

# Annual Report

# 2009



WARREN COUNTY ENGINEER'S OFFICE  
NEIL F. TUNISON, P.E., P.S.



[www.WCEO.us](http://www.WCEO.us)

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## Dear Citizens of Warren County,

It is my honor to present the Annual Report for the Office of the Warren County Engineer for the year 2009. This report presents the exciting projects planned and implemented as well as the many other activities of our service to the county. I could not accomplish all that we have without my dedicated staff of 52 professionals and support personnel.

We are committed to working with our Board of County Commissioners, County Prosecutor's Office and other County offices, all of our Township Trustees and Fiscal Officers, municipalities, and ODOT to help you get around our beautiful county!



Neil F. Tunison  
Warren County Engineer

Sincerely,

A handwritten signature in dark ink that reads "Neil F. Tunison". The signature is fluid and cursive, with a long horizontal stroke at the end.

Neil F. Tunison, P.E., P.S.  
Warren County Engineer

## Financial Highlights for 2009

### EXPENDITURES

Payroll	\$ 2,161,156.16
Equipment & Facilities (including Maintenance)	1,857,024.92
Other	16,768.19
Benefits	934,529.45
Road Resurfacing & Maintenance	1,874,277.26
Capitol Improvements	1,467,343.95
Insurance	23,233.20
	<b>\$ 8,334,333.13</b>

### REVENUE

Investments	\$ 4,642.07
Reimbursement	672,184.05
Sales	233,499.04
GIS	380.31
Gas Tax	2,331,702.91
Vehicle License	5,281,061.88
	<b>\$ 8,523,470.26</b>

#### Ohio Revised Code 5543.02 Annual Report

The county engineer shall report to the board of county commissioners, on or before the first day of June in each year, the condition of the county roads, bridges, and culverts, and estimate the probable amount of funds required to maintain and repair or to construct any new roads, bridges, or culverts required within the county.

The engineer, on or before the first day of June in each year, shall make an annual estimate for the board of township trustees of each township, setting forth the amount required by the township for the construction, reconstruction, resurfacing, or improvement of the public roads within their jurisdiction. Such estimates shall relate to the year beginning on the first day of March next ensuing, and shall be for the information of the board of county commissioners and board of township trustees, in the making of their annual levies.

The engineer shall approve all estimates which are paid from county funds for the construction, improvement, maintenance, and repair of roads and bridges by the county. The engineer shall approve all estimates which are paid from township funds for the construction, reconstruction, resurfacing, or improving of roads under sections 5571.01, 5571.06, 5571.07, 5571.15, and 5573.01 to 5573.09 of the Revised Code. The engineer shall also approve all estimates which are paid from the funds of a road district for the construction, reconstruction, resurfacing, or improvement of the roads thereof under section 5573.21 of the Revised Code.

For the construction or repair of a bridge, the entire cost of which construction or repair exceeds fifty thousand dollars, the county engineer may request the director of transportation to review and comment on the plans for conformance with state and federal requirements. If so requested, the director shall review and comment on the plans.

## 2009 Year in Review

The award-winning rehabilitation of the Wilmington Road Bridge and the major safety improvements on the SR 73 and Township Line Road intersection are two of the highlights of 2009 for the Warren County Engineer's Office.

One of our new developments last year has been the teaming up of the Warren County Engineer's Office with the Warren County GIS Department to prepare the 2009-2010 Warren County Highway Map. We were thrilled to introduce this map designed and constructed by the county. This achievement opens a door for us in both cost-efficiency and the ability to ensure quality control of our map content.



2009-2010  
Warren County  
Highway Map

The following is a 2009 review of the accomplishments of our team of engineers and support staff who serve Warren County through a variety of engineering, construction, and land record keeping services.

### Irwin-Simpson Road Realignment



Irwin-Simpson Road did not line up at Wilkens Blvd and so the traffic flow had to utilize Wilkens Blvd. to continue on Irwin-Simpson Road.

The realignment project has been developed and underway to realign 1400 feet of Irwin-Simpson Road from Nottingham Way to Polo Drive at a cost of \$1,980,050.98. Part of the plan is for a portion of the existing Irwin-Simpson Road west of Wilkens Blvd. to be abandoned and a cul-de-sac 350 feet west of Wilkens Blvd. to be constructed. The new Irwin-Simpson Road and Wilkens Blvd. intersection will be signalized.

The project is funded by a Deerfield Township Tax Increment Financing District (TIF). The design consultant on the project is American Structurepoint and the construction contract was awarded to Mt. Pleasant Blacktop, Inc. in September 2009.

Construction, having already begun, will continue until completion in June of this year.



Top:  
Original  
Irwin-Simpson Road  
zigzagged through  
two intersections.

Right:  
Rendering of  
proposed  
completion of  
Irwin-Simpson Road  
Realignment

### Crossley Road Bridge #127-0.68



Warren County replaced the Crossley Road Bridge #127-0.68 during the spring of 2009. The bridge is located on Crossley Road over Rapid Run between Red Lion–Five Points Road and Lytle–Five Points Road in Clearcreek Township.

The Warren County Bridge Crew removed the existing concrete bridge and replaced it with a large culvert pipe. The project cost \$50,401.46 using funds from the County Road and Bridge Fund.

### Layman Road Bridge #178-0.21



Rehabilitation of the Layman Road Bridge #99-0.53 over First Creek in Harlan Township was completed in November of 2009. The bridge is located on Layman Road between the Clermont County Line and Jackson–Runyan Road. The project, constructed by the County Bridge Crew, consisted of removing the existing steel beams and wood deck and replacing it with new steel beams and a galvanized metal deck. The project cost \$40,061.73 using funds from the County Road and Bridge Fund.

### Lower Springboro Road Bridge #22-4.31



The Warren County Engineer's Office assisted in City of Springboro lead project to replace the Lower Springboro Road Bridge #22-4.31 during the spring of 2009 as part of a Springboro street improvement project.



The bridge is located on Lower Springboro Road over Pleasant Valley between Myers Creek Lane and Juanita Court in the City of Springboro. The existing pre-stressed concrete box beam bridge was replaced with a precast concrete arch bridge (ConSpan). Stone Excavating completed the bridge replacement for \$200,640.36. The bridge replacement was funded by the Ohio Public Works Commission (OPWC), the City of Springboro, and the County Road and Bridge Fund.

## Markey Road Bridge #99-0.53



The Markey Road Bridge #99-0.53 over Reeders Run in Turtlecreek Township Rehabilitation was completed in August of 2009. The bridge is located on Markey Road between SR 63 and SR 123.

The project consisted of replacing the existing deteriorated pre-stressed concrete box beams. WE Smith Construction was awarded the construction bid and participated in the bridge rehabilitation. The project cost \$154,351.68 using funds from the County Road and Bridge Fund.

## SR 73 and Township Line Road Intersection Improvements



The intersection of SR 73 and Township Line Road was a high severe accident location because of a large dip in the road on SR 73 east of Township Line Road. To correct this, the road profile was raised 11-12 feet filling in the dip.

The complete cost of the project was \$1,005,000 which was funded by an Ohio Public Works Commission (OPWC) Grant totaling \$416,000 and the remaining \$584,000 and right-of-way being funded by the County Road and Bridge Fund.

The design consultant for the project was Greschem-Smith and construction was performed by Diggitt Excavating. The project began in July 2009 and was substantially completed in November 2009.

## 2009 Resurfacing

### PHASE I

Cost - \$699,198.32

Contractor - John R. Jurgensen

Warren County Roads		Franklin Township Roads	
	mileage		mileage
Wilmington Road (CR 7)	3.590	Decker Road (TR 105)	0.302
Oregonia Road (CR 12)	4.682	Decker Road (TR 105)	0.613
Greentree Road (CR 20)	0.406	Decker Road (TR 105)	0.237
Lytle Five Points Road (CR 46)	0.518		<b>1.152</b>
Shaker Road (CR 48)	1.283		
	<b>10.479</b>		

### Wilmington Road Bridge #7-4.65

In May 2008 during the early stages of design, it was determined that the bridge had deteriorated to a point that the WCEO decided to close the Wilmington Road Bridge #7-4.65 to traffic. The bridge, located in Turtlecreek Township between Cold Springs Road and Corwin Road, crosses the National and State Scenic Little Miami River, which meant additional design and construction efforts were required to protect the river and riverbanks during both construction and operation.



The design of the project was completed by Entran, Inc. The project went to bid for construction in the spring of 2009 with it being awarded to DDK Construction, Inc. who completed the bridge rehabilitation for \$710,000.00 in the fall of 2009. The project involved the existing pre-stressed concrete box beams being removed and replaced with new ones that increased the bridge deck width from 20 feet to 24 feet. The new beams had a composite concrete deck poured on top to achieve the extra bridge deck width.



The Wilmington Road Bridge Project received the Donald C. Schramm Transportation Improvement Award from the American Society of Highway Engineers (Triko Valley Section) for a project with a cost of \$2 Million and Under. WCEO is proud of their staff and all involved in the rehabilitation of this bridge.

The project was funded by the County Road and Bridge Fund.

### 2009 Resurfacing, continued

#### PHASE II

Cost - \$555,144.96

Contractor - John R. Jurgensen

Warren County Roads		Hamilton Township Roads	
	mileage		mileage
Butler-Warren Road (CR 2)	1.025	Stephens Road (TR 158)	Full Depth*
Mason-Morrow-Millgrove Road (CR 38)	1.170		
Middleboro Road (CR 45)	0.137	<b>Salem Township Roads</b>	
Dallasburg Road (CR 51)	0.201		mileage
Dallasburg Road (CR 51)	0.357	Halls Creek Road (TR 84)	0.590
Brewer Road (CR 66)	2.130	Anderson Road (TR 90)	0.150
Strout Road (CR 207)	0.102	Gilmour Road (TR 92)	0.883
Natorp Blvd. (CR 295)	Full Depth*	McIntire Road (TR 164)	0.101
Duke Drive (CR 296)	Full Depth*		<b>1.724</b>
Gray Fox Trail (TR 1072)	0.056	<b>Union Township Roads</b>	
	<b>5.178</b>		mileage
		Dry Run Road (TR 81)	0.089

Full Depth\* - Full Depth Pavement Repair

## Permits Summary

The Warren County Engineer's Office issues permits for right-of-way work, permits for over-sized trucks to travel on township and county roads, permits for driveways and road frontage, and issues new addresses.

Before work may be performed in public right-of-way on all township and county roads, a permit must be issued. When a new address is issued, the permits supervisor forwards the new address to the building department (if necessary), emergency services, and the post office.

In a subdivision plat with streets having curb and gutter, addresses are pre-assigned and driveway permits are not necessary.

The following are tables showing the average number of permits issued since 2000 and the summaries of 2007, 2008, and 2009:

### Right of Way

	An Average of 2000-2006	2007	2008	2009
Clearcreek	20.6	31	23	14
Deerfield	56.1	47	43	54
Franklin	13.6	8	21	10
Hamilton	38.9	38	21	33
Harlan	33	24	23	14
Massie	6.9	2	4	5
Salem	11.3	10	17	10
Turtlecreek	31.3	40	31	14
Union	8.7	11	2	2
Washington	19.6	11	11	3
Wayne	20.9	22	6	7
<b>Total</b>	<b>260.7</b>	<b>244</b>	<b>202</b>	<b>166</b>

### Driveway/Address/Piped Frontage

	An Average of 2000-2006	2007	2008	2009
Clearcreek	172.6	95	75	38
Deerfield	17.1	9	11	4
Franklin	37.7	14	5	8
Hamilton	49.6	30	25	17
Harlan	53.1	30	17	16
Massie	9.1	6	4	1
Salem	26.3	21	12	12
Turtlecreek	88.4	59	36	20
Union	15.7	9	6	4
Washington	51	21	11	10
Wayne	45.9	44	32	21
<b>Total</b>	<b>566.6</b>	<b>338</b>	<b>234</b>	<b>151</b>

## WARREN COUNTY HIGHWAY DEPARTMENT



The Highway Department fulfills basic road and bridge maintenance for 276.34 miles of road, 375 bridges, and 1,380 culverts. Included in this are functions such as performing speed studies, installing road signage, detour routing, traffic signals, maintenance mechanics, building and grounds maintenance. One dimension of the department is the Highway Maintenance Facility which has (1) Garage Superintendent and (3) full time Mechanics, (1) Building and Grounds Maintenance personnel, (1) Parts Coordinator, and (1) Highway Clerk. The other dimension of the department is the Highway Maintenance Personnel (Road Crew) which consists of (1) Deputy of Operations, (1) Asst. Deputy of Operations, (3) Foreman, and the road crew employees.



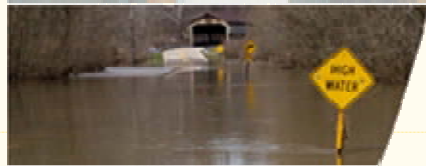
The road crew makes up the majority of the Highway Dept. This group of employees is responsible for the maintenance of the existing county highway system. They are required by law to maintain a CDL operator's license.



Types of duties performed---Tree Trimming, Brush Cutting, Guardrail Work, Ditch Cleaning, Culvert Installation and Replacement, Setting up Work Zones, Roadside Mowing, Shoulder Repair, Bridge Installation and Repair, New Road Construction, and Emergency Situations.



Our employees maybe called upon for emergency situations, storm clean-up, trees down, flooding, and other road hazards. Snow and Ice Control is our most challenging weather event. It is the job of the Highway Department to make travel on our highway system a safe commute, regardless of weather conditions.



### Winter Season Summary

The Highway Department's primary function during winter months is keeping Warren County roadways clear of snow and ice. There were 19 snow occurrences during the 2008-2009 winter season that required 1,679.75 hours of overtime by our road crew and consumed 3,843 tons of salt to clear the roads. The entire season cost the county \$251,653.90.

The 2009-2010 season, up to date, has totaled 23 snow occurrences with salt usage totaling 5,952.2 tons, overtime totaling 2,055.75 hours, costing the county \$527,651.00.



## WARREN COUNTY TAX MAP DEPARTMENT

The following is a summary of activities in the Tax Map Office, located in the Warren County Administration Building.

### Accomplishments

- Captured 60% of the paper tax map data into digital GIS data.
- Completed the index of all tax map department drawings into the OnBase system.

### Developments

- The new Geographic Information Systems online map tool is now live.

### Functions

The function of the tax map department includes making and keeping accurate record of surveys of land and road lines, determining if survey plats and descriptions satisfy the minimum for boundary surveys pursuant to Chapter 4733, making and keeping up indexes of records, approving subdivisions for the office of Recorder, adopting standards of conveyance and ensuring compliance, preparing a report for petitions of annexations, assisting the regional planning commission, reviewing condominium declarations, and making, correcting, and keeping up a complete set of tax maps.

Also, we identify all legal descriptions by parcel number for identification in the Auditor's office and for indexing in the Recorder's office. We assist the public and other government agencies in utilizing the records we keep on file.

### Statistics

Major documents processed:

■ Deeds	7,454
■ Mortgages	14,678
■ Assignments and releases	19,854
Total	41,986

Surveys filed -- 124

Plats filed -- 69

Sheriff's precipe's processed -- 1211

### Plans for 2010

- Complete the capture of the paper tax map data into digital GIS data.
- Repair and archive all of the 1977 tax maps utilizing the scanner.
- Archive all of the current tax maps utilizing the scanner.
- Add the tax map pages to the OnBase system.
- Add the annexation drawings to the OnBase system.



## Phase II

Warren County was identified as a Small Municipal Separate Storm Sewer System (MS4) community by the USEPA in 1999 and was granted a discharge permit in 2004. We are currently operating under the second five year term of the permit (2009-2014). The Warren County Engineer's Office administers the County's MS4 permit under the National Pollutant Discharge Elimination System (NPDES) commonly known as Phase II. The WCEO coordinates this permit for other MS4 entities including the Townships of Clearcreek, Franklin, Hamilton, Turtlecreek, and Union and the Villages of Maineville and South Lebanon. The WCEO's administration includes annual reporting, planning, and meeting the requirements of the permit by collaborating with other local agencies such as the Warren County Combined Health District (WCCHD) and the Warren County Soil and Water Conservation District (WCSWCD).



The WCEO works toward reaching the permit's requirements through mapping storm water infrastructure, ensuring appropriate regulations are in place, detecting illicit discharges, and by advancing Good Housekeeping Practices at public facilities.

The storm sewer system map, near to completion in 2009, will be brought to a point where only new infrastructure is being added by 2011. Over 8,500 home sewage treatment systems have been mapped to date and this map was brought up to date with the WCCHD's data this year.

In addition to continued mapping, the WCEO is set to pass new storm water regulations that include requirements for water quality. The regulations: Warren County Rules and

Regulations for the Design of Storm Sewer and Storm Water Management Systems have been revised from their 2003 version and adoption is anticipated by the Board of County Commissioners this year.

The WCEO, in collaboration with the WCSWCD, also worked toward meeting the permit requirements of Illicit Discharge Detection and Elimination and Good Housekeeping Practices through field work and by developing site specific plans and education to reduce pollution from public facilities. This effort will continue and will be incorporated at applicable facilities throughout the permitted area.

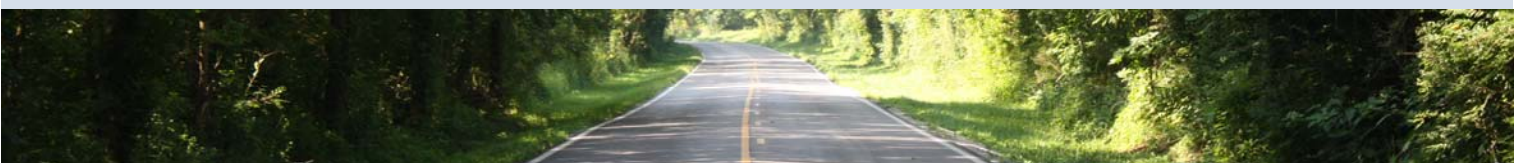
For more information about storm water and how Phase II affects you and our County please contact our office.

## MOVING FORWARD

The Warren County Engineer's Office and its partnering departments (The Warren County Highway Department, The Warren County Tax Map Department, and the Warren County Stormwater District), are currently busy in 2010 fulfilling our duties to the thousands of people who depend on Warren County's transportation, surveying and drainage infrastructure.

Make sure to read next year's annual report which will have information on our first alternative to be completed in our high priority improvements of the I-71, Fields-Ertel Road, Mason-Montgomery Road Interchange. Also set for construction in 2010 are four anticipated road improvements projects and numerous bridge replacements/rehabilitations.

Up-to-date information on our current and future projects can be accessed at <http://www.WCEO.us/>.



## 2009 Administrative Staff

### Engineering Staff

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Please visit the County Engineer's website for updates on projects, road closures, and other helpful information!!

<http://www.WCEO.us/>



Warren County Engineer's Office  
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2009

