

Champaign County Engineer

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Champaign County Engineer 2022 Annual Report



We present the work of the Champaign County Engineer's office with great pleasure. Whether we are keeping the roads safe during the winter season, resurfacing or repairing deteriorated roads, replacing bridges or culverts, or working on the right of way, **the employees are very dedicated and hard-working.** We dedicated most of our hours in 2022 to the maintenance of 239 miles of roadway and the upkeep of the right of way in the form of resurfacing, mowing, snow and ice control, ditch cleaning, trash pickup, tree cutting, and road repair.

Funding for our office to accomplish our work comes from three primary sources. The first funding source comes from a portion of the state gas tax. The gas tax is a fixed amount that does not change with the fluctuating fuel price. In 2022, Champaign County received **\$3,723,600.97** from the gasoline tax. The **second funding source** comes from a portion of the license plate fee. The Engineer's office received **\$1,358,352.32** last year. The **third primary source** of revenue is also based on the number of licenses issued in Champaign County, referred to as the Permissive License Fee. Municipalities, townships, and the County split the additional \$15 fee. The County's permissive share was **\$579,862.95** last year.

Champaign County uses no **property or sales tax to maintain roads or replace** bridges in 2022. During the Covid pandemic, the Engineer's office lost over a million dollars of revenue thru the gas tax. **Special thanks to the Champaign County Commissioners** for transferring a million dollars to invest in our roads from the American Rescue Plan Act. We will continue to pursue outside funding to help improve the county bridges and roads. Some of our accomplishments completed this year can be found in the following report.

Following the Ohio Revised Code, an annual report must be presented to the County Commissioners summarizing the work performed and the county infrastructure condition. Please submit any questions or comments concerning this report to our office. **We are happy to serve you.**

Sincerely,



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Champaign County Engineer

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2022 Road Work

<p>2022 Road Projects</p> <p>Old Troy Pike between SR 560 and SR 55 and Runkle Road between SR 235 and St. Paris Jackson were paved by Fillmore Construction with a bid price of \$1,196,755.20. This paving project was out of the motor vehicle license fees and the gas tax by the county. Included in the bid was the widening of Kennard Kingscreek Road and McMahill Road for Rush Township. Rush Township reimbursed the county for the work performed on the township road.</p> <p>Champaign County also had two inches of cold in-place asphalt constructed on Kennard Kingscreek Road from Herr Road to SR 245. Bergman Construction won the bid to install this material at the cost of \$277,526.98 Asphalt Materials Inc. provided the asphalt liquid and made the material. The total material cost, including the stone, was \$401,345.75.</p>	<p>2022 Resurfacing Program</p> <p>Various roads on the western side of the county were chip and sealed.</p> <p>Over 91 miles of County, Township, and Municipal roads were chip and sealed with HF-RS2P emulsion. We are currently on a six-year resurfacing rotation with our program and inspect the roads every two years to see if they need immediate attention.</p> <p>County Roads – 10.56 miles Township and Municipal Roads – 80.96 miles</p> <p>361,222 Gallons of HF-RS2P at \$2.21/gal 9,323 Tons of #8 Stone at \$25.25/ton avg \$ 1,033,706.37 Total Material Cost</p>
<p>Pavement Marking</p> <p>146 miles of road were marked with centerline and edge line, costing \$92,369. 12 railroad crossings, 2 crosswalks, 6 bike crossings, 6 stop bars, and 6 school zones were also painted for \$ 7,541. The total cost of pavement marking for the year was \$ 99,910.</p>	<p>Crack Sealing and Road Maintenance</p> <p>The county crack sealed Dallas Road and strip patched the eastern Champaign County roads. Many roads also had been repaired by our dura patcher.</p>
<p>Mowing</p> <p>Three single passes and two full-width mowing passes were performed this year, totaling 2,692 lane miles of mowing. The total cost for mowing was \$107,445</p>	<p>Road Mileage</p> <p>The current road centerline mileage for the County totals 239.146 miles. This mileage is certified and provided to the Ohio Department of Transportation.</p>

Snow and Ice Control

<p>1,274 tons of salt were used to treat county and township roads through the 2021-2022 winter season. 721 tons were used for county roads and townships, and smaller incorporated villages purchased 553 tons. Over the last fifteen years, our average has been just over 1,793 tons per year.</p>	<p>The 2022 winter salt price was \$72.73 per ton. The price was higher in 2021 at \$62.99 per ton. We also use Beet Heet to help the salt melt snow and ice at lower temperatures and not refreeze. Using this product has helped reduce the amount of material required to melt the same amount of snow and ice at temperatures below 25° F.</p>
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2022 Bridge and Culvert Work

Our annual inspection of 214 bridges has been completed and shows that our bridges are in good shape overall. We share maintenance responsibilities with Clark County for three bridges on County Line Road and two with Logan County. Currently, Champaign County has five county bridges posted narrow (18' to 20'), and one posted for load restrictions is posted as one lane (18' or less).

2022 Bridge Replacement and Repair	
Location	Cost
Clark 126-0230 Rehab	\$ 390,250.00
S.Mutual Union 167-0193 Rehabilitation	\$ 17,022.07
Wolcott 239-127 Rehabilitation	\$9,901.25
Total	\$417,173.32

2022 Bridge Inspection		
General Appraisal	Condition	Number
9A	As-Built	79
8A	Very Good	81
7A	Good	42
6A	Satisfactory	9
5A	Fair	3
4A	Poor	0
3A	Serious	0
2A	Critical	0
Total		214

Staff and Highway Workers

Currently, the Engineer's office has eight office staff, a superintendent and four supervisors, a fleet maintenance manager and a mechanic, and 18 highway workers. The 33 employees and the County Engineer are dedicated to maintaining Champaign County's infrastructure.

2022 Culverts Replaced

Per Ohio law, any structure spanning less than 10' is considered a culvert.

The Engineer's Office replaced 14 culverts ranging from 12" to 48" in diameter. The cost of these projects totaled \$40,226.93

Mapping and Planning

The Office of Mapping and Planning continues to do a great job serving the public. The office answers several questions daily from the public in addition to their regular duties. The number of conveyances and new surveys was similar to last year. The total conveyances reviewed were 1942.

<p style="text-align: center;">2022 Permits</p> <ul style="list-style-type: none"> ➤ 37 Total Requests for Driveway Permits ➤ 18 Driveway pipes were installed ➤ 47 House numbers were issued ➤ 10 Total Utility Permits Were Issued <ul style="list-style-type: none"> 5 Issued on county roads 5 Issued on township roads 	<p style="text-align: center;">2022 Deed, Description, and Survey Reviews</p> <ul style="list-style-type: none"> ➤ 269 Surveys were approved <ul style="list-style-type: none"> 103 New splits were approved 14 New attachments were approved 21 New easements were approved 131 Retracement surveys ➤ 2001 Conveyances were reviewed <ul style="list-style-type: none"> 36 Sheriff Deeds
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Existing Fleet

The 35 licensed vehicles drove 294,865 miles last year. The 30 pieces of off-road construction equipment totaled 7,035 hours of usage. We have 11 tandem trucks. The average age of our tandem trucks is eight years old, with an average of 105,744 miles. Through 2022 we spent \$165,609 on fuel. This year, the total maintenance cost for the entire fleet and construction equipment was \$357,005.

2022 New/Used Equipment Purchases

<p>2022 Superior Broom \$66,068</p> 	<p>2022 International Truck \$228,174</p> 
<p>2022 Case Compact Loader \$72,295</p> 	<p>2022 John Deere Tractor 5115 \$78,250.02</p> 

Financials

2022 Receipts			2022 Expenditures		
Gasoline Tax	\$3,723,600.97	50%	Road Projects & Maint.	\$ 2,660,316.58	41.2%
Miscellaneous	\$ 1,740,739.68	23%	Payroll	\$ 2,030,228.79	31.4%
Auto License	\$1,358,352.32	18%	Employee Benefits	\$ 452,058.43	13.7%
Permissive Taxes	\$ 579,892.95	8%	Equipment & Fleet	\$ 882,177.09	7.0%
Interest	\$ 27,208.09	1%	Bridge & Culvert Projects	\$ 289,127.90	4.5%
			Office & Operations	\$ 142,337.24	2.2%
Total Receipts	\$ 7,429,794.01		Total Expenditures	\$ 6,456,246.03	