

Cheboygan County Road Commission
Beaugrand 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

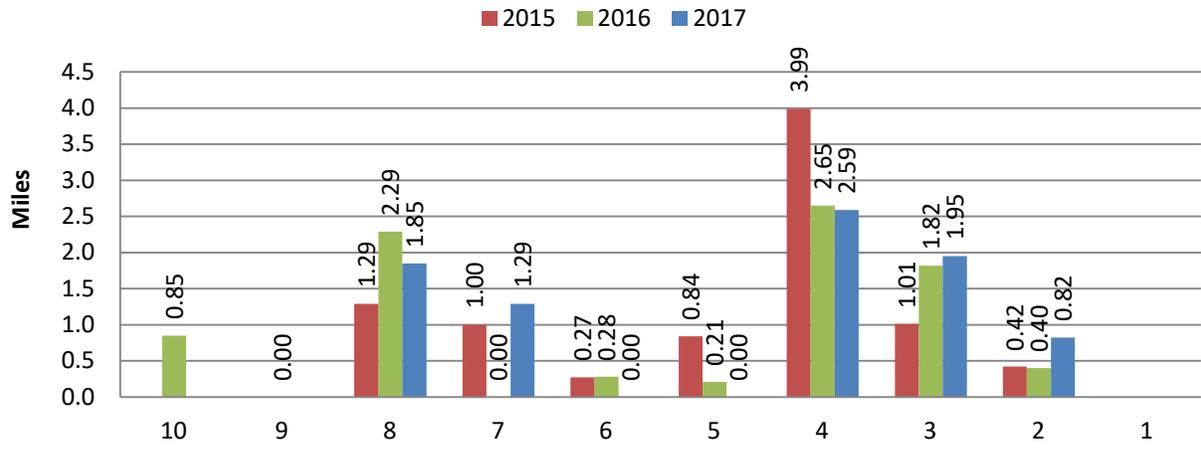
Beaugrand Township Paved Local Road Ratings

Current Road Ratings

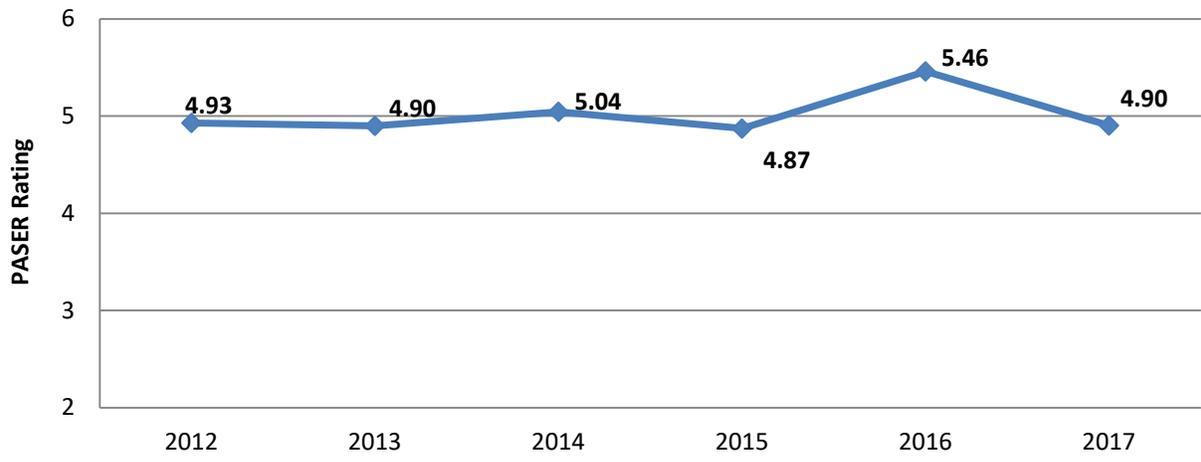
PASER Rating	Road Name	Limits	Length (miles)
10			
9			
8	Inverness Trail Road Old Mackinaw Road	Woiderski Road to Levering Road. Pries Road then northerly to end of pavement.	1.00 0.85
7	Woiderski Road	Inverness Trail to Riggsville Road.	1.29
6			
5			
4	Inverness Trail Road LaHaie Road Nicolet Drive Shore Drive Slade Road	Levering Road to Campbell Road. Cheboygan City Limits to end of pavement. Michigami Drive to Beaumont Drive. Michigami Drive to southerly end of road. Northerly and southerly of Coulson Drive. Old Mackinaw Road then south to end of pavement.	1.00 0.72 0.20 0.21 0.28 0.18
3	Beaumont Drive Coulson Drive Inverness Trail Road Michigami Drive Nicolet Drive Pinewood Circle Sunflower Street	US-23 to Nicolet Drive. US-23 to Shore Drive. Levering Road to Old Mackinaw Road. Beaumont Drive to Shore Drive. Beaumont Drive to northerly end of road. US-23 to Pinewood Circle.	0.39 0.23 0.73 0.18 0.14 0.22 0.06
2	Harmony Lane Lake Shore Boulevard	US-23 then north to end of road. Cheboygan City Limits to end of road.	0.42 0.40
1			

2017 Average PASER Rating for Paved Local Roads 4.90
2016 Average 5.46

2015 -2017 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	1.85	\$ 600	\$ 1,110
7	1.29	\$ 3,200	\$ 4,128
6	0	\$ 29,000	\$ 0
5	0	\$ 47,000	\$ 0
4	2.59	\$ 142,000	\$ 376,780
3	1.95	\$ 240,000	\$ 468,000
2	0.82	\$ 350,000	\$ 287,000
1	0	\$ 350,000	\$ 0

Total Cost in 2018 = \$ 1,128,018

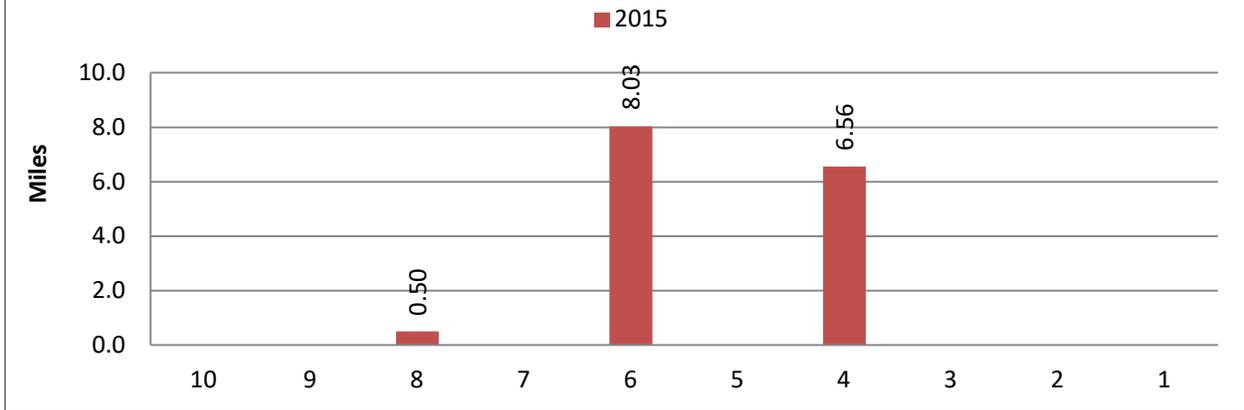
Beaugrand Township Gravel Local Road Ratings

Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
8	Woiderski Road	Schmidt Road to Inverness Trail.	0.50
6	Airport Road Campbell Road Goebel Road Lahaie Road Old Mackinaw Road Phillips Road Rose Road Shall Road Slade Road	LaHaie Road to Levering Road. Goebel Road to Rose Road. Inverness Trail to US-23. Campbell Road then north to end of road. Airport Road to pavement. End of asphalt then westerly to Township Line. Pries Road to end of road. Levering Road to Campbell Road. Levering Road then south to end of road. Levering Road then north to pavement.	0.50 0.99 0.49 0.52 0.19 3.09 0.16 0.99 0.51 0.59
4	Campbell Road Garden Street Goebel Road Hill Road Knaffle Road Nipigon Road Rose Road Seymor's Road Shall Road Woiderski Road	Rose Road to Inverness Trail. Court Street to end of road. Levering Road then north to seasonal road. Knaffle Road to Levering Road. Hill Road to end of road. Old Mackinaw Road to US-23 Campbell Road then north to end of road. LaHaie Road then south to end of road. Levering Road then north to end of road. Levering Road then south to seasonal road.	1.00 0.20 0.06 0.99 0.53 1.31 0.26 0.06 0.27 0.95
4	Wollangur Road	Levering Road to Hill Road.	0.93
2			

Average PASER Rating for Gravel Local Roads 4.75

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 Ultra-thin Asphalt Overlay	7 7 – 10
5	Asphalt Wedging Asphalt Wedging and Sealcoat Asphalt Wedging and Ultra-thin Asphalt Overlay	7 7 – 10 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.