

2022 BLISS TOWNSHIP 5-YEAR ROAD PRIORITY LIST
December 9, 2021
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 \$ 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 +/-

BLISS TOWNSHIP

Bliss Township has decided not to assess the 1 Mil from the county-wide millage. Bliss Township already assesses 1 Mil for roads, which brings in around \$20,000. Bliss Township is set to receive \$66,569 in ARPA funds. The MTA has stated those funds can be used on road improvements. The 2022 allocation is \$16,952. This means the township can expend around \$103,500 in 2021.

TOTAL YEARLY INVESTMENT = \$103,500
TOTAL 5-YEAR ROAD EXPENSE = \$ 251,100

CATEGORIZATION OF HARD-SURFACED ROADS IN BLISS TOWNSHIP

PASER RATING	ROAD NAME	LIMITS
10	None	-
9	None	-
8	Elder Road Levering Road Valley Road	From Gill to McCleary for 1.06 miles From Zmikly to Larks Lake for 0.95 miles From Garber to Sturgeon Bay for 0.99 miles
7	Levering Road Wilderness Park Dr.	From Larks Lake to Pleasantview for 3.99 miles From 0.56 miles w. of Cecil Bay then west for 2.62 miles
6	Canby Road Canby Road Cassidy Road Elder Road	From Levering to Creekside for 0.92 miles From Garber to Sturgeon Bay for 1.00 mile From Pleasantview to Keiser for 1.03 miles From McCleary to Phillips for 0.75 miles

	Schmalzried Road Valley Road West Bliss Road	From Pleasantview then east for 1.00 miles From Cassidy to Garber for 1.00 mile From Lakeview then south and west for 1.46 miles
5	Canby Road Cassidy Road Garber Road Lake Shore Drive Sturgeon Bay Tr. Valley Road West Bliss Road	From Creekside to Garber for 1.05 miles From Pleasantview to Keiser for 1.03 miles From Valley to Pleasantview for 0.99 miles (0.75, 0.24) From Sturgeon Bay to Lakeview for 2.14 miles From N. Pleasantview to Valley for 0.52 miles From Levering to Cassidy for 0.98 miles (0.40, 0.58) From Sturgeon Bay then north 0.24 miles
4	Garber Road Schmalzried Road	From Canby to Valley for 1.02 miles (0.45, 0.57) From Carp Lake Twp. north-south line for 0.21 miles
3	Gill Road Lakeview Road Levering Road Pleasantview Rd. Sturgeon Bay Tr. Wilderness Park Dr.	From Lakeview to Carp Lake Twp. for 2.23 miles From West Bliss to Gill for 1.81 miles From Pleasantview to Keiser for 0.99 miles From Garber then north and west for 1.11 miles From Lakeshore to Valley for 3.78 miles From west end then east for 1.09 miles
2	Lake Shore Dr. Lakeview Road Pleasantview Road Pleasantview Road Pleasantview Road	From Sturgeon Bay Tr. to Cr. Vill. Twp. for 0.80 miles From Lake Shore to West Bliss for 1.14 miles From Sturgeon Bay to Gill for 1.49 miles From Sturgeon Bay then east and south for 0.49 miles From Levering to Garber for 2.00 miles

2022 MILEAGE BREAKDOWN OF ROAD RATINGS FOR BLISS TOWNSHIP
(All roads)

<u>PASER RATING</u>	<u># OF MILES</u>	<u>AVERAGE REPAIR COST</u>	<u>TOTAL</u>
10	0.00	\$ 0	\$ 0
9	0.00	0	0
8	3.00	700	2,100
7	6.71	2,600	17,446
6	7.16	28,000	220,050
5	6.95	55,000*wedge	200,480
4	1.23	170,000	209,100
3	11.01	280,000	3,082,800
2	5.92	400,000	2,368,000

TOTAL HARD-SURFACED MILES = 41.98 miles

COST = \$6,099,976

2022 AVERAGE ROAD RATING = 4.72

(21' = 4.85, 20' = 4.91, 19' = 4.83, 18' = 4.55, 17' = 4.77, 16' = 4.90, 15' = 4.81, 14' = 5.01, 13' = 4.64, 12' = 4.78, 11' = 5.03, 10' = 5.00, 09' = 5.35, 08' = 5.49, 07' = 5.37, 06' = 5.62, 05' = 5.93)

LOCAL ROAD BREAKDOWN

PASER RATING	# OF MILES	AVERAGE REPAIR COST	TOTAL
10	0.00	\$ 0	\$ 0
9	0.00	0	0
8	2.05	700	1,435
7	0.00	2,600	0
6	7.16	28,000	200,480
5	4.29	55,000*wedge	235,950
4	1.23	55,000*wedge	67,650
3	0.00	280,000	0
2	0.00	400,000	0

TOTAL LOCAL HARD-SURFACED ROADS = 14.73

COST = \$ 505,515

2022 AVERAGE ROAD SURFACE RATING = 5.82

(21' = 5.48, 20' = 5.98, 19' = 5.87, 18' = 5.35, 17' = 5.20, 16' = 5.16, 15' = 4.98, 14' = 5.08, 13' = 5.16, 12' = 5.17, 11' = 5.72, 10' = 5.47, 09' = 5.30, 08' = 5.51, 07' = 5.67, 06' = 5.83, 05' = 5.79)

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 5.82 to a good condition. Good is considered to be 7 or better. However, with the revenue that Bliss 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.

BLISS TOWNSHIP SUGGESTED 5-YEAR ROAD REPAIR LIST

2022 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
7	\$ 2,600	6.61	\$ 17,186*	Levering (3.99)*, Wilderness Park (2.62*)
6	\$ 28,000	3.67	\$ 102,760	Canby (0.92), Canby (1.00), Elder (0.75), Valley (1.00)
3	\$ 280,000	0.99	Fed-aid	Levering (0.99)**

TOTAL SUGGESTED 2022 EXPENSE = \$ 102,760 *Road Commission
**Fed-aid

2023 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
5	\$ 55,000	0.64	\$ 35,200	West Bliss (0.24), Valley (0.40)

TOTAL SUGGESTED 2023 EXPENSE = \$ 35,200 *Wedge only

2024 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
5	\$ 55,000	0.58	\$ 31,900	Valley (0.58)*

TOTAL SUGGESTED 2024 EXPENSE = \$ 31,900 *Wedge only

2025 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
5	\$ 55,000	0.75	\$ 41,250	Garber (0.75)*

TOTAL SUGGESTED 2025 EXPENSE = \$ 41,250 *Wedge only

2026 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
5	\$ 55,000	0.24	\$ 13,200	Garber (0.24)*
4	\$ 55,000	0.45	\$ 24,750	Garber (0.45)*

TOTAL SUGGESTED 2026 EXPENSE = \$ 37,950 *Wedge only

TOTAL PROJECTED 5-YEAR COST

2022 \$ 102,760
 2023 \$ 35,200
 2024 \$ 31,900
 2025 \$ 41,250
 2026 \$ 37,950

TOTAL = \$ 249,060

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 roads 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.