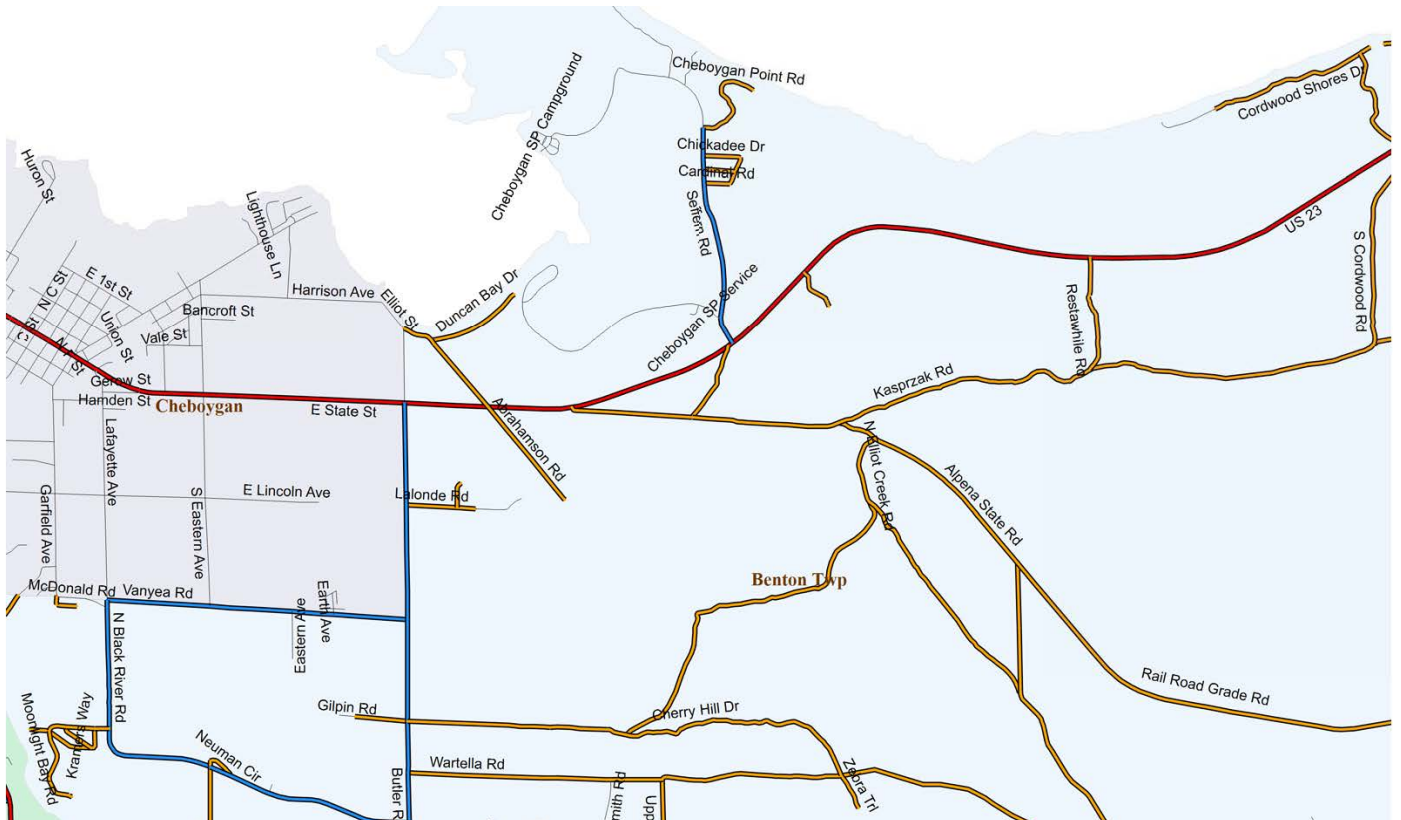
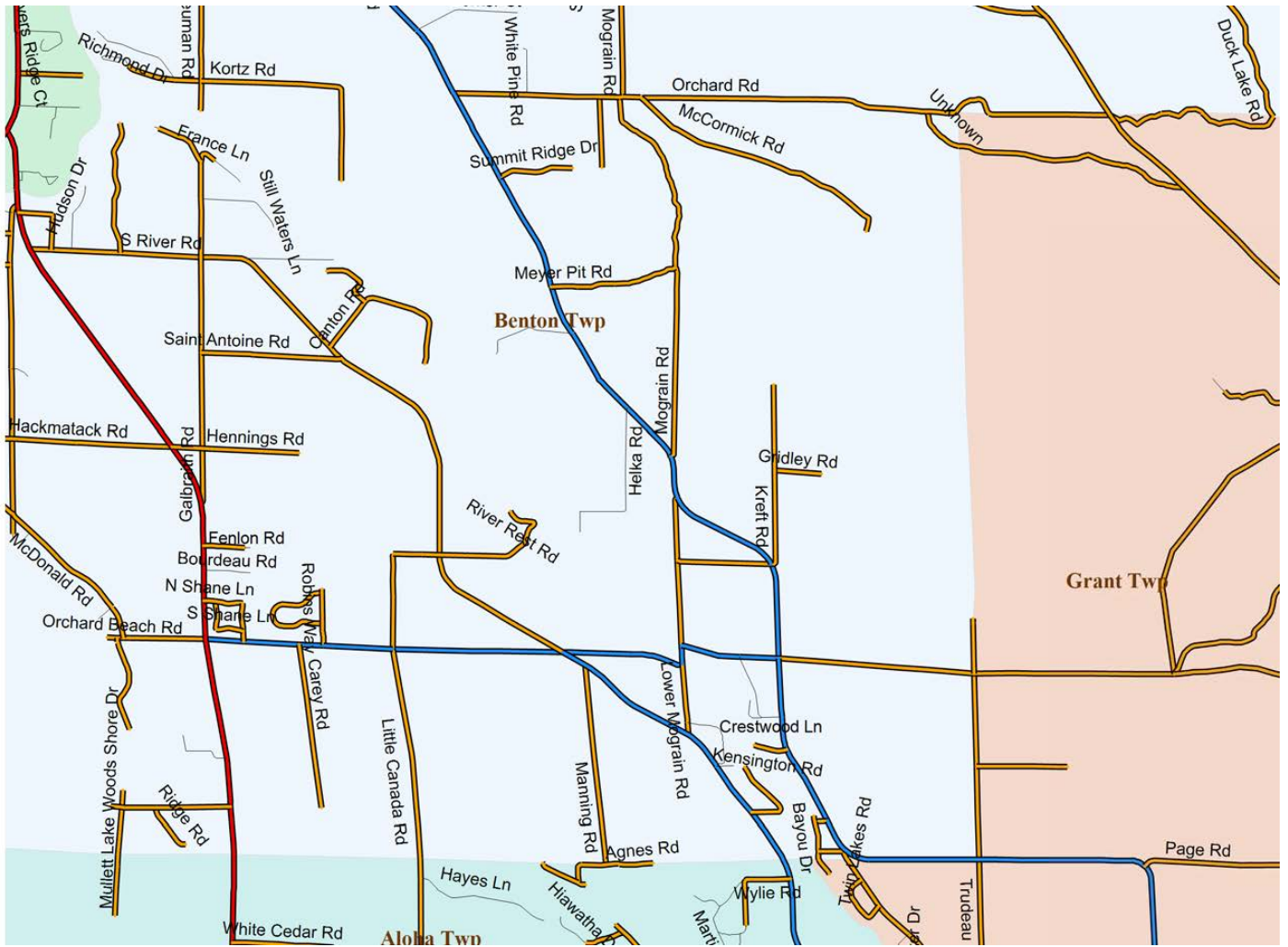


# Cheboygan County Road Commission

## Benton Township Local Road Ratings Report for 2020

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**

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

## 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

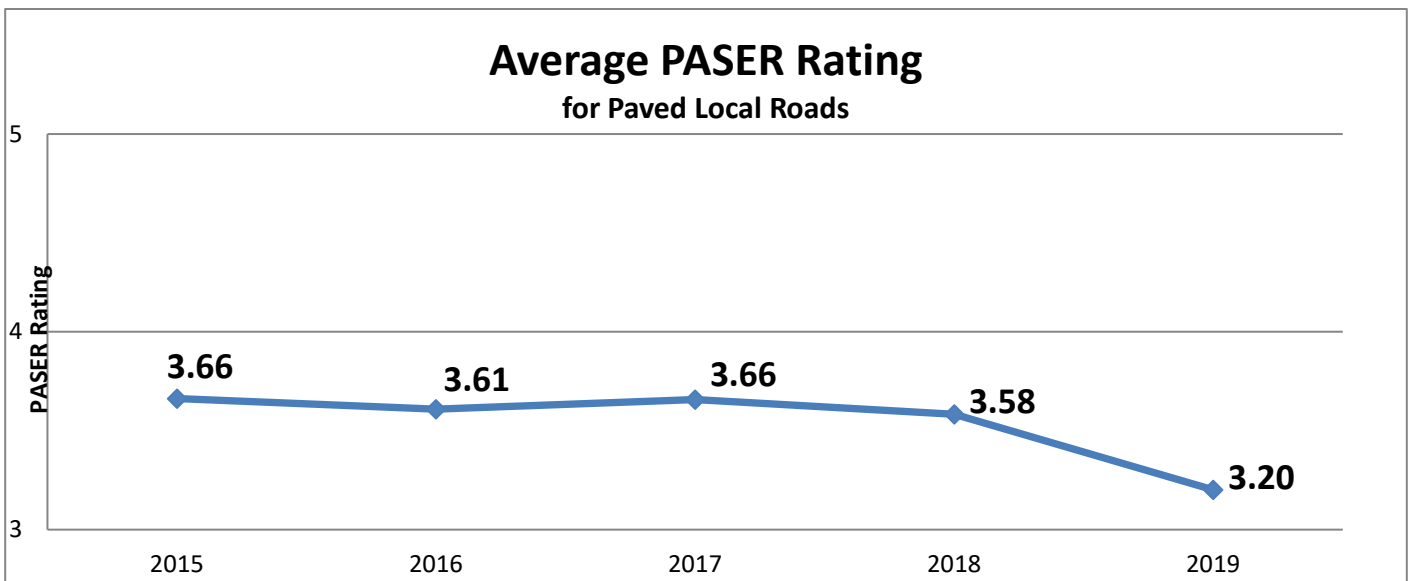
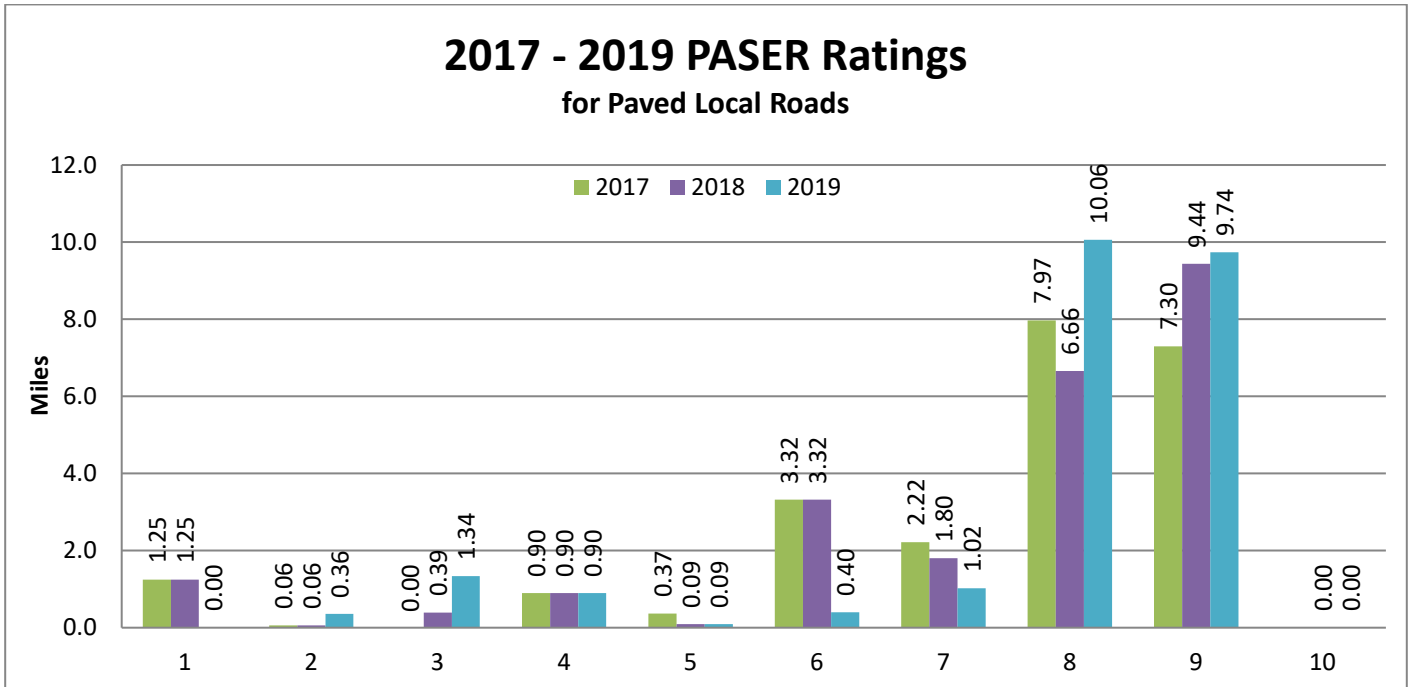
Road Rating	Existing Condition / Recommended Repair	Estimated Cost per Mile
10	No maintenance necessary. New Road	\$ 0
8 – 9	Good crown and drainage throughout. Adequate gravel for traffic. Maintain with grading and dust control.	\$ 500
6 - 7	Existing crown with drainage on 50% or more of roadway. Additional 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

## Benton Township Paved Local Road Ratings

### Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
9	Canton Road France Lane	South River Road to West Black Lane. Lindburgh Lane to End of Public Road.	0.30 0.06
8	West Black Lane Canton Road Summit Ridge Drive	Canton Road to end. West Black Lane to end. Black River Road to end of road.	0.34 0.61 0.39
7	Cordwood Trail Straitsview Drive	Straitsview Drive then easterly to end of road. US-23 to Coordwood Trail.	0.66 0.24
6	Mullett Lake Woods Shore Dr	Mullett Lake Woods Road then north to end of road.	0.09
5	Blue Jay Avenue Cardinal Road Robin Road	Seffern Road to Robin Road. Seffern Road to Robin Road. Cardinal Road to Chickadee Road.	0.14 0.12 0.14
4	Chickadee Road Galbraith Road Mullett Lake Woods Shore Dr	Seffern Road to Robin Road. South River Road to Lindburgh Lane. Mullett Lake Woods Road then south to Township Line.	0.17 0.57 0.28
3	Cardinal Circle Carey Road Galbraith Road Henning Road Highbanks Drive Islandview Drive Moonlight Bay Road Mullett Lake Woods Road Orchard Road Restawhile Road Ridge Run Road Robins Way Sharil Lane Upper Mograin Road Wartella Road	Robins Way to Robins Way. Orchard Beach Road then south to end of road. M-33 to South River Road M-33 to end of road. US-23 to end of road. Carter Road to end of road. Black River Road then southerly to end of road. M-33 to Mullett Lake Woods Shore Drive. Black River Road to Upper Mograin Road. US -23 then south to end of pavement. Orchard Road then south to end of road. Orchard Beach Road to end of road. Moonlight Bay Road then westerly to end of road. Orchard Road to Wartella Road. Butler Road to Upper Mograin Road.	0.62 0.87 1.38 0.68 0.98 0.33 0.71 0.60 0.89 0.18 0.38 0.30 0.11 0.73 1.30
2	Abrahamson Road Addison Drive Beebe Road W Canal Drive Carter Road Duncan Bay Drive Hackmatack Road John Werner Drive Kramers Way Lindburgh Lane McDonald Road Meyer Pit Road	Butler Road to Duncan Bay Drive. South River Road to Riveria Drive. Hackmatack Road to end of pavement. Carter Road to end of road. M-33 then south to end of road. Abrahamson Road to end of road. Beebe Road to Carter Road. South River Road then north to end of road. Sharon Lane to Moonlight Bay Road. Galbraith Road then westerly to end of road. Orchard Beach Road to Carter Road. Black River Road to end of pavement.	0.12 0.18 0.51 0.22 1.75 0.48 0.50 0.73 0.11 0.30 0.90 0.13

2	Mullett Lake Woods Road	Mullett Lake Woods Shore Drive to end of road.	0.04
	Nueman Road	Black River Road then south to end of road.	0.90
	Orchard Beach Road	M-33 then west to end of road.	0.52
	Rivera Drive	M-33 to Addison Avenue.	0.19
	Sharon Lane	Moonlight Bay Road to Kramer Way.	0.20
	Snow Apple Court	Garfield Avenue to end of road.	0.17
	South River Road	M-33 to Canton Road.	1.79
1			



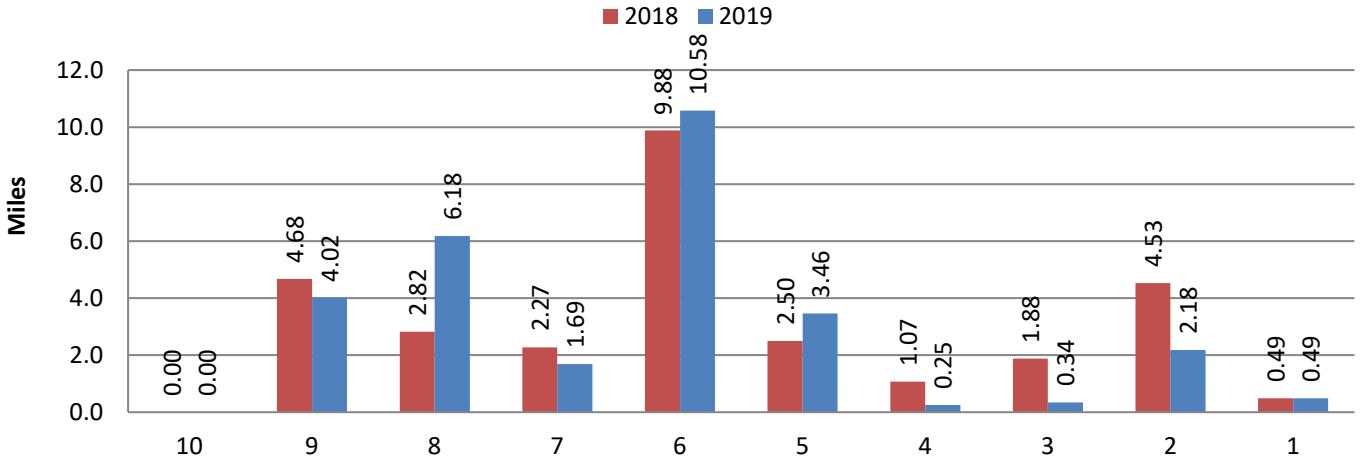
## Benton Township Gravel Local Road Ratings

### Current Road Ratings

IBR Rating	Road Name	Limits	Length (miles)
10			
9	Alpena State Road Kortz Road Little Canada Road Lower Mograin Road McRae Road	US-23 to Cranberry Farm. Nueman Road to curve. Orchard Beach Road then south to Township Line South River Road to Orchard Beach Road. Orchard Beach Road to Black River Road. Nueman Road then west to end.	0.60 0.75 1.11 0.38 0.78 0.40
8	Abrahamson Road Cedarwood Drive Lalonde Road Manning Road Orchard Beach Road South River Road N Shane Lane S Shane Lane	Duncan Bay Drive then southeasterly to end of road. Lakewood Drive to Coordwood Trail. Butler Road to end of road. Agnes Road to South River Road. Black River Road to Trudeau Road. Canton Road to Orchard Beach Road. M-33 to Orchard Beach Road. N Shane Lane to N Shane Lane.	1.06 0.30 0.34 1.06 1.06 2.36 0.43 0.30
7	Hackmatack Road Kortz Road Nueman Circle Sky Chief Road	Carter Road to M-33. Curve to end of road. Black River Road to Black River Road. Lalonde Road to end.	0.86 0.48 0.19 0.16
6	Agnes Road Cedarhurst Drive Coordwood Road Coordwood Trail Coordwood Shores Drive Gilpin Road Granville Drive Helmond Drive Koral Bay Road Kramers Way Lakewood Drive Larchway Court Linden Drive Little Canada Road  McDonald Road Orchard Beach Drive Ridgeview Drive River Rest Drive Senic Court Tamarac Drive Twin Lakes Road Upper Mograin Road Vaness Drive	Manning Road then west to Township Line. Grandville Drive to Cordwood Trail. US-23 to Cordwood Shored Drive. Scenic Court to Straitsview Drive. East and west of Coordwood Road. West end of road to Seasonal Road. Cedarhurst Drive to Coordwood Trail. Cedarhurst Drive to Coordwood Trail. South River Road to end of road. Moonlight Bay Road to Sharon Lane. Senic Court to Straitsview Drive. Coordwood Trail to end of road. Cedarhurst Drive to Coordwood Trail South River Road to Seasonal Road. Orchard Beach Road to Seasonal Road. Carter Road to end of Road. Orchard Beach Road south to end of road. Cordwood Road to end of road. South River Road to end of road. Coordwood Trail to end of road. Ridgeview Drive to Coordwood Trail. Black River Road to Township line. Black River Road to Meyer Pit Road. Cedarhurst Drive to Coordwood Trail.	0.13 0.41 0.54 0.55 0.87 1.34 0.22 0.14 0.50 0.20 0.49 0.16 0.19 0.10 0.27  0.19 0.29 0.76 0.75 0.35 0.20 0.21 0.90 0.16

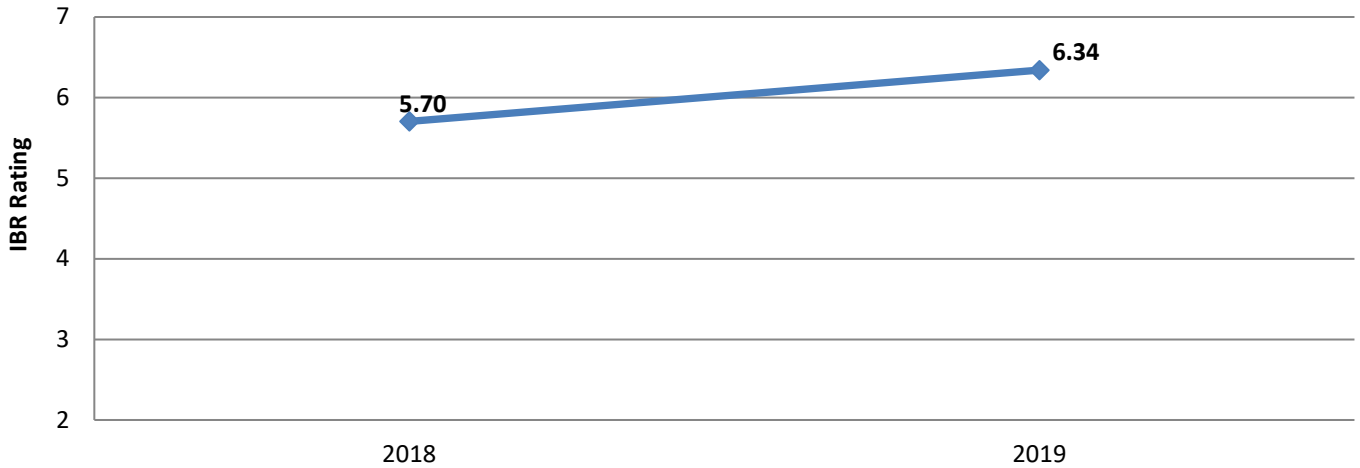
	Waldmar Court	Coordwood Trail to end of road.	0.16
	Wyndwood Court	Coordwood Trail to end of road.	0.15
	Williams Road	Lower Mograin Road to Black River Road.	0.48
5	Alpena State Road	Cranberry Farm to Elliot Creek Road	0.92
	Birchall Court	Lakewood Drive to end of road.	0.26
	Coordwood Trail	End of Public Road to Scenic Court.	0.04
	Fenlon Road	M-33 to end of road.	0.22
	Huron Trail	US-23 to Oshaughnessy Road.	1.42
	Mackinaw Straits Drive	Huron Trail to end of road.	0.20
	Ridge Road	Mullett Lake Woods Road south to end of road.	0.26
	Sandown Court	Lakewood Drive to end of road.	0.14
4	Agnes Road	Manning Road then west to Township Line.	0.25
3	Bayou Drive		0.25
	Bayview Drive	Black River Road to Bayou Drive.	0.04
	Hackmatack Road	Beebe Road then west to end of road.	0.05
2	Access Lane	Highbanks Drive to end of road.	0.06
	Damn Road	Black River Road to seasonal.	0.18
	Gower Lane	Hackmatack Road then south to end of road.	0.04
	Manderson Drive	East and west of Access Drive.	1.06
	Meyer Pit Road	Black River Road to Mograin Road.	0.54
	O'Shaughnessy Road	Huron Trail then west to end of road.	0.30
1	N Elliott Creek Road	US-23 then south to end of road.	0.22
	St.Antoine Road	End of pavement to seasonal road.	0.27

## 2018 - 2019 IBR Ratings for Gravel Local Roads



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## Average IBR Rating 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.