

2022 MAPLE RIVER TOWNSHIP 5-YEAR ROAD PRIORITY LIST

Revised February 3, 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	Patching and 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 only Asphalt wedge and cap or heavy cap.	\$ 55,000 or \$ 170,000
3	Pulverize, gravel and pave. Surface poor. Cold-in-Place with ultra-thin	\$ 280,000 \$ 250,000
2	Reconstruction. Very poor condition.	\$ 400,000 +/-
1	Reconstruction. Failed road surface.	\$ 400,000 +/-

MAPLE RIVER TOWNSHIP

Maple River Township assesses ½ Mil which brings in approximately \$30,500. However, the township uses an operating mil also toward roads. The township spent their allocation in 2021. The 2022 allocation is \$16,952. There is \$47,500 available for road improvements in 2022.

TOTAL 2022 INVESTMENT AVAILABLE = \$108,450

TOTAL 5-YEAR ROAD EXPENSE = \$542,250

CATEGORIZATION OF HARD-SURFACED ROADS IN MAPLE RIVER TOWNSHIP

PASER RATING	ROAD NAME	LIMITS
10	None	-
9	Robinson Road Woodland Road	From W. Pellston then west for 2.12 miles From 0.30 miles E. of U.S.31 then east for 0.19 miles
8	N. Ayr Road N. Ayr Road Devils Elbow Gregory Road Maple River Road Maple River Road Milton Road Red School Road Sunny Ridge Road	From Brutus to Stutsmanville for 1.00 mile From Valley then north for 0.81 miles From Snider then east for 0.68 miles From Maple River then north for 0.12 miles From Gregory then west for 0.10 miles From Gregory then east for 0.18 miles From Brutus to Stutsmanville for 1.00 mile From Robinson to Johnson for 2.01 miles From Brutus to Valley for 0.98 miles
7	Milton Road	From U.S.31 to Littlefield Twp. for 0.57 miles

6	Crooked River Road	From 0.12 miles east of U.S.31 then east for 0.42 miles
	Euclid Street	From Mill to Brutus for 0.21 miles
	Gregory Road	From Woodland then south for 1.38 miles
	High Street	From Railroad to Euclid for 0.07 miles
	Maple Street	From Railroad then west for 0.10 miles
	Mill Street	From U.S.31 then west for 0.14 miles
	Plains Road	From Sand to Robinson for 2.00 miles
	Railroad Street	From Brutus to High for 0.20 miles
	Ringler Road	From Red School to U.S.31 for 1.02 miles
	Robinson Road	From Center Twp. then east for 0.58 miles
	Robinson Road	From Cheboygan Co. line to Pellston for 1.99 miles
	Snider Road	From Crooked River then south for 0.98 miles
	Sunny Ridge Road	From Valley then south for 0.12 miles
Tower Road	From Red School then west for 0.88 miles	
Valley Road	From Edds to Sunny Ridge for 1.73 miles	
Woodland Road	From Plains to U.S.31 for 1.38 miles	
5	Johnson Road	From Red School then east for 0.39 miles
	Red School Road	From U.S.31 then west for 1.03 miles
	Sand Road	From Gregory to Cheb. Co. for 1.50 miles
	Snider Road	From Brutus to Crooked River for 0.50 miles
	Valley Road	From N. Ayr to Sunny Ridge for 0.99 miles
4	N. Ayr Road	From Brutus then south for 0.19 miles (1/2 with Pl. Twp.)
	Brutus Road	From U.S.31 to Brill for 2.46 miles
	Crooked River Road	From U.S.31 then east for 0.12 miles
3	Brutus Road	From U.S.31 to Sunny Ridge for 3.45 miles (BIA)
	Crooked River Road	From end of pavement then west for 0.04 miles
	Maple River Road	From U.S.31 then east for 0.85 miles
2	Durkalic Road	From Tower to Robinson for 0.99 miles
1	Tower Road	From Durkalic then east for 0.71 miles

2022 MILEAGE BREAKDOWN OF ROAD RATINGS FOR MAPLE RIVER TOWNSHIP (all)

PASER RATING	# OF MILES	AVERAGE REPAIR COST	TOTAL
10	0.00	\$ 0	\$ 0
9	2.31	0	0
8	6.88	700	4,816
7	0.57	2,600	1,482
6	13.20	85,000	1,122,000
5	4.41	140,000	617,400
4	2.77	170,000	470,900
3	4.34	280,000	1,215,200
2	0.99	400,000	396,000
1	0.71	400,000	284,000

TOTAL HARD-SURFACED MILES = 36.18

COST = \$ 4,111,798

2022 AVERAGE ROAD SURFACE RATING = 5.75

(21' = 5.67, 20' = 5.83, 19' = 6.00, 18' = 5.76, 17' = 5.27, 16' = 5.25, 15' = 4.87, 14' = 4.61, 13' = 4.80, 12' = 4.92, 11' = 5.01, 10' = 5.02, 09' = 5.05, 08' = 5.11, 07' = 5.52, 06' = 5.52, 05' = 5.68)

LOCAL ROAD BREAKDOWN

PASER RATING	# OF MILES	AVERAGE REPAIR COST	TOTAL
10	0.00	\$ 0	\$ 0
9	0.19	0	0
8	6.88	700	4,816
7	0.57	2,600	1,482
6	10.63	85,000	903,550
5	4.41	110,000	485,100
4	0.31	170,000	52,700
3	0.89	280,000	249,200
2	0.99	400,000	396,000
1	0.71	400,000	284,000

TOTAL LOCAL HARD-SURFACED MILES = 25.58 miles COST = \$ 2,376,848

2022 AVERAGE LOCAL ROAD SURFACE RATING = 5.99

(21' = 5.80, 20' = 6.03, 19' = 6.18, 18' = 5.89, 17' = 5.64, 16' = 5.55, 15' = 5.40, 14' = 5.56, 13' = 5.44, 12' = 5.52, 11' = 5.58, 10' = 5.54, 09' = 5.35, 08' = 5.07, 07' = 5.70, 06' = 5.57, 05' = 6.08)

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. Our goal should be to improve the average ratings from the current 5.99 to a good condition. Good is considered to be 7 or better. However, with the revenue that Maple River Township generates with the millage, there is not enough money to bring all roads into a good condition. Therefore, it should be the goal to asphalt wedge the roads to bring the average road to a 6 rating.

MAPLE RIVER TOWNSHIP SUGGESTED 5-YEAR ROAD REPAIR LIST

2022 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
3	\$ 55,000	0.85	\$ 46,750	Maple River (0.85)*
1	\$ 47,500	0.71	\$ 47,500	Tower (0.71)**

TOTAL SUGGESTED 2022 EXPENSE = \$ 94,250 *Road Commission
 **Asphalt Purchase

2023 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
6	\$ 2,600	0.57	Rd. Comm.	Milton (0.57)
5	\$ 55,000	1.03	\$ 56,650	Red School (1.03)*
2	\$ 50,000	0.99	\$ 50,000	Durkalic (0.99)**

TOTAL SUGGESTED 2023 EXPENSE = \$ 106,650 *Wedge only
 **Asphalt Purchase

2024 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
5	\$ 55,000	1.50	\$ 82,500	Sand (1.50)

TOTAL SUGGESTED 2024 REPAIR = \$ 82,500 * Wedge only

2025 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
5	\$ 55,000	1.88	\$ 103,400	Johnson (0.39)*, Snider (0.50)*, Valley (0.99)*

TOTAL SUGGESTED 2025 REPAIR = \$ 103,400 * Wedge only

2026 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
6	\$ 85,000	0.58	Fed-aid	Robinson (0.58)*
4	\$ 140,000	0.19	\$ 30,100	N. Ayr (0.19)**, Crooked River (0.12)***
3	\$ 280,000	3.45	\$ 2,200	Brutus (3.45)****, Crooked River (0.04)***

TOTAL SUGGESTED 2026 REPAIR = \$ 32,300 *Fed-aid
 **1/2 w/ Pleasantview
 *** Wedge only
 ****BIA

TOTAL PROJECTED 5-YEAR COST

2022	\$ 94,250
2023	\$ 106,650
2024	\$ 82,500
2025	\$ 103,400
2026	\$ 32,300
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TOTAL	= \$ 419,100

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 roads into a minimum of a fair category in the township in the next 5 years. This does not take into account the roads that fall further into disrepair from their current rating.