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#### BRIDGE SUFFICIENCY RATINGS

Year	Poor 0-50	Fair 51-70	Good-Excellent 71-100	Year	Poor 0-50	Fair 51-70	Good-Excellent 71-100
2005	16.3%	12.8%	68.0%	2012	5.2%	7.4%	87.4%
2006	14.7%	8.6%	76.7%	2013	3.9%	8.3%	87.8%
2007	11.3%	9.1%	79.6%	2014	3.9%	7.4%	88.7%
2008	8.8%	8.3%	82.9%	2015	3.5%	6.5%	90%
2009	7.4%	8.3%	84.3%	2016	3.0%	6.1%	90.9%
2010	7.4%	7.0%	85.6%	2017	3.5%	3.0%	93.5%
2011	6.1%	7.9%	86%	2018	3.0%	3.0%	94%



## Defiance County Engineer Annual Report 2018

FROM THE DESK OF  
 WARREN J. SCHLATTER, P.E., P.S.



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DEFIANCE—It is my privilege to present the Annual Report for the Office of the Defiance County Engineer for the year 2018.

Our Highway Garage Staff did much of the support work for the roadside grading and widening work. There were a total of twenty-three culverts replaced this year. They continued with their various other duties as well (replacing berm, mowing, patching, sign replacement, roadside tree trimming and removal, snow & ice control/removal, etc.).

This year we paved and widened several roads throughout the County. Some of these roads include: Banner School Rd from 1 mile West of Egler Rd to US 24, The Bend Rd from SR 18 to 1265' North of Mud Creek Rd, Defiance Ayersville Pleasant Bend Rd between Steinmeier Rd and Harris Rd, Ney Williams Center Rd between US 127 and the Defiance Williams County Line Rd, Fruit Ridge Rd between Defiance Ayersville Pleasant Bend Rd and SR 18, Highland Center Rd 1320' South of Watson Rd, and Watson Rd between Fullmer Rd and Defiance Ayersville Pleasant Bend Rd.

The paving was done by Gerken Paving and the widening was done by Vernon Nagel, Inc. The total project cost was \$1,701,400.50. OPWC funded \$856,564.00.

This year Domersville Rd from Elliott Rd to the Defiance Henry County Line Rd was paved. The work was done by Gerken Paving and paid for by federal CSTP funds. The total project cost was \$993,899.28.

The bridge on Watson Road West of SR 66 was replaced with Federal Funds at a cost of \$1,313,708.00 by RG Zachrich Construction.

A Federally Funded project to widen the shoulders on CR 424 from the Clinton St bridge to Independence Dam State Park was begun by RG Zachrich Construction. The cold conditions delayed final paving and striping until 2019.

Our administrative staff manages the overall office functions and budget of the Engineer's Office. They also help with the designing, engineering and overseeing of all aspects of the construction projects. With their diligence, we were able to obtain \$3,715,438.04 in federal and state grants for this year's projects as well.

I want to take this opportunity to thank the residents of Defiance County for the opportunity to serve you.

I respectfully submit this annual report required by Ohio Revised Code Ch. 5543.

Warren J. Schlatter

#### 2018 BRIDGE WORK AND MAJOR ROAD WORK

2018 Road Paving	
Location	Cost
The Bend from SR 18 and 1265' N. of Mud Creek Rd	\$309,022.85
DAPB btw Steinmeier and Harris Rd	\$64,540.51
Domersville btw Elliott and the Defiance Henry Cty Ln Rd	\$903,066.03
Fruit Ridge Rd btw DAPB and SR 18	\$314,115.71
Banner School Rd from 1 mi. W. of Egler Rd & US 24	\$214,387.40
Highland Ctr Rd from 1320' S. of Watson Rd	\$49,270.90
Ney Williams btw SR 127 and the Defiance Williams Cty Ln Rd	\$351,957.03
Watson Rd btw Fullmer and DAPB Rd	\$163,588.86

2018 Bridge Replacement	
Location	Cost
Watson Rd W of SR 66	\$1,313,708.00

2018 ACTUAL INCOME & EXPENSES

<u>2018 Revenue</u>		<u>Disbursements</u>	
Permissive Tax	448,030	Salaries	1,117,397
Motor Vehicle License Tax	1,424,048	Benefits	508,848
Motor Vehicle Fuel Tax	2,417,404	Materials & Supplies	1,016,631
Court Fines	23,039	Equipment	130,774
Sales (Maps, Prints, etc.)	783	Contracted Repairs	79,710
Other	225,099	Office Expenses	3,165
Reimbursements	17,348	Other Expenses	53,577
Interest	8,757	Contracted Services	14,986
Transfers	4,999	Contracted Projects	1,601,699
State Reimbursements	55,695	Land Acquisition (right of way)	31,500
Note Proceeds	-	Note Payments	-
OPWC	856,564	Grants to Townships.	40,452
Federal Grants	2,858,874	Grant Matching Funds & FHWA	3,715,438
<b>Total Income</b>	<b>\$8,340,641</b>	<b>Total Expenditures</b>	<b>\$8,314,176</b>
Outstanding Encumbrances	67,030	Outstanding Encumbrances	68,616
2017 Carryover to 2018	1,906,435	2018 Carryover to 2019	1,931,312
<b>Total Disbursements</b>	<b>\$10,314,105</b>	<b>Total Disbursements</b>	<b>\$10,314,105</b>

SNOW & ICE CONTROL

Snow & Ice Control costs were some what higher during November 1, 2017 through March 1, 2018 season. There were many smaller events that characterized this season. Below is a comparison of the last 3 seasons.

	2015-2016	2016-2017	2017-2018
Labor	\$20,985.27	\$25,132.27	\$35,491.20
Overtime	\$14,277.66	\$20,688.97	\$36,964.79
Equipment	\$72,378.65	\$103,158.16	\$179,107.43
Material	\$21,980.11	\$65,621.39	\$81,752.88
<b>Total Seasonal Cost</b>	<b>\$129,621.68</b>	<b>\$214,600.79</b>	<b>\$333,316.30</b>

2018 SIGN REPLACEMENTS

Type of Sign	Quantity
Stop Sign	26
Stop Ahead	4
Warning	7
Road Name	36
Other Regulatory	9
<b>Total</b>	<b>82</b>

Reason	Quantity
Accident	10
Vandalism	18
Stolen	42
Normal wear (Faded, cracked, upgrade, etc.)	12
<b>Total</b>	<b>82</b>

2018 ROAD RESURFACING PROGRAM  
RESURFACING:

County:

Banner School Rd	1.9 miles
DAPB Rd	0.59 miles
Domersville Rd	7.7 miles
Fruit Ridge Rd	3.2 miles
Highland Center Rd	0.25 miles
Ney Wms Ctr Rd	3.7 miles
The Bend	2.5 miles
Watson Rd	1.5 miles
26,451 tons of asphalt applied	

Townships:

5 Township	5.199 miles
3,663 tons of asphalt applied	

**Total Cost: \$2,641,962.56**

2018 PATCHING & REPAIR

2,101 tons of asphalt were used this year to patch and repair county roadways at a cost of \$241,411.44.

1,866 tons of asphalt were used to patch and repair township roadways in the following townships: Adams, Defiance, Hicksville, Highland, Mark, Milford, Noble and Washington. The cost to the townships was \$214,532.18.

2018 CRACK SEALING

62,070 pounds of crack sealing material were applied to 32 miles of county roadways at a cost of \$72,013.46.

15 miles of township roadways were sealed using 37,401 pounds of crack sealing material under the supervision of the County Engineer's Office. The cost for township crack sealing was \$40,243.46.

2018 CHIP SEALING

3,014 tons of stone and 82,300 gallons of liquid asphalt were applied to 24.87 miles of county roadways during this year's chip sealing program. This year's cost was \$232,649.26.

58.39 miles of township roads were chip sealed using 6,874 tons of stone and 185,429 gallons of liquid asphalt at a cost of \$496,718.36. All the townships participated this year except two.

2018 PAVEMENT MARKING PROGRAM

1,990 gallons of paint were applied to county and township roads during the 2018 Pavement Marking Program at a total cost of \$111,436.83. The markings included:

Type	County	Township
Centerline	43.61 Mi.	8.89 Mi.
Edge Line	78.28 Mi.	1.64 Mi.
Stop Lines	257	0
Railroad	2	0
School Zones	4	0

2018 PERMITS

Driveway	22
Utility Occupancy	9
Excavation	0
Ditch Enclosure	5
Storm water/Sanitary Discharge	0
Special Hauling	11
R/W Occupancy	1
<b>TOTAL</b>	<b>48</b>

2018 Vegetation Control

The east half of the county was sprayed for vegetation control in 2018.

35,250 gallons were applied at a cost of \$24,816.70.

Noble and Tiffin townships participated this year.

2018 Right of Way Acquisition

Additional right of way is purchased for many new projects. This year's acquisitions included:

0 Temporary easements totaling 0 acres

4 Permanent parcels totaling 4.714 acres

Total cost: \$31,500.00