

2022 LITTLEFIELD 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 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 +/- |

LITTLEFIELD TOWNSHIP

The township assesses the 1 Mil passed by the voters in 2020. The 1 Mil brings in approximately \$163,400 per year. Littlefield Township used the allocation in 2021. The 2022 allocation is \$16,952. Littlefield is set to receive \$239,691 in ARPA funds. The MTA indicates those funds can be spent on road improvements. Therefore, the amount available for road repair in 2022 is approximately \$420,000.

TOTAL 2022 INVESTMENT = \$420,000
TOTAL 5-YEAR ROAD EXPENSE = \$1,377,300

CATEGORIZATION OF HARD-SURFACED ROADS IN LITTLEFIELD TOWNSHIP

| PASER RATING | ROAD NAME | LIMITS |
|--------------|---|--|
| 10 | Crump Road | From Powers then north for 0.76 miles |
| 9 | Oden Island Road Powers Road | From Springvale Twp. then north for 0.12 miles From L. Trav. Twp. then east for 1.20 miles |
| 8 | Barney Road Barney Road Honeysette Road Kilmer Road Lakeview Road Lakeview Road Lake Street Luce Street Milton Road | From M-68 to Hilltop for 0.50 miles From M-68 then south for 0.58 miles From Valley then north for 0.61 miles From Valley to Lakeview Lane for 0.60 miles From Banwell to Crooked Lake for 1.13 miles From Armock to Banwell for 1.01 miles From U.S.31 to Crooked Lake for 0.19 miles From Powers to U.S.31 for 0.78 miles From U.S.31 then west for 0.03 miles |

| | | |
|---|--|---|
| | Mission Road Mission Road Mission Road Petoskey Street Powers Road Rose Street Valley Road | From M-68 to Hilltop for 0.51 miles From Smith to Banwell for 0.55 miles From Banwell then south for 0.09 miles From Armock to M-68 for 0.50 miles From Moore to Luce for 0.63 miles From U.S.31 to High for 0.15 miles From Moore to Milton for 1.15 miles |
| 7 | Armock Road Burley Road Cincinnati Point Lakeview Road | From Lakeview then east for 0.68 miles From Banwell then south for 0.08 miles From U.S.31 to Crooked Lake for 0.19 miles From U.S.31 to Lake for 0.27 miles |
| 6 | S. Ayr Road High Street Kuebler Drive Main Street Mission Road Moore Road Powers Road Russel Street Valley Road | From Powers then south for 0.50 miles From Luce then east for 0.25 miles From Luce then west for 0.23 miles From U.S.31 to High for 0.14 miles From M-68 to Smith for 1.01 miles From Luce to Powers for 1.47 miles From Luce to Moore for 1.13 miles From Luce then east for 0.14 miles From Moore to Maple River Twp. for 1.27 miles |
| 5 | Armock Road Grubaugh Road Moore Road Old Stagecoach Drive Smith Road | From Banwell to Lakeview for 0.54 miles From Lakeview Lane then north for 0.15 miles From Valley to Powers for 1.02 miles From Moore then south for 0.22 miles From Mission to Lakeview for 1.01 miles |
| 4 | Miller Road Miller Road | From Banwell to Hanes for 0.54 miles From M-68 then south for 0.88 miles |
| 3 | Banwell Road Lakeview Lane Meeker Avenue Miller Road Milton Road Milton Road Mission Road Park Avenue Smith Road | From Alanson to Springvale Twp. for 5.30 miles From Grubaugh then west for 0.35 miles From U.S.31 to Cincinnati for 0.02 miles From Hanes then east and north for 0.91 miles From Powers then south 0.98 miles From Valley to M. River Twp. for 1.03 miles From 0.09 miles s. of Banwell then south for 0.82 miles From U.S.31 to Cincinnati for 0.03 miles From Banwell to Lakeview for 0.49 miles |
| 2 | Cincinnati Street Luce Street Main Street Summerfield Avenue Water Street Williams Street | From U.S.31 to Summerfield for 0.17 miles From U.S.31 to Water for 0.04 miles From U.S.31 to Water for 0.02 miles From U.S.31 to Cincinnati for 0.03 miles From U.S.31 to Luce for 0.11 miles From U.S.31 to U.S.31 for 0.10 miles |

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

| PASER RATING | # OF MILES | AVERAGE REPAIR COST | TOTAL |
|--------------|------------|------------------------|-----------|
| 10 | 0.76 | \$ 0 | \$ 0 |
| 9 | 1.32 | 0 | 0 |
| 8 | 9.01 | 700 | 7,301 |
| 7 | 1.22 | 2,600 | 3,699 |
| 6 | 6.14 | 28,000 | 171,920 |
| 5 | 2.94 | 110,000 | 323,400 |
| 4 | 1.42 | 170,000 | 372,800 |
| 3 | 9.93 | 280,000 | 2,627,400 |
| 2 | 0.47 | 400,000 | 151,200 |

TOTAL HARD-SURFACED ROAD MILES = 33.21 miles

COST = \$ 3,657,720

2022 AVERAGE ROAD SURFACE RATINGS = 5.66

(21' = 5.67, 20' = 5.86, 19' = 6.04, 18' = 6.00, 17' = 5.91, 16' = 5.96, 15' = 5.57, 14' = 5.50, 13' = 5.43, 12' = 5.48, 11' = 5.48, 10' = 5.27, 09' = 5.18, 08' = 5.65, 07' = 5.69, 06' = 5.43, 05' = 5.25)

LOCAL ROAD BREAKDOWN

| PASER RATING | # OF MILES | AVERAGE REPAIR COST | TOTAL |
|--------------|------------|------------------------|-----------|
| 10 | 0.76 | \$ 0 | \$ 0 |
| 9 | 0.12 | 0 | 0 |
| 8 | 8.38 | 700 | 5,866 |
| 7 | 1.22 | 2,600 | 3,172 |
| 6 | 5.01 | 28,000 | 140,280 |
| 5 | 2.94 | 83,000 | 244,020 |
| 4 | 0.00 | 170,000 | 0 |
| 3 | 3.72 | 280,000 | 1,041,600 |
| 2 | 0.47 | 400,000 | 188,000 |

TOTAL LOCAL HARD-SURFACED MILES = 22.62 miles

COST = \$ 1,622,938

2022 AVERAGE LOCAL SURFACE RATINGS = 6.24

(21' = 6.14, 20' = 6.41, 19' = 6.64, 18' = 6.53, 17' = 6.32, 16' = 6.34, 15' = 6.06, 14' = 6.08, 13' = 5.79, 12' = 5.80, 11' = 6.15, 10' = 5.95, 09' = 5.55, 08' = 5.80, 07' = 5.66, 06' = 5.28, 05' = 5.10)

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 6.24 to a good condition. Good is considered to be 7 or better.

LITTLEFIELD TOWNSHIP SUGGESTED 5-YEAR ROAD REPAIR LIST

2022 REPAIRS

| RATING | PER MILE | # MILES | COST | SELECTED ROADS (miles) |
|---------------|-----------------|----------------|-------------|---|
| 9 | \$ 110,000 | 1.20 | \$ 132,000 | Powers (1.20)* |
| 6 | \$ 28,000 | 6.14 | \$ 140,280 | S. Ayr (0.50), High (0.25), Kuebler (0.23), Main (0.14), Mission (1.01), Moore (1.47), Powers (1.13)*, Russel (0.14), Valley (1.27) |
| 5 | \$ 83,000 | 1.01 | \$ 244,020 | Smith (1.01) |
| 3 | \$ 280,000 | 1.03 | \$ 400,000 | Milton (1.03)** |

TOTAL SUGGESTED 2022 EXPENSE = \$ 384,300 *MDOT: 1-1/2" cap
**All-season

2023 REPAIRS

| RATING | PER MILE | # MILES | COST | SELECTED ROADS (miles) |
|---------------|-----------------|----------------|-------------|---|
| 7 | \$ 2,600 | 1.37 | Rd. Comm. | Armock (0.68)**, Burley (0.08)**, Cincinnati Pt. (0.19)**, Lakeview (0.27)** |
| 5 | \$ 83,000 | 1.93 | \$ 160,190 | Armock (0.54), Grubaugh (0.15), Moore (1.02), Old Stagecoach (0.22) |

TOTAL SUGGESTED 2023 EXPENSE = \$ 160,190

2024 REPAIRS

| RATING | PER MILE | # MILES | COST | SELECTED ROADS (miles) |
|---------------|-----------------|----------------|-------------|-------------------------------|
| 3 | \$ 190,000* | 0.98 | \$ 186,200 | Milton (0.98)* |

TOTAL SUGGESTED 2024 EXPENSE = \$ 186,200 *Heavy asphalt cap

2025 REPAIRS

| RATING | PER MILE | # MILES | COST | SELECTED ROADS (miles) |
|---------------|-----------------|----------------|-------------|-------------------------------|
| 3 | \$ 280,000 | 0.82 | \$ 229,600 | Mission (0.82) |

TOTAL SUGGESTED 2025 EXPENSE = \$ 229,600

2026 REPAIRS

| RATING | PER MILE | # MILES | COST | SELECTED ROADS (miles) |
|---------------|-----------------|----------------|-------------|-------------------------------|
| 3 | \$ 280,000 | 0.84 | \$ 235,200 | Lakeview (0.35), Smith (0.49) |

TOTAL SUGGESTED 2026 EXPENSE = \$ 235,200 *Heavy asphalt cap

TOTAL PROJECTED 5-YEAR COST

| | |
|-------------|-------------------|
| 2022 | \$ 384,300 |
| 2023 | \$ 160,190 |
| 2024 | \$ 186,200 |
| 2025 | \$ 229,600 |
| <u>2026</u> | <u>\$ 235,200</u> |
| TOTAL = | \$ 1,195,490 |

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.