

**Joseph S. Bachman, P.E., P.S.** Tuscarawas County Engineer

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April 15, 2022

TO: Tuscarawas County Commissioners

Commissioners:

We have enclosed a copy of our annual report for 2021. Thank you for your interest.

Sincerely,

Joseph S. Bachman, P.E., P.S.  
Tuscarawas County Engineer

TUSCARAWAS COUNTY  
ROAD AND BRIDGE DEPARTMENT

2021 ANNUAL REPORT  
APRIL 2022

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County Engineer  
832 Front Avenue, SW  
New Philadelphia, Ohio 44663

## PURPOSE

The purpose of this annual report is to advise the County Commissioners on the condition of the county roads, bridges, and culverts and to estimate the funds needed for maintenance and construction of new roads, bridges, or culverts. This report is written to satisfy the requirements of Ohio Revised Code, Section 5543.02.

## INTRODUCTION

The County Engineer, in cooperation with the County Commissioners, is responsible for all maintenance, repair, widening, resurfacing and reconstruction of roads, bridges, and related items on the county highway system. The Engineer serves as advisor to the Township Trustees for the maintenance, repair, widening, resurfacing, and reconstruction of township highways.

The bridges on the township road system are the full responsibility of the County. The Engineer is also responsible for several bridges within municipalities, where the bridges are on an extension of a county or township road. The Engineer maintains a perpetual inventory of all these bridges, including an annual inspection of the condition and load capacity of each bridge.

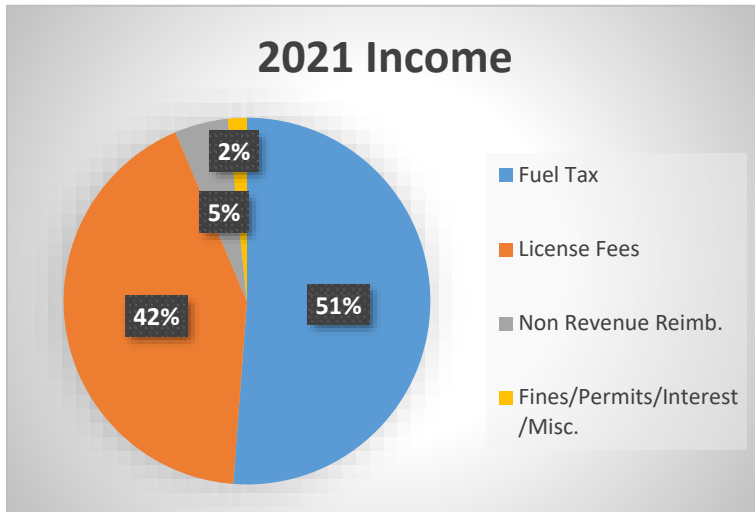
The Tuscarawas County Engineer's Department is responsible for 460.62 miles of roadway, which is the seventh highest mileage of the 88 counties in the state. In addition, the Department has maintenance responsibility for approximately 273 bridges (spans ranging from 10' to 405'), 149 large culverts (diameters 48" and above), 2950 small culverts (diameters 12" to 48"), over 348,000 feet of guardrail, and numerous related items.

Tuscarawas County, due to its relatively large area (555 square miles), has a considerably higher road mileage than the average county in the State of Ohio. This is illustrated below:

System	Statewide Mileage	Average County	Tuscarawas County
State Highway	19,256	219	214
County Highway	29,088	331*	461*
Township Road	41,194	468	595
TOTAL	89,573	1018	1286

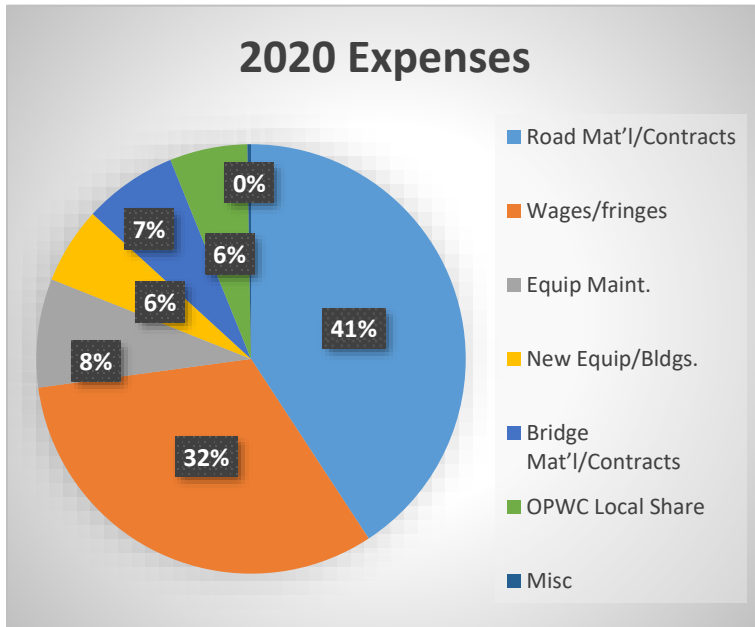
\*Note that Tuscarawas County has approximately 130 miles more roadway than the average County in the State; funding does not substantially increase proportionate to road mileage.

2021 INCOME



Fuel Tax	\$ 3,739,694	51.2%
License Fees	\$ 3,098,959	42.4%
Non-revenue reimbursement	\$ 343,615	4.7%
Fines/Permits/Interest/Misc	\$ 122,592	1.7%
<b>TOTAL</b>	<b>\$ 7,304,860</b>	<b>100.0%</b>

2021 EXPENDITURES



Road Mat'l/Contracts	\$ 2,606,870	40.8%
Wages/fringes	\$ 2,052,430	32.1%
Equip Maint.	\$ 522,995	8.2%
New Equip/Bldgs.	\$ 368,135	5.7%
Bridge Mat'l/Contracts	\$ 452,654	7.1%
OPWC Local Share	\$ 373,672	5.8%
Misc .	\$ 17,758	0.3%
<b>TOTAL</b>	<b>\$ 6,394,514</b>	<b>100.0%</b>

## 2021 Accomplishments

### Road resurfacing – Total 34.95 miles:

- Barrs Mills Road (CR 76)
- Crooked Creek Road (CR 32) from CR 28 to CR 29
- Dover Zoar Road (CR 82) from Zoar to SR 800
- Edwards Ridge Road (CR 29) from CR 32 to CR 39
- Hickory Drive and Shutt Road (CR 72)
- Old Route 39 (CR 139) Easterly portion
- Oldtown Valley Road (CR 24) from New Philadelphia to Eichel Rd. – also includes widening with Federal participation
- Riverside Road (CR 39)
- Salt Fork Road (CR 3) from SR 258 to Guernsey County
- Sandyville Road (CR 107) from Mineral City to CR 82
- Smokey Lane Road (CR 71)
- Winfield Strasburg Road (CR 78) from Strasburg to CR 98
- Winklepleck Road (CR 73)

### Roadway Chip Seal – Total 47.00 miles

- Kedigh Hollow Road (CR 2)
- Peoli Road (CR 7) from SR 258 to Guernsey County
- Laurel Creek Road (CR 9)
- Westchester South Road (CR 12)
- Fallen Timber Road (CR 14) from CR 10 to Harrison County
- River Road (CR 16) from SR 258 to CR 14
- Lick Run Road (CR 18)
- Buckhorn Road (CR 20) from CR 21 to CR 19
- Weaver's Run Road (CR 34) from SR 800 to Harrison County
- May Valley Road (CR 54) from CR 21 to CR 54
- Kinsey Valley Road (CR 56)

### Bridge Maintenance/Construction

- SAN-90-509 prestressed beams set by contractor on abutments modified by County forces

### Landslide Repair

- Waterworks Hill Road (CR 37) repaired three slips in order to keep residence access- two small slips repaired with county crews; one slip by contract project #5-2021
- Riverside Drive (CR 29) slide repair at river

### Miscellaneous Road and Bridge Projects

- Manufactured bridge beams for sale to Holmes County
- Joyce Hill Rd (CR 55) slope improvements in preparation for guardrail project
- Mathias Raceway Rd (CR 54) slope improvements in preparation for guardrail project
- Williams Lake Rd (CR 53) slope improvements in preparation for guardrail project
- SUG-71-99 bridge waterproofing and repaving

- SAL-100-215 bridge waterproofing and repaving
- Installed brine system at Port Washington facility
- General widening/bank removal/tree removal/ditches moved back/culvert replacement for all the roads shown on the above paving list
- Replaced 62 cross culverts with a total of 2709 ft.
- Large culvert replacement for Sandy Township – Sattler Bottom Rd.
- Large culvert replacement for Union Township – True Rd
- Large culvert repair for Warren Township – Crooks Rd
- Bridge repair for New Philadelphia – University Drive
- Bridge repair for Newcomerstown – Neighbor Street
- Echo Lake Rd at Crooks Rd – cut bank at intersection
- Winklepleck Rd at Hardy Ridge Rd – cut hump at intersection
- Initiated RFQ process and selected Palmer Engineering as designer for bridge #WAW-62-89 replacement (Fed project)
- Continued plan development and right-of-way acquisition for CR 80/CR 82 intersection remediation (Fed project)
- Continued plan development for Federal guardrail project for CR 53, 54, and 55

#### Equipment purchased

- 2005 Gradall excavator with limb shear
- 2021 Freightliner with dump body/plow/hitch/spreader/pre-wet system
- 2021 Ford F-150 pickup
- 2021 New Holland tractor with Diamond boom mower attachment
- Dell Laptop computer for sign crew
- Computer server with backup for office
- 2015 Bobcat loader w/ grapple bucket (replacement for stolen loader)
- Stertil-Koni equipment lifts for garage
- 1998 Load King lowboy trailer

#### Miscellaneous

- Made approximately 4300 tons of cold mix patch material in 2021
- Reviewed approximately 120 lot splits for conformance with access management regulations

#### Equipment sold

- Tractor #91.09 with boom mower
- 2002 International tandem #16.02
- 2003 Gradall XL 3100 excavator
- Various other equipment sold via Gov-Deals – computers, obsolete parts, sandstone, etc.
- Scrap from bridge and sign operations