

2022 BEAR CREEK TOWNSHIP 5-YEAR ROAD PRIORITY LIST
 Revised January 31, 2022
PASER ROAD RATING SYSTEM

ROAD RATING	SUGGESTED REPAIR	COST PER MILE
10	No maintenance necessary. New Road.	\$ 0
9	No maintenance necessary. Smooth surface.	\$ 0
8	Crack filling or shoulder patching.	\$ 700
7	General crack sealing and/or minor patching.	\$ 2,600
6	Sealcoat Micro-surface Ultra-Thin Asphalt	\$ 28,000 or \$ 35,000 or \$ 85,000
5	Asphalt wedging only Asphalt wedging and sealcoat Asphalt wedging and ultra-thin asphalt 1-1/2" Asphalt Cap	\$ 55,000 or \$ 83,000 or \$ 140,000 or \$ 110,000
4	Asphalt wedge and cap or heavy cap.	\$ 170,000
3	Pulverize, gravel and pave. Surface poor. Cold-in-Place with ultra-thin (3 miles +)	\$ 280,000 \$ 250,000
2	Reconstruction. Very poor condition.	\$ 400,000 +/-
1	Reconstruction. Failed road surface.	\$ 400,000 +/-

BEAR CREEK TOWNSHIP

1 Mil brings in approximately \$450,000 per year. The township allocation for 2022 is \$16,952.
 TOTAL 2022 PROPOSED INVESTMENT = \$617,000
 TOTAL 5-YEAR EXPENSE = \$3,085,000

CATEGORIZATION OF HARD-SURFACED ROADS IN BEAR CREEK TOWNSHIP

PASER RATING	ROAD NAME	LIMITS
10	Bellmer Road Country Club Road Mindel Road Rustic Road	From Pickerel Lake to Rustic for 0.51 miles From Surrey to Division for 0.46 miles From Evergreen then north for 0.30 miles From Bellmer to Still for 0.75 miles
9	Atkins Road Atkins Road Cincinnati Pointe Ln. Click Road Graham Road Gruler Road Howard Road Jones Landing Road	From Division to City of Petoskey for 0.76 miles From Greenwood then north and west for 1.34 miles From Graham to Springvale Twp. for 0.06 miles From Cedar Valley then east for 0.51 miles From Bellmer to Springvale Twp. for 0.49 miles From Howard to River for 1.84 miles From River to Lears for 0.26 miles From Gruler then south to the end for 0.46 miles

	King Road Kolinske Road Pickerel Lake Road	From Evergreen then east for 0.10 miles From Pickerel Lake to Country Club for 0.76 miles From U.S.31 to Bellmer for 2.01 miles
8	Amacher Road Atkins Road Atkins Road Barney Road Bayside Avenue Bay View Drive Bear River Road Birch Lane Boyer Road Bren Del Drive Bridge Court Brubaker Road Cedar Valley Road Cemetery Road Clarion Road Click Road Click Road Country Club Road Division Road Ecker Road Edgewater Avenue Evergreen Trail Fletcher Road Gokee Road Greenwood Road Greenwood Road Greenwood Road Greg Road Gruler Road Hampton Ave. Hiawatha Trail Hillview Drive Hoag Road Howard Road Howard Road Howard Road Jensen Road Kegomic Road Kemp Road Kemp Road Kent Road	From Pickerel Lake then south for 0.27 miles From Division then east for 2.04 miles From Maplewood then east for 0.74 miles From U.S.31 to Hiawatha Trail for 0.23 miles From Edgewater to Park for 0.06 miles From Traverse Heights then south for 0.22 miles From Evergreen Trail to Springvale Twp. for 1.34 miles From Timber Lake to the end for 0.25 miles From Country Club to Mitchell for 0.50 miles From Country Club thru entire loop for 0.50 miles From Meadow then west to the end for 0.14 miles From Russett to Greenwood for 2.00 miles From Greenwood to Evergreen for 2.74 miles From Williams to Sheridan for 2.49 miles From Howard to City of Petoskey for 0.09 miles From River then west for 0.26 miles From River to Cedar Valley for 1.13 miles From Fletcher to Kolinske for 0.75 miles From U.S.31 then north for 0.22 miles From Evergreen Trail then east for 0.30 miles From Hampton to Kent for 0.07 miles From Bear River to River for 3.56 miles From Mitchell to Bellmer for 0.40 miles From Benal to Johnson for 1.05 miles From Atkins Road then south and east for 0.87 miles From Cedar Valley to Brubaker for 1.50 mile From Atkins to Brubaker for 1.49 miles From U.S.131 to Howard for 0.51 miles From U.S.131 then west for 0.32 miles From U.S.31 to Edgewater for 0.22 miles From M-119 to Powell for 1.98 miles From Division to Division for 0.28 miles From River then west for 0.82 miles From River to City of Petoskey for 0.08 miles From U.S.131 to Bear River for 0.87 miles From U.S.131 to Lears for 3.27 miles From Cedar Valley then east for 0.29 miles From M-119 to Zaiger for 0.12 miles From Howard to U.S.131 for 0.51 miles From U.S.131 to Cemetery for 0.47 miles From U.S.31 to Shire for 0.12 miles

	<p>Kent Road Kilborne Drive King Road Konle Road Lears Road Lears Road Lewinski Road Lincoln Place Little Cedar Drive Lorrain Drive Manvel Road Maplewood Road Maplewood Road Maplewood Road McDougal Road Meadow Lane Mitchell Park Drive Newberry Avenue Oxford Lane Park Avenue Pickerel Lake Road Pine Road Powell Road Rolling Hills Lane Russett Road Russett Road Shanley Road Shire Avenue Sterly Road Straddling Road Sunset Road Surrey Lane Timber Lake Drive Turbush Avenue Vinton Street Vis A Vis Lane Williams Road Zaiger Drive</p>	<p>From Park to Edgewater for 0.06 miles From U.S. 131 to the end for 0.28 miles From Evergreen then east for 0.10 miles From M-119 to Pickerel Lake for 0.29 miles From U.S.131 to Hager for 0.16 miles From Anderson to Cemetery for 0.23 miles From U.S. 31 west for 0.03 miles From Mitchell then north for 0.21 miles From Mitchell then south for 0.25 miles From Alcan thru entire loop for 0.43 miles From U.S.31 to Country Club for 0.33 miles From Atkins then south for 0.10 miles From Greenwood then north for 0.50 miles From Atkins to Mitchell for 0.75 miles From Atkins to Northmen for 0.25 miles From Mitchell then north for 0.23 miles From Division to Mitchell for 0.27 miles From Bayside to Hampton for 0.09 miles From Lincoln Place then east and west for 0.05 miles From Hampton to Kent for 0.07 miles From U.S.31 to Konle for 0.11 miles From Timber Lake to U.S.131 for 0.30 miles From M-119 to Hiawatha Trail for 1.58 miles From Mitchell then north for 0.20 miles From Brubaker then south for 0.10 miles From Greenwood then north for 0.10 miles From Greenwood then west for 0.25 miles From Division to Rice for 0.33 miles From Bear River then north for 0.25 miles From Lintlong to Gokee for 0.50 miles From Kilborne to City of Petoskey for 0.09 miles From Country Club then south for 0.25 miles From Pine to Birch for 0.19 miles From U.S.31 to Shire for 0.12 miles From U.S.31 to Old Tannery for 0.06 miles From Bellmer then west for 0.22 miles From U.S.131 to Cemetery for 0.48 miles From U.S.31 to Kegomic for 0.04 miles</p>
7	<p>Alcan Road Bay View Drive Bellmer Road Benal Road Country Club Road Country View Road</p>	<p>From Mitchell to Country Club for 0.48 miles From Pickerel Lake then south for 0.44 miles From Graham to Pickerel Lake for 1.40 miles From seasonal sign then south for 0.49 miles From Surrey to Kolinske for 1.50 miles From Fletcher then west for 0.21 miles</p>

	<p>Division Road Fletcher Road Graham Road Hager Drive Lears Road Mishe Mokwa Mitchell Road Old Tannery Creek Pickerel Lake Road Shaw Road Skyline Road Straddling Road</p>	<p>From Atkins to Country Club for 1.47 miles From Pickerel Lake to Bellmer for 1.01 miles From U.S.31 to Bellmer for 0.14 miles From Lears then south for 0.06 miles From Hager then east and south for 0.06 miles From Powell thru entire loop for 0.47 miles From Boyer to Fletcher for 1.59 miles From Division to Rice for 0.34 miles From M-119 to Konle for 0.40 miles From U.S.31 to Hiawatha for 0.21 miles From Mitchell then north for 0.42 miles From Bear River to Lintlong for 0.55 miles</p>
6	<p>Bellmer Road Division Road Fletcher Road Hendricks Street Iduna Lane Intertown Road Lintlong Road Lears Road McDougal Road Mitchell Road Mitchell Road Rice Street Rolling Hills Lane</p>	<p>From Fletcher then north for 0.39 miles From U.S.31 to Country Club for 0.13 miles From Mitchell then south for 0.23 miles From Iduna then south for 0.12 miles From Hendricks then east for 0.18 miles From Howard to U.S.131 for 0.58 miles From Evergreen to Straddling for 0.94 miles From Anderson to U.S.131 for 0.16 miles From Atkins then south for 1.44 miles From City of Petoskey to Division for 0.75 miles From Division to Boyer for 0.62 miles From U.S.31 to Shire for 0.14 miles From Mitchell then north for 0.20 miles</p>
5	<p>Anderson Road Bear River Road Intertown Road Mitchell Road River Road</p>	<p>From City of Petoskey to Intertown for 1.25 miles From River to Sterly for 0.59 miles From U.S.131 to Cemetery for 0.39 miles From S. Fletcher to Springvale Twp. for 0.94 miles From Bear River to Howard for 4.97 miles</p>
4	<p>Greenwood Road McDougal Road Pickerel Lake Road</p>	<p>From McDougal Road to Cedar Valley for 1.00 mile From Click then north for 0.57 miles From Bellmer to Amacher for 0.51 miles</p>
3	<p>Cedar Valley Road Fotchman Ind. Park</p>	<p>From Greenwood to Atkins for 0.50 miles From U.S.31 then south for 0.40 miles</p>
2	None	-
1	None	-

2022 MILEAGE BREAKDOWN OF ROAD RATINGS FOR BEAR CREEK TOWNSHIP

(All roads)

<u>PASER RATING</u>	<u># OF MILES</u>	<u>AVERAGE REPAIR COST</u>	<u>TOTAL</u>
10	2.02	\$ 0	\$ 0
9	8.59	0	0
8	44.92	700	31,444
7	11.24	2,600	29,224
6	5.88	85,000	499,800
5	8.14	140,000	1,139,600
4	2.08	170,000	353,600
3	0.90	280,000	252,000
2	0.00	400,000	0

TOTAL HARD-SURFACED MILES = 83.77

COST = \$ 2,305,668

2022 AVERAGE ROAD RATING = 7.43

(21' = 7.38, 20' = 7.24, 19' = 7.07, 18' = 7.02, 17' = 7.21, 16' = 7.30, 15' = 7.00, 14' = 6.99, 13' = 6.85, 12' = 6.83, 11' = 6.56, 10' = 6.51, 09' = 6.35, 08' = 6.20, 07' = 5.93, 06' = 6.27, 05' = 5.53)

LOCAL ROAD BREAKDOWN

<u>PASER RATING</u>	<u># OF MILES</u>	<u>AVERAGE REPAIR COST</u>	<u>TOTAL</u>
10	2.02	\$ 0	\$ 0
9	5.82	0	0
8	44.08	700	30,856
7	8.42	2,600	21,892
6	2.78	85,000	236,300
5	0.00	140,000	0
4	1.00	170,000	170,000
3	0.90	280,000	252,000
2	0.00	400,000	0

TOTAL LOCAL HARD-SURFACED ROADS = 65.02

COST = \$ 711,048

2022 AVERAGE LOCAL ROAD RATING = 7.81

(21' = 7.56, 20' = 7.63, 19' = 7.36, 18' = 7.27, 17' = 7.24, 16' = 7.24, 15' = 7.34, 14' = 7.11, 13' = 6.90, 12' = 6.82, 11' = 6.65, 10' = 6.56, 09' = 6.27, 08' = 5.99, 07' = 5.39, 06' = 5.95, 05' = 5.26)

The goal of Asset Management is to allocate public resources in the most cost-effective manner. It should be our goal to bring our system into a good condition and to maintain the system in a good condition over the next 5 years. Bear Creek has met the goal of having at least a 7 or better rating with a 7.81 average local rating. Good is considered to be 7 or better.

BEAR CREEK TOWNSHIP SUGGESTED 5-YEAR ROAD REPAIR LIST

2022 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
6	\$ 28,000	2.78	\$ 77,840	Bellmer (0.39), Fletcher (0.23), Hendricks (0.12), Iduna (0.18), Intertown (0.58), Lintlong (0.94), Rice (0.14), Rolling Hills (0.20)
5	\$ 83,000	0.39	\$ 32,370	Intertown (0.39)
4	\$ 170,000	1.00	\$ 170,000	Greenwood (1.00)

Bellmer Road gravel road upgrade design. Upgrade and paving in 2023(?)

Krause Road gravel and pave upgrade. \$ 400,000 +/-

TOTAL SUGGESTED 2022 EXPENSE = \$ 680,210

2023 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
7	\$ 2,600	11.24	\$ 29,224*	Alcan (0.48), Bay View (0.44), Bellmer (1.40), Benal (0.49), Country Club (1.50), Country View (0.21), Division (1.47), Fletcher (1.01), Graham (0.14), Hager (0.06), Lears (0.06), Mishe Mokwa (0.47), Mitchell (1.59), Old Tannery (0.34), Pickerel Lake (0.40), Shaw (0.21), Skyline (0.42), Straddling (0.55)
3	\$ 280,000	0.40	\$ 170,000	Fochtman (0.40)**

Bellmer Road Upgrade and pave for 0.50 miles. Estimate \$300,000

TOTAL SUGGESTED 2023 EXPENSE = \$ 470,000 *Road Commission

**All-season

2024 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
6	\$ 85,000	0.75	Fed-aid	Mitchell (0.75)*
3	\$ 270,000	0.50	\$ 400,000	Cedar Valley (0.50)**

TOTAL SUGGESTED 2024 EXPENSE = \$ 400,000 *Fed-aid

**Additional earthwork

2025 REPAIRS

Gravel or Primary road work for township

2026 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
6	\$ 85,000	1.25	Fed-aid	Anderson (1.25)*

TOTAL SUGGESTED 2026 EXPENSE = \$ *Fed-aid

TOTAL PROJECTED 5-YEAR COST

2022	\$ 680,210
2023	\$ 470,000
2024	\$ 400,000
2025	Primary or Gravel Upgrade
2026	Primary or Gravel Upgrade

TOTAL = \$ 1,550,210

The Asset Management process concentrates resources on roads that are relatively easy to maintain then allows resources to be expended on more expensive roads. The above scenario repairs all local roads in the township in the next 3 years. This does not take into account that roads that fall further into disrepair from their current rating.