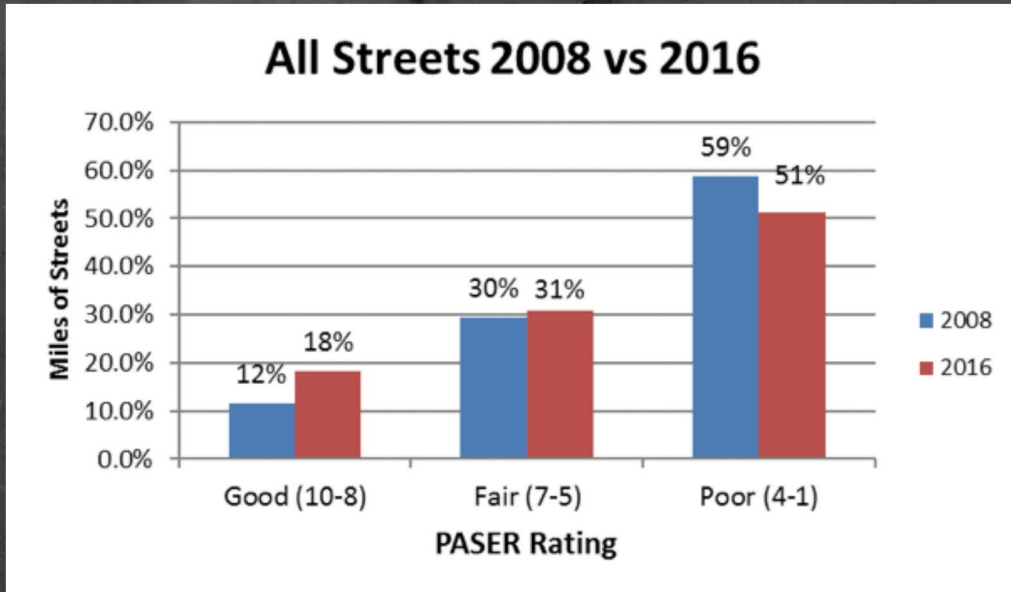
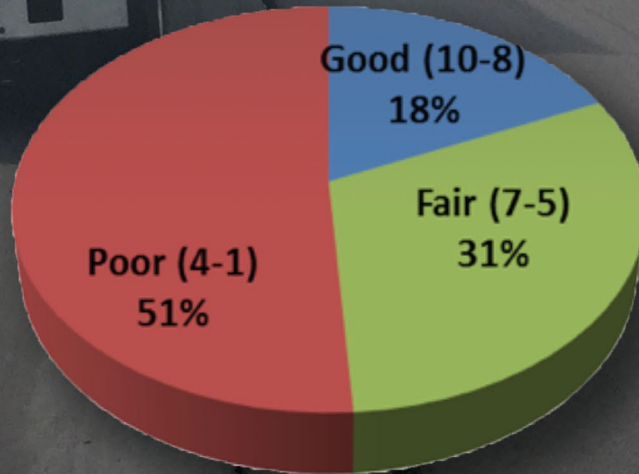


STATE OF THE STREETS



2016 Annual Report

Condition of All Streets 2016

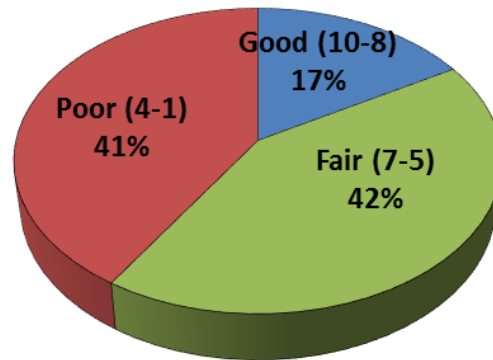


Asset Management: The right fix at the right time in the right place.

Major Streets

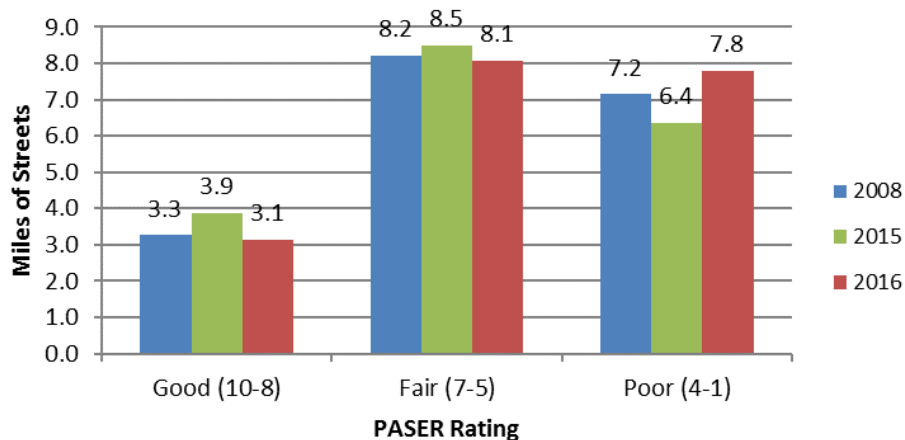
The City maintains about nineteen (19) miles of Major Streets. The 2016 condition assessment of the City's Major Streets using the **PA**vement **S**urface **E**valuation and **R**ating (**PASER**) system shows that 59% of the City's Major Streets are in Good or Fair condition, while 41% are Poor.

Condition of Major Streets 2016



Since the inception of the City of Manistee Street Asset Management Plan in 2008, the condition of the City's Major Streets has been generally stable. The decline in overall conditions in 2016 represents the deterioration in one calendar year when there is no investment in the street network. In order to accrue sufficient resources for meaningful projects, work is typically alternated annually between Major and Local streets. Significant preventative maintenance on Major Streets is scheduled for 2017.

Major Streets 2008 vs 2016

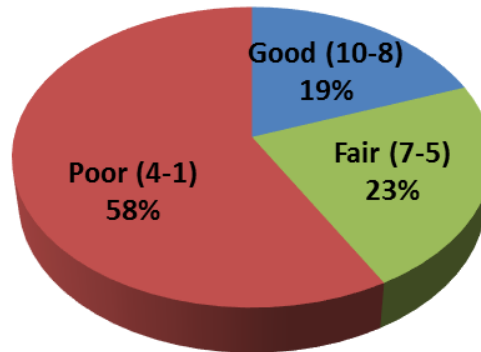


Much of the work on Major Streets over this time frame has been reconstruction related to sewer separation projects. The focus in future years will be on preventative maintenance. The cost of returning a Poor road to Good condition is four to five times greater than the cost of maintaining a road in Fair condition. The goal is to prevent Good and Fair roads from reaching Poor condition and reconstructing Poor roads as resources are available.

Local Streets

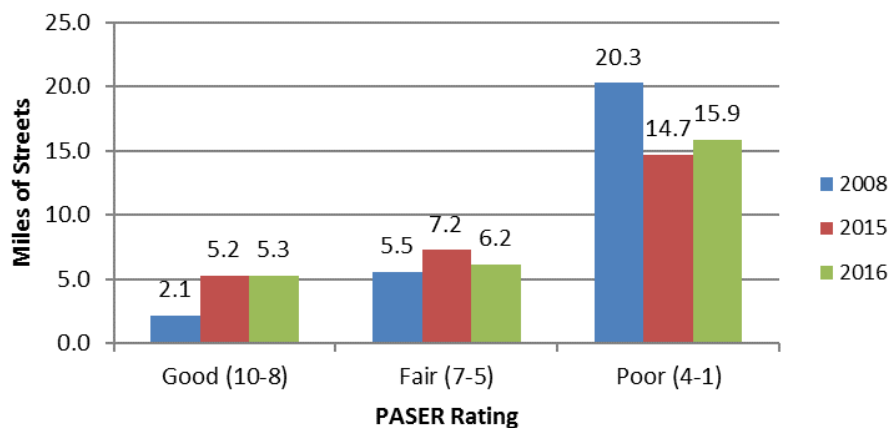
The City maintains about twenty-eight (28) miles of Local Streets. The 2016 condition assessment of the City's Local Streets using the **PASER** system shows that 42% of the City's Local Streets are in Good or Fair condition, while 58% are Poor.

Condition of Local Streets 2016



Since the inception of the City of Manistee Street Asset Management Plan in 2008, the City's Local Streets have improved significantly, with miles of both Good and Fair roads increasing, and miles of Poor roads decreasing by almost 22%. In 2016, \$129,000 of heavy rehabilitation work on approximately 0.8 miles of Local Streets was completed. Even at that level of investment, the overall network experienced a slight decline, demonstrating a need for additional annual resources.

Local Streets 2008 vs 2016



The focus of the Local Street work in 2016 was on heavy rehabilitation. Although this does address some of the Poor streets, it is not an optimal approach for maximizing the condition of the overall network. The goals for Local Streets are the same as for Major Streets. However, reconstruction of Poor Local Streets will continue to be a challenge because of the number of roads needing this type of work, lack of funding for Local Streets, and the need for ongoing preventative maintenance to cost-effectively keep our good streets good and improve the overall network.

2016 Work Completed

The City completed the resurfacing of about 0.8 miles of Local Streets in 2016 at a cost of \$129,000. The work was a mixture of standard resurfacing and milling and resurfacing.



Street Asset Management Plan

The City has created a Street Asset Management Plan using asset management principles and sophisticated software called Roadsoft. In 2009, the State Transportation Asset Management Council recognized the City with its Organization Award “For Demonstrating Outstanding Achievement in Implementing the Core Principles of Asset Management.” The plan is updated every five years and is the guiding document for City street maintenance.

Transportation Improvement Plan

Using the Street Asset Management Plan, the City prepares a Transportation Improvement Plan (TIP) as part of the annual City budget. The TIP identifies likely street work looking out over a 5 year time horizon. Year 1 TIP work is incorporated in the budget, while years 2-5 are for planning and forecasting. The work proposed in the TIP is based on a variety of factors including available financial resources, grants, condition assessment, engineering evaluation, needed water & sewer work, volume of traffic and the City’s strategic plan. More information on the City’s Street finances and plans can be found in City’s annual budget and on the City’s website at www.manisteemi.gov