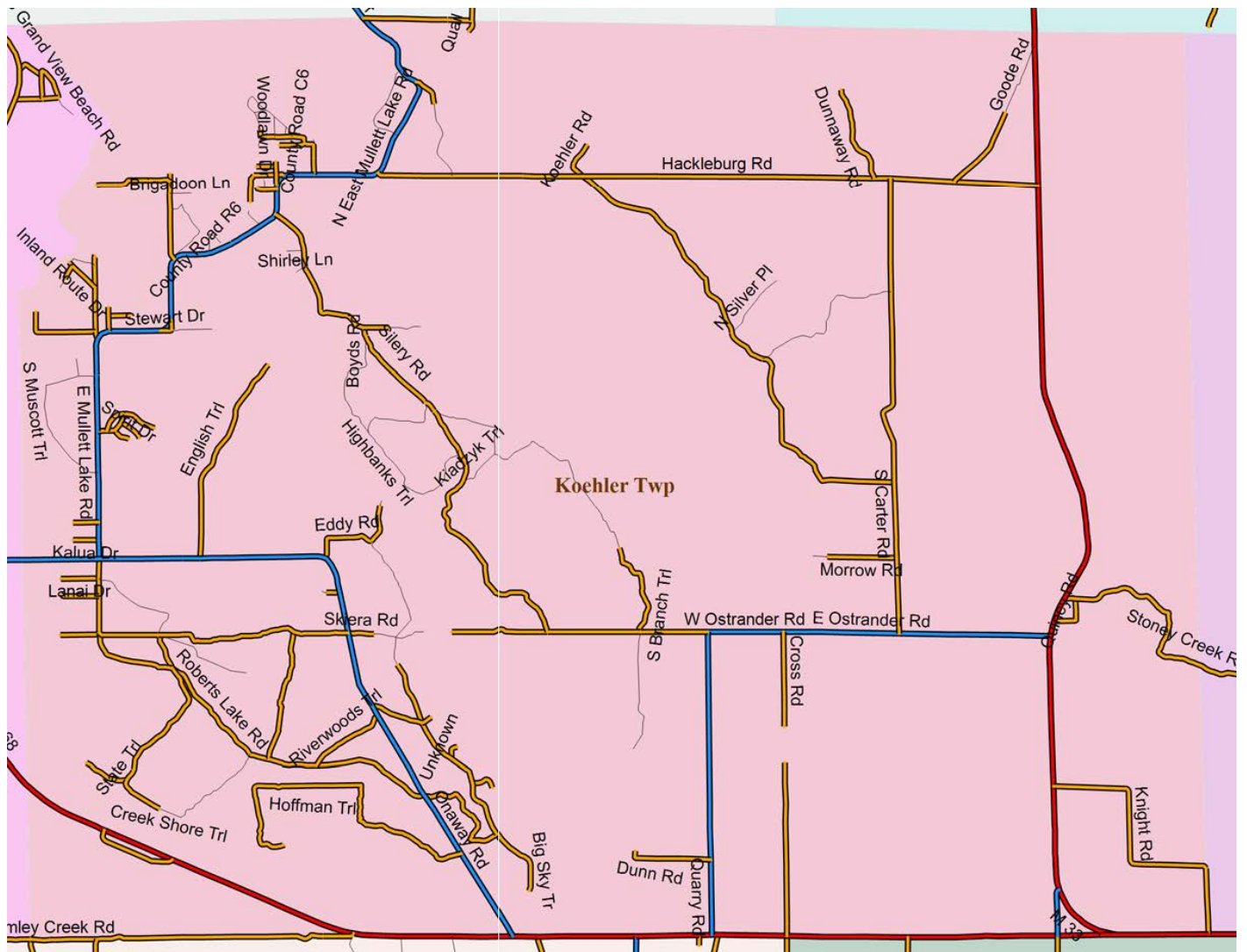


Cheboygan County Road Commission

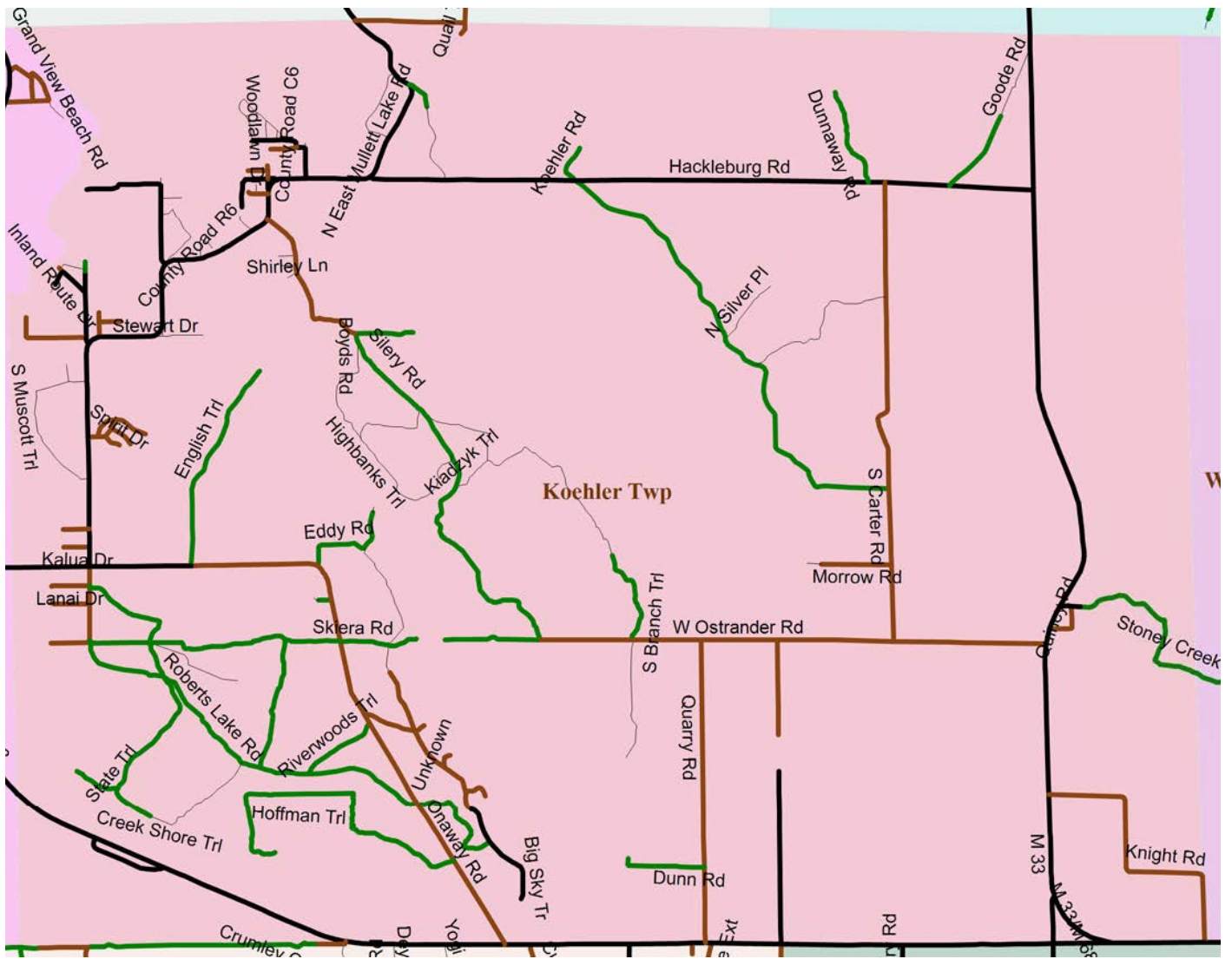
Koehler Township Local Road Ratings Report for 2021

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.



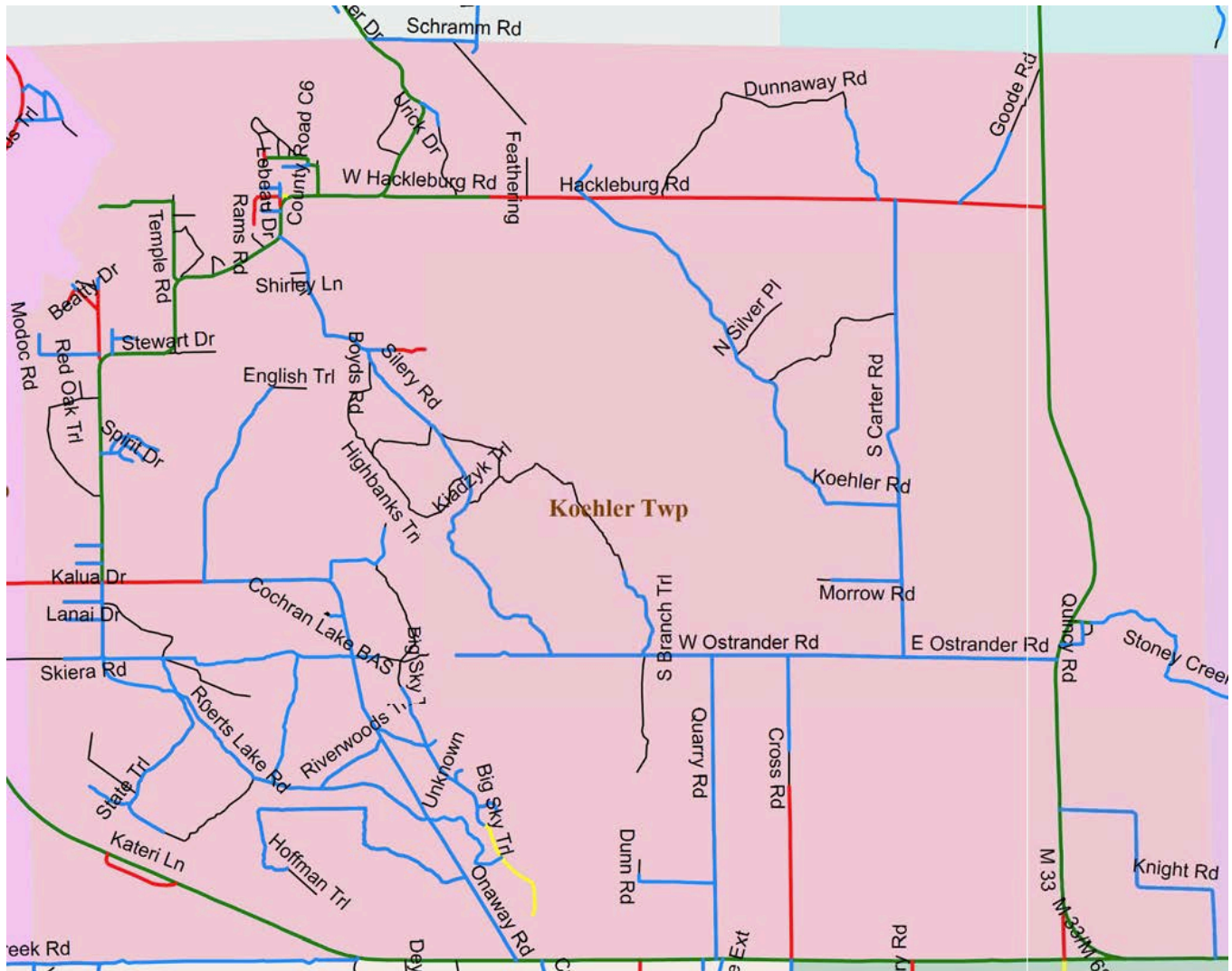
Township Roads by Legal System

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



Roads by Surface Type

Black = Pavement – Brown = Gravel – Green = Seasonal



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

Green = Good (Rating 10-9-8)

Yellow = Fair (Rating 7-6-5)

Red = Poor (Rating 4-3-2-1)

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

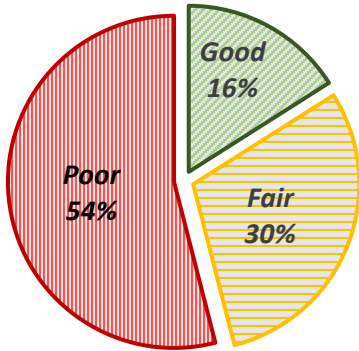
Gravel roads are rated using the Inventory-Based Rating System™ for Gravel Roads (IBR). The IBR system considers three characteristics of a road segment to determine a rating for the segment. Surface width, drainage adequacy and structural adequacy are all evaluated to determine the segment rating. From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

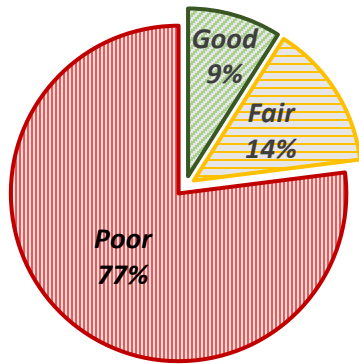
Koehler Township Paved Local Road Ratings

Statewide Local Roads



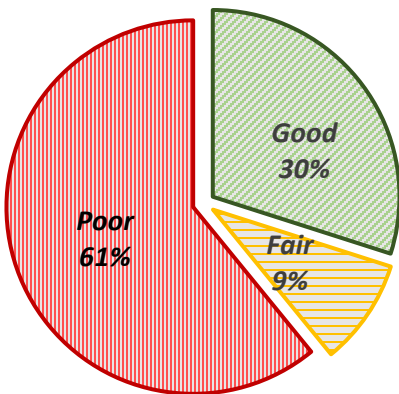
Condition of paved local roads across the State

Countywide Paved Local Roads



Condition of paved local road in Cheboygan County

Koehler Township Paved Local Roads



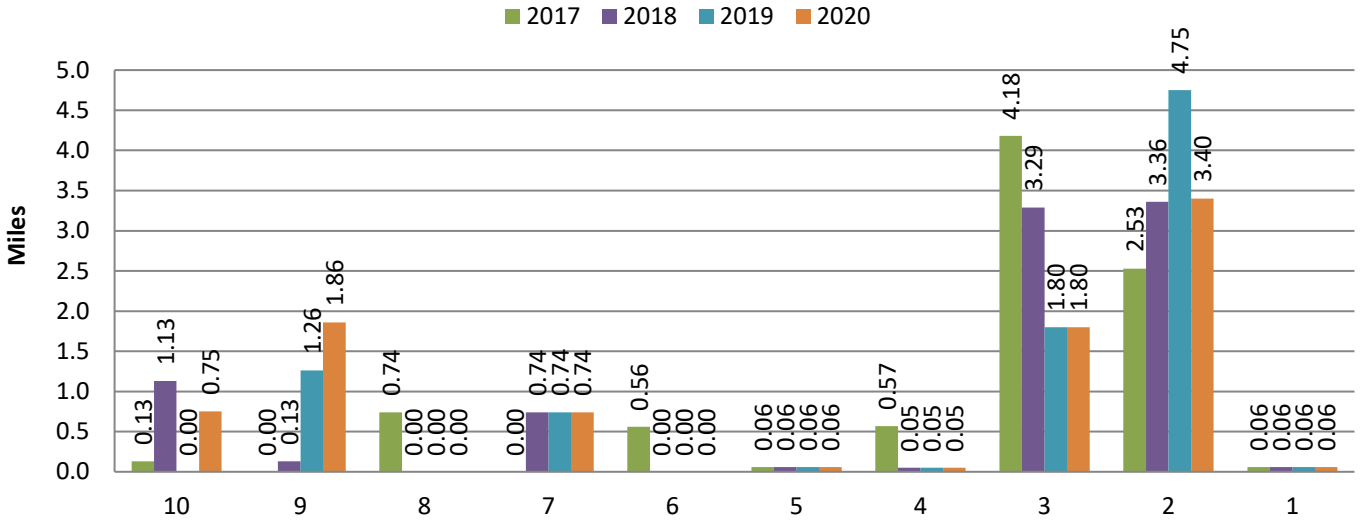
Condition of paved local roads in Koehler Township

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

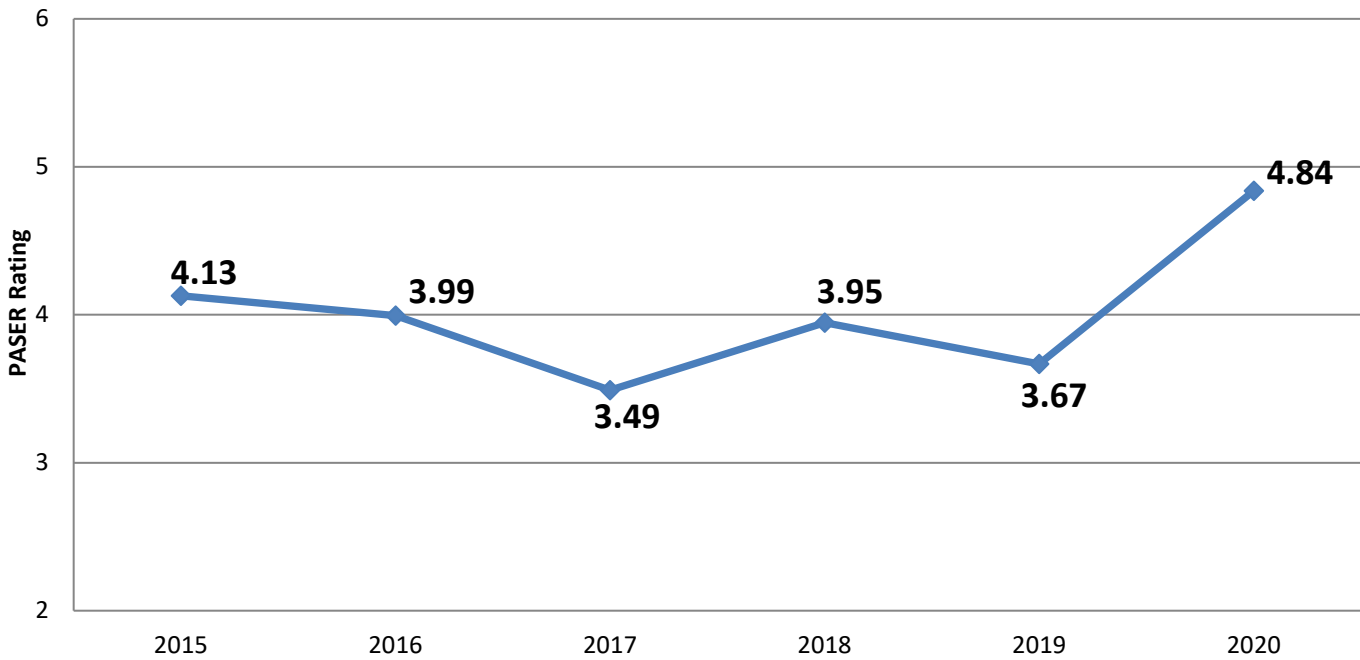
Current Paved Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10	Hackleburg Road	East Mullett Lake Road then .75 miles east.	0.75
9	Parrott Point	East Mullett Lake Road to Lakeside Trail.	0.60
	Stoney Creek Road	M-33 to end of asphalt.	0.13
	Temple Road	East Mullett Lake Road to end.	1.13
8			
7	Big Sky Trail	South end then north to end of pavement.	0.74
6			
5	Lynn Drive	East Mullett Lake Road to Lebeau Drive.	0.06
4	Bowersock Road	East Mullet Lake Road to Modock Road.	0.05
3	Hackleburg Road	Feathering Trail to Dunnaway Road (west).	0.78
		Dunnaway Road (east) to M-33.	1.02
2	Bowersock Road	Modock Road to end of road.	0.52
	Hackleburg Road	0.75 miles east of East Mullett Lake Rd to Feathering Tr.	0.33
		Dunnaway Road (west) to Dunnaway Road (east).	1.43
	Inland Route Drive	Bowersock Road to the end of road.	0.30
	Kateri Lane	M-68 to M-68.	0.55
	Lynn Drive	Lebeau Drive to end of road.	0.27
1	Lebeau Drive	Lynn Drive south to end of road.	0.06

2017 - 2020 PASER Ratings for Paved Local Roads



Average PASER Rating for Paved Local Roads

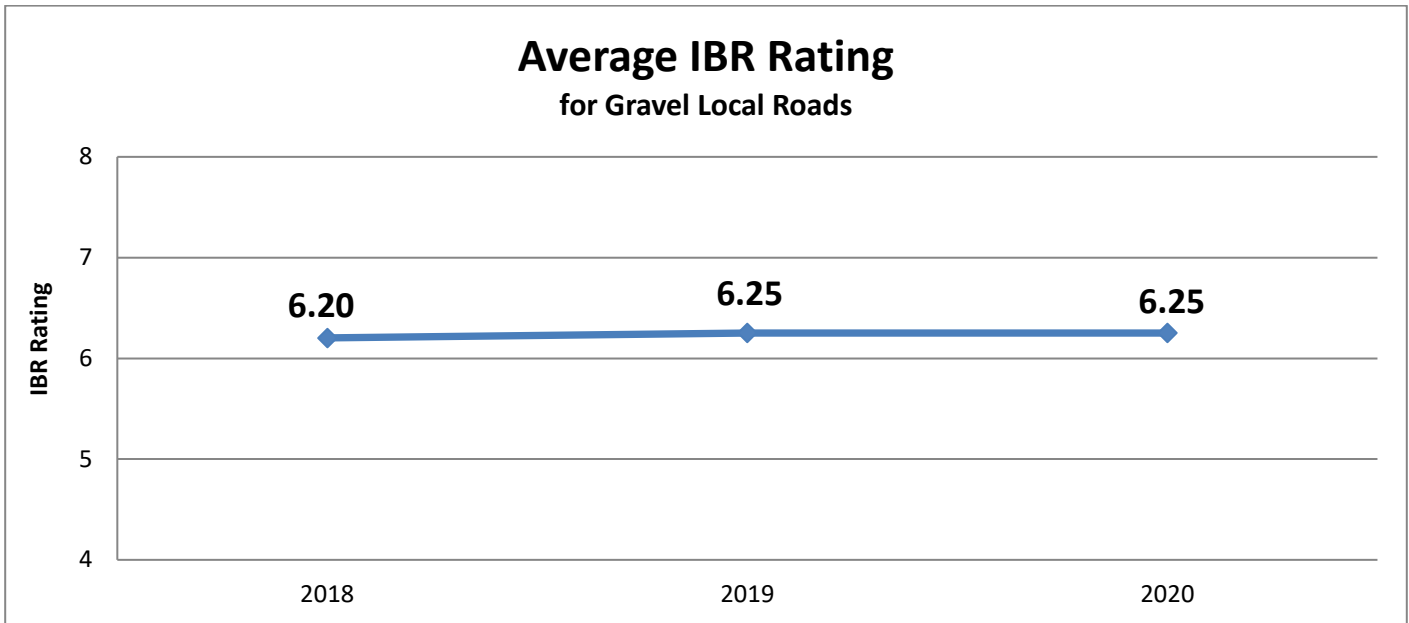
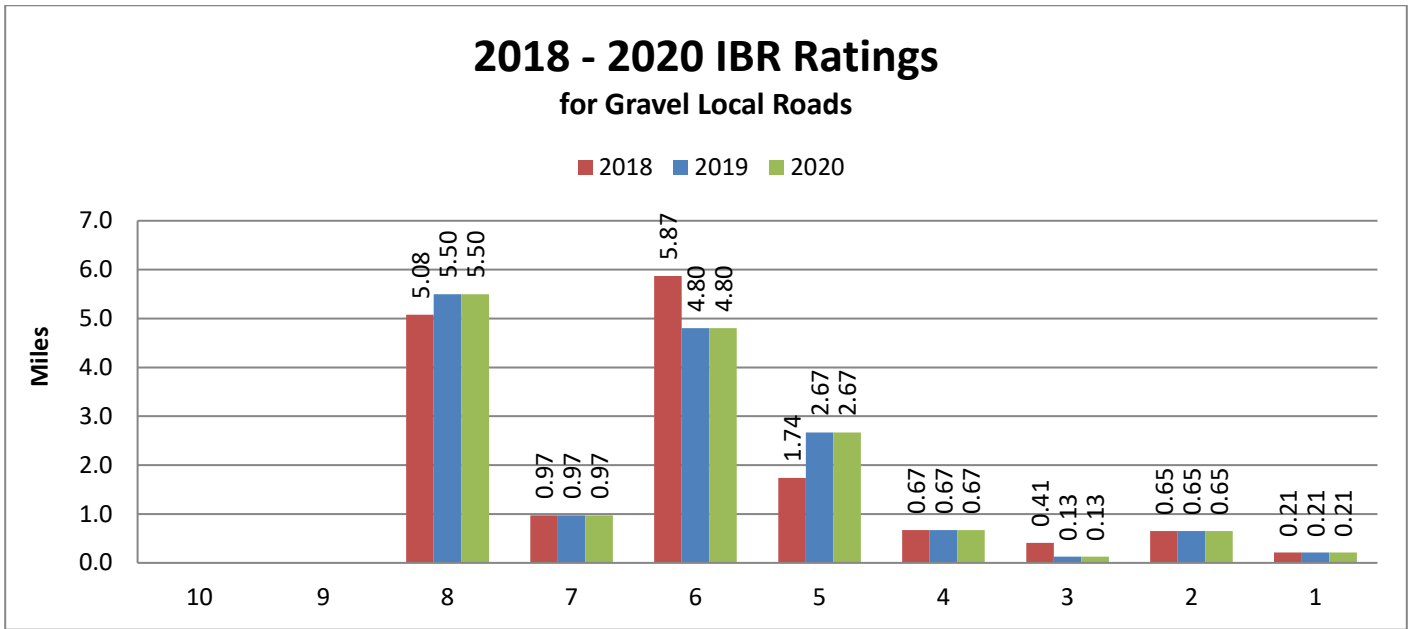


Koehler Township Gravel Local Road Ratings

Current Gravel Road Ratings

IBR Rating	Road Name	Limits	Length (miles)
10			
9			
8	Aloha Drive	East Mullett Lake Road to end of road.	0.25
	Bali Hai Drive	East Mullett Lake Road to end of road.	0.17
	Carter Road	Ostrander Road to Hackleburg Road.	3.05
	Commanchee Road	Hatchet Road then easterly to end of road.	0.17
	Iverson Trail	Hatchet Road to end of road.	0.42
	East Mullet Lake Road	Onaway Road to end of road.	0.50
	Kalua Drive	East Mullett Lake Road to end of road.	0.17
	Lanai Drive	East Mullett Lake Road to end of road.	0.25
	Skiera Road	East Mullett Lake Road then west to end.	0.52
7	Cross Road	Ostrander Road then south to seasonal road.	0.51
	Morrow Road	Carter Road to the end of road.	0.46
6	Harold B Street	Parrot Point Road to end.	0.17
	Hatchet Road	East Mullett Lake Road to Comanchee Road.	0.20
	Knight Road	M-33 to M-68.	1.92
	Modock Road	Bowersock Road to the end of road.	0.53
	Ostrander Road	Silery Road to Quarry Road.	1.19
	Pancheck Road	Lebeau Drive to end of road.	0.20
	Quincy Road	M-33 to Stoney Creek Road.	0.31
	Spirit Drive	Hatchet Trail to end of road.	0.12
	Trembly Drive	East Mullett Lake Road to end of road.	0.16
5	Big Sky Trail	Riverwoods Trail then south to pavement.	1.01
	Lebeau Drive	Lynn Drive to end of road.	0.08
	Quail Trail	Schramm Road to end of road.	0.18
	Silery Road	East Mullett Lake Road to Briarwood Trail.	1.24
	Sunderland Road	Trembly Road then east to end of road.	0.16
4	Big Sky Trail	Riverwoods Trail then north to end of road.	0.42
	Riverwoods Trail	Onaway Road to big Sky Trail	0.25
3	Red Pine Road	East Mullett Lake Road to end of road.	0.13

2	Crumley Creek Road	Hatch Road to end.	0.65
1	Crumley Creek Road	M-68 then west to seasonal road.	0.21



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.