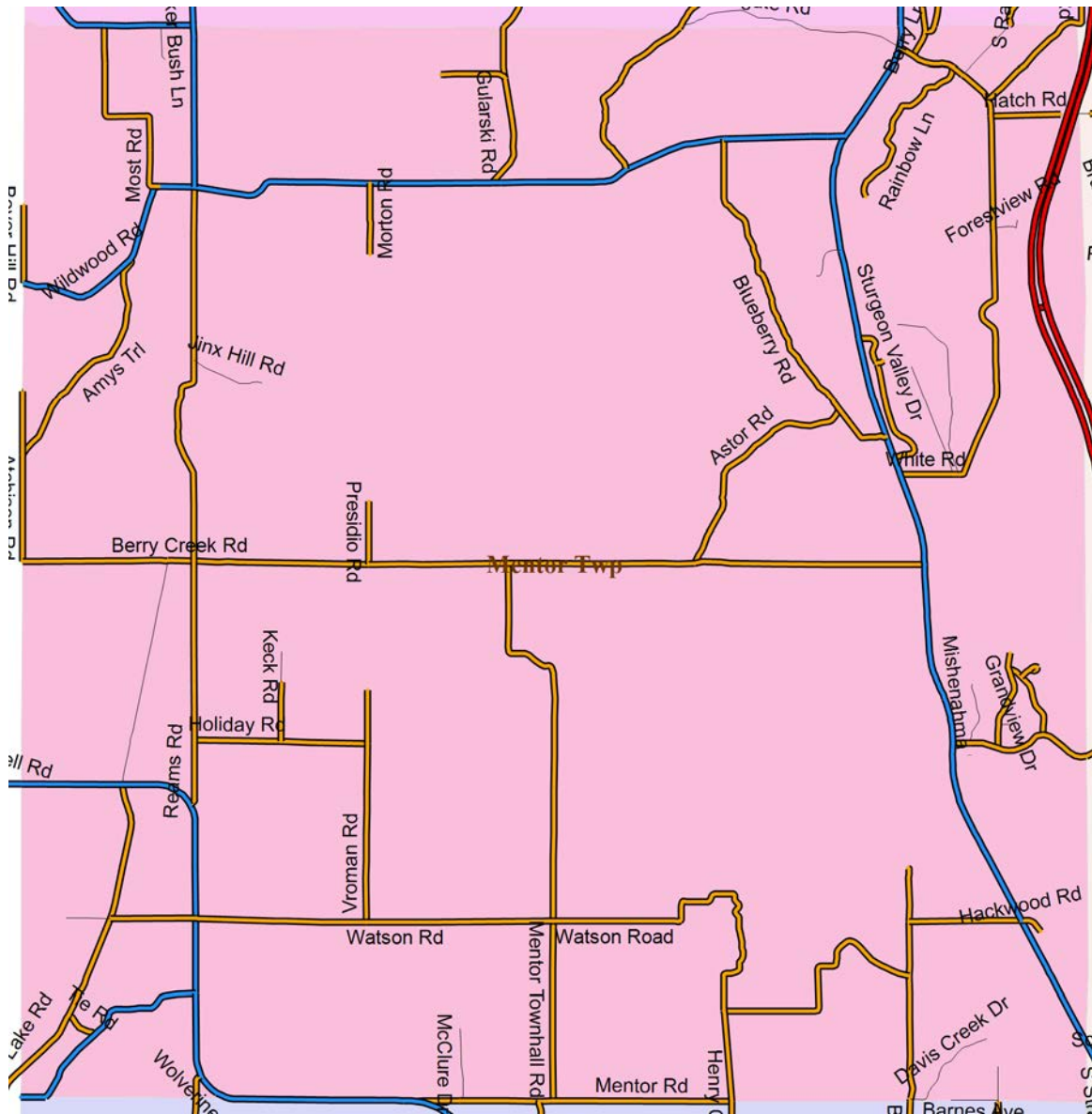


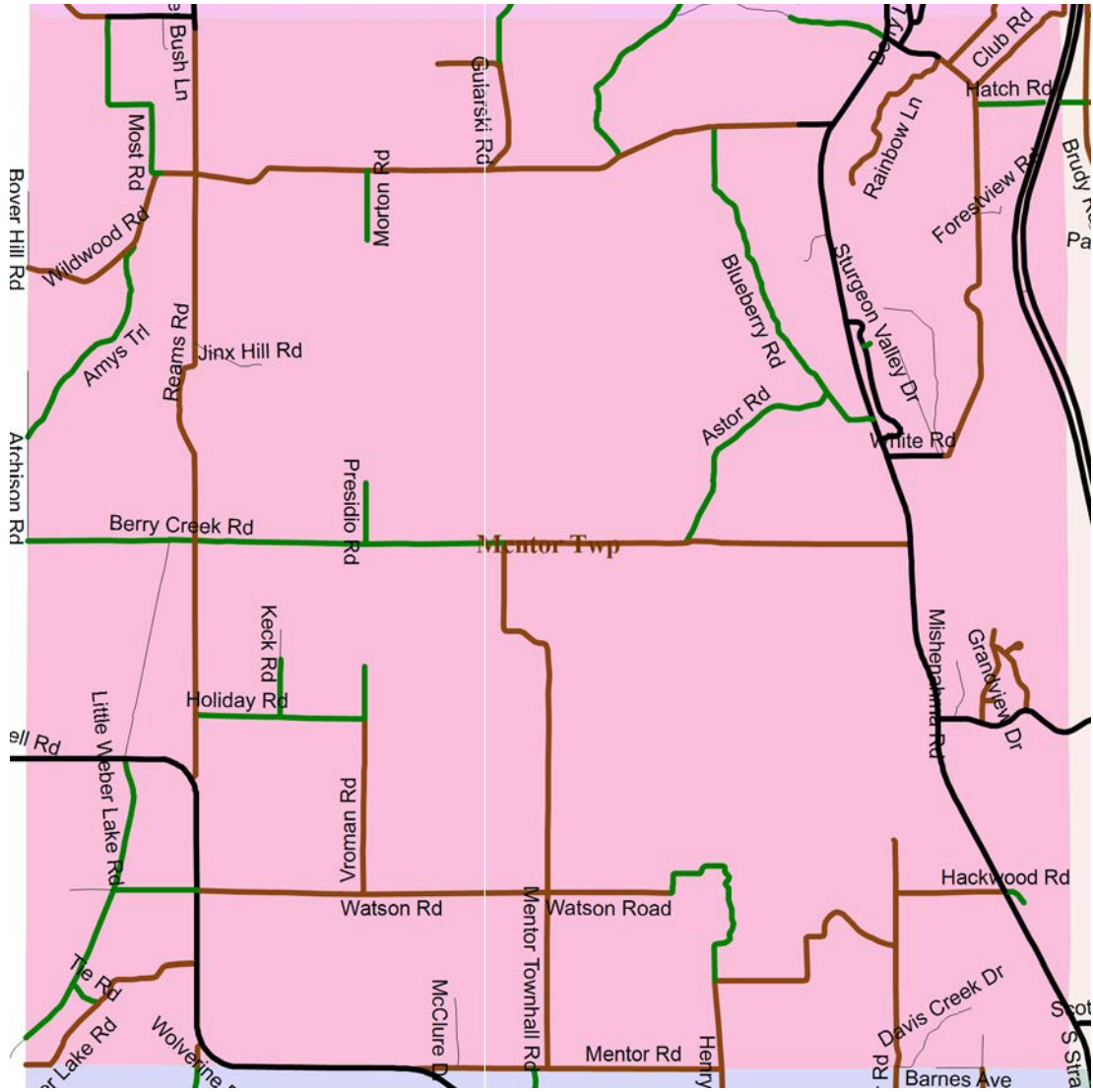
Cheboygan County Road Commission
Mentor Township Local Road Ratings Report for 2019

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.



Township Roads by Legal System

Red = State Highways – Blue = County Primary Roads – Orange = County Local Roads



Roads by Surface Type

Black = Pavement – Brown = Gravel – Green = Seasonal

PASER Road Rating System

All the local paved 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. 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

Gravel roads are rated using the Inventory-Based Rating System™ for Gravel Roads (IBR). The IBR system considers three characteristics of a road segment to determine a rating for the segment. Surface width, drainage adequacy and structural adequacy are all evaluated to determine the segment rating. From this evaluation a rating of 1 to 10 is calculated.

IBR Rating and Treatments for Gravel Roads

Road Rating	Existing Condition / Recommended Repair	Estimated Cost per Mile
10	No maintenance necessary. New Road	\$ 0
8 – 9	Good crown and drainage throughout. Adequate gravel for traffic. Maintain with grading and dust control.	\$ 500
6 - 7	Existing crown with drainage on 50% or more of roadway. Additional gravel needed in some areas along with ditching.	\$ 55,000
3 - 5	Little or no crown. Ditched on less than 50% of the road. Additional gravel needed on entire road along with ditching.	\$ 95,000
1 - 2	Failed road. Reconstruction.	\$ 250,000

Mentor Township Paved Local Road Ratings

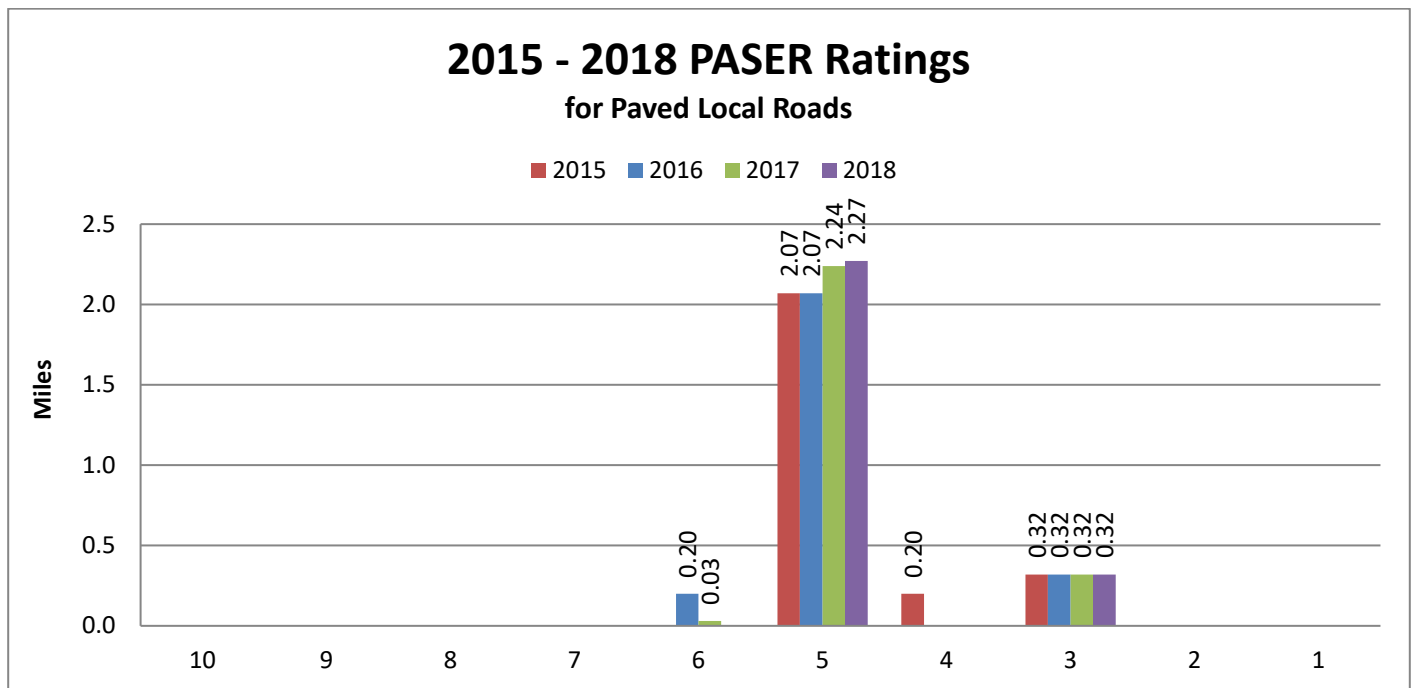
Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
9			
8			
7			
6			
5	Berry Lane Daily Road Rondo Road Sturgeon Valley Drive White Road (South)	White Road then northerly to the Township Line. Berry Lane then east and north to the Township Line. Straits Highway then easterly to the Township Line. Straits Highway to Straits Highway. Straits Highway to end of pavement.	0.17 0.03 0.80 0.91 0.36
4			
3	White Road (North)	Straits Highway to Rainbow Lane.	0.32
2			
1			

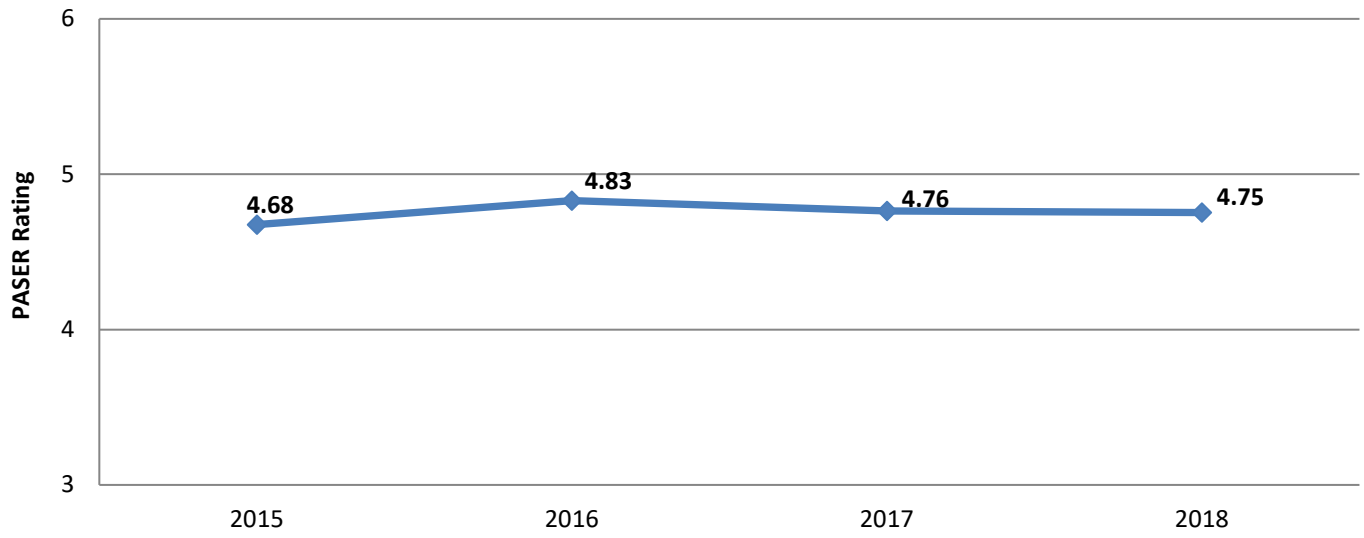
2018 Average PASER Rating for Paved Local Roads 4.75

2017 Average 4.76

2016 Average 4.83



Average PASER Rating for Paved Local Roads



Mentor Township Gravel Local Road Ratings

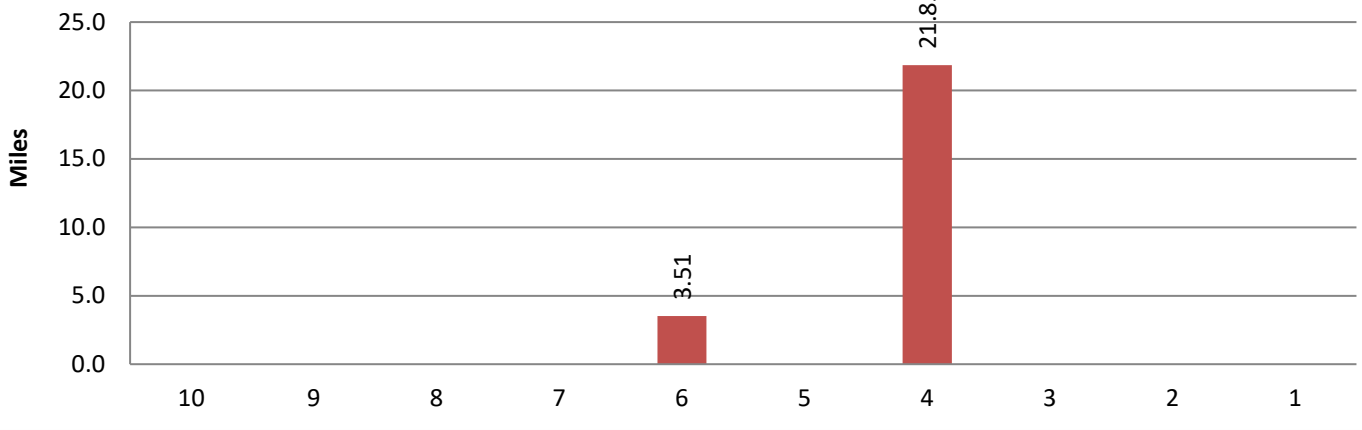
Current Road Ratings

IBR Rating	Road Name	Limits	Length (miles)
10			
9			
8			
7			
6	Grandview Drive	Rondo Road to Johnson Court.	0.36
	Mentor Road	Wolverine Road to Mentor Townhall Road.	0.73
	Meyers Road	Rondo Road to Grandview Drive.	0.41
	Rainbow Lane	White Road then southerly to the end of the road.	0.99
	White Road	Forestview Road to Rainbow Trail.	1.02
5			
4	Berry Creek Road	Mentor Townhall Road to Straits Highway.	2.38
	Bilder Road	Township Line north to end of road.	1.33
	Club Road	White Road to the Township line.	0.80
	Grandview Drive	Johnson Court to Meyers Road.	0.17
	Gularski Road	Wildwood Road to West Gularski Road.	0.67
	Hackwood Road	Bilder Road to Straits Highway.	0.63
	Henry Collins Road	Woods Homestead Road to Mentor Road.	0.51
	Johnson Court	Grandview Drive to the end of the road.	0.10
	Kimball Court	Meyers Road to end of the road.	0.07
	Mentor Road	Wolverine Road to Mentor Townshall Road.	1.01
	Mentor Townhall Road	Mentor Road to Berry Creek Road.	3.24
	Meyers Road	Grandview Drive to the end of the road.	0.16
	Reams Road	Township line then north to Wolverine Road.	0.18
		Wolverine Road to Wildwood Road.	3.55
		Watson Road to Holiday Road.	1.01
		Wolverine Road to Henry Collins Road.	2.73
		Gularski Road to the end of the road.	0.35
4	White Road	End of pavement (south end) to Forestview Road.	1.50
4	Woods Homestead Road	Henry Collins Road to Bilder Road.	1.46
3			
2			
1			

Average IBR Rating for Gravel Local Roads 4.28

2018 IBR Ratings for Gravel Local Roads

■ 2015



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.