

2022 FRIENDSHIP TOWNSHIP 5-YEAR ROAD PRIORITY LIST
 Revised February 1, 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 and cap or heavy cap.	\$ 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 +/-

FRIENDSHIP TOWNSHIP

The township assesses the 1 Mil for local road improvements. The 1 Mil brings in around \$116,000 per year. The allocation in 2022 is \$16,952. Friendship Township is set to receive \$95,248 in ARPA funds and per the MTA those funds can be spent on road improvements. The total amount available for repairs in 2022 is \$228,200.

TOTAL 2022 INVESTMENT = \$228,200
 TOTAL 5-YEAR ROAD EXPENSE = \$657,500

CATEGORIZATION OF HARD-SURFACED ROADS IN FRIENDSHIP TOWNSHIP

PASER RATING	ROAD NAME	LIMITS
10	None	-
9	State Road Stutsmanville Road Terpening Road Troup Road	From Lacount to Readmond Twp. for 5.32 miles From State to Welsheimer for 1.60 miles From Stutsmanville then north for 1.03 miles From Terpening then west for 0.50 miles
8	Ball Road Beacon Hill Road Fisher Road Fisher Road Lightfoot Road Lower Shore Drive	From M-119 then west for 0.11 miles From Stutsmanville then south for 0.07 miles From State then west for 0.17 miles From State then east for 0.37 miles From Wressel to Lacount for 1.01 miles From M-119 to W. T. Twp. for 0.81 miles

	Stutsmanville Road Townline Cut-off Townline Road Townline Road Welsheimer Road Wressel Road	From Five Mile Creek to Terpening for 2.98 miles From Stutsmanville then north for 0.11 miles From Stutsmanville cutoff to Boynton for 1.45 miles From Kawegoma to Middle Village for 0.50 miles From Stutsmanville to Brutus for 1.00 mile From State to Lightfoot for 0.35 miles
7	Hurd Road Stutsmanville Road Townline Road	From state then west for 1.21 miles From Terpening to Five Mile Creek for 0.50 miles From Boynton to Kawegoma for 1.00 mile
6	Boynton Road Fisher Road Five Mile Creek Road Lacount Road Lacount Road Stutsmanville Road Terpening Road Welsheimer Road Wressel Road	From Townline then east for 0.52 miles From west end then east for 0.85 miles From Stutsmanville to W.T. Twp. for 2.01 miles From State to Hughston for 1.37 miles (1/2 W.T. Twp.) From State to Lightfoot for 0.10 miles (1/2 W.T. Twp.) From Townline to Terpening for 0.94 miles From M-119 to Stutsmanville for 1.54 miles From W. T. Twp. to Brutus for 1.00 mile From State then west for 0.75 miles
5	None	-
4	Stutsmanville Road Wressel Road	From M-119 to Townline for 0.16 miles From Lightfoot then east for 0.51 miles
3		

2022 MILEAGE BREAKDOWN OF ROAD RATINGS FOR FRIENDSHIP TOWNSHIP (all)

PASER RATING	# OF MILES	AVERAGE	
		REPAIR COST	TOTAL
10	0.00	\$ 0	\$ 0
9	8.45	0	0
8	8.93	700	6,251
7	2.71	2,600	7,046
6	9.08	85,000	771,800
5	0.00	140,000	0
4	0.67	170,000	113,900
3	0.00	280,000	0

TOTAL HARD-SURFACED MILES = 29.84 miles

COST = \$ 898,997

2022 AVERAGE ROAD RATINGS = 7.49

(21' = 7.11, 20' = 7.12, 19' = 6.74, 18' = 6.41, 17' = 5.81, 16' = 5.95, 15' = 5.78, 14' = 5.70, 13' = 5.62, 12' = 5.53, 11' = 5.92, 10' = 6.28, 09' = 5.93, 08' = 6.09, 07' = 6.44, 06' = 6.00, 05' = 5.31)

LOCAL ROAD BREAKDOWN

<u>PASER RATING</u>	<u># OF MILES</u>	<u>AVERAGE REPAIR COST</u>	<u>TOTAL</u>
10	0.00	\$ 0	\$ 0
9	1.53	0	0
8	5.95	700	4,165
7	2.21	2,600	5,746
6	8.14	85,000	691,900
5	0.00	140,000	0
4	0.51	170,000	86,700
3	0.00	280,000	0

TOTAL HARD-SURFACED MILES = 18.34 miles

COST = \$ 788,511

2022 AVERAGE ROAD RATINGS = 6.96

(21' = 6.94, 20' = 6.92, 19' = 6.57, 18' = 6.46, 17' = 6.35, 16' = 6.58, 15' = 6.18, 14' = 6.35, 13' = 6.22, 12' = 6.59, 11' = 7.23, 10' = 7.52, 09' = 7.07, 08' = 7.06, 07' = 6.98, 06' = 5.97, 05' = 5.23)

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 to a good condition. Friendship Township has a local road rating of 6.96 rating. Good is considered to be 7 or better.

FRIENDSHIP TOWNSHIP SUGGESTED 5-YEAR ROAD REPAIR LIST

2022 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
6	\$ 28,000	4.48	\$ 105,000	Five Mile Creek (2.01), Lacount (1.37)*, Lacount (0.10)*, Welsheimer (1.00)

Lamkin Road 6" Gravel Application = \$ 98,000
 TOTAL SUGGESTED 2022 EXPENSE = \$ 203,000 *1/2 with W. T. Twp.

2023 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
7	\$ 2,600	2.71	\$ 7,046	Hurd (1.21)*, Stutsmanville (0.50)*, Townline (1.00)*
6	\$ 85,000	1.60	\$ 136,000	Fisher (0.85), Wressel (0.75)

TOTAL SUGGESTED 2023 EXPENSE = \$ 136,000 *Road Commission

2024 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
6	\$ 28,000	2.06	\$ 57,680	Boynton (0.52), Terpening (1.54)
4	\$ 170,000	0.51	\$ 86,700	Wressel (0.51)

TOTAL SUGGESTED 2023 EXPENSE = \$ 144,380

2025 REPAIRS, 2026 REPAIRS

Gravel or primary road maintenance

TOTAL PROJECTED 5-YEAR COST

- 2022 \$ 203,000
- 2023 \$ 136,000
- 2024 \$ 144,380
- 2025 Gravel or primary
- 2026 Gravel or primary

TOTAL = \$ 483,380

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 most local hard-surfaced roads in the township in the next 3 years. This does not take into account the roads that fall further into disrepair from their current rating.