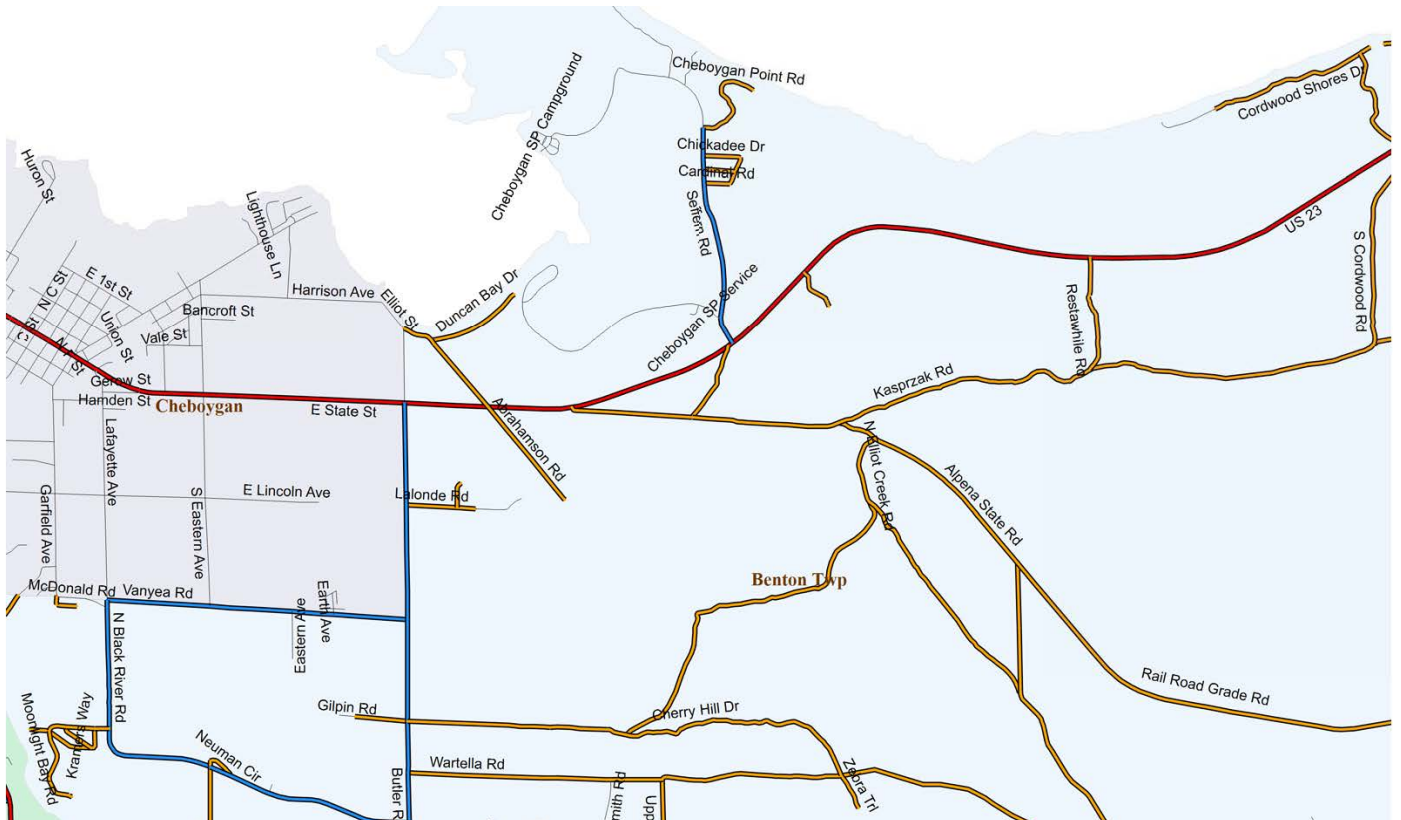
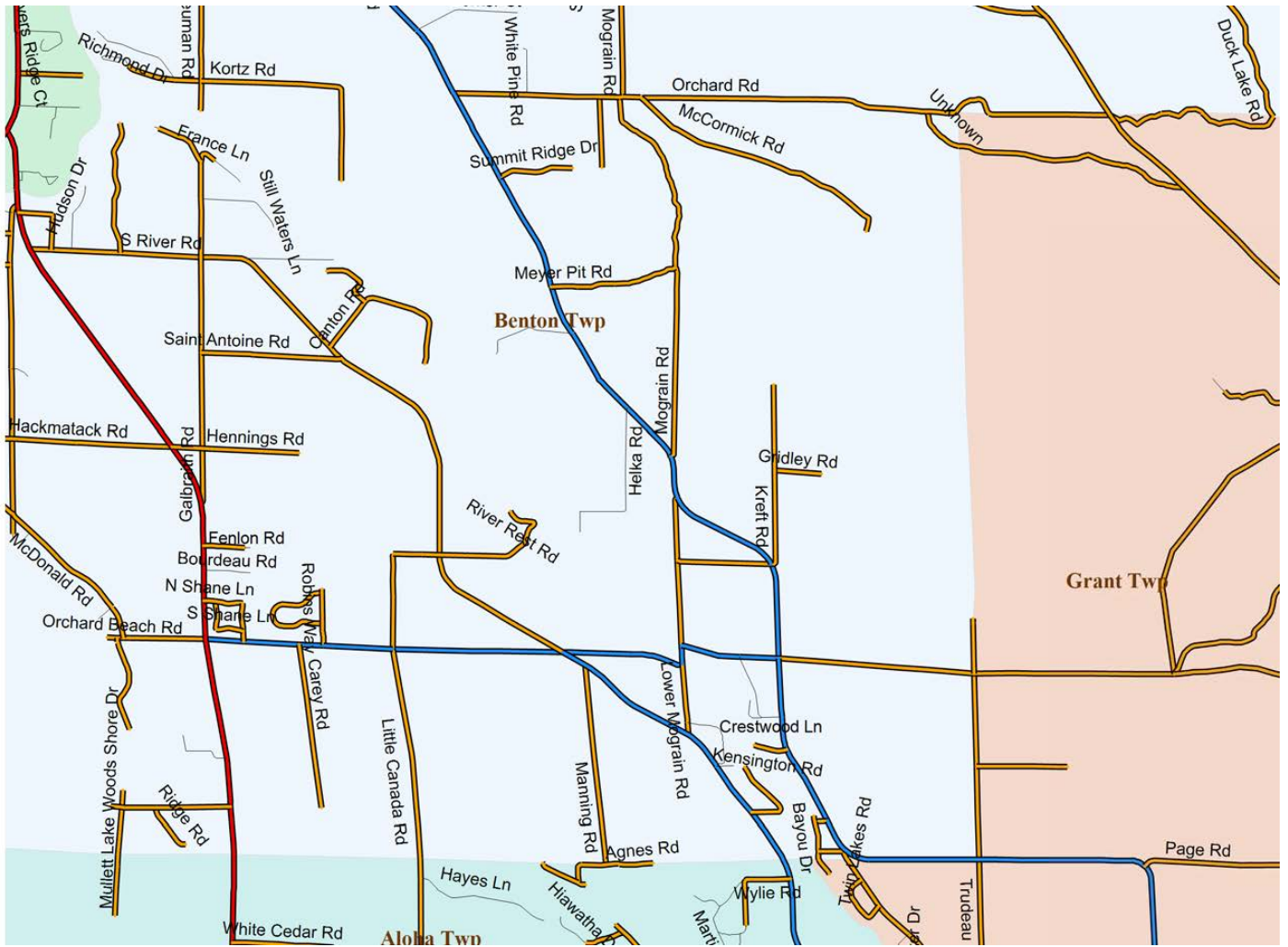


Cheboygan County Road Commission

Benton Township Local Road Ratings Report for 2020

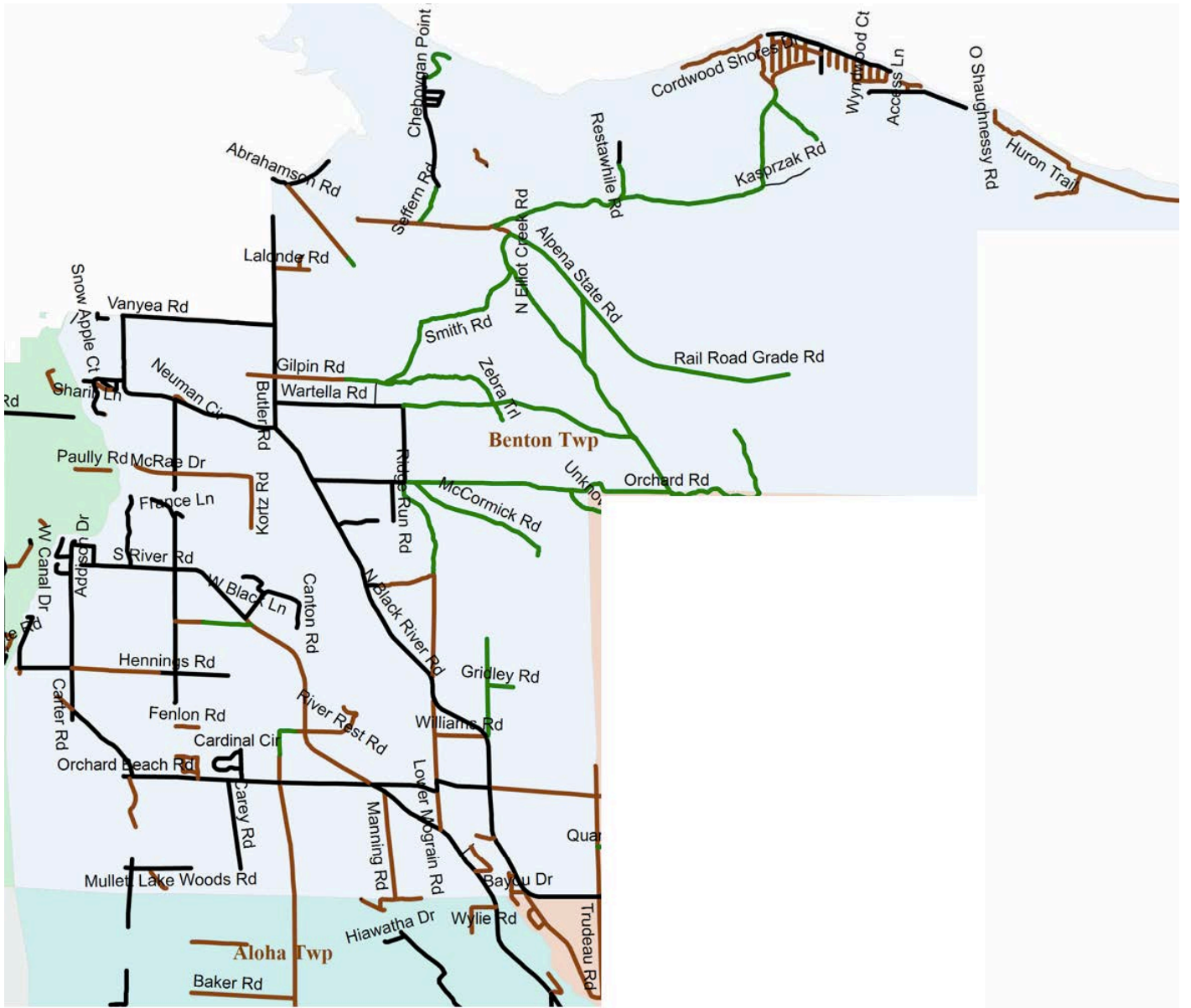
The goal of the Road Commission is to use Asset Management Strategies when planning projects for the roads under the jurisdiction of the Cheboygan County Road Commission. Asset management, as defined by Public Act 199 of 2007, is an “ongoing process of maintaining, upgrading and operating physical assets 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



Roads by Surface Type

Black = Pavement – Brown = Gravel – Green = Seasonal



**Good / Fair / Poor Condition
Paved Roads (primary and local)**

Green = Good - **Yellow** = Fair - **Red** = Poor - **Blue** = Non-paved

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

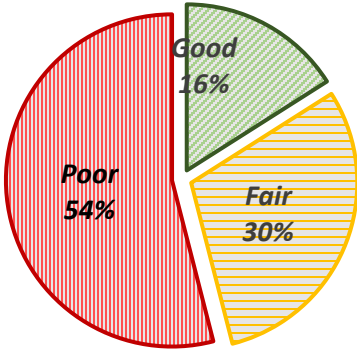
Gravel roads are rated using the Inventory-Based Rating System™ for Gravel Roads (IBR). The IBR system considers three characteristics of a road segment to determine a rating for the segment. Surface width, drainage adequacy and structural adequacy are all evaluated to determine the segment rating. From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

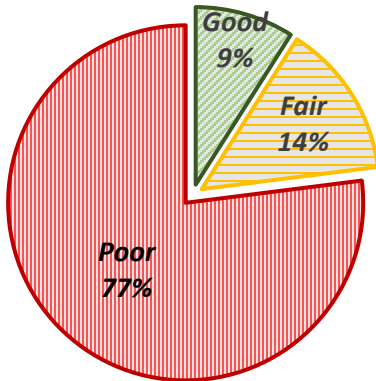
Benton Township Paved Local Road Ratings

Statewide Local Roads



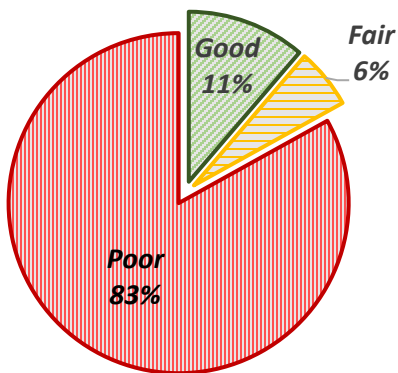
Condition of paved local roads across the State

Countywide Paved Local Roads



Condition of paved local road in Cheboygan County

Benton Township Paved Local Roads



Condition of paved local roads in Benton Township

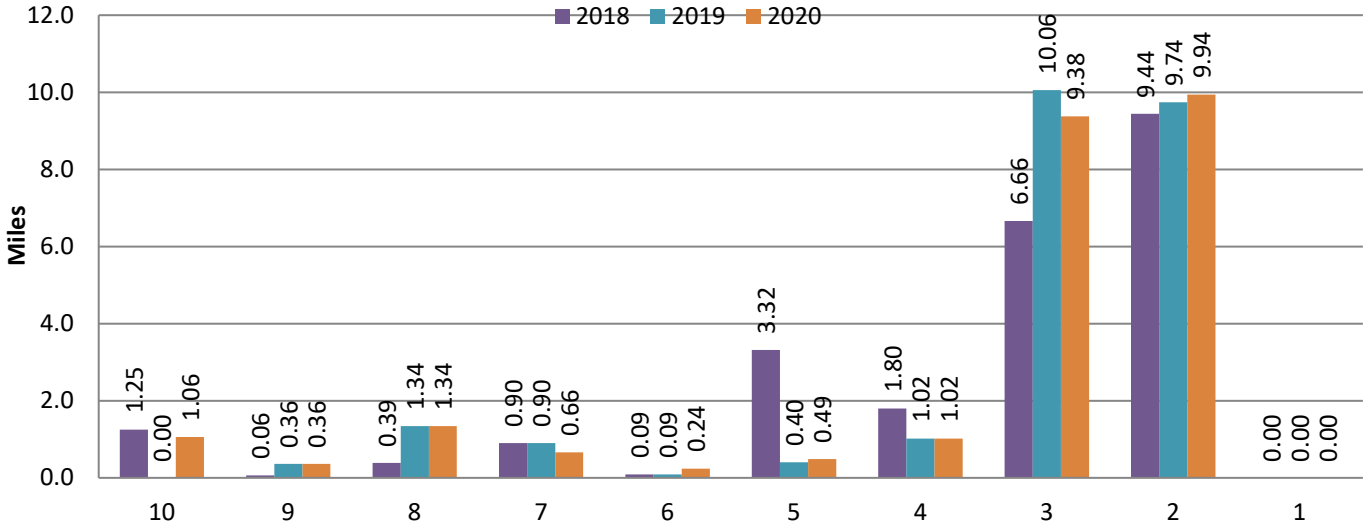
Good = PASER Rating 10-9-8 / Fair = PASER Rating 7-6-5 / Poor = PASER Rating 4-3-2-1

Current Paved Road Ratings

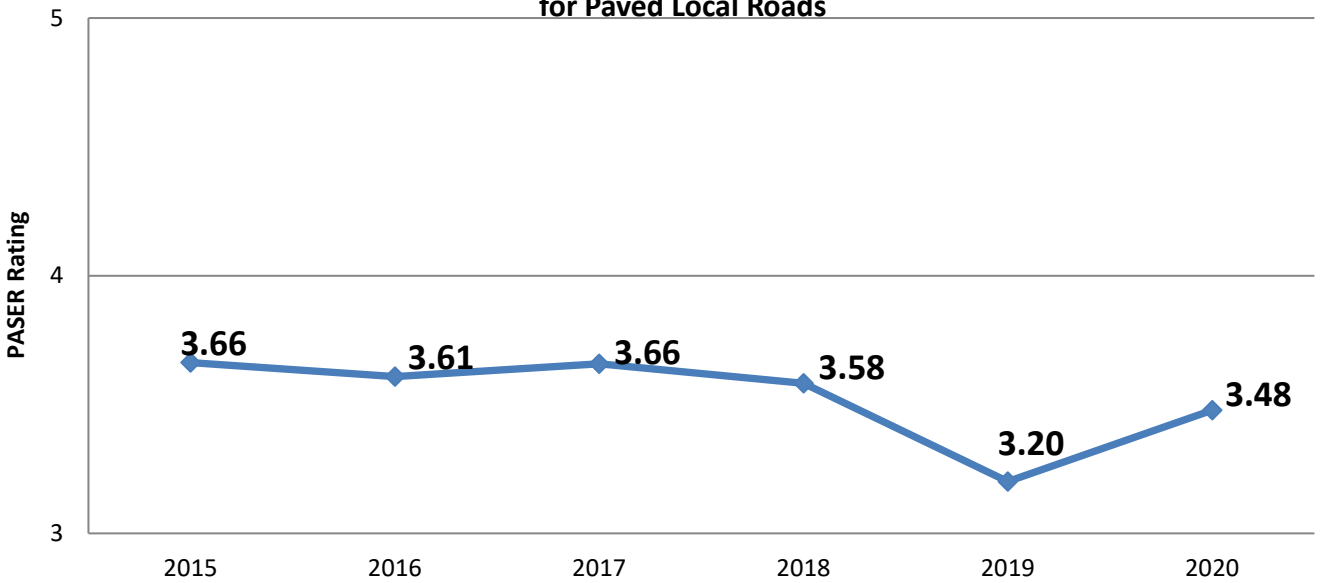
PASER Rating	Road Name	Limits	Length (miles)
10	Beebe Road	Hack-Ma-Tack Road then north to ed of pavement.	0.47
	Cordwood Trail	Straitsview Drive then westerly to end of road.	0.59
9	Canton Road	South River Road to West Black Lane.	0.30
	France Lane	Lindburgh Lane to End of Public Road.	0.06
8	West Black Lane	Canton Road to end.	0.34
	Canton Road	West Black Lane to end.	0.61
	Summit Ridge Drive	Black River Road to end of road.	0.39
7	Cordwood Trail	Straitsview Drive then easterly to end of road.	0.66
6	Straitsview Drive	US-23 to Coordwood Trail.	0.24
5	Blue Jay Avenue	Seffern Road to Robin Road.	0.14
	Cardinal Road	Seffern Road to Robin Road.	0.12
	Mullett Lake Woods Shore Dr	Mullett Lake Woods Road then north to end of road.	0.09
	Robin Road	Cardinal Road to Chickadee Road.	0.14
4	Chickadee Road	Seffern Road to Robin Road.	0.17
	Galbraith Road	South River Road to Lindburgh Lane.	0.57
	Mullett Lake Woods Shore Dr	Mullett Lake Woods Road then south to Township Line.	0.28
3	Cardinal Circle	Robins Way to Robins Way.	0.62
	Carey Road	Orchard Beach Road then south to end of road.	0.87
	Galbraith Road	M-33 to South River Road	1.38
	Highbanks Drive	US-23 to end of road.	0.98
	Islandview Drive	Carter Road to end of road.	0.33
	Moonlight Bay Road	Black River Road then southerly to end of road.	0.71
	Mullett Lake Woods Road	M-33 to Mullett Lake Woods Shore Drive.	0.60
	Orchard Road	Black River Road to Upper Mograin Road.	0.89
	Restawhile Road	US -23 then south to end of pavement.	0.18
	Ridge Run Road	Orchard Road then south to end of road.	0.38
	Robins Way	Orchard Beach Road to end of road.	0.30
	Sharil Lane	Moonlight Bay Road then westerly to end of road.	0.11
	Upper Mograin Road	Orchard Road to Wartella Road.	0.73
Wartella Road	Butler Road to Upper Mograin Road.	1.30	
2	Abrahamson Road	Butler Road to Duncan Bay Drive.	0.12

2	Addison Drive	South River Road to Riveria Drive.	0.18
	W Canal Drive	Carter Road to end of road.	0.22
	Carter Road	M-33 then south to end of road.	1.75
	Duncan Bay Drive	Abrahamson Road to end of road.	0.48
	Hackmatack Road	Beebe Road to Carter Road.	0.50
	Henning Road	M-33 to end of road.	0.68
	John Werner Drive	South River Road then north to end of road.	0.73
	Kramers Way	Sharon Lane to Moonlight Bay Road.	0.11
	Lindburgh Lane	Galbraith Road then westerly to end of road.	0.30
	McDonald Road	Orchard Beach Road to Carter Road.	0.90
	Meyer Pit Road	Black River Road to end of pavement.	0.13
	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 Dr.	Orchard Beach Road to surface segment split.	0.03
	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	Beebe Road	Hackmatack Road to end of pavement.	0.51

2018 - 2020 PASER Ratings for Paved Local Roads



Average PASER Rating for Paved Local Roads



Benton Township Gravel Local Road Ratings

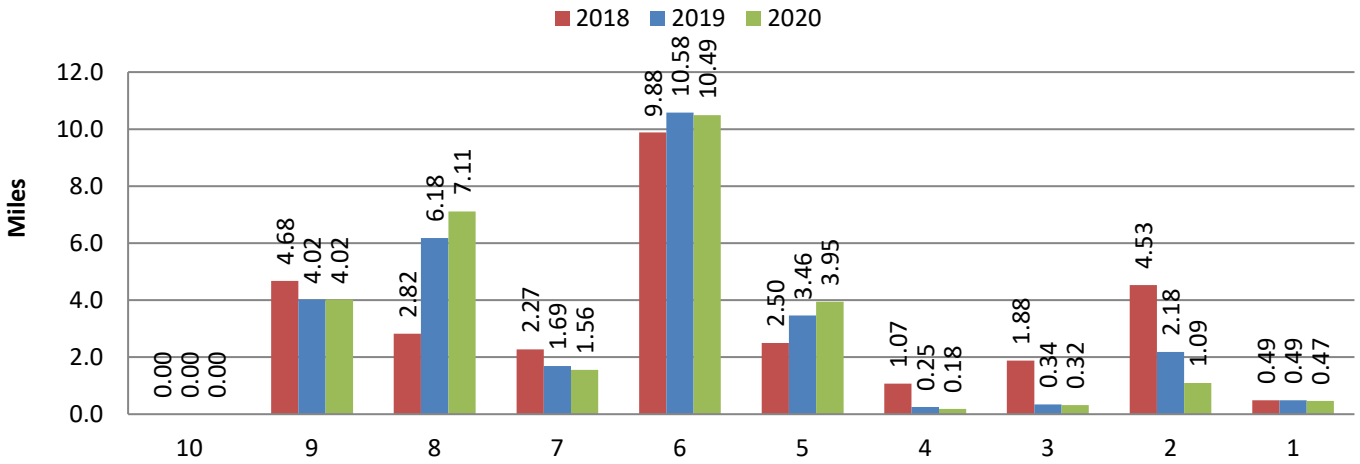
Current Gravel Road Ratings

IBR Rating	Road Name	Limits	Length (miles)
10			
9	Alpena State Road	US-23 to Cranberry Farm.	0.6
	Kortz Road	Nueman Road to curve.	0.75
	Little Canada Road	Orchard Beach Road then south to Township Line	1.11
	Lower Mograin Road	South River Road to Orchard Beach Road.	0.38
		Orchard Beach Road to Black River Road.	0.78
	McRae Road	Nueman Road then west to end.	0.4
	Moonlight Bay Road	Sharill to end of road	0.02
8	Abrahamson Road	Duncan Bay Drive then southeasterly to end of road.	1.06
	Cedarwood Drive	Lakewood Drive to Coordwood Trail.	0.3
	Lalonde Road	Butler Road to end of road.	0.34
	Manning Road	Agnes Road to South River Road.	1.06
	Orchard Beach Road	Black River Road to Trudeau Road.	1.06
	South River Road	Canton Road to Orchard Beach Road.	2.36
	N Shane Lane	M-33 to Orchard Beach Road.	0.43
	S Shane Lane	N Shane Lane to N Shane Lane.	0.3
	W Shane Lane	N Shane to S Shane.	0.15
	Twin Lakes Road	Bayou Drive to Township Line.	0.05
7	Cordwood Road	US-23 to RidgeView Drive.	0.04
	Hackmatack Road	Carter Road to M-33.	0.85
	Kortz Road	Curve to end of road.	0.48
	Nueman Road	Black River Road to Neuman Circle.	0.03
	Sky Chief Road	Lalonde Road to end.	0.16
6	Agnes Road	Manning Road then west to Township Line.	0.13
	Bayou Drive	Bayview Drive to Twin Lakes Road.	0.13
	Birchall Court	Lakewood Drive to end of road.	0.26
	Cedarhurst Drive	Grandville Drive to Cordwood Trail.	0.41
	Coordwood Road	Ridgeview Drive to Cordwood Shored Drive.	0.52
	Coordwood Shores Drive	East and west of Coordwood Road.	0.78
	Gilpin Road	Butler Road to end of road.	0.96

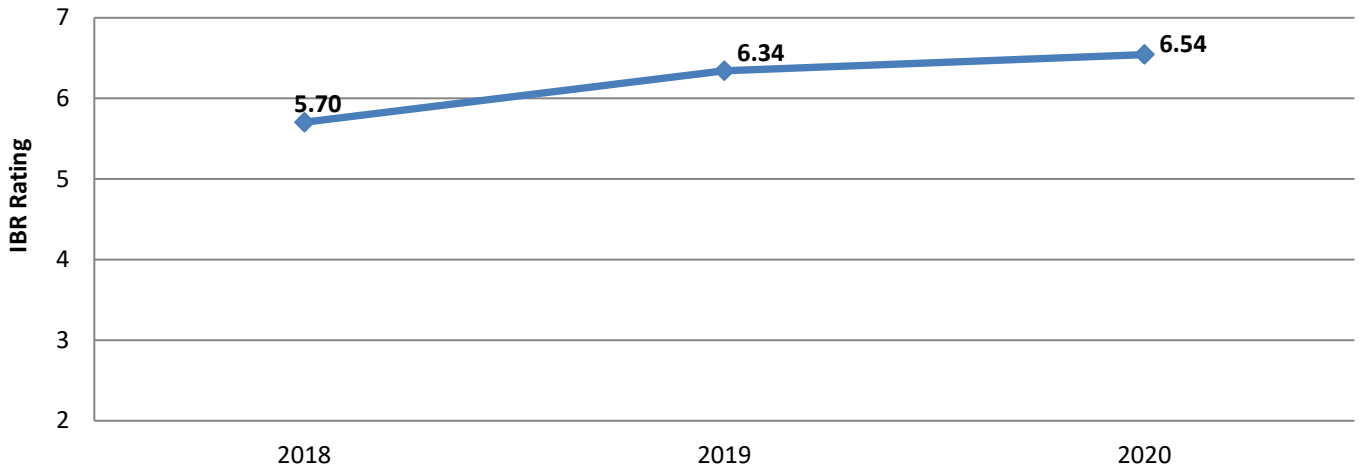
6	Granville Drive	Cedarhurst Drive to Cordwood Trail.	0.22
	Helmond Drive	Cedarhurst Drive to Coordwood Trail.	0.14
	Koral Bay Road	South River Road to the end of road.	0.46
	Kramers Way	Sharron Lane to Moonlight Bay Road.	0.23
	Kreft Road	Lower Mograin Road to Black River Road.	0.5
	Lakewood Drive	Scenic Court to Straitsview Drive.	0.49
	Larchway Court	Coordwood Trail to end of road.	0.16
	Linden Drive	Cedarhurst Drive to Cordwood Trail.	0.19
	Little Canada Road	South River Road to Seasonal Road.	0.1
		Orchard Beach Road to Seasonal Road.	0.27
	McDonald Road	Carter Road to end of Road.	0.19
	Neuman Circle	Neuman Road to Black River Road.	0.13
	Orchard Beach Drive	Orchard Beach Road south to end of road.	0.29
	Ridgeview Drive	Cordwood Roadto end of road.	0.76
	River Rest Drive	South River Road to end of road.	0.75
	Scenic Court	Coordwood Trail to end of road.	0.35
	Tamarac Drive	North Black River Road to Bayou Drive.	0.2
	Twin Lakes Road	Black River Road to Bayou Drive.	0.02
	Upper Mograin Road	Black River Road to Meyer Pit Road.	0.9
	Vaness Drive	Cedarhurst Drive to Coordwood Trail.	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
	Fenlon Road	M-33 to end of road.	0.22
	Mackinaw Straits Drive	Huron Trail & O'Shaughnessy to US 23.	1.64
	Ridge Road	Mullett Lake Woods Road south to end of road.	0.26
	O'Shaughnessy Road	Mackinac Straits to trail end.	0.77
	Sandown Court	Lakewood Drive to end of road.	0.14
4	Agnes Road	Long Lake BAS to end of road.	0.18
3	Bayou Drive		0.25
	Bayview Drive	Bayou Drive to Township Line.	0.04
	Hackmatack Road	Beebe Road then west to end of road.	0.03
2	Access Lane	Highbanks Drive to end of road.	0.06
	Agnes Road	Agnes to Long Lake BAC.	0.07

2	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.	0.2
	Meyer Pit Road	Black River Road to Mograin Road.	0.54
1	N Elliott Creek Road	US-23 then south to end of road.	0.2
	St. Antoine Road	End of pavement to seasonal road.	0.27

2018 - 2020 IBR Ratings for Gravel Local Roads



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 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.