

Cheboygan County Road Commission

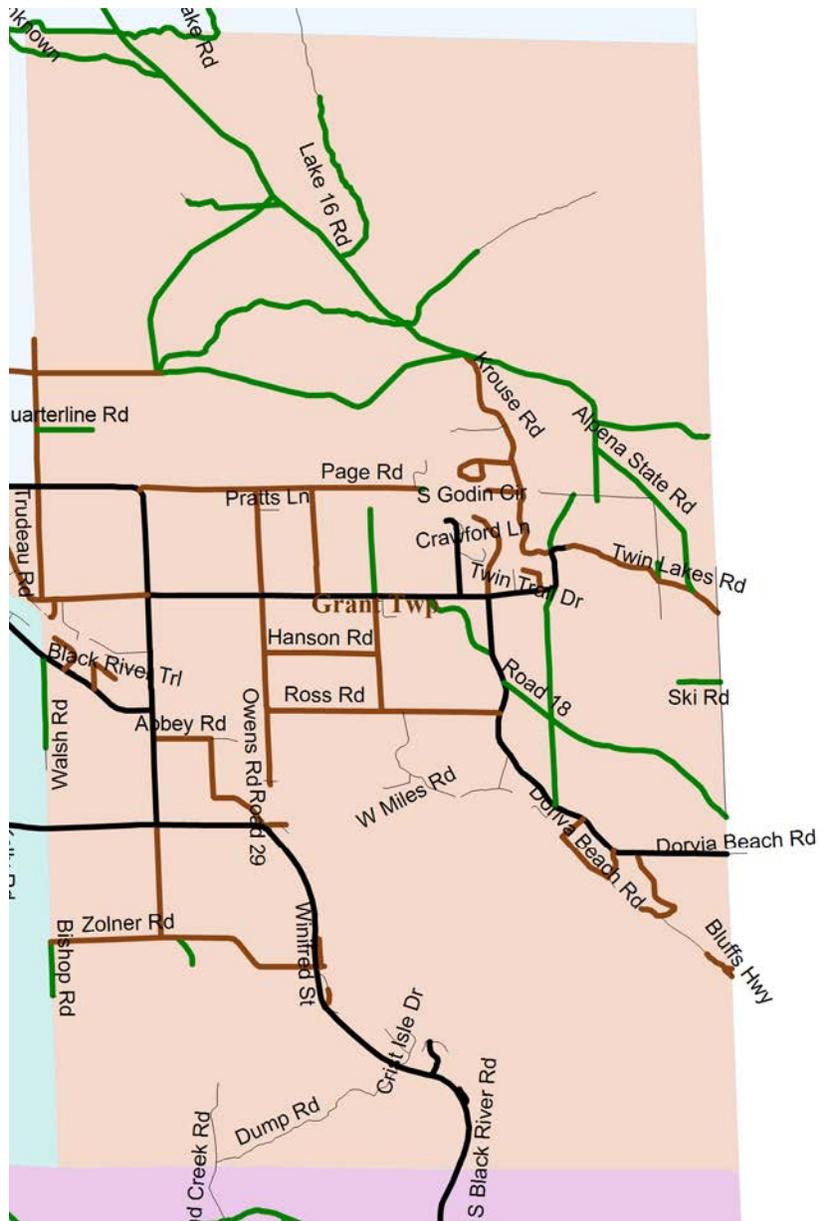
Grant Township Local Road Ratings Report for 2019

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

Road Rating Systems

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

Grant Township Paved Local Road Ratings

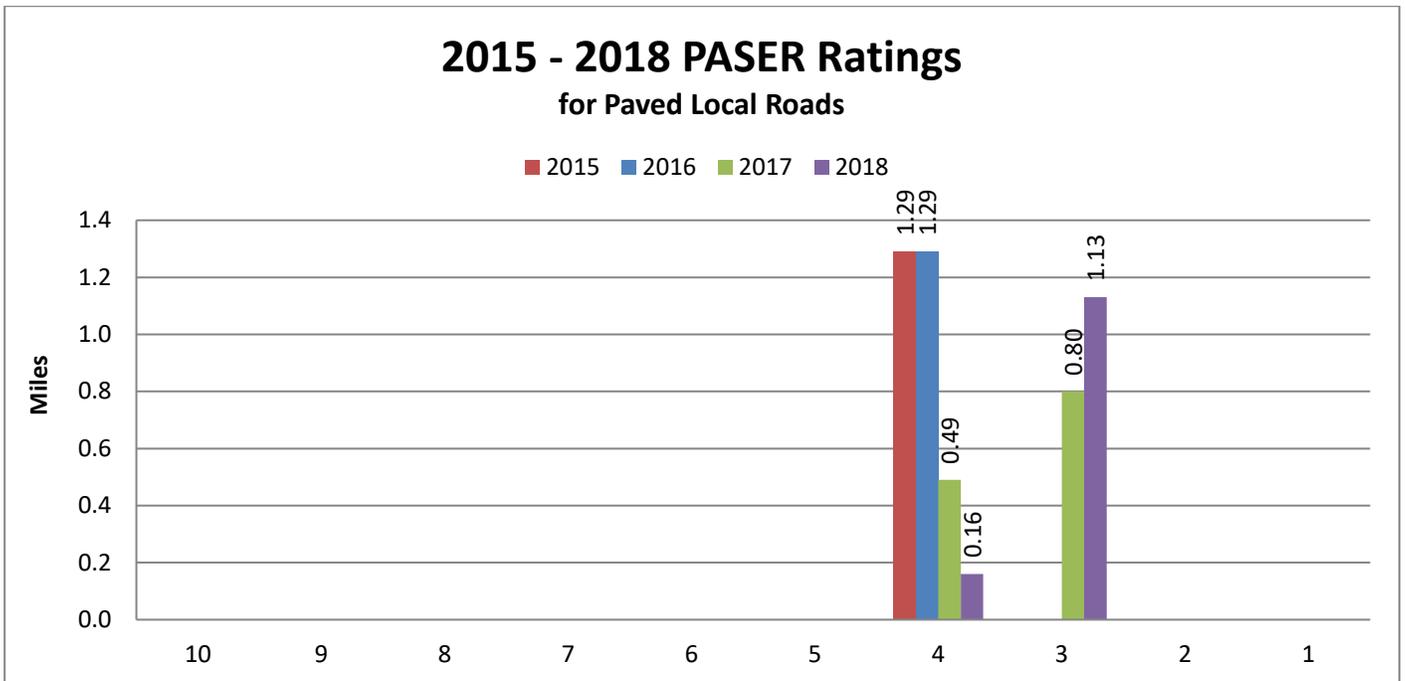
Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
9			
8			
7			
6			
5			
4	Taylor Road	Black River Road to end of road.	0.16
3	5 Mile Point Road Reynolds Road	Black River Road to end of road. Twin Lakes Road then north to end of road.	0.33 0.80
2			
1			

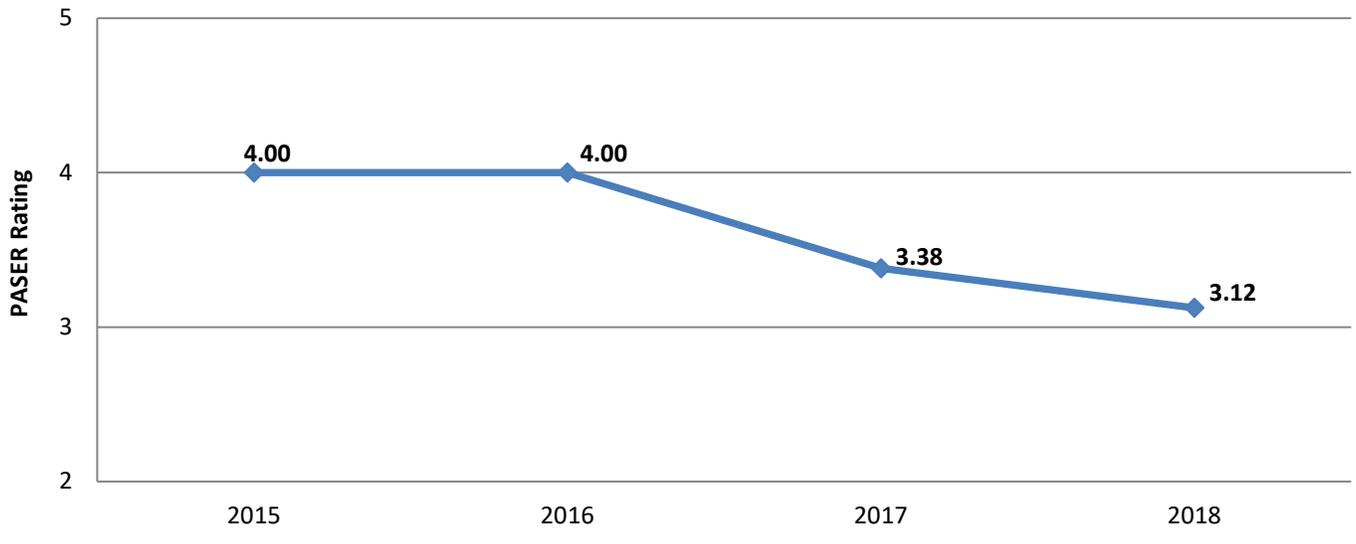
Average PASER Rating for Paved Local Roads 3.12

2017 Average 3.38

2016 Average 4.00



Average PASER Rating for Paved Local Roads



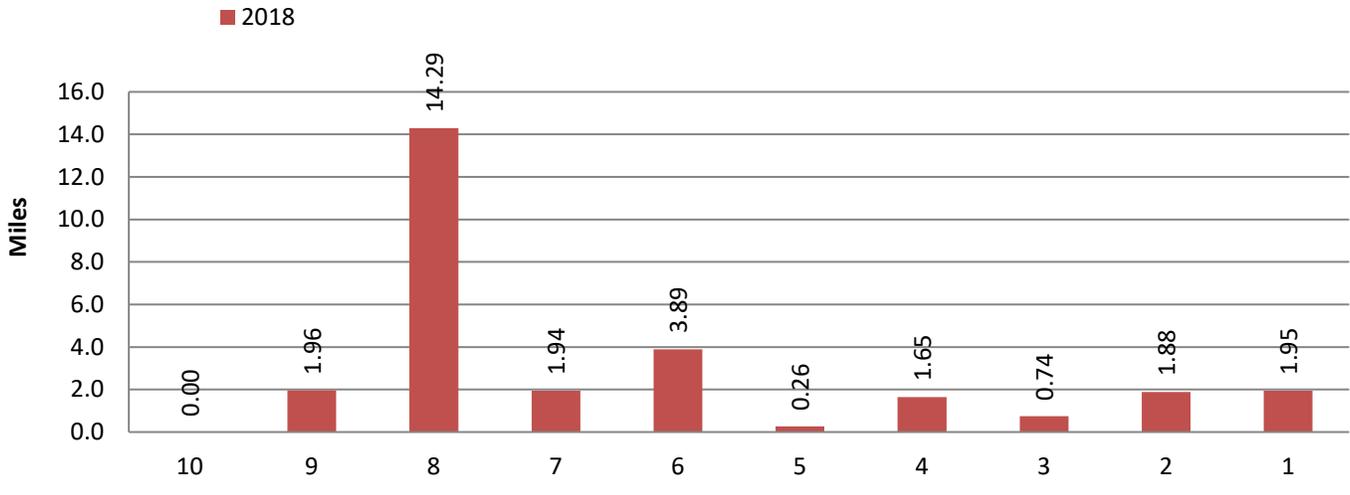
Grant Township Gravel Local Road Ratings

Current Road Ratings

IBR Rating	Road Name	Limits	Length (miles)
10			
9	Cronan Road Owens Road	Twin Lakes Road to page Road. Ross Road to Twin Lakes Road.	0.96 1.00
8	Abby Road Cedar Beach Lane Chamberlin Road Gaynor Road Hanson Road Orchard Beach Road Owens Road Twin Lakes Road Owens Road Page Road Ross Road Zolner Road	Black River Road to Covington Road. Doriva Beach Road to end of public road. Ross Road to Twin Lakes Road. Zolner Road to Black River Road. Owens Road to Chamberlin Road. Township Line to seasonal road. South end of road to Ross Road. Township Line to Black River Road. Twin Lakes Road to Page Road. Black River Road to Cronan Road. Owens Road to Doriva Beach Road. Bishop Road to Black River Road.	0.49 0.23 1.00 1.00 1.00 1.12 0.55 1.99 0.93 1.47 2.10 2.41
7	Page Road Trudeau Road	Cronan Road then east to end of road. Black River Road to Orchard Beach Road.	0.95 0.99
6	Abbey Road Bayou Drive Forsyth Road High Bluffs Trail Smith Road Trudeau Road Viau Road	Covington Road to Viau Road. Township Line south to end of road. South River Road to end of road. Doriva Beach Road to end of road. Twin Lake Road north to end of road. Twin Lakes Road to Black River Road. Abbey Road to end of road.	1.00 0.12 0.43 0.24 0.82 1.00 0.28
5	Krouse Road	Goodin Road to S Grand Circle	0.26
4	Bluffs Highway Eisen Trail Lenz Road	Township Line then north to end of road. Bluff Highway to end of road. South River Road to end of road.	0.30 0.96 0.39
3	Gottschalk Drive Krouse Road	Twin Lakes Road then south to end of road. S Grand Circle to Twin Lakes Road.	0.17 0.57
2	Archambo Street Godin Road Moulder Drive Naomi Street Trudeau Road Winfred Street Zolner Road	Black River Road to end of road. Krouse Road to end of loop. Twin Lakes Road to Twin Lakes Road. Black River Road to Winfred Street. Orchard Beach Road to end of road. Zolner Road to Naomi Street. Black River Road to end of road.	0.16 0.80 0.30 0.03 0.29 0.23 0.07
1	Krouse Road Twin Trail S Grand Circle	Alpena State Road to Goodin Road. Twin Lakes Road then north to dead end. Krouse Road then west to end of road.	1.37 0.28 0.30

Average IBR Rating for Gravel Local Roads 6.47

2018 IBR 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.