

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

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April 15, 2021

TO: Tuscarawas County Commissioners

Commissioners:

We have enclosed a copy of our annual report for 2020. Thank you for your interest.

Sincerely,

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

TUSCARAWAS COUNTY
ROAD AND BRIDGE DEPARTMENT

2020 ANNUAL REPORT

APRIL 2021

Joseph S. Bachman, PE, PS

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.

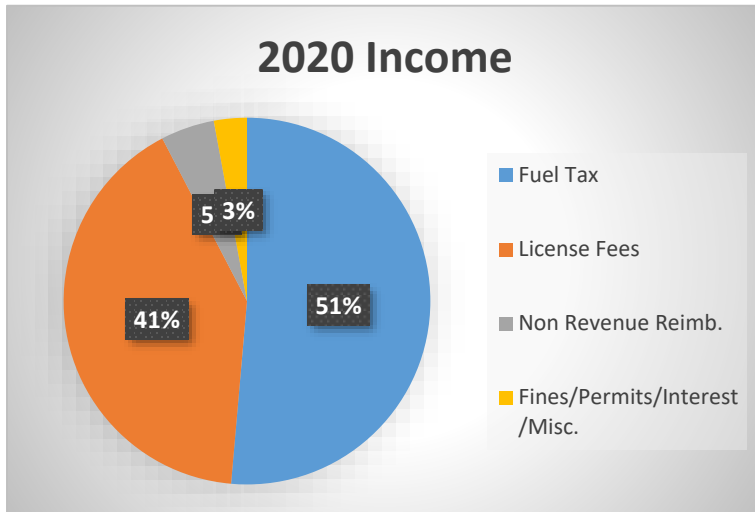
The Tuscarawas County Engineer's Department is responsible for 465.74 miles of roadway, which is the seventh highest mileage of the 88 counties in the state. In addition, the Department has maintenance responsibility for approximately 273 bridges (spans ranging from 10' to 405'), 149 large culverts (diameters 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*	465*
Township Road	41,194	468	607
TOTAL	89,573	1018	1286

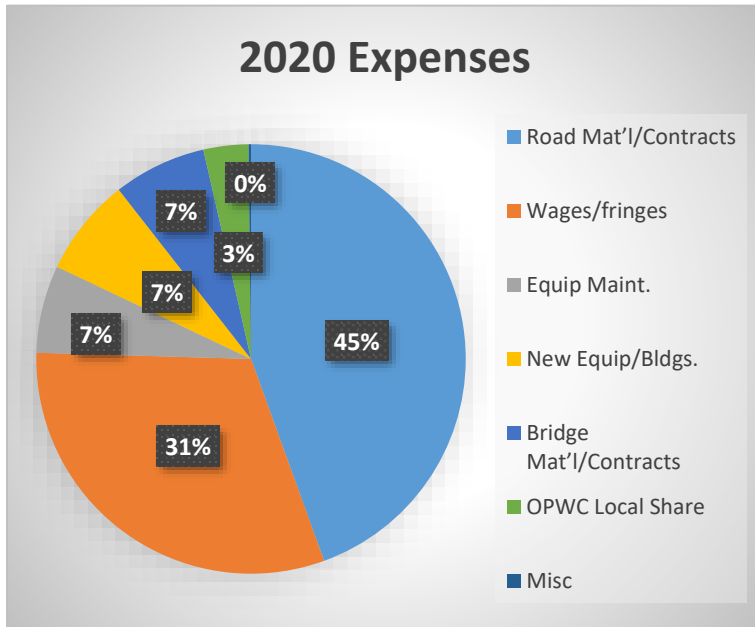
*Note that Tuscarawas County has approximately 134 miles more roadway than the average County in the State; funding does not substantially increase proportionate to road mileage.

2020 INCOME



Fuel Tax	\$ 3,614,207	51.4%
License Fees	\$ 2,881,905	41.0%
Non-revenue reimbursement	\$ 332,809	4.7%
Fines/Permits/Interest/Misc	\$ 204,442	2.9%
TOTAL	\$ 7,033,363	100.0%

2020 EXPENDITURES



Road Mat'l/Contracts	\$ 2,691,946	44.4%
Wages/fringes	\$ 1,875,398	31.0%
Equip Maint.	\$ 399,232	6.6%
New Equip/Bldgs.	\$ 447,202	7.4%
Bridge Mat'l/Contracts	\$ 423,148	7.0%
OPWC Local Share	\$ 204,823	3.4%
Misc .	\$ 11,211	0.2%
TOTAL	\$ 6,052,960	100.0%

2020 Accomplishments

Road resurfacing – Total 34.95 miles:

- Delaware Drive (CR 25)
- 21st St SE (CR 125)
- Ragersville Road (CR 46) (Federal funding)
- Pleasant Valley Road (CR 47)
- Wainwright Road (CR 60)
- Midvale Mine Road (CR 67)
- Sugarcreek Road (CR 70) from CR 52 to CR 47
- Winklepleck Road (CR 73) from Sugarcreek to CR 75
- Golf Course Road (CR 75) from CR 73 to SR 93
- Winfield Strasburg Road (CR 78) from SR 516 to CR 98
- North Orchard Road (CR 103) – widened from SR 212 to Welton, paved all (Fed. Funding)
- Moravian Church Road (CR 116)

Roadway Chip Seal – Total 38.51 miles

- Post Boy Road (CR 3) from TR 2 to SR 258
- Gravel Lick Road (CR 5) from Fultz Road to CR 14
- Murphy Valley Road (CR 6)
- Pleasant Valley Road (CR 8)
- Sandy Ridge Road (CR 13)
- 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

- FRA- 429-301 – new county beams on existing abutments

Landslide Repair

- Riverside Road (CR 39)
- River Road (CR 16) – two separate slides
- Leonhard Hill Road (Jefferson TR 191)

Miscellaneous Road and Bridge Projects

- Guardrail and slope improvements at Salem TR 216 (Glasgow Road) and TR 217 (Shoemaker Road)
- General preparation for Oldtown Valley Road (CR 24) widening project
- Box culvert replacement on Edwards Ridge Road (CR 29) at mile pt. 3.924
- Large culvert replacement on Pleasant Valley Road (CR 47) at mile pt. 0.791
- Eichel Road and Oldtown Valley Road intersection improvements
- Centerline striping on 102 miles of county roads by contract

- General widening/bank removal/tree removal/ditch move back/culvert replacement for all the roads shown on the above paving list
- Replaced 86 cross culverts with a total of 4500 ft.
- Completed right of way plans for bridge #FRA-99-139 (Fed project)
- Initiated programming process for bridge #WAW-62-89 replacement (Fed project)
- Plan development for CR 80/CR 82 intersection remediation (Fed project)
- Plan development for 2021 pavement marking (Fed project)
- Plan development for guardrail construction on Joyce Hill Road, Mathias Raceway Road, and Williams Lake Road (Fed project)

Equipment purchased

- 1998 Load King lowboy trailer
- 2012 Chevy Silverado 3500 with utility bed
- 2020 JAMAR traffic counters (2 each)
- 2021 New Holland tractor T6.180 with 22 ft. Diamond brand boom mower
- 2021 Ford F150 pickup
- 2021 Freightliner tandem dump with dump body, plow, spreader, and pre-wet system

Miscellaneous

- Made approximately 7400 tons of cold mix patch material in 2020
- New siding and doors on steel bldg. at 812 Front Avenue (project funded by General Fund)
- Reviewed approximately 78 lot splits for conformance with access management regulations
- New flooring and attic ventilation at 832 Front Avenue (partially funded by General Fund)
- Shed re-roof at 812 Rear Front Avenue.
- Salt building re-roof at Washington Township location
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