

Cheboygan County Road Commission
Munro Township Local Road Ratings Report for 2018

The goal of the Road Commission is to use Asset Management Strategies when planning projects for the roads under the jurisdiction of the Cheboygan County Road Commission. Asset management, as defined by Public Act 199 of 2007, is an “ongoing process of maintaining, upgrading and operating physical assets cost-effectively, based on a continuous physical inventory and condition assessment. Using asset management will allow the Road Commission and Township to invest the available road funds in a manner that will provide the greatest return.

PASER Road Rating System

All the local paved and gravel roads are rated each year using the PASER Road Rating system in the Township (seasonal roads are not included). PASER, or Pavement Surface Evaluation and Rating, is the rating system that is used in collecting data for RoadSoft. The roads are rated on a scale of 1 to 10 according to surface conditions of the pavement or a scale of 2 to 10 for gravel surfaces. The tables below show the rating and the suggested maintenance that would be required to preserve the road along with an estimated cost of repair.

PASER Rating and Treatments for Paved Roads

Road Rating	Recommended Repair	Estimated Cost per Mile
10	No maintenance necessary. New Road	\$ 0
9	No Maintenance necessary. Smooth Surface.	\$ 0
8	Minor Crack Sealing	\$ 600
7	General Crack Sealing and/or Minor Patching	\$ 3,200
6	Patching and Sealcoat	\$ 29,000
	Ultra-thin Asphalt Overlay	\$ 63,000
5	Asphalt Wedging	\$ 47,000
	Asphalt Wedging and Sealcoat	\$ 75,000
	Asphalt Wedging and Ultra-thin Asphalt Overlay	\$ 106,000
4	Asphalt Wedging and Overlay	\$ 142,000
3	Pulverize, gravel and pave	\$ 240,000
2	Reconstruction.	\$ 350,000
1	Reconstruction. Failed Road.	\$ 350,000

PASER Rating and Treatments for Gravel Roads

Road Rating	Existing Condition / Recommended Repair	Estimated Cost per Mile
10	No maintenance necessary. New Road	\$ 0
8	Good crown and drainage throughout. Adequate gravel for traffic. Maintain with grading and dust control.	\$ 500
6	Existing crown with drainage on 50% or more of roadway. Additional gravel needed in some areas along with ditching.	\$ 45,000
4	Little or no crown. Ditched on less than 50% of the road. Additional gravel needed on entire road along with ditching.	\$ 85,000
2	Failed road. Reconstruction.	\$ 250,000

Munro Township Paved Local Road Ratings

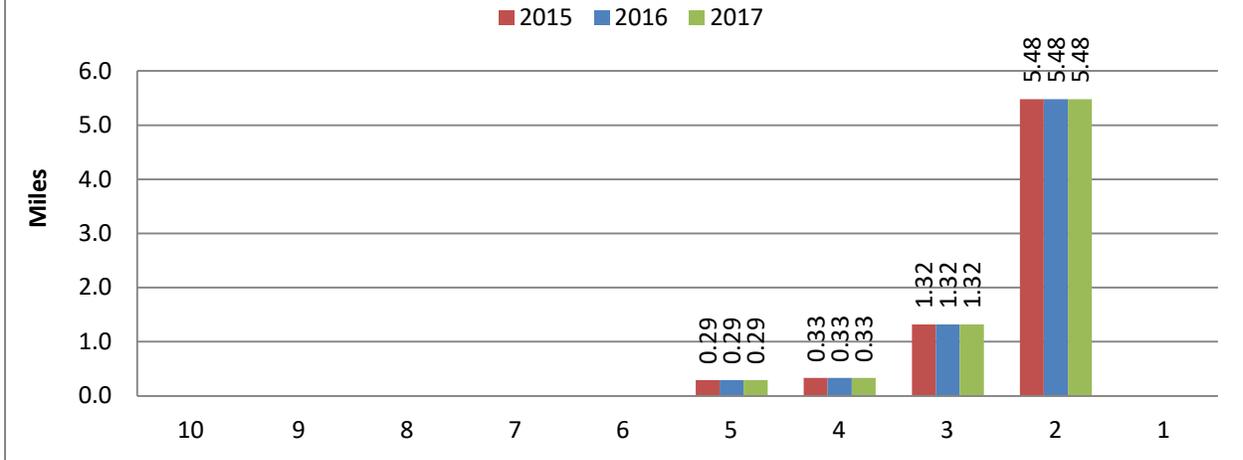
Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
9			
8			
7			
6			
5	Heilman Road	Munro Lake Road to Brandau Road.	0.29
4	Silver Strand Road	Van Road then south to end of pavement.	0.33
3	Douglass Lake Road	White Birch Drive to Bryant Road.	0.32
	Heilman Road	Brandau Road to Levering Road.	1.00
2	Bonnett Road	Brandau Road to Levering Road.	1.01
	Bryant Road	Riggsville Road to Douglass Lake Road.	1.38
	Douglass Lake Road	County Line to White Birch Drive.	0.52
	McArthur Road	Levering Road then south to end of pavement.	1.14
	Northwood Shores Drive	Bryant Road to end of road.	0.25
	Weadock Road	Levering Road then south to end of pavement.	1.18
1			

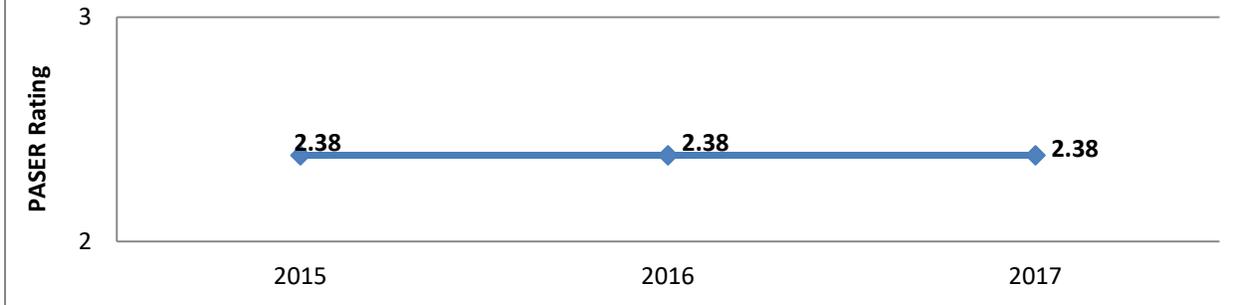
Average PASER Rating for Paved Local Roads 2.38

2017 Average 2.38

2015 - 2016 PASER Ratings for Paved Local Roads



Average PASER Rating for Paved Local Roads



Estimate Cost to Repair Local Paved Roads Based on 2017 PASER Ratings

Road Rating	Miles	Estimated Cost per Mile	Total Cost
10	0	\$ 0	\$ 0
9	0	\$ 0	\$ 0
8	0	\$ 600	\$ 0
7	0	\$ 3,200	\$ 0
6	0	\$ 29,000	\$ 0
5	0.29	\$ 47,000	\$ 13,630
4	0.33	\$ 142,000	\$ 46,860
3	1.32	\$ 240,000	\$ 316,800
2	5.48	\$ 350,000	\$ 1,918,000
1	0	\$ 350,000	\$ 0

Total Cost in 2018 = \$ 2,295,290

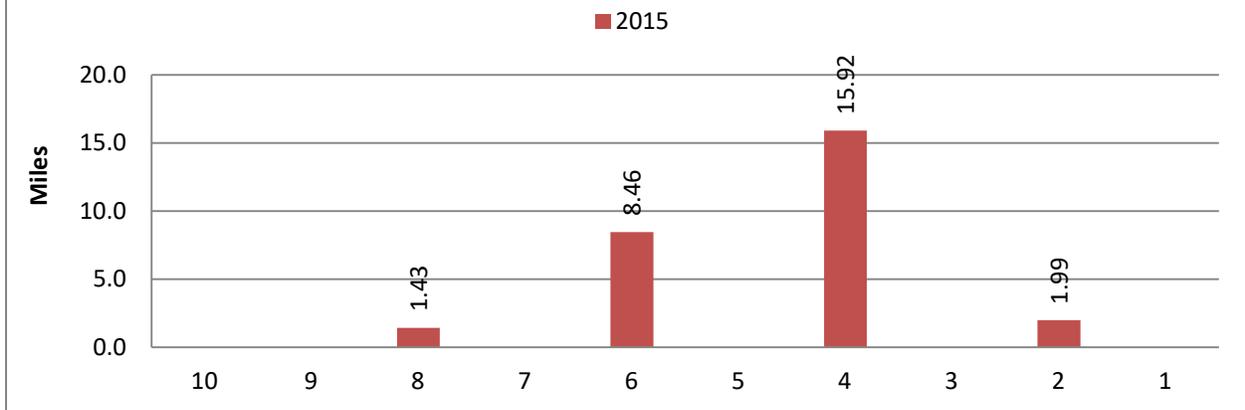
Munro Township Gravel Local Road Ratings

Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
8	Vincent Road Weadock Road	McArthur Road the east to end of road. Riggsville Road to Dotski Road.	0.39 1.04
6	Bradnau Road Brill Road Budzinski Road Dotski Road Heilman Road Indian Trail Road Ingleside Road Koviak Road McArthur Road Reinhardt Road Weadock Road	Heilman Road to Weadock Road. Ingleside Road to McArthur Road. Township Line to Indian Trail. North Extension Road then west to end of road. McClouth Road to Munro Lake Road. I-75 to South Extension Road. Brill Road to Koepke Road. Crump Road then west to end of road. Brill Road to pavement. Brill Road then south to end of road. Dotski Road to McClouth Road.	2.23 0.35 0.50 0.51 0.75 0.50 0.92 0.11 0.72 0.45 1.42
4	Antkoviak Road Bonnett Road Crump Road Dotski Road Douglass Lake Road Hayward Road Heilman Road Ingleside Resort Road Ingleside Road Jarmen Road Koepke Road McArthur Road Munro Circle East Munro Lake Road West Munro Lake Drive South Pells Island Drive Pells Islandview Drive Silver Strand Road Weadock Road Wilson Road Young Road	North Extension Road then east to seasonal road. Dotski Road to Brandau Road. Koviak Road to Indian Trail Road. Bonnett Road to Weadock Road. Heilman Road to Manitou Lane. Bryant Road to Douglass Lake. Munro Lake Road to Heilman Road. Dotski Road to McClouth Road. Ingleside Road then east to end of road. Ingleside Resort Road to Brill Road. Weadock Road then west to seasonal road. Ingleside Road to McArthur Road. Vincent Road to Brill Road. Munro Lake Road to Munro Lake Road. Hayward Road to Heilman Road. Hayward Road north and west to end of road. Douglass Lake Road then north to end of road. Douglass Lake Road to South Pells Island Drive. End of pavement then south to end of road. Van Road to Ingleside Road. McClouth Road then north to pavement. Silver Strand Road then south to end of road. Dotski Road then south to end of road.	0.50 2.01 0.50 1.43 0.54 0.09 0.27 1.00 0.14 0.55 0.19 1.00 0.72 0.64 0.97 1.65 0.09 0.23 0.18 1.43 0.94 0.07 0.78
2	Brandau Road Dotski Road Indian Trail Road Kruger Drive McArthur Road Morning Tide Drive	Heilman Road then west to end of road. Manitou Lane to end of road. Crump Road to I-75. Douglass Lake Road then north to end of road. Vincent Road then south to end of road. McArthur Road then east to end of road.	0.24 0.38 0.42 0.03 0.74 0.18

Average PASER Rating for Gravel Local Roads 4.67

2015 PASER Ratings for Gravel Local Roads



Service Life of Treatments

Service life is the expected time that a treatment will last before needing complete reconstruction. In the table below, an expected service life for a particular treatment is listed. Before a treatment reaches the expected service life, preventative maintenance should be performed. Preventative maintenance will extend the expected service life of the pavement and treatment.

Service Life of Treatments for Paved Roads

Road Rating	Recommended Repair	Expected Service Life (years)
8	Minor Crack Sealing	5
7	General Crack Sealing and/or Minor Patching	5
6	Patching and Sealcoat	7
	Ultra-thin Asphalt Overlay	7 – 10
5	Asphalt Wedging	7
	Asphalt Wedging and Sealcoat	7 – 10
	Asphalt Wedging and Ultra-thin Asphalt Overlay	10
4	Asphalt Wedging and Overlay	12 – 15
3	Pulverize, gravel and pave	15 – 25
2	Reconstruction.	25 - 30
1	Reconstruction. Failed Road.	25 - 30

For example, if a road has a PASER rating of 6, a treatment of a ultra-thin asphalt overlay is recommended (see the Table titled PASER Ratings and Treatment on page 1). The expected service life for an ultra-thin asphalt overlay is 7-10 years. Preventative maintenance in the form of crack sealing may be required after 2 years.

Expected service life may be shorter if the road is on poor soils that are not addressed as part of the treatment. If a project is selected that is not the recommended treatment, the service life listed in the table above will be shorter and preventative maintenance will need to be performed sooner.

Service Life for a gravel road is difficult to predict. Gravel road conditions can change rapidly based on weather, grading and traffic effects on the roads.