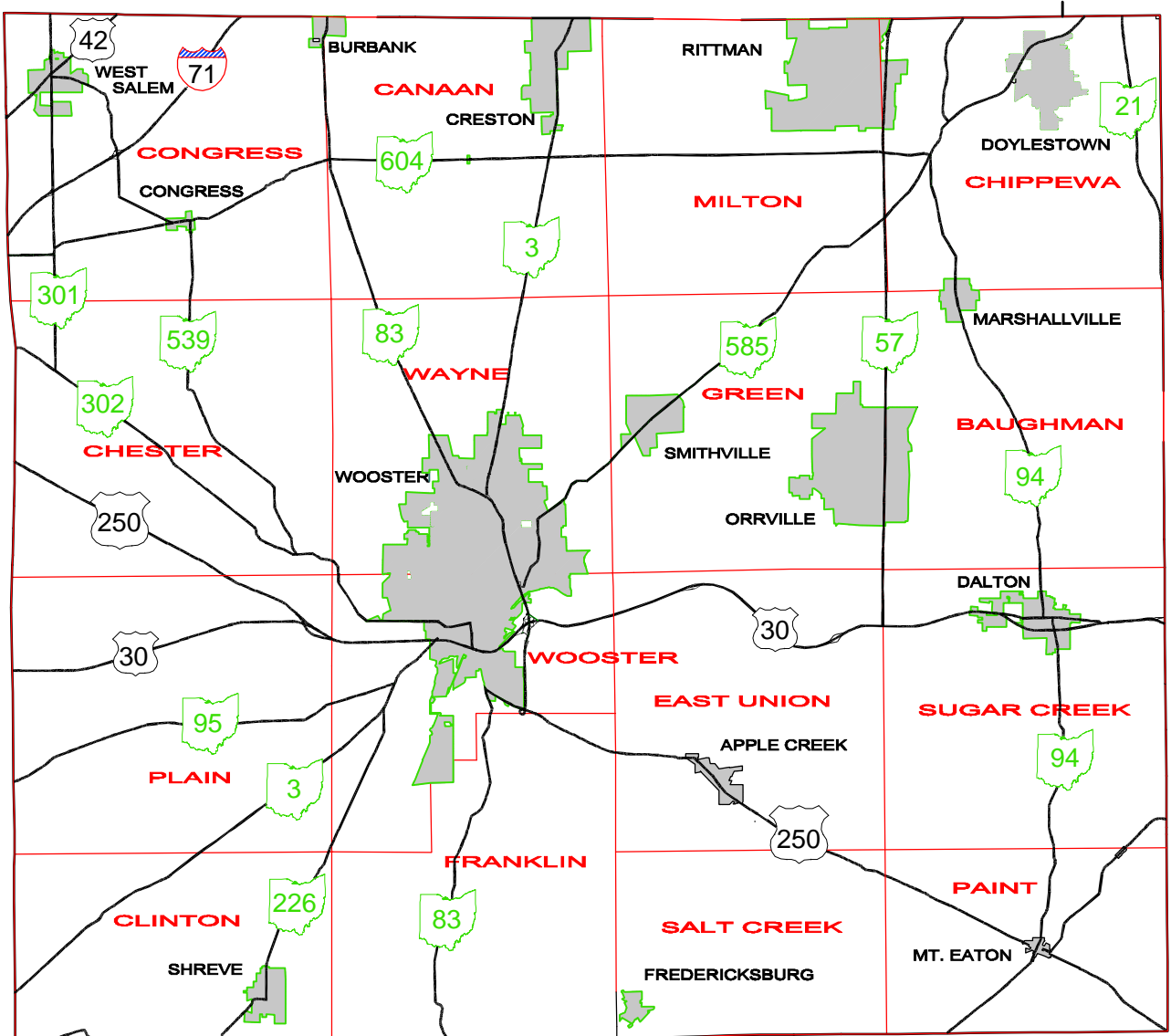




WAYNE COUNTY ENGINEER'S OFFICE

2015 ANNUAL REPORT



ROGER K. TERRILL, P.E., P.S.
WAYNE COUNTY ENGINEER

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WAYNE COUNTY ENGINEER'S OFFICE
ROGER K. TERRILL, P.E., P.S.
WAYNE COUNTY ENGINEER

March 18, 2016

Wayne County Commissioners
428 West Liberty Street
Wooster, Ohio 44691

Honorable Commissioners:

I am proud to present the Wayne County Engineer's 2015 Annual Report, summarizing the activities of the Engineering, Highway Maintenance and Tax Map Departments.

As can be seen on the included chart, receipts increased moderately from 2002 to 2012, while slightly increasing and remained flat. Due to layoffs and attrition, actual total salaries increased (11.5% from 2002 through 2015) less than the increase in receipts from 2002 through 2015, whereas employee benefits increased more than salaries during the same period. Employee benefits also make up approximately one-third of total of salary and employee benefits. Salary and employee benefits make up approximately forty (40) percent of the Engineer's Office total budget. The remaining sixty (60) percent of the budget is made up of materials (gravel, concrete, asphalt, etc.), construction costs (labor, equipment & material for construction of roads & bridges), equipment, fuel, etc. and increased extensively from 2002 through 2015. Materials, construction costs, equipment, fuel, etc. also increased at a rate far greater than receipts for the same period. Please note that even though gas and diesel fuel dropped dramatically in 2015, the cost of petroleum related products (asphalt, etc.) still increased.

Construction in 2015 included the replacement of five (5) bridges (three (3) with federal funds and two (2) bridges via force account). One (1) bridge was rehabilitated by replacing its superstructure, deck and rehabbing the abutments. We also replaced two (2) large culverts. Our goal is to replace ten (10) bridges and twelve (12) large culverts annually.

We continue to utilize all available grants in the most efficient manner possible. However, state and federal funding have become much more difficult to obtain. We were not successful in obtaining funding through CDBG in 2015.

I want to express my sincere appreciation to my staff for compiling this report and to the Board for their cooperation in helping us achieve our goals. Your comments and suggestions are welcome.

Respectfully submitted,

A handwritten signature in blue ink that reads "Roger K. Terrill". The signature is fluid and cursive, written over a white background.

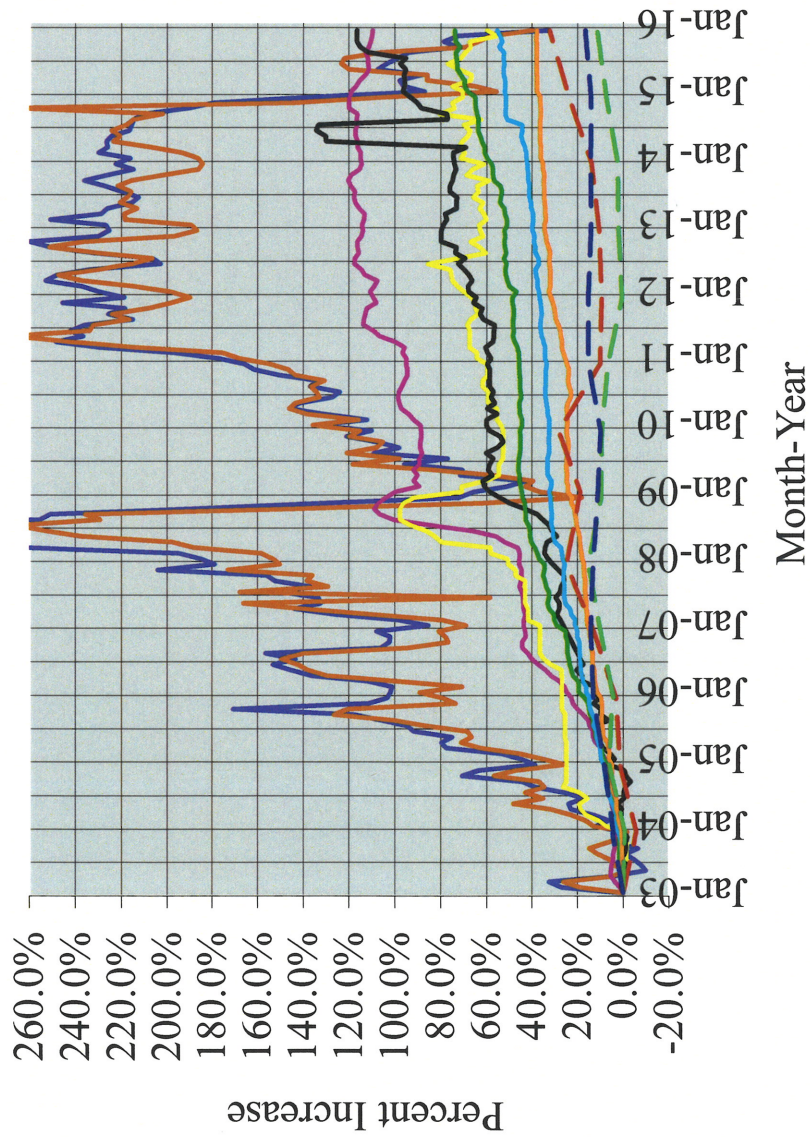
Roger K. Terrill, P.E., P.S.
Wayne County Engineer

Wayne County Engineer's Office

Major Expenses and Receipts

Percent Increase since 2003

(* <http://data.bls.gov:8080/PDQ/outside.jsp?survey=pc>)
 (** www.wayne-county-engineer.com)



* Source; Bureau of Labor Statistics
 ** Source; Wayne County Engineer's Office

Item Order
 Highest to Lowest - Top to Bottom

PIPELINE CONSTRUCTION THROUGH WAYNE COUNTY

The Wayne County Engineer's Office had additional meetings in 2015 with two (2) pipeline companies that are planning for the construction of major, interstate pipelines through Wayne County. Both of these pipeline projects are subject to the rules and regulations of the Federal Energy Regulatory Commission (FERC). **ET ROVER PIPELINE, LLC** is planning to construct twin, 42" pipelines (20' apart) to transport natural gas. The ROVER pipelines will traverse 28 miles through rural Paint, Salt Creek, Franklin, Wooster and Plain Township. Each pipeline will have an operating pressure of 1,440 pounds per square inch (psi). The proposed pipelines will require a 150' construction easement with a 60' wide permanent easement. A site for a mainline compressor station is proposed northwest of Elyria Road and U.S. 30 in Plain Township. Construction is expected to start in 2016. **NEXUS GAS TRANSMISSION, LLC** is another pipeline company that is planning to construct a 36" pipeline traversing six (6) miles through Chippewa Township. The pipeline will transport natural gas and will have a maximum operating pressure of 1,440 psi. The proposed pipeline will require a 100' construction easement with a 50' wide permanent easement. Construction is expected to start in 2017.

KINDER MORGAN is proposing to develop the **UTOPIA EAST PIPELINE PROJECT** through Wayne County. This new 12" pipeline system will transport previously refined or fractionated petroleum byproducts across Ohio to Kinder Morgan's existing pipeline and facilities. The pipeline route will have a 50' permanent easement and will traverse through Paint, Salt Creek, East Union, Franklin, Wooster, Plain and Chester Townships. UTOPIA pipeline construction is expected to begin in November of 2016 with a targeted service date of January 2018. The initial capacity is estimated to be 50,000 barrels per day (bpd) and can be expanded to 75,000 bpd with the construction of additional pump stations. At this time, no pump stations are proposed in Wayne County. The UTOPIA pipeline is not subject to FERC rules and regulations, but the US Army Corps of Engineers will be the lead agency in conjunction with the Ohio Department of Natural Resources, the Ohio EPA and the US Fish and Wildlife Service.

PIPELINE CONSTRUCTION THROUGH WAYNE COUNTY

The Wayne County Engineer's Office (WCEO) is involved with Road Bore Permits for each County Road the pipeline companies will be crossing. The WCEO also requires Special Hauling Permits on County Roads used by the pipeline companies for the transportation of oversize/overweight vehicles. Drive Pipe Permits will need to be acquired by the pipeline companies so they can install various construction entrances for ingress/egress to County Roads. A Pipeline Road Use Maintenance Agreement (RUMA) is being proposed to protect County Roads from damage that may be caused from excessive truck traffic used during construction of the pipelines. The RUMA has specific terms and bonding requirements that the pipeline companies are to adhere to for preventing and repairing any damages to County Roads. Pipeline RUMA's will also be administered by the WCEO for Township Road haul routes should the individual Township Trustees choose to partner with the County's RUMA.



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DUTIES OF THE COUNTY ENGINEER

The Engineer has the responsibility of performing for the County all duties authorized or declared by law to be done by a civil engineer or surveyor, and accordingly must hold registration certificates of the State of Ohio as both Professional Engineer and Professional Surveyor.

The Engineer, in cooperation with the County Commissioners, is responsible for all maintenance, repair, widening, resurfacing, reconstruction, and construction of roads and bridges on the county highway system.

The Engineer serves as an advisor to the Township Trustees for the maintenance, repair, widening, resurfacing, and reconstruction of their highways. The bridges on the township highway system are the full responsibility of the County.

The Engineer is also responsible for many bridges within municipalities. These bridges are located on streets which are extensions of county or township roads.

Also, the Engineer must maintain a perpetual inventory of all bridges on the county and township highway system, including an annual inspection and evaluation of the condition and load carrying capacity of each bridge.

The Engineer is the Tax Map Draftsman for the County and at the discretion of the County Commissioners, he may also serve as the Acting Sanitary Engineer and as a member of the County Planning Commission.

OHIO HIGHWAYS AND ROADS

<u>System</u>	<u>Mileage</u>	<u>Maintained By</u>
State Highway	19,232	Ohio Department of Transportation
County Road	28,974	County Engineers
Township Road	41,551	Township Trustees
Municipal Street	<u>31,723</u>	Incorporated Cities & Villages
TOTAL	121,480	

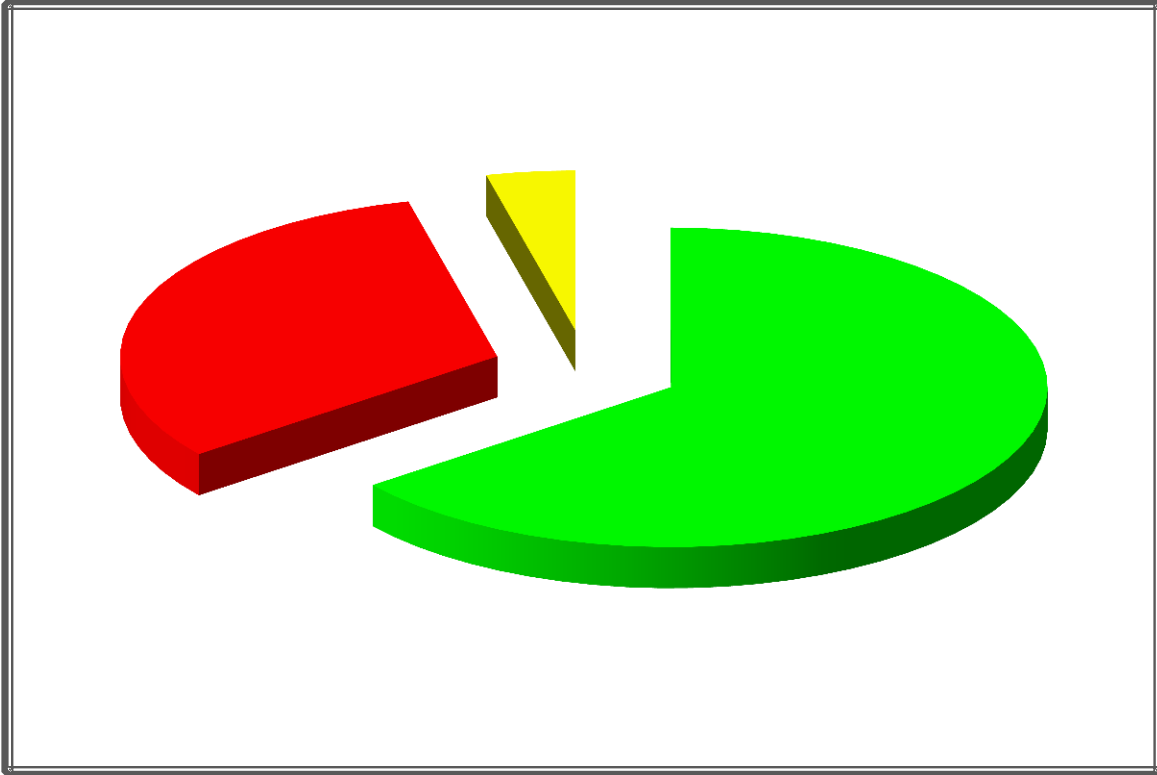
WAYNE COUNTY HIGHWAYS AND ROADS

<u>System</u>	<u>Mileage</u>	<u>Maintained By</u>
State Highway	253	Ohio Department of Transportation
County Road	500	Wayne County Engineer
Township Road	561	Township Trustees
Municipal Street	<u>277</u>	Incorporated Cities & Villages
TOTAL	1,591	




TOWNSHIP ROAD MILEAGE

Baughman	36.86	Clinton	26.05	Green	34.61	Salt Creek	23.81
Canaan	26.57	Congress	36.06	Milton	33.15	Sugar Creek	46.96
Chester	44.79	East Union	41.92	Paint	23.22	Wayne	34.81
Chippewa	50.84	Franklin	30.53	Plain	37.58	Wooster	33.74

2015 INCOME

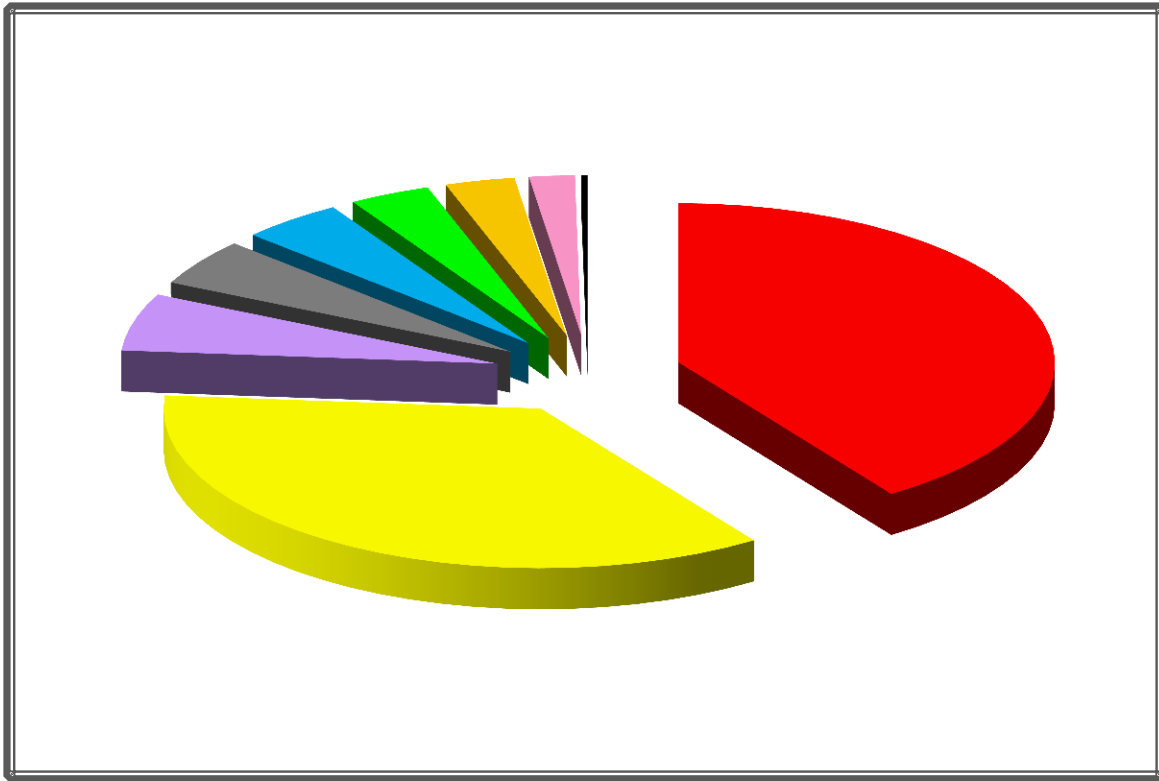


WHERE THE MONEY COMES FROM

	License Fees & Permissive Tax	\$4,797,538	64.5%
	Gasoline Tax	2,356,713	31.7%
	Traffic Fines, Fees, & Misc.	<u>282,327</u>	<u>3.8%</u>
	TOTAL	\$7,436,578	100.0%

REAL ESTATE TAXES ARE NOT USED FOR COUNTY HIGHWAY PURPOSES.

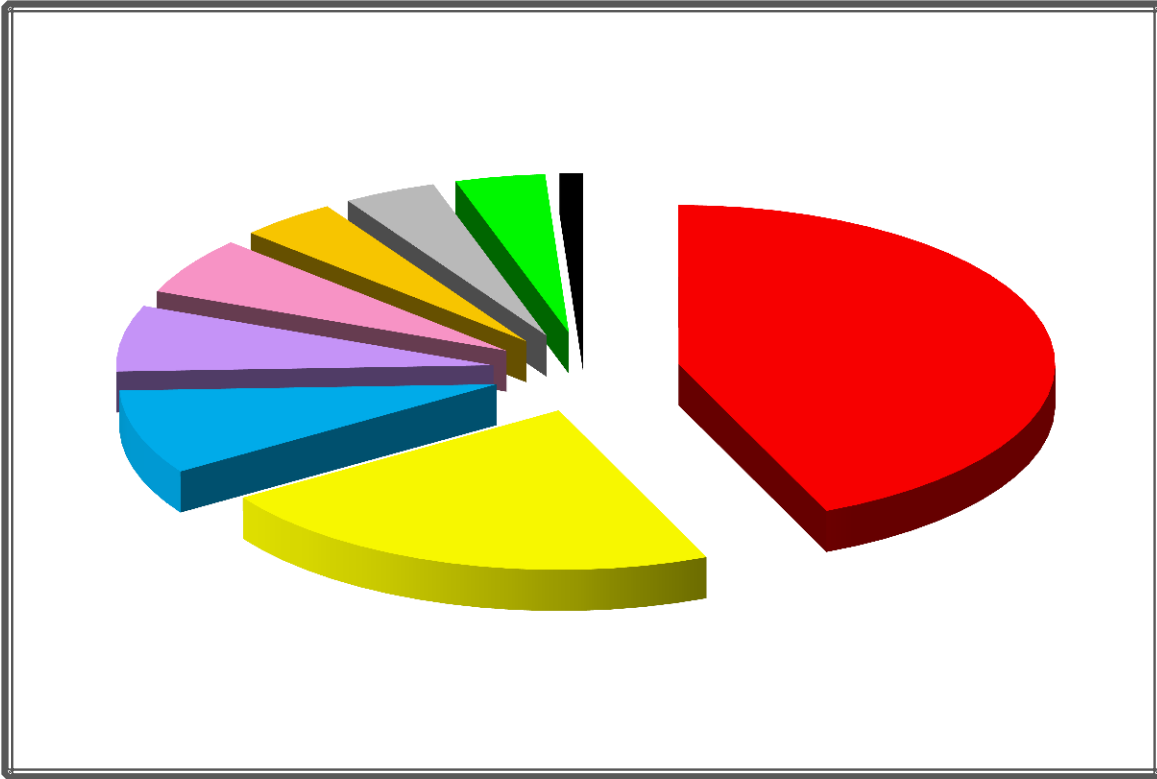
2015 EXPENDITURES



WHERE THE MONEY GOES

	Labor and Fringes	\$3,114,480	40.4%
	Road Materials & Contracts	2,762,472	35.9%
	Repair, Fuel, Etc.	448,844	5.8%
	Equipment	366,430	4.7%
	Bridge Materials & Contracts	338,981	4.4%
	Note Repayment	268,600	3.5%
	Contracts (Repairs & Services), Compensation & Damage, Advertising & Printing	230,385	3.0%
	OPWC Projects	150,558	2.0%
	Grants to Townships	<u>19,653</u>	<u>0.3%</u>
TOTAL		\$7,700,403	100.0%

2016 PROJECTED APPROPRIATIONS



	Labor and Fringes	\$3,247,693	43.6%
	Road Materials & Contracts	1,652,181	22.2%
	Bridge Materials & Contracts	640,000	8.6%
	Repair, Fuel, Etc.	500,000	6.7%
	OPWC Projects	435,000	5.8%
	Contracts (Repairs & Services), Compensation & Damage, Advertising & Printing	313,350	4.2%
	Equipment	297,200	4.0%
	Note Repayment	288,000	3.9%
	Grants to Townships	<u>75,000</u>	<u>1.0%</u>
TOTAL		\$7,448,424	100.0%

PERSONNEL

ROGER K. TERRILL, P.E., P.S. ***COUNTY ENGINEER***

ADMINISTRATIVE SERVICES DEPARTMENT

Pamela Brown
Administrative Assistant

Cindy Nolt
Account Clerk II

ENGINEERING DEPARTMENT

Larry Conn
Engineering Services Manager

Eric Liew
Deputy Engineer (Bridges)

Terry Vorhies (Ret'd. 12-11-15)
Deputy Surveyor

Mark Spademan
Deputy Engineer (Subdivisions)

Larry Warner
Engineering Inspector

Jeffrey Sparr
Deputy Engineer (Highways)

Michael Barnhouse
Engineering Technician

Matt Sigler (Eff. 4-13-15)
Engineering Technician

TAX MAP DEPARTMENT

Douglas Green
Tax Map Supervisor

Mike Martin
Tax Map Specialist

PERSONNEL

Continued

HIGHWAY MAINTENANCE DEPARTMENT

Highway Superintendent

Ben Saurer

Assistant Highway Superintendent

Gale Wilcox

Supervisors

David Mowrer (Res'd. 5-14-15)

Mike Pritchett

Bill Sprinkle

Dean Whitman

H i g h w a y W o r k e r s

Keith Badertscher

John Baldner

Larry Bresson

Scott Cantrell

Dale Cutter

Les Durstine

Bob Ewing

Jeff Grassman

Jon Hudson

Mike Hyatt

Corey Keplar (Eff. 7-6-15)

Scott Loving

Kevin Miller

Patrick Miller

David Mowrer (Eff. 5-14-15)

Tom Nolletti

Tom Shamp

Jaime Sigler

Matt Sigler (Res'd. 4-13-15)

Brian Spotts

Stephen Stewart

Kevin Troyer

Bryan Weiser (Eff. 6-29-15)

Craig Wuthrich

Jeffrey Zerrer

Mechanic

Joe Burns

Parts Department

Bob Tenney

Sign Shop

Jeffrey Metcalf

Brock Yoder

HIGHWAY MAINTENANCE REPORT

MAINTENANCE AND CONSTRUCTION

County forces improved the pavement surface on several roads by placing a leveling (or scratch) course of asphalt concrete. The roads in the following table were scratched full-width in 2015.

<u>Road No.</u>	<u>Name</u>	<u>Section</u>	<u>Miles</u>
29	Back Massillon	D*	0.54
149	Elyria	E*,F*,G*,H*	1.18
186	Overton	A*,B*,C*,D*	2.27
188	Hackett	B*,C*	0.74
200	Blough	A*	0.30
209	Gates St.	B*	0.29
Total			5.32

* - Partial Section

C.R. 188 HACKETT ROAD



HIGHWAY MAINTENANCE REPORT

Continued

Several roads also received a chip/seal surface treatment by county forces.

<u>Road No.</u>	<u>Name</u>	<u>Section</u>	<u>Miles</u>
16	Funk	C*-G	4.78
18	Angling	A-C	5.56
36	Firestone	A-C	4.04
48	Pleasant Home	C-D*	2.01
72	Elyria	A	1.44
86	Smithville-Western	A-E	6.07
93	Bell	A-B	1.01
104	Newkirk	C*-E	2.36
109	Salt Creek	E*	0.54
149	Elyria	L*	0.25
154	Myers	A-C	3.59
186	Overton	E*	0.46
190	Angling	A	0.35
213	Bates	A-B	2.02
Total			34.48

C.R. 16 FUNK ROAD



HIGHWAY MAINTENANCE REPORT

Continued

- A contract was awarded to Melway Paving Company, Inc. from Holmesville, Ohio to seal various roads in 2015. The existing pavement of the following roads was sealed with bituminous material and limestone cover aggregate. The total construction cost of the project was \$267,143. Local funds financed the project.

<u>Road No.</u>	<u>Name</u>	<u>Section</u>	<u>Miles</u>
10	Fryburg	A	0.60
169	Hametown	C-D	1.95
501	Fredericksburg	A-E	5.83
504	Sterling	A-D	5.57
Total			13.95

- Sections F-G (2.85 Mi.) of C.R. 52 (Kidron Road) were resurfaced with a 1.5" overlay of asphalt concrete. The total cost of the project was \$250,930. The project was financed with a loan from the Ohio Public Works Commission (\$100,372), and Wayne County (\$150,558). Superior Paving & Materials, Inc. from North Canton, Ohio was the prime contractor.



- Wayne County participated with the City of Wooster on a joint resurfacing project which included Pittsburgh Avenue. Wayne County's share of the project costs was \$25,501. The project within the City was financed with federal Large Cities funds (80%) and local funds. The Kokosing Construction Company, Inc. from Mansfield, Ohio was the prime contractor.



HIGHWAY MAINTENANCE REPORT

Continued

✚ Also in 2015, the Wayne County Engineer's Office assisted the Wooster Township Trustees on an Ohio Public Works project. Development of construction plans and project administration was provided by the Engineer's Office. The project included the reconstruction of an approximately 0.07 mile section of Fry Road and the intersection at Wile Road. The total construction cost of the project was \$169,207. The project was financed by the Ohio Public Works Commission (\$84,603) and Wooster Township (\$84,604). Terra Valley Excavating from Bellville, Ohio was the prime contractor.



SNOW AND ICE CONTROL

Heavy equipment available for snow and ice control includes; 29 plow trucks with spreaders and 2 V-plow graders.

	<u>WINTER 2012- 2013</u>	<u>WINTER 2013- 2014</u>	<u>WINTER 2014- 2015</u>
Salt & Cinders (Tons)	6,474	8,997	7,865
Labor	141,626	235,266	238,303
Equipment	181,363	304,096	319,829
Material	130,382	260,151	243,407
Total	\$453,371	\$799,513	\$801,539

HIGHWAY MAINTENANCE REPORT

Continued

WEED AND BRUSH CONTROL

In 2015, guardrail spraying was performed by DeAngelo Brothers, Inc. from Hazleton, Pennsylvania at a total cost of \$15,624. County maintenance crews conducted mowing operations in the summer and performed brush cutting during the winter months.

EQUIPMENT PURCHASES

<u>2015</u>	<u>2016 - Tentative</u>
2 Snow & Ice Packages for Single-Axle Dump Trucks	1 Tandem-Axle Dump Truck
1 Snow & Ice Package for Tandem-Axle Dump Truck	1 Vacuum Excavator
1 Pickup	
1 Used Road Widener	
1 Hydraulic Hammer	



PLANNING AND PROGRAMMING

The roads comprising the maintenance program are selected after an evaluation of the condition of each road. Information for all county roads is available in various electronic files. This information aids in the preparation of the annual highway maintenance program.

The highway inventory consists of approximately 470 road sections. During 2015, all sections were reevaluated.

Permits were issued for the following:

75	Drive Pipes
152	Utility Permits
32	Ditch Enclosures

The utility permits were primarily for public utilities and the oil and gas industry. Drive pipe permits were for private, commercial, and industrial drives. Permits were also issued for 10 oversize or overweight loads.

In addition, the engineering inspectors are often asked to inspect a variety of problems, to determine whether or not the problems are the responsibility of the County, and if so, what measures should be taken to correct the problems.

WAYNE COUNTY ROAD AND BRIDGE FACTS

- 📍 Ranked 4th in the state for county road mileage.
- 📍 Ranked 4th in the state for bridges inspected & maintained.
- 📍 Ranked 14th in the state for land area.
- 📍 Ranked 24th in the state for population – 114,520 (2010 Census)

COMPARISON WITH ADJOINING COUNTIES

	<u>Ashland</u>	<u>Holmes</u>	<u>Medina</u>	<u>Stark</u>	<u>Summit</u>	<u>Wayne</u>
Co. Road Mileage	282	249	326	407	183	500
Twp. Road Mileage	405	567	491	1,314	345	561
Bridges, 10' Span or Greater	221	280	290	325	311	487
Land Area (Sq. Mi.)	424	423	422	576	413	555

LARGE CULVERT REPORT

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 306 large culverts on county roads and extensions of those roads through municipalities. Large culverts are defined as culverts having a span or rise greater than or equal to 48". Structures with a span greater than/equal to 120" are considered bridges.

INSPECTION

Inspections of large culverts are performed on a five (5) year rotation in accordance with the latest Ohio Department of Transportation "Culvert Management Manual." Some culverts are inspected and monitored more frequently because of known deficiencies.

At the request of the Township Trustees; the Wayne County Engineer's Office will inspect the large culverts on township roads. There are approximately 250 large culverts on township roads.

CONSTRUCTION

Two (2) large culverts were replaced in 2015.

THE FOLLOWING LARGE CULVERTS WERE REPLACED IN 2015:

CHI 70-0.425 on Doylestown Road in Chippewa Township. An existing 48" metal pipe was replaced with 40' of 42" plastic pipe. Replacement work was completed by county forces. Local monies financed the project at a total cost of \$21,698.



LARGE CULVERT REPORT

Continued

✚ **GRE 19-0.608** on Canal Road in Green Township. An existing 60" span x 32" stone and concrete box was replaced with 42' of 6' span x 3' rise concrete box. Replacement work was completed by county forces. Local monies financed the project at a total cost of \$32,767.



BRIDGE STATUS

1) INSPECTION, MAINTENANCE, AND CONSTRUCTION RESPONSIBILITY

- 28 On streets within municipalities (extensions to county or township roads).
- 237 On county roads.
- 222 On township roads.
- 487 Total bridges for inspection.

2) GENERAL DATA FOR COUNTY INSPECTED BRIDGES

- 98 Too narrow (less than 20').
- 43 Posted load limits.
- 42 Structurally deficient.
- 109 Functionally obsolete.

3) OTHER 2015 BRIDGE FACTS

Average age for 448 bridges with a recorded year built is 43.5 years - useful life is considered to be 50 years. For the other 39 bridges, the year built is unknown.

Average overall bridge length is 40.03 feet.

Maintain 3.25 miles of bridge deck.

Note: The information shown above is for bridges having a span of 10' or greater.

BRIDGE REPORT

The Wayne County Engineer is responsible for inspection, maintenance, and construction of 487 bridges on county and township roads, and extensions of those roads through municipalities.

INSPECTION

Annual inspections for 487 bridges are performed in accordance with the latest Ohio Department of Transportation “Bridge Inspection Manual.” Some bridges are inspected and monitored more frequently because of known deficiencies.

LOAD RATINGS

To be in compliance with the National Bridge Inspection Standards; the Federal Highway Administration (FHWA) requires ratings on all structures with a span greater than 20’. The load rating is performed for the safety of the traveling public. The carrying-capacity of all bridges in the State of Ohio are rated using a standard set of vehicles, called “Ohio Legal Loads”. In addition to the current Ohio rating practice of using Ohio legal trucks, the Ohio Department of Transportation (ODOT) has implemented a plan of action in response to the Federal Highway Administration (FHWA) requirement to incorporate the Notional Rating Load (NRL) and/or Specialized Hauling Vehicles (SHV) as per AASHTO’s “Manual for Bridge Evaluation, Second Edition” into all new load rating analyses.

Ratings for 14 bridges were submitted to ODOT in 2015. The ratings performed resulted in the posting of load limits on 5 bridges (revised postings) and on 1 bridge (formerly not posted). In addition, posting of load limits were removed on 3 bridges that were replaced with new structures in 2015.

MAINTENANCE

County forces performed maintenance work ranging from minor structural repairs to replacing damaged guardrail on 28 bridges in 2015.

BRIDGE REPORT

Continued

CONSTRUCTION

Five (5) bridges were replaced and two (2) bridges were rehabilitated in 2015.

Considering the average life expectancy is 50 years for the typical bridge, we should be replacing more than 10 bridges per year. An average of 5.9 bridges per year have been replaced over the past 10 years.

THE FOLLOWING BRIDGES WERE REPLACED IN 2015:

- ✚ **CAN 51-4.21** on Canaan Center Road in Canaan Township. Age 72 years, 20' span, 20.0' wide, single span steel beam bridge was replaced with a 12' span x 6' rise x 58' length precast reinforced concrete box culvert. Replacement work was completed by county forces. Local monies financed the project at a cost of \$89,545.



BRIDGE REPORT

Continued

THE FOLLOWING BRIDGES WERE REPLACED IN 2015 (CON'T.):

- ✚ **CHE 86-3.11** on Smithville-Western Road in Chester Township. Age 85 years, 32' span, 23.0' wide, single span concrete beam bridge was replaced with a 43.4' span, 30.0' wide, single span prestressed concrete box beam bridge. V. O. Menezes & Son, Inc. from Millersburg, Ohio was the prime contractor. Federal and local monies financed the project at a cost of \$344,829.



- ✚ **CLI 104-3.40** on Newkirk Road in Clinton Township. Age 65 years, 16' span, 20.5' wide, single span steel beam bridge was replaced with a 13' span x 4' rise x 68.55' length precast reinforced concrete box culvert. Replacement work was completed by county forces. Local monies financed the project at a cost of \$85,427.



BRIDGE REPORT

Continued

THE FOLLOWING BRIDGES WERE REPLACED IN 2015 (CON'T.):

- ✚ **CLI 228-0.73** on Willow Road in Clinton Township. Age 80 years, 27' span, 22.0' wide, single span steel girder bridge was replaced with a 37.5' span, 28.0' wide, single span prestressed concrete box beam bridge. V. O. Menez & Son, Inc. from Millersburg, Ohio was the prime contractor. Federal and local monies financed the project at a cost of \$265,392.



- ✚ **SUG 129-5.35** on Kohler Road in Sugar Creek Township. Age 80 years, 82' span, 21.0' wide, single span steel truss bridge was replaced with a 78.1' span, 28.0' wide, single span prestressed concrete box beam bridge. V. O. Menez & Son, Inc. from Millersburg, Ohio was the prime contractor. Federal and local monies financed the project at a cost of \$483,759.



BRIDGE REPORT

Continued

THE FOLLOWING BRIDGES WERE REHABILITATED IN 2015:

- GRE 29-4.81** on Back Massillon Road in Green Township. Removal of existing timber deck and steel beam superstructure. Replaced with new steel beam superstructure and timber deck. Alexander's Sandblasting and Painting Ltd. from Big Prairie, Ohio painted the steel superstructure. The project also included repair work to existing abutments and minor approach roadway improvements. The work was done by county forces. Local monies financed the project at a cost of \$76,639.



- MIL 48-5.28** on Pleasant Home Road in Milton Township. Removal of existing steel thru girders. Replaced with new steel thru girders. The work was done by county forces. Local monies financed the project at a cost of \$6,489.



BRIDGE REPORT

Continued

THE FOLLOWING BRIDGE HAD MAJOR IMPROVEMENTS IN 2015:

- ✚ **SAL 225-0.50** on Criswell Road in Salt Creek Township. Removal of severely deteriorated concrete bridge railings. Minor repairs to concrete deck and installed new bridge railings with approach guardrail. The work was done by county forces. Local monies financed the project at a cost of \$35,312.



TRAFFIC CONTROL

The primary responsibility of our traffic control staff is the inspection and maintenance of over 8,500 road signs along nearly 500 miles of county roads and at narrow and load-limited bridges on township roads. The focus of the sign crew's efforts in 2015 (after the top priority of repairing or replacing damaged, vandalized or stolen stop and yield signs) was to launch a project to upgrade the signing of curves and sharp turns along all county roads to meet current state standards. Our sign crew plans to complete this project in 2016.

Wayne County has responsibility for traffic signals and flashers on Back Orrville Road, Canal Road, East Lincoln Way, and Smithville-Western Road. Rather than train personnel and buy the service vehicle, testing equipment and spare parts to keep these systems operational, the highway department continued in 2015 to utilize Lampion Companies, LLC of Wadsworth, Ohio. Lampion submitted invoices totaling \$2,210 by the year's end.

Wayne County again had a reduced longitudinal pavement marking program in 2015. Markings included over 150 miles of center lines, as well as more than 100 miles of edge lines. For the first time, the County Engineer's Office incorporated the painting of auxiliary markings on various county roads at railroad crossings, schools, left turn lanes, entrance ramps and intersections in the pavement marking contract in an effort to better coordinate both types of work. American Roadway Logistics (ARL) of Richfield, Ohio, billed the county \$127,292 in 2015 under their contract.

The traffic engineering staff pursued a number of projects in 2015, including seeking to restore the 55 MPH speed limit on Apple Creek Road in the vicinity of the now-shuttered Apple Creek Developmental Center. District 3 of the Ohio Department of Transportation (ODOT) is currently reviewing the county's findings. The county also assisted Wayne Township in receiving approval from ODOT to reduce the speed limit on their Clear Creek Valley Road to 40 MPH.

After researching various options, the Wayne County Engineer's Office chose in late 2015 to retire its outmoded road name sign making equipment and to attempt to decrease its reliance on distant sign vendors by purchasing a digital sign plotting cutter to fabricate most of its own road and traffic signs. The county expects to begin making signs and installing new, easier to read, road names signs at nearly 700 locations in 2016.

TRAFFIC CONTROL

Continued

Plans to create the first two (2) traffic roundabouts in Wayne County remain on track. ODOT recently awarded a contract for the reconstruction of the intersection of State Route 83 and Smithville-Western Road. Construction is to be completed late-summer 2016. Wayne County's proposed roundabout, located ½ mile to the east at the intersection of Smithville-Western Road and Friendsville Road, is currently in the final design and utility coordination stage. This project, which will be 80% funded by a federal safety grant, should be completed by the fall of 2018.

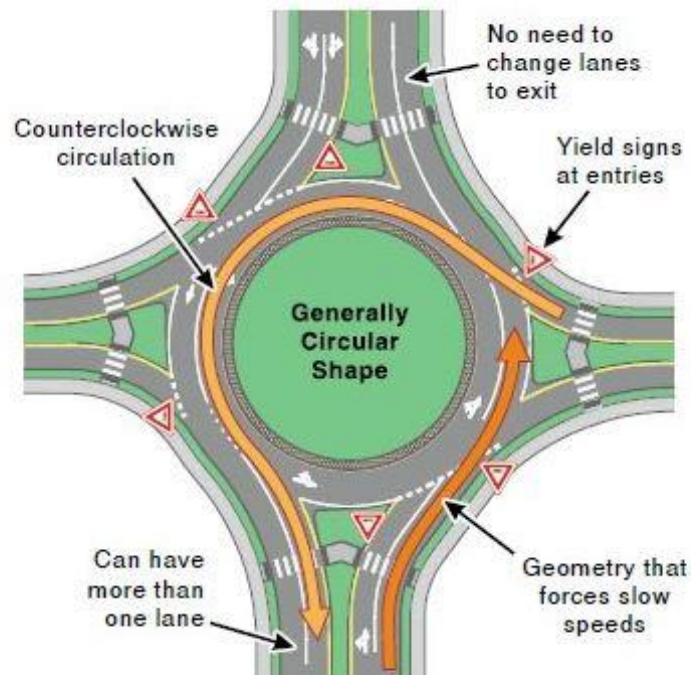


Figure 1: Key Roundabout Characteristics.

Federal Highway Administration – Office of Safety

SUBDIVISIONS

Due to the continued shift in rural residential housing construction toward single lot, infill, access easement, and common access drive projects; no new public subdivision roads were constructed or approved by the Wayne County Engineer, or accepted for dedication by the Board of Wayne County Commissioners in 2015.

TAX MAP DEPARTMENT

The Primary function of the Tax Map Department is to process all deeds and record the parcel transfers on the appropriate map(s). Some of the instruments that the Department is required to review and approve are as follows: warranty deeds, quit claim deeds, executor's deeds, certificate of transfers, deeds of trustees, transfer on death affidavits, land contracts, sheriff's deeds, etc.

The Tax Map Department also retains and maintains historical tax maps, property surveys, railroad and highway right-of-way maps for public viewing and research. The Department provides a current set of tax maps to the County Auditor for taxation purposes. Every parcel of land in Wayne County is mapped and kept current with each landowner. These maps are available for viewing in the front office or on the department's website at map.wayneohio.org. Tax maps of past years dated from 1929 forward are retained in a reference library and are available for viewing.

In 2015, there were approximately 59,803 tax parcels in Wayne County. There were 4,318 conveyances processed through this department during the year.

The Tax Map Department also administers the continuation of the county house numbering system. Numbers are assigned to new and existing building sites, cell tower sites, etc. that require an address. The new numbers are registered on a separate set of maps and index cards. New addresses are submitted to area post offices.

TAX MAP DEPARTMENT

Continued

For many years, surveyors have been required to submit their survey plats for review and entry into the land records. There are approximately 33,882 surveys dating back to 1815. These surveys include numerous plats of allotments, subdivisions, and annexations. In 2015, this department reviewed and processed 229 survey plats.

This office prepares and maintains numerous volumes of other related maps, plats and drawings that form a part of the county mapping system. The office personnel deserve credit for performing the diversified duties that are required in serving the public and maintaining an efficient and well managed Tax Map Department.

RIGHT-OF-WAY

The Right-of-Way Section of the Engineering Department is responsible for maintaining the right-of-way records for county and township roads and drainage systems within the county.

The main duty of this office is the acquisition of additional right-of-way required for road and bridge improvements. The work involves preparation of documents which include easements, work agreements and rights-of-entry for specific purposes on privately owned lands. Negotiations with property owners are of vital importance in the acquisition process.

Road right-of-way information is available at this office, which is used extensively by local governments, private and public utility companies, engineering and surveying practitioners, the highway maintenance department, and the general public.

The office also establishes existing and proposed right-of-way limits on various roads for public improvements and reviews annexations for accuracy for the Board of Wayne County Commissioners.

Work will be required in 2016 on several projects that are now in the design stage along with other 2016 projects that will develop within the year.

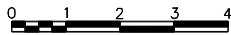
SURVEYING








The primary function of the Surveying Section is to perform field surveys for engineering of public improvements consisting of: roads, bridges, culverts, and drainage. Surveying data collected in the field is downloaded in the office and a base map is created to facilitate the design of various projects by department engineers. After the projects are designed, the surveying section sets horizontal and vertical control monuments in the field for construction. The Surveying Section also reviews and/or performs surveying (as required by Ohio Statute) for annexations and road dedications/vacations in preparation for public viewings and public hearings.

The office also maintains an inventory of monuments that mark the original land divisions of the county and also has a record of Global Positioning Monuments (GPS) that were established throughout the county in 2000. The GPS monuments (approximately 200) have very precise horizontal and vertical positions relative to the earth. These monuments were utilized in the creation of Wayne County's current Geographical Information System (GIS).



Scale in Miles



-  CULVERT REPLACEMENT
-  CULVERT REPAIR
-  BRIDGE REPLACEMENT
-  BRIDGE REHABILITATION
-  ** ROAD RESURFACING
-  ** ROAD SEALING
-  ** BY CONTRACT

WAYNE COUNTY, OHIO

STATE ROUTES 

COUNTY ROADS 

TOWNSHIP ROADS 

