIP** ~ 52.11 Local Road Miles

YZ Avenue – 6 th Street east 6795', Project No. 510293. Multiple HMA wedges.		28,067.15
YZ Avenue – 120' east of Prairie Brook Drive to 3535' east of Prairie Brook Drive, Project No. 680317. Chip seal.	11,430.63	
XY Avenue – 2 nd Street to 6 th Street, Project No. 680316. Chip seal.	38,309.26	
TOWNSHIP TOTALS	49,739.89	28,067.15

• **RICHLAND TOWNSHIP** ~ 49.24 Local Road Miles

27th Street – M-43 to F Avenue, Project No. 680219. HMA wedge and chip seal.	26,112.76	
30th Street – M-89 to AB Avenue, Project No. 510234. Pulverize, gravel work and dust control.		52,564.46
35th Street – G Avenue to DE Avenue, Project No. 680331. Crack seal.	17,884.40	

- **LOCAL ROAD PRESERVATION**
- **STRUCTURAL IMPROVEMENTS AND PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION (Richland Township – continued)	PREVENTIVE MAINTENANCE	STRUCTURAL IMPROVEMENT
36th Street – G Avenue to FG Avenue, Project No. 680240. HMA wedge and chip seal. <i>Project shared with Ross Township.</i> \$8,638.54	17,277.08	
F Avenue – 27 th Street west 2890', Project No. 510232. HMA overlay and gravel shoulders.		53,234.46
TOWNSHIP TOTALS	61,274.24	105,798.92

• **ROSS TOWNSHIP** ~ 53.53 Local Road Miles

36th Street – G Avenue to FG Avenue, Project No. 680240. HMA wedging and chip seal. <i>Project shared with Richland Township.</i> \$8,638.54		
B Avenue – 45 th Street to 48 th Street, Project No. 680238. Chip seal.	26,946.51	
Baseline Road – 45 th Street to 47 th Street, Project No. 680239. Chip seal.	11,113.38	
38th Street – M-89 south 8600', Project No. 680241. Project No. 680241. Chip seal.	30,185.43	
47th Street – B Avenue to Baseline Road, Project No. 680242. 680197. HMA wedges and Chip seal.	13,952.88	
Yorkshire Drive – 37 th Street east 2600', Project No. 680243. Chip seal.	11,891.26	
Avery Street – South Gull Lake Drive east 174' and Green Avenue – South Gull Lake Drive east 163' and Lewis Street – Avery Street to Green Avenue, Project No. 680244. Chip seal.	2,377.14	
TOWNSHIP TOTALS	96,466.60	0.00

• **SCHOOLCRAFT TOWNSHIP** ~ 36.18 Local Road Miles

22nd Street – U Avenue south 2620', Project No. 510225. HMA Overlay and gravel shoulders.		54,692.55
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- **LOCAL ROAD PRESERVATION**
- **STRUCTURAL IMPROVEMENTS AND PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION (Schoolcraft Township – continued)	PREVENTIVE MAINTENANCE	STRUCTURAL IMPROVEMENT
YZ Avenue – 850’ east of 15 th Street to 16 th Street, Project No. 510285. HMA Overlay and gravel shoulders.		74,234.71
Stonecrest Avenue – Portage Road to Meadow Street and Fayette Street – Stonecrest Avenue to Meadow Street and Meadow Street – Fayette Street to Rapp Avenue and Rapp Avenue – Stonecrest Avenue to Meadow Street, Project No. 680318. Chip seal.	10,166.48	
TOWNSHIP TOTALS	10,166.48	128,927.26

• **TEXAS CHARTER TOWNSHIP** ~ 89.34 Local Road Miles

10th Street – S Avenue to R Avenue, Project No. 680328. Crack seal.	4,793.66	
PQ Avenue – 4 th Street to 5 th Street, Project No. 680221. Chip seal.	7,315.79	
PQ Avenue – West county line to 3 rd Street, Project No. 680223. Chip seal.	22,879.41	
R Avenue – 8 th Street to 12 th Street, Project No. 680327. Crack seal.	12,160.94	
R Avenue – Vankal Street to 8 th Street, Project No. 680224. HMA wedge and chip seal.	125,332.63	
RS Avenue – 2 nd Street to 6 th Street, Project No. 680222. Chip seal.	26,055.77	
RS Avenue – Vankal Avenue to 2 nd Street, Project No. 680329. Crack seal.	9,330.46	
S Avenue – 8 th Street to 12 th Street, Project No. 680330. Crack seal.	9,783.33	
Crestview Drive – 5 th Street to Fieldwood Point and Fieldwood Point – Crestview Drive south 230’ and Fieldwood Circle – Crestview Drive North 214’, Project No. 510337. HMA overlay.		47,965.95
Eagle Heights Drive – PQ Avenue north 1590’’, Project No. 510338. HMA Overlay.		42,789.59
Eagle Terrace – PQ Avenue north 710’, Project No. 510240. HMA Overlay.		23,749.73

- **LOCAL ROAD PRESERVATION**
- **STRUCTURAL IMPROVEMENTS AND PREVENTIVE MAINTENANCE**
- Including Administrative and Equipment Allocations

PROJECT DESCRIPTION (Texas Township – continued)	PREVENTIVE MAINTENANCE	STRUCTURAL IMPROVEMENT
Glade Trail – Windsong Way to 8 th Street and Windsong Way – Gladeview Drive to Glade Trail and Gladeview Drive – Windsong Way to Hobblesh Lane and Hobblesh Lane – Gladeview Drive Lakeridge Place and Lakeridge Place – Glade Trail south 1015', Project No. 510231. HMA overlay.		117,333.76
Paw Paw Lake Drive – 9000' south of S Avenue to RS Avenue, Project No. 680220. HMA wedge and chip seal.	43,447.94	
Pennycress Lane – P Avenue to 1 st Street and Chicory Trail – Pennycress Avenue to 1 st Street, Project No. 680326. Crack seal.	13,533.43	
Percheron Street – Q Avenue to Belgium Avenue and Belgian Avenue – 344' west of Percheron Street to 95' west of Clydesdale Avenue and Clydesdale Avenue – Percheron Street east 145', Project No. 510340. HMA overlay.		79,669.88
Pine Island north – Finnagen Street west 1000' and Pine Island south – Finnagen Street west 970', Project No. 510337. HMA overlay.		59,395.92
Stoney Brook Road – 10 th Street to Braeburn Court, Project No. 510230. HMA overlay and gravel shoulders.		38,457.75
TOWNSHIP TOTALS	274,633.36	409,362.58
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• WAKESHMA TOWNSHIP ~ 47.52 Local Road Miles		
47th Street – W Avenue to UV Avenue, Project No. 680319. Pulverize, trench widening, gravel and double seal.	126,804.53	
TOWNSHIP TOTALS	126,804.53	0.00
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Total Local Road Preventive Maintenance And Preservation Structural Improvements	1,418,332.82	1,013,681.76

- **LOCAL ROAD ROUTINE MAINTENANCE EXPENDITURES**
- **AND REVENUES**
- Including Administrative and Equipment Allocations

Township	Michigan Transportation Fund Revenues	Township Revenue for Maintenance	Total Revenue for Maintenance	Less Maintenance Expenditures	Difference By Township
Alamo	98,179.85	1,578.70	99,769.55	113,374.49	13,604.94
Brady	115,062.64	4,178.17	119,240.81	276,208.86	159,968.05
Charleston	55,098.67	1,290.43	56,389.10	91,986.42	35,597.32
Climax	87,259.72	2,097.82	89,357.54	193,888.27	104,530.73
Comstock	371,511.33	0.00	371,511.33	196,486.39	(175,024.94)
Cooper	257,386.82	0.00	257,386.82	194,579.18	(62,807.64)
Kalamazoo	459,887.15	441.00	460,328.15	511,512.44	51,184.29
Oshtemo	412,440.12	882.00	413,322.12	285,881.34	(127,440.78)
Pavilion	169,054.10	0.00	169,054.10	182,538.02	13,483.92
Prairie Ronde	101,758.12	18,005.44	119,763.56	174,503.15	54,739.59
Richland	181,180.79	5,840.80	187,021.59	169,770.95	(17,250.64)
Ross	139,114.54	2,012.86	141,127.40	253,772.69	112,645.29
Schoolcraft	127,524.96	0.00	127,524.96	69,684.13	(57,840.83)
Texas	373,102.20	0.00	373,102.20	310,646.39	(62,455.81)
Wakeshma	84,618.41	7,901.75	92,520.16	332,504.94	239,984.78
Total	3,033,179.42	44,239.97	3,077,419.39	3,357,337.66	279,918.27

Local road routine maintenance includes winter snow removal, roadside mowing, pavement marking, traffic signal maintenance, dust control, gravel road grading, pot-hole repair, etc.

The chart above represents, for 2011, the total revenue collected less the total expenditures to arrive at either a deficit or surplus, by township, for the local road routine maintenance activities. The MTF (Michigan Transportation Fund) revenue received includes local mileage, local urban mileage, and a factor for population. KCRC receives MTF as a collective amount based on the county as a whole. This data is presented for illustrative purposes only, and reflects the expenditures by township outside of annual projects. As you can see, KCRC must annually apply primary road dollars to cover the deficit for local road routine maintenance expenditures. Please note weather and other issues may result in activity expenditures varying across the county.



Shoulder Maintenance Operation – Charleston Township

- ROUTINE MAINTENANCE EXPENDITURES
- For Calendar Year Ending December 31, 2011
- Including Administrative and Equipment Allocations

	2011		2010		
	Cost	Average Cost Per Mile	Cost	Average Cost Per Mile	Increase (Decrease) Per Mile
PRIMARY ROAD SYSTEM	449.28 Miles		449.18 Miles		
Surface Maintenance	601,771.74	1,339.71	543,943.80	1,209.97	129.74
Roadside Maintenance	553,059.63	1,231.27	853,987.57	1,901.23	(669.96)
Traffic Control	477,908.30	1,063.96	510,953.00	1,137.52	(73.56)
Winter Maintenance	883,279.66	1,966.42	885,827.97	1,972.09	(5.67)
Total	2,516,019.33	5,601.36	2,794,262.34	6,220.81	(619.45)
LOCAL ROAD SYSTEM	814.58 Miles		814.56 Miles		
Surface Maintenance	1,584,085.57	1,944.71	1,796,364.73	2,205.32	(260.61)
Roadside Maintenance	724,396.02	889.31	920,989.39	1,130.66	(241.35)
Traffic Control	246,573.89	302.71	134,811.75	165.50	137.21
Winter Maintenance	802,282.18	984.93	831,308.59	1,020.56	(35.63)
Total	3,357,337.66	4,121.66	3,683,474.46	4,522.04	(400.38)



2011 Storm Damage – Schoolcraft Township

ASSETS

General Operating Fund

Cash Account		3,254,426.43	
Interest Bearing Deposits		2,599,151.96	
Accounts Receivable:			
Michigan Transportation Fund	2,050,117.44		
Due on County Road Agreements	283,995.11		
Due on Special Assessments	127,457.11		
Sundry Accounts Receivable	17,584.55	2,479,154.21	
Inventories:			
Equipment Material	37,665.75		
Road Material	837,162.48	874,828.23	
Advances - Township		42,525.87	
Prepaid Insurance		107,242.50	
Deferred Expense - STP, Safety, Critical Bridge		210,488.07	
Total General Operating Assets			9,567,817.27

FIXED ASSET GROUP 112,694,372.98

TOTAL ASSETS 122,262,190.25

LIABILITIES AND FUND EQUITIES

Accounts Payable		740,359.18	
Accrued Liability		84,847.62	
Deferred Revenue - Special Assessment		127,457.11	
Kalamazoo Area Transportation Study		93,910.13	
Advances: Townships		42,525.87	
Available Operating Equity:			
Primary Road - Reserved	6,104,281.55		
Local Road - Reserved	0.00		
Road Commission	2,374,435.81	8,478,717.36	
Total General Operating Liabilities and Equity			9,567,817.27

FIXED ASSET GROUP

Plant and Equipment Equity 112,694,372.98

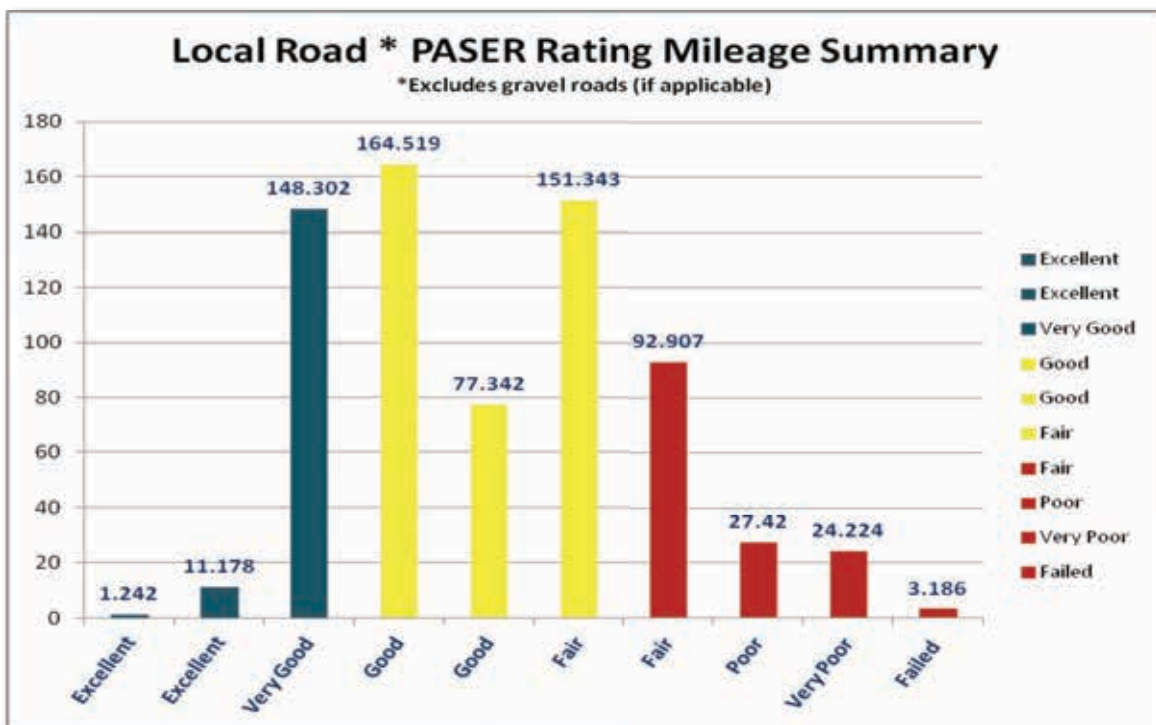
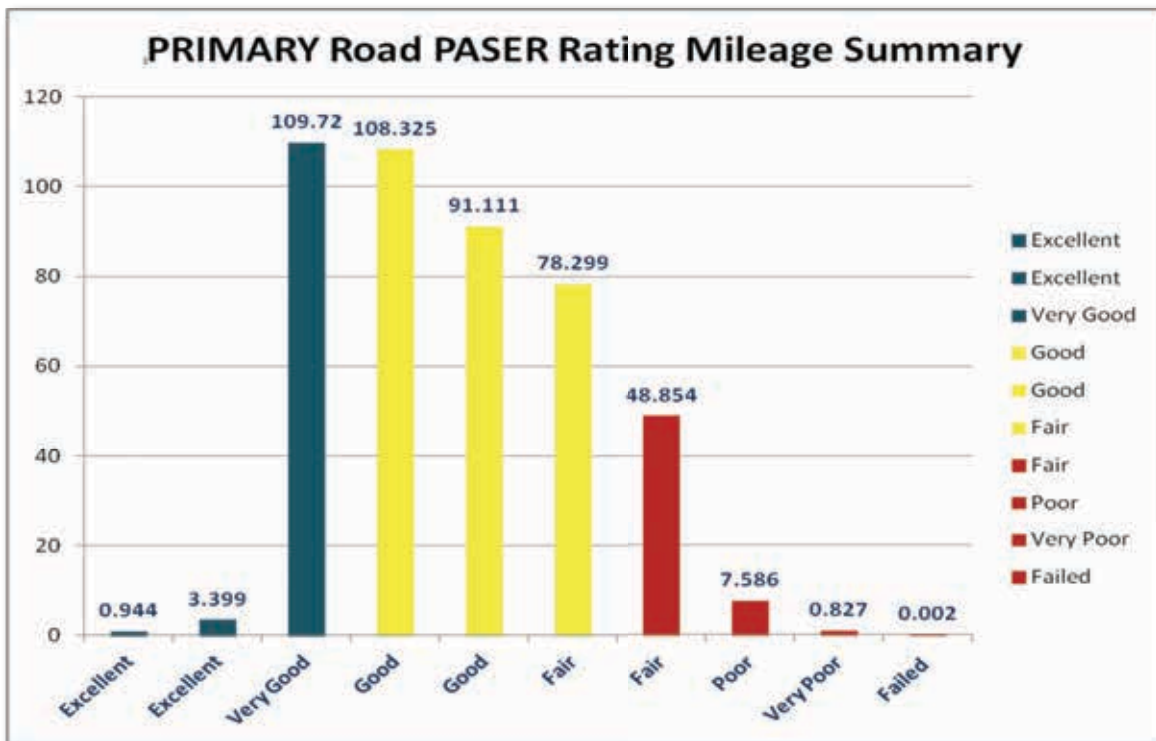
TOTAL LIABILITIES AND FUND EQUITIES 122,262,190.25

- **STATEMENT OF REVENUES AND EXPENDITURES**
- **For Calendar Year Ending December 31, 2011**
- Including Administrative and Equipment Allocations

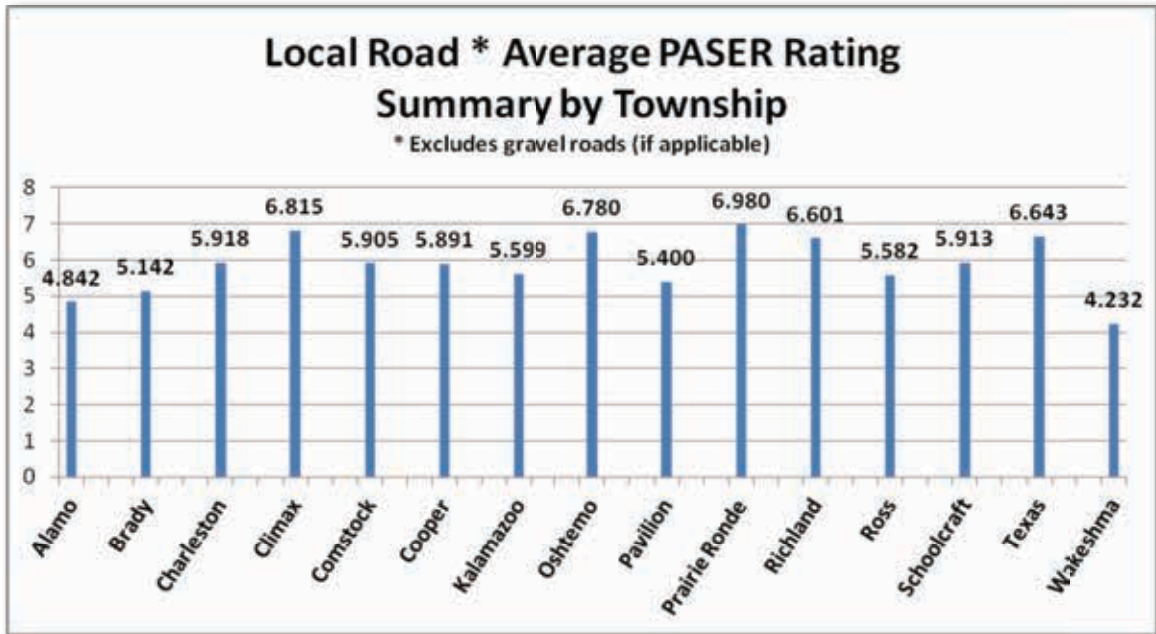
	Primary Road Fund	Local Road Fund	Road Commission Fund	Total
REVENUE				
Michigan Transportation Fund	9,714,737.65	3,031,261.88	0.00	12,745,999.53
Optional Transfer	(1,111,138.53)	1,111,138.53	0.00	0.00
Critical Bridge Fund	62,665.13	0.00	0.00	62,665.13
Snow Removal Fund	1,056.38	1,917.54	0.00	2,973.92
Other State Revenue	2,341.20	830.41	0.00	3,171.61
Economic Development Fund	221,842.23	0.00	0.00	221,842.23
Federal Revenue	2,278,144.38	0.00	0.00	2,278,144.38
County Raised Revenue	96,765.69	1,528,142.11	26,087.92	1,650,995.72
Gain on Disposal of Equipment	0.00	0.00	3,340.03	3,340.03
Contributions from Private Sources	0.00	361,712.00	0.00	361,712.00
Special Assessment Districts	0.00	76218.32	0.00	76,218.32
Miscellaneous Revenue	10,075.10	1,417.63	(46,493.31)	(35,000.58)
Total Revenue	11,274,148.03	6,111,808.01	(17,065.36)	17,368,890.68
EXPENDITURES				
Construction/Capacity Improvement	4,665.23	361,712.00	0.00	366,377.23
Preservation - Structural Improvement	4,610,758.90	1,068,567.86	0.00	5,679,326.76
Routine and Preventive Maintenance	4,620,264.52	4,377,159.03	0.00	8,997,423.55
Other: Non-Motorized Pathway	0.00	0.00	78,035.61	78,035.61
Administration	582,718.70	366,415.91	0.00	949,134.61
Interest Expense	0.00	0.00	0.00	0.00
Equipment Account	(52,032.02)	(62,046.79)	(2,686.01)	(116,764.82)
	9,766,375.33	6,111,808.01	75,349.60	15,953,532.94
Non-Operating Expenditures				
* Net Capital Outlay	0.00	0.00	45,528.21	45,528.21
Total Expenditures	9,766,375.33	6,111,808.01	123,877.81	16,002,061.15
Increase (Decrease) in Available Operating Fund	1,507,772.70	0.00	(140,943.17)	1,366,829.53
Total Allocated Expenditures	11,274,148.03	6,111,808.01	(17,065.36)	17,368,890.68

*Net Capital Outlay - Expenditures less depreciation and depletion.

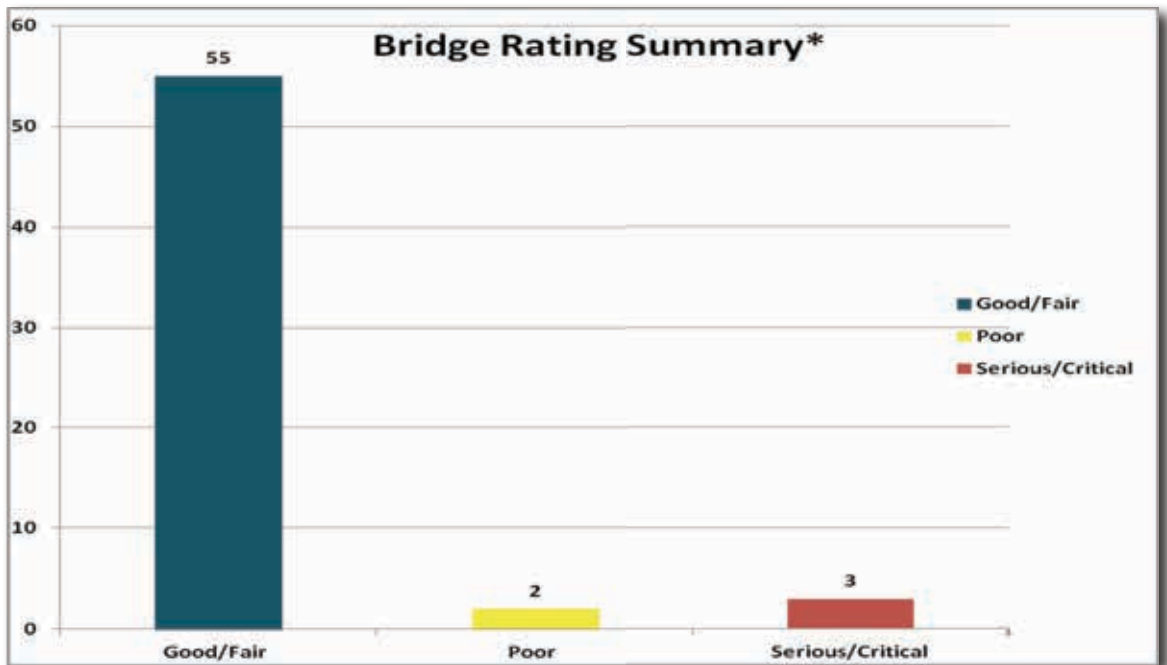
- Asset Management Paser Rating Summary
- 2011
-



● Local Road Average PASER Rating Summary
● 2011
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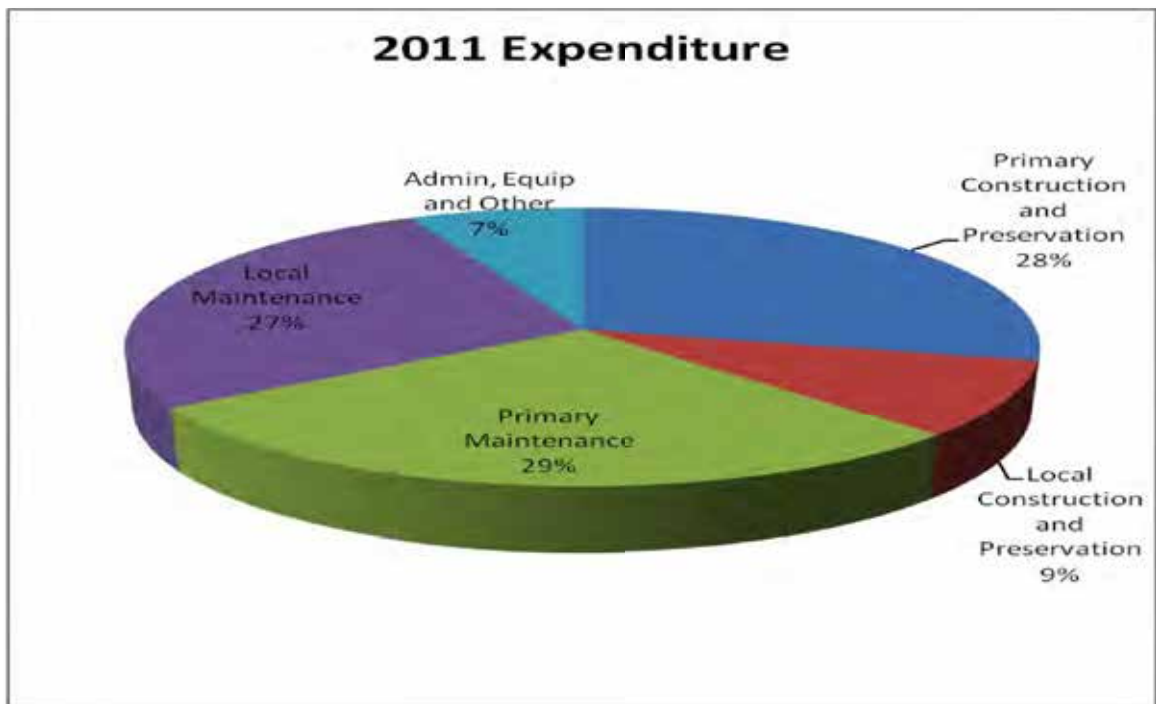
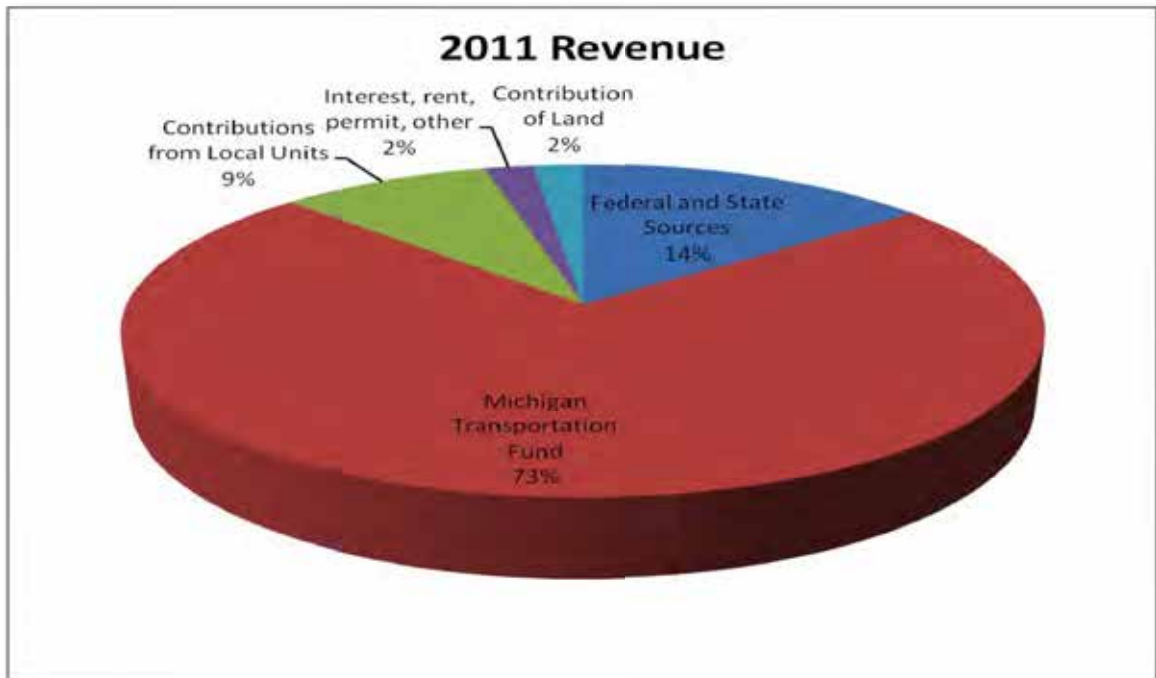


● Bridge Rating Summary
● 2011
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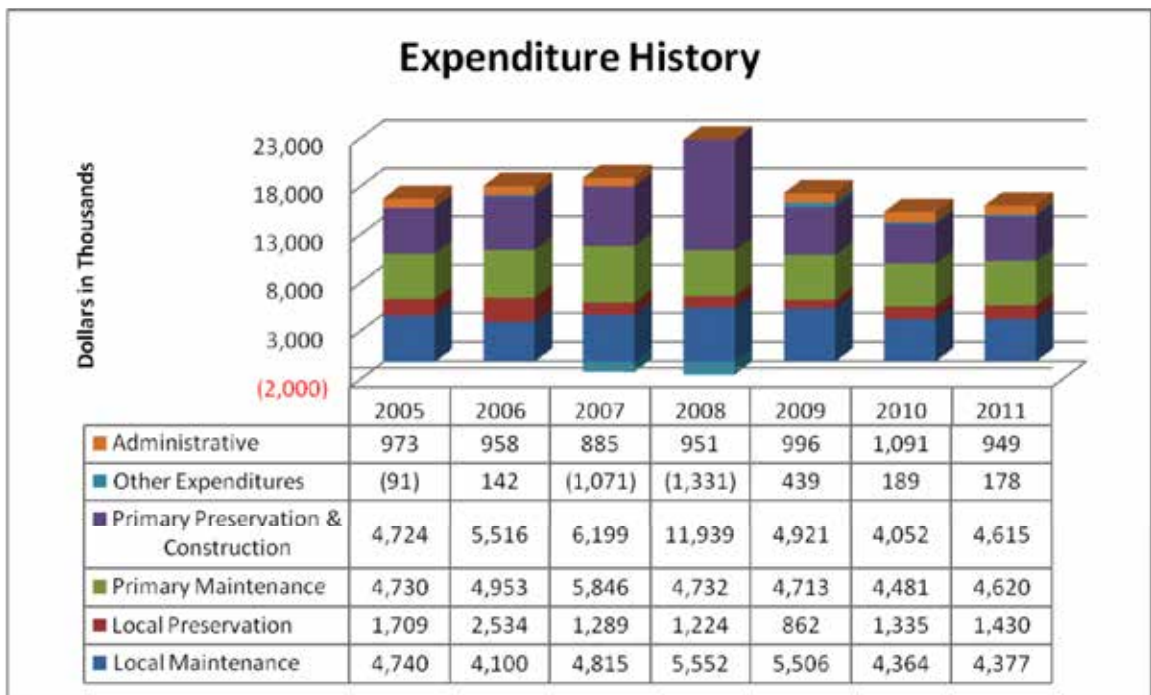
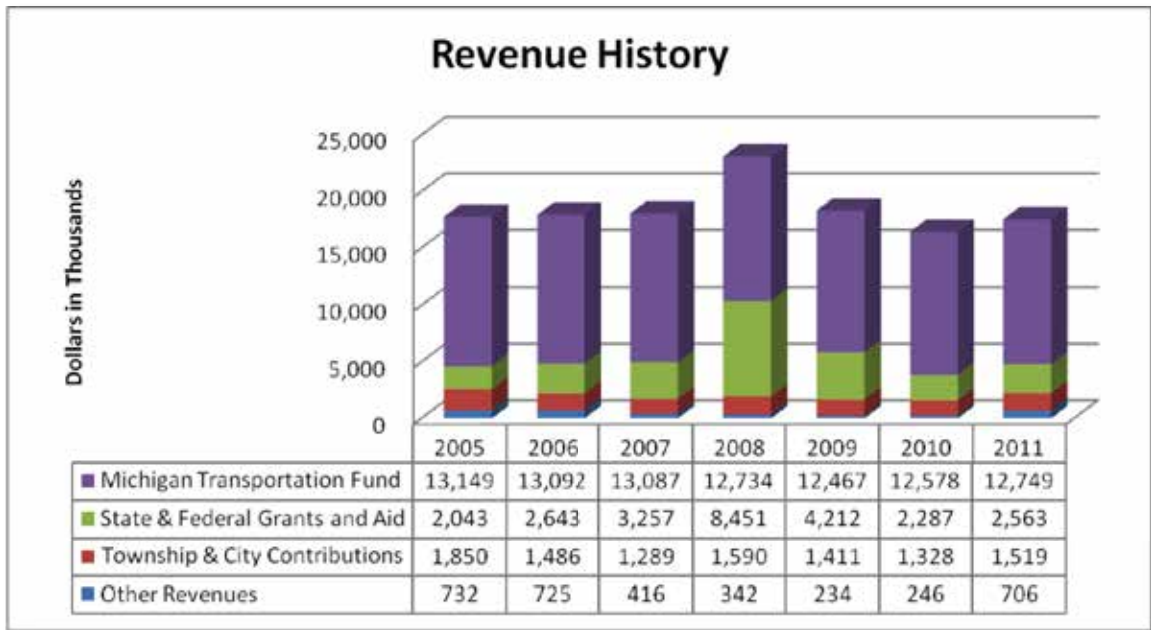


* 6 of the 60 Bridges are noted as Structurally Deficient

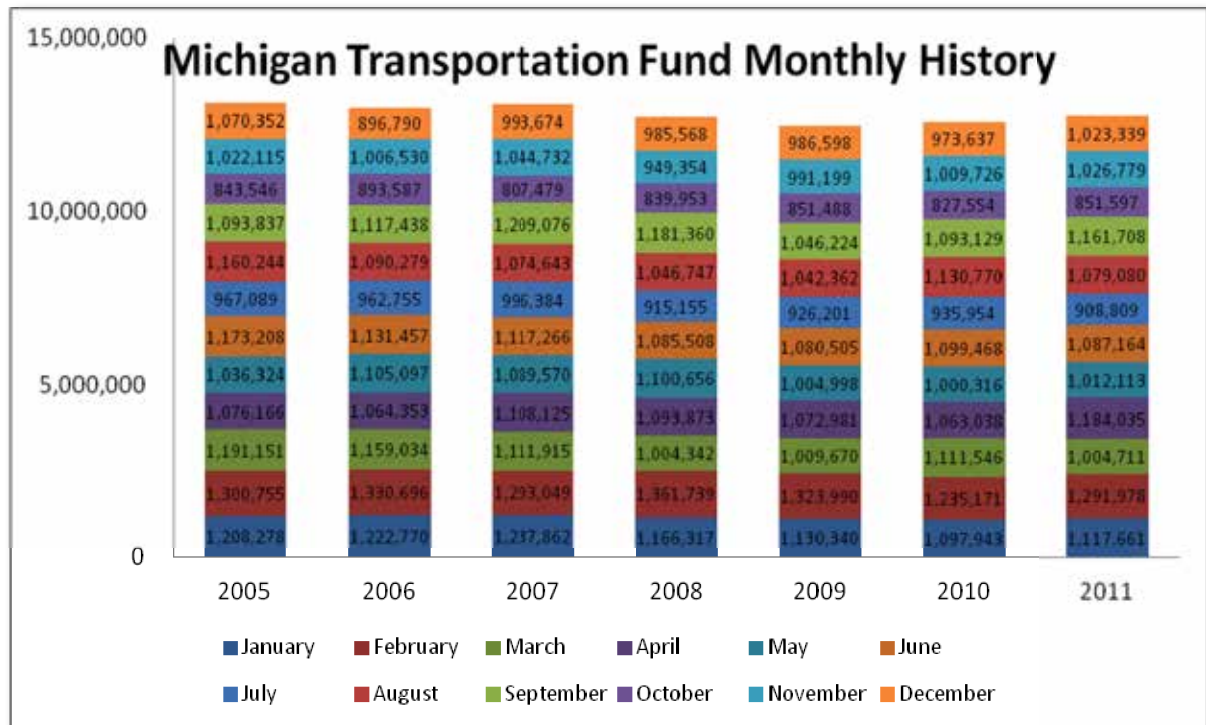
● Revenues and Expenditures
2011
●



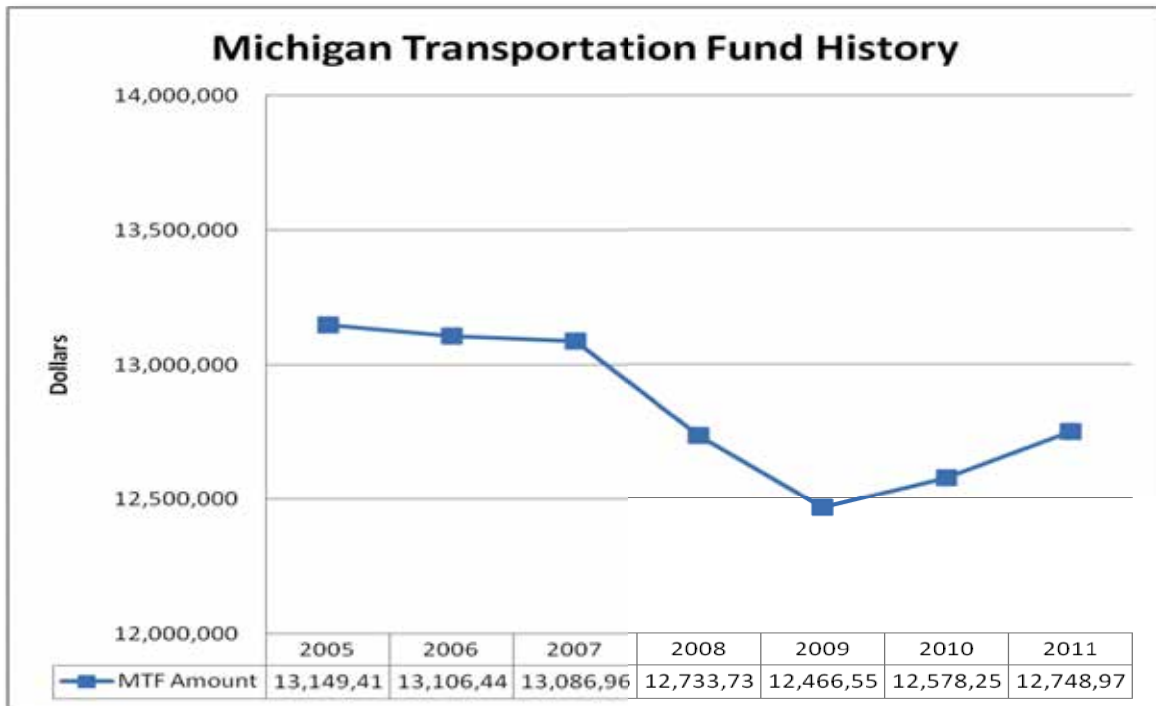
- **Revenue and Expenditure History**
- 2005 thru 2011
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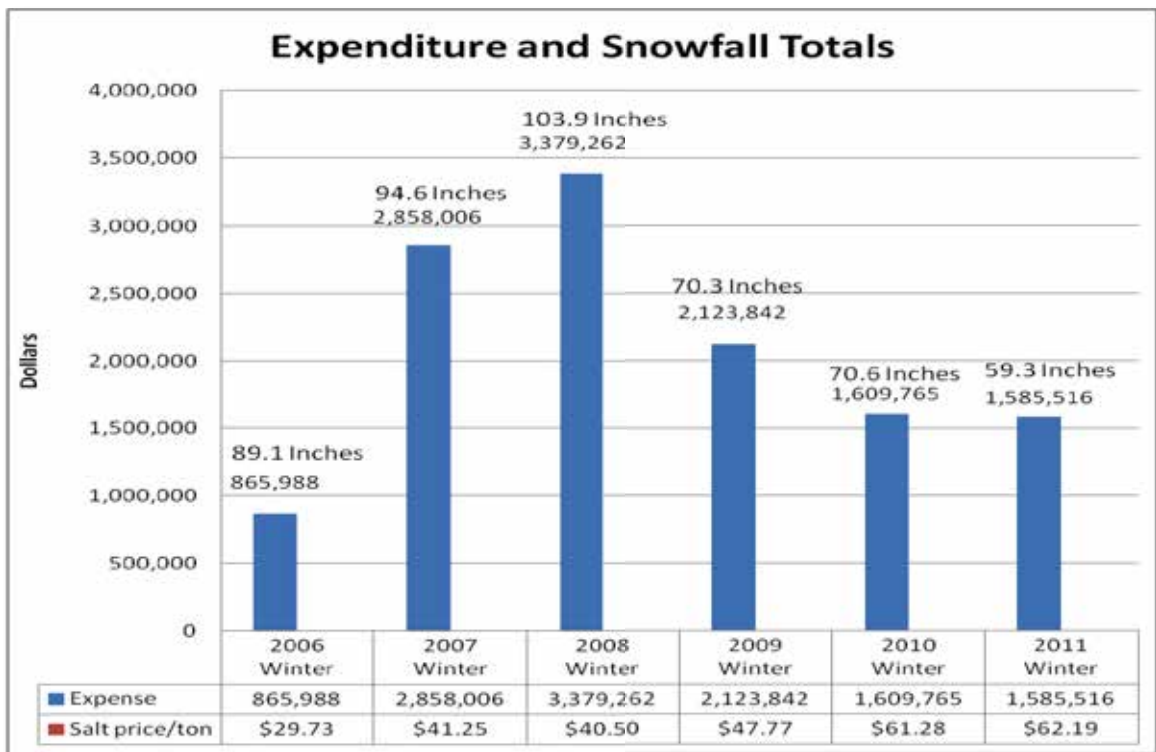
- Michigan Transportation Fund Monthly History
- 2005 thru 2011
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- **Michigan Transportation Fund History**
- 2005 thru 2011
-



- Winter Maintenance Expenditure and Snowfall Totals
- 2006 thru 2011
-





Kalamazoo
County
Road
Commission

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