

**OFFICE OF  
THE  
LOGAN COUNTY  
ENGINEER**

**ANNUAL REPORT  
2010-2011 ROAD REVIEW**

*April 1, 2011*



*Scott C. Coleman, P.E., P.S.  
Logan County Engineer*



Bridge 173-0.12  
over the Mad River



McColly Covered Bridge 13-1.56  
over the Great Miami River

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<b>EMPLOYEES OF THE LOGAN COUNTY ENGINEER'S OFFICE</b>		
<b>County Engineer</b>		
Scott C. Coleman, P.E., P.S.		
<b>Engineering Department</b>		
Michaela Brunke	Shirley Brunke	Todd Bumgardner
Greg Dappert	Bryan Dhume, P.E.	Curtis D. Dill, P.S.
Dianne Gauder	Harvey Grimes	Sam Ragland
Bob Simmons	Denny Stryker	
<b>Map Room</b>		
Jayma Burkhammer	Jon Hines	Suzie Yoesting
<b>Highway Department</b>		
Matt Archer	John Berry	Jeremy Burrey
Todd Coleman	Brad Jackson	Greg Kennaw
Jason McKee	Dan McMillen	Joel Miracle
John Spencer	Lisa Stover	
<b>Ditch Department</b>		
Butch Banning	Andrew Farris	Mark Hilty
Curtis Hites	Kip Jenkins	Luke Jolliff
Greg Miller	Greg Swonguer	Steve Tracey
<b>Bridge Department</b>		
Elliott Fullerton	Shane Long	Keith Price
<b>Traffic Department</b>		
Mark Dearwester	Don Phipps	
<b>Building Authority</b>		
Becky Jolliff	Mike Reffitt	

April 1, 2011

To the Honorable Board of Logan County Commissioners and the Citizens of Logan County:

The following pages contain our Annual Report for 2010. On the back page, the reader will find a breakdown of the road miles, the number of bridges on our system, and the number of signs and culverts that we maintain. Also included in this report is what we accomplished in the year 2010, and what we plan to accomplish in 2011.

This year we resurfaced 24.4 miles of county highways, sealed 39.3 miles of county highways, replaced/rehabilitated 10 bridges, 1 large box culvert, and 20 culverts. We assisted the Township Trustees with the resurfacing of 21.7 miles of roads with a combination of Ohio Public Works Commission (OPWC) grants, township sales tax and the Townships' own funds. We assisted the villages by obtaining and administering an OPWC grant to resurface 2.9 miles of various village streets.

Salt bids increased from \$45.87/ton in 2007 and \$58.49 in 2008 to \$64.35/ton in 2009 and 2010. Due to this 40% increase in cost over three years, we once again notified the public that overtime snow and ice control as well as total salt usage would be significantly lower than in previous years. Our goal is to be more efficient in how we use utilize our labor and materials in clearing roadways. We have added a salt brine anti-icing pretreatment tank and tailgate mounted brine prewetting system to our fleet to increase our available options for treating roadways and improve efficiency. Heavy snows and drifting in February and extremely cold temperatures with several snow events in December had a big impact on our snow and ice control costs in 2010. Our snow and ice control costs increased 68% compared with the same time period in 2009 and was 50% higher than average winter costs.

Sales tax revenue declined by 1 percent in 2010 and was down 10 percent in 2009. Motor vehicle fuel tax revenue increased 1.48 percent and automobile registration fees increased by 2.5 percent in 2010; these were down 4 percent and 2 percent, respectively, in 2009. The Logan County Engineer's Office has been aggressively seeking grant funds to supplement our regular funding and sales tax funding. The guardrail inventory study and federal aid sign facing upgrade grants totaled \$83,520.50 of grant funding to the Logan County Engineer's Office.

For 2010, we were able to help secure \$970,542 of OPWC grant funding for the 2010 Township and Village paving programs and \$40,544 of OPWC funding for the Harrison TR 200 widening project. Additionally, we were able to assist West Liberty in being approved for the Columbus Street reconstruction, phase 1 project.

The 1/2% sales tax for roads and bridges generated \$2,276,993.83 in 2010. The County Road portion totaled \$1,502,815.94 and the Township portion totaled \$318,779.15. Total sales tax expenditures were \$1,855,835.36 for County projects and \$271,450.66 for Township projects. The County Engineer's Office expended \$7,665.54 in 2010 to develop, administer and perform inspections for the Township paving. We expended an additional \$1,438.46 in 2010 to develop, administer and perform inspections for the Ohio Public Works multi-village paving program for the villages.

Sincerely,

Scott C. Coleman, P.E., P.S.  
Logan County Engineer

## **The Condition of Our Highway System**

**Our crews worked very hard this winter trying to keep the highways clear of snow and ice while experiencing extremely cold temperatures and repeated snow or ice events and flooding. Generally speaking, our roads have definitely shown the impact of this winter season. We have seen a few potholes develop and significant pavement edges breaking up during the winter. We have also experienced some damage from saturated soils and standing water. We have been repairing these as the weather permits. We continue to see new cracking appear in the pavement as the snow has melted and we will address this during our crack sealing program. In order to preserve our new pavements as long as possible, we must seal them as soon as we can after resurfacing. Several transportation agencies have started sealing new asphalt immediately behind the hot-mix paver.**

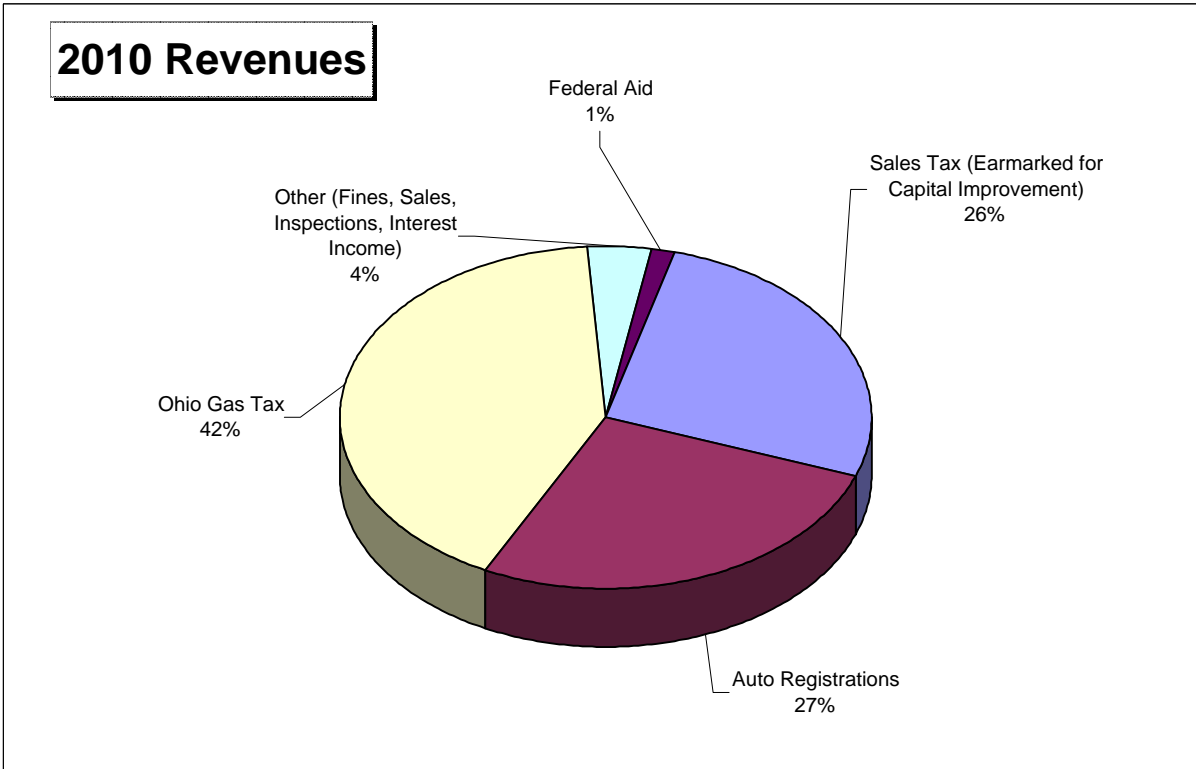
**We will complete 25.6 miles of resurfacing with asphalt concrete and plan to seal about 40.4 miles. We still have a few roads that require a surface course of paving. From 2003 through 2005, we placed only the intermediate course of pavement on many of the roads that were resurfaced. This process allowed us to repair more miles of very poor pavements each year than we could have if we had applied both courses at the same time. Since 2001 (inclusive), we have resurfaced over 341.1 miles of county highways. We will also continue a crack sealing program to extend the service life of the roads in the county.**

**We continue to make strides with our bridge program. With the replacement/rehabilitation of 10 bridges in 2010, we are continuing to upgrade our overall bridge conditions. This year's bridge replacement/repair schedule will upgrade 3 bridges that have weight restrictions affecting school buses. Bridge 105-2.07 was washed out during the February 28 flooding, but the road has been rebuilt and is open to traffic. The asphalt will be placed later this year when the manufacturing plant opens. We are excited to report that 2011 is the third year in a row that we have entered the year with no bridges that are closed to traffic other than bridges under construction. This has been a goal of the Logan County Engineer's Office for many years and we are very proud to have achieved this goal for the benefit of the traveling public.**

**There are 12 bridges with posted load restrictions. Twenty-two bridges are rated a 5 or less and many of the older structures continue to deteriorate as we replace others. Since 2001 (inclusive), we have replaced or performed extensive rehabilitation on 84 structures. Bridge material costs have increased significantly over the last several years. In 2001, we were estimating replacement costs at \$48.00 per square foot of deck area, now we must use at least \$118 per square foot for estimating our bridge program.**

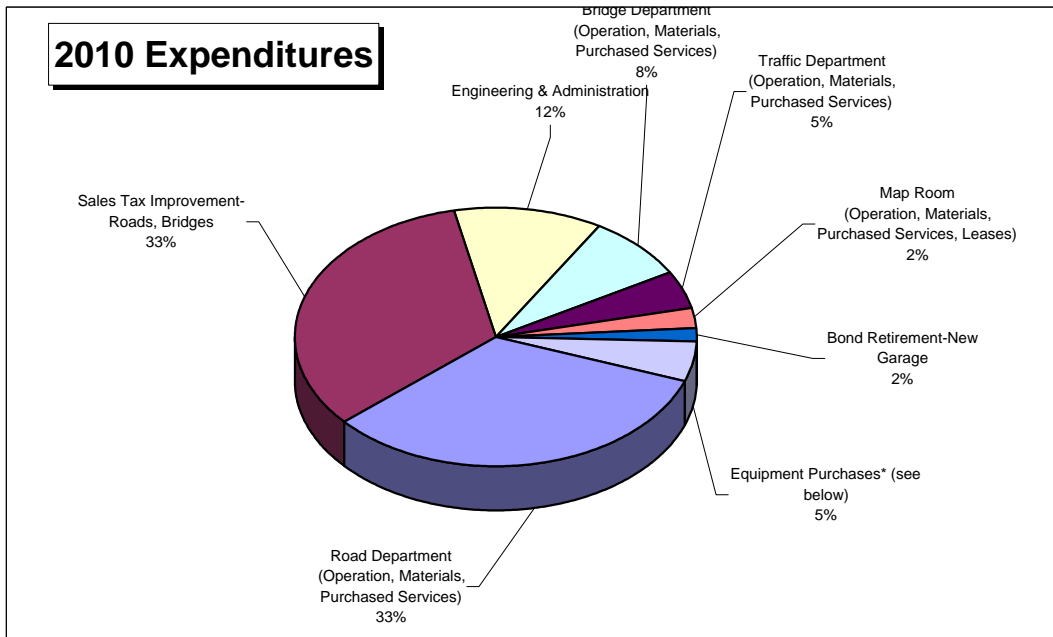
**Since the force account limits for projects that we can construct with our own staff were increased in 2003, construction materials have increased by more than 71 percent. We must encourage the state legislature to increase the force account limits for roads and bridges so that we can continue to save the taxpayers' money by constructing road and bridge projects with our own crews. The current force account limits are \$100,000 per bridge and \$30,000 per mile for road construction. Considering the increased construction costs and the fact that there is some debate over the interpretation of the force account legislation, these limits need to be increased to \$292,000 and \$88,000, respectively, with an annual inflation factor.**

2010 Revenues		
Sales Tax (Earmarked for Capital Improvement)	26%	\$ 1,502,815.94
Auto Registrations	27%	\$ 1,552,946.84
Ohio Gas Tax	41%	\$ 2,366,744.74
Other (Fines, Sales, Inspections, Interest Income)	4%	\$ 217,208.99
Federal Aid	1%	\$ 83,520.50
Weaver Bros., Inc. - Voluntary Contribution	0%	\$ 5,000.00
Belle Center Amish Church Community - Voluntary Contribution	0%	\$ 4,465.00
<b>Total</b>		<b>\$ 5,732,702.01</b>



2010 Sales Tax	
County Carryover from 2009	\$ 2,111,183.19
Township Carryover from 2009 (Reimbursement from Shelly Co.)	\$ 225,772.36
<b>Income - County 2010</b>	<b>\$ 1,502,815.94</b>
<b>Income - Township 2010</b>	<b>\$ 318,779.15</b>
<b>Expenditures</b>	
Township Sales Tax Resurfacing Program	\$ 271,450.66
County Sales Tax Resurfacing Program (including culverts)	
Bridge 26-2.68 Replacement	
Bridge 4-2.15 Replacement	\$ 1,855,835.36
<b>2010 County Carryover</b>	<b>\$ 1,758,163.77</b>
<b>2010 Township Carryover</b>	<b>\$ 273,100.85</b>
<b>Total Carryover</b>	<b>\$ 2,031,264.62</b>

2010 Expenditures		
Road Department (Operation, Materials, Purchased Services)	33%	\$2,114,851.77
Sales Tax Improvement-Roads, Bridges	33%	\$ 2,127,286.02
Engineering & Administration	12%	\$765,655.45
Bridge Department (Operation, Materials, Purchased Services)	8%	\$515,300.26
Traffic Department (Operation, Materials, Purchased Services)	5%	\$ 296,958.37
Map Room (Operation, Materials, Purchased Services, Leases)	2%	\$154,872.91
Bond Retirement-New Garage	2%	\$ 113,806.68
Equipment Purchases* (see below)	5%	\$ 315,587.67
<b>Total</b>		<b>\$ 6,404,319.13</b>



*Major Equipment Purchased in 2010	
ProMark Survey Equipment	\$ 11,000.00
Projector	\$ 361.97
Used Chip Spreader	\$ 22,000.00
Chain Saws (2)	\$ 490.00
Used MoTrim Mower	\$ 3,000.00
Gas Boy Software	\$ 1,547.00
International Trucks, SS Beds, Hydraulics & Plow Frames (2)	\$ 273,033.18
Used Pre-wet De-icing System	\$ 1,249.53
Wire Feed Alum. Stick Welder	\$ 889.99
Brine Pretreatment Tank with Frame	\$ 3,083.84
Chipping Hammer 15.4 lbs.	\$ 583.20
Used Case Backhoe	\$ 32,565.18
Canvas Tarps for Welder and Crane	\$ 200.00
Niagra Falls Sander	\$ 2,368.00
<b>Total</b>	<b>\$ 352,371.89</b>

### 2010 ROAD PROGRAM

The Highway Department is responsible for all Force Account projects (non-contract work performed by County Engineer employees), snow and ice control, berm repair, pavement patching, washouts, guardrail repair, mowing, and other general/seasonal maintenance of county roads and bridges. This department also works closely with the townships on various maintenance needs on their own road systems. The Highway Department was extremely busy in 2010, working ahead for the 2011 road program and hauling dirt for several shoulder improvement locations, in addition to their normal maintenance duties. The costs listed include labor (based on hourly wages of workers and all benefits), amortized equipment, and materials (asphalt and berming stone).

Review of Miscellaneous 2010 Expenses				
	Labor	Amortized Equipment	Materials and Contractor Work	Total
Mowing	\$ 59,864.75	\$ 67,833.75	\$ -	\$ 127,698.50
Roadside Spraying	\$ 3,807.08	\$ 1,328.55	\$ 8,695.37	\$ 13,831.00
Hand Patching	\$ 2,274.81	\$ 672.20	\$ 836.42	\$ 3,783.43
Durapatching	\$ 8,573.01	\$ 7,160.00	\$ 10,187.49	\$ 25,920.50
Crack Sealing	\$ 18,139.62	\$ 778.00	\$ 12,906.85	\$ 31,824.47
Tree & Brush Removal	\$ 63,622.83	\$ 39,558.58	-	\$ 103,181.41
Culvert Repair & Replacement (not related to resurfacing)	\$ 9,488.49	\$ 7,119.48	\$ 4,845.24	\$ 21,453.21
Sign Repair	\$ 13,510.16	\$ 2,346.55	\$ 11,313.12	\$ 27,169.83
Sign Repair (Vandalism)	\$ 319.46	\$ 76.55	\$ 337.59	\$ 733.60
Sign Replacement	\$ 8,866.05	\$ 1,047.55	\$ 24,018.13	\$ 33,931.73
Snow and Ice Control	\$ 171,303.76	\$ 175,893.91	\$ 187,571.06	\$ 534,768.73

2010 County Paving Program Completed			
ROAD #	Begins	Ends	Total Cost
29	CR 1	CR 5	\$ 189,042.02
30	CR 31 South	CR 31 North	\$ 18,214.70
31	Log/Champ Line	CR 11	\$ 395,005.30
57	US 33	CR 9	\$ 292,179.58
62	County Line	SR 508	\$ 126,974.10
18	SR 508	TR 45 West	\$ 158,888.90
202	TR 263	SR 508	\$ 89,452.30
117	SR 292	Union Co. Line	\$ 186,316.80
121	SR 292	Union Co. Line	\$ 211,741.13
271	Dead End	CR 296 LT	\$ 5,796.70
296	SR 292	SR 271	\$ 84,717.93
<b>Grand Total</b>			<b>\$ 1,758,329.46</b>

2010 County Chip and Seal Program Completed						
Road	Begins	Ends	Labor	Equipment	Materials	Total
26	SR 292	CR 120 North				
26	CR 120 North	Penn Central RR	\$ 1,359.06	\$ 1,337.90	\$ 10,734.25	\$ 13,431.21
26	Penn Central RR	CR 142				
142	N. Corp. line W. Mansfield	TR 123 East				
142	TR 123 East	CR 124 Northeast	\$ 1,059.53	\$ 1,110.80	\$ 6,941.35	\$ 9,111.68
142	CR 124 Northeast	CR 26				
43	CR 11	TR 33 Pleasant & Union Line				
43	TR 33 Pleasant & Union Line	CR 31				
43	CR 31	TR 46 North				
43	TR 46 North	TR 201 North	\$ 7,850.04	\$ 5,591.30	\$ 57,215.06	\$ 70,656.40
43	TR 201 North	TR 201 South				
43	TR 201 South	TR 198				
43	TR 198	CR 18				
25	SR 47 (Resume)	TR 136 East				
25	TR 136 East	TR 57 West	\$ 2,319.28	\$ 2,101.75	\$ 21,690.64	\$ 26,111.67
25	TR 57 West	CR 9				
11	TR 43 West	TR 208 West				
11	TR 208 West	TR 209 West				
11	TR 209 West	TR 33 S. Ple. & Har. Line	\$ 1,974.48	\$ 1,752.70	\$ 18,539.40	\$ 22,266.58
11	TR 33 S. Ple. & Har. Line	TR 33 North				
11	TR 33 North	CR 31 S. & TR 31 N.				
3	CR 4 Shelby Co. Line	End of Logan Co. Maint.	\$ 1,014.00	\$ 784.75	\$ 5,245.87	\$ 7,044.62
4	RR Crossing	CR 70				
4	CR 70	Shelby Co. Road	\$ 1,202.30	\$ 837.25	\$ 14,622.80	\$ 16,662.35
4	Shelby Co. Road	Center Miami River				
37	CR 61 Lewistown	TR 95				
37	TR 95	TR 31				
37	TR 31	TR 99				
37	TR 99	TR 56	\$ 3,901.46	\$ 3,183.95	\$ 45,349.12	\$ 52,434.53
37	TR 56	CR 130				
37	CR 130	US 33				
37	US 33	CR 39				
64	Champaign Co. Line	TR 295				
64	TR 295	TR 71	\$ 2,091.93	\$ 1,731.25	\$ 21,382.93	\$ 25,206.11
64	TR 71	CR 63				
54	SR 235	TR 215 South				
54	TR 215 South	TR 213 South	\$ 1,795.78	\$ 1,482.80	\$ 17,467.73	\$ 20,746.31
54	TR 213 South	CR 91				
54	CR 91	CR 61 & CR 37 Lewistown				
61	CR 37 & CR 54 Lewistown	SR 274	\$ 1,457.99	\$ 1,195.55	\$ 11,636.41	\$ 14,289.95
270	Lakeview NCL	TR 87	\$ 1,008.98	\$ 891.55	\$ 10,192.59	\$ 12,093.12
270	TR 87	US 33				
11	TR 32	Bellef. Corp. Line Change				
11	Bellef. Corp. Line Change (City)	TR 216 Har. & Lake Line (City)	\$ 1,974.48	\$ 1,752.70	\$ 18,539.41	\$ 22,266.59
11	TR 216 Har. & Lake Line (City)	CR 18 South (City)				
11	CR 18 South (City)	Penn Central RR (City)				
32	CR 11	North Line Penn Central RR				
32	North Line Penn Central RR (City)	SR 47 (City)				
32	SR 47 (City)	Corp. Line Change (City)	\$ 3,963.55	\$ 3,642.40	\$ 32,123.69	\$ 39,729.64
32	Corp. Line Change	Bridge 32-7.60				
32	Bridge 32-7.60	CR 13				
32	CR 13	CR 130				
130	Bellef. Corp. Line S. (City)	Corp. Line Change (City)				
130	Corp. Line Change (City)	Bellef. Corp. Line North				
130	Bellef. Corp. Line North	CR 13 Left				
130	CR 13 Left	CR 32 Left				
130	CR 32 Left	TR 218 Right				
130	TR 218 Right	CR 91 Left	\$ 5,704.16	\$ 4,878.70	\$ 65,439.41	\$ 76,022.27
130	CR 91 Left	Super Foods Drive				
130	Super Foods Drive	CR 57 Right				
130	CR 57 Right	CR 39 Right				
130	CR 39 Right	TR 56				
130	TR 56	CR 37				
130	CR 37	US 33 Ramp End				
144	CR 144A	CR 152	\$ 3,423.44	\$ 2,966.70	\$ 31,439.32	\$ 37,829.46
144	CR 152	SR 287				
144A	CR 144	US 33 & SR 347	\$ 362.05	\$ 360.50	\$ 2,640.23	\$ 3,362.78
39	CR 130	Dead End	\$ 568.96	\$ 550.00	\$ 4,151.04	\$ 5,270.00
<b>Total Chip &amp; Seal Program</b>						<b>\$ 474,535.27</b>



### 2011 ROAD PROGRAM

We have reviewed each road on the program for needed culvert replacements, bridge replacements and/or repairs, drainage problems, etc. As of March 1, 2011, the proposed resurfacing and chip-seal programs for the County are as follows:

2011 Proposed County Resurfacing Program					
Road #	Begins	Ends	Road #	Begins	Ends
187	TR 7	SR 508	35	CR 59	SR 274
254	CR 98/TR 98	CR 38/TR 38	14	CR 189	SR 508
54	SR 720	CR 60 SW	38	SR 366	CR 96
2	CR 5	Union C/L	189	West Liberty N C/L	SR 68
98	CR 38	CR 254 /TR 98	173	CR 5	CR 47

Note: Some sections of roads may be non-performed in order to stay within budget.

2011 PROPOSED COUNTY CHIP SEAL PROGRAM					
Road #	Begins	Ends	Road #	Begins	Ends
139	Logan-Union Co. Line	Logan-Hardin Co. Line	10	CR 154	CR 142 South
101	CR 49	TR 109	10	CR 142 South	TR 143
101	TR 109	SR 638	10	TR 143	Logan-Union Co. Line
101	SR 638 Northwood	CR 111 & 113 Northwood	106	SR 638	CR 105 West
101	CR 111 & 113 Northwood	TR 107	106	CR 105 West	SR 638
101	TR 107	CR 51	142	CR 10	TR 141 West
40	SR 274	TR 114 North	142	TR 141 West	CR 2
40	TR 114 North	TR 115	142	CR 2	TR 133 West
40	TR 115	SR 292	142	TR 133 West	South Corp. Line W. Mansfield
103	CR 102	US 68	142	CR 26	CR 20
39	CR 130	TR 56	142	CR 20	CR 48
39	TR 56	Dead End	142	CR 48	CR 117
39	TR 56 Pvt. Change	CR 37	144	CR 153	TR 148 East
39	CR 37	SR 274	144	TR 148 East	CR 144A
39	SR 274 Cherokee	CR 222 West	27	SR 235	TR 207
39	CR 222 West	TR 108 East	27	TR 207	SR 235
39	TR 108 East	TR 100 McArthur & Richland	27	SR 235	TR 207
48	SR 292	CR 120 South	27	TR 207	SR 235
48	CR 120 South	CR 142	77	CR 34	TR 35
51	CR 101 Southwest	US 68	77	TR 35	CR 21
104	SR 273	Hardin Co. Line	17	CR 23	SR 720 (Sante Fe)
112	CR 113	CR 111 West / TR 111 East	17	SR 720 (Sante Fe)	CR 87 East
152	CR 153 Middleburg	TR 227 East	17	CR 87 East	Auglaize Co. Idle Road
152	TR 277 East	CR 144	23	SR 274 resume	TR 225
271	Dead End	CR 296 LT	23	TR 225 West	CR 52
291	Valley Hi Corp. Line	CR 28	23	CR 52	CR 17 Logan-Auglaize Co. Line

Note: Some sections of roads may be non-performed in order to stay within budget.

### **2010 BRIDGE PROGRAM**

Our Bridge Crew had another good year. In addition to repairing and replacing bridges and culverts, they worked on snow and ice control. This means the Bridge Crew must be able to proficiently switch from a bridge project to snow and ice control and back again.

In 2010, the Bridge Crew replaced or rehabilitated 10 structures.

County Road 142-0.88 (Perry Twp.) Bridge Replacement  
Township Road 216-1.16 (Joint project with City of Bellefontaine) Bridge Replacement  
County Road 26-2.68 (Rushcreek Twp.) Bridge Replacement  
County Road 64-0.00 (Miami Twp., Joint project with Champaign Co.) Fascia Beam Replacement  
County Road 88-0.19 (Stokes Twp.) Deck Replacement  
County Road 13-1.56 (Washington & Bloomfield Twps.) Floor Beam Hanger Replacement  
County Road 38-0.29 (Richland Twp.) Floor Beam Hanger Replacement  
County Road 39-6.80 (Richland Twp.) Beam Repair  
County Road 97-0.76 (Richland Twp.) Repair and Paint Beams, Replace Deck  
County Road 58-1.61 (Bloomfield Twp.) Abutment Repair

### **2011 BRIDGE PROGRAM**

In the 2001 renewal of the sales tax for roads and bridges, the priority was based on condition. Therefore, the 2011 Bridge Program continues the commitment of prioritizing bridge replacements based on condition. The County infrastructure will be re-evaluated periodically and changes to this program are likely to occur in order to achieve our commitment to repair or replace the structures and highways in the worst condition first.

As of March 1, 2011, the proposed Bridge Program is as follows:

County Road 4-2.15 (Miami Twp.) Bridge Rehabilitation  
County Road 105-0.24 (Richland Twp.) Bridge Replacement  
County Road 142-1.79 (Perry Twp.) Abutment Repair  
County Road 139-0.06 (Bokescreek Twp.) Bridge Replacement  
Township Road 56-0.68 (Harrison Twp.) Deck Repair  
Township Road 213-0.66 (Washington Twp.) Add Beams for Bus Loading  
County Road 142-5.75 (Bokescreek Twp.) Bridge Replacement  
County Road 44-0.22 (Zane Twp.) New Abutment East End  
Township Road 80-1.46 (Bloomfield Twp.) Bridge Replacement  
County Road 10-5.06 (Jefferson Twp.) Deck Repair  
County Road 29-2.97 (Monroe Twp.) Deck Repair  
County Road 29-0.72 (Jefferson Twp.) Bridge Replacement  
County Road 105-0.80 (Richland Twp.) Box Culvert

### **ADMINISTRATIVE STAFF SUPPORT**

This department manages the overall office functions and budget of the Engineer's Office. Since the cost for construction, materials, and equipment are increasing faster than local revenues, the utilization of alternate funding sources is critical to the office. As such, the department administers the Ohio Public Works Commission's State Capital Improvement Program (SCIP) and the Local Transportation Improvement Program (LTIP) for Logan County. The allocation and accounting of these annual funding sources are a significant function of the Engineer's office.

Other responsibilities of the administrative and support staff are human resources, payroll, purchasing requisitions, billing, word processing, contract administration and cost-tracking. Utilizing our cost-tracking system, all of the costs for the Engineer's Office are logged including the costs for surveying, engineering, administration, road work and construction of bridges. Equipment costs are amortized, while the labor costs include all fringes and benefits. In addition to all of the aforementioned accounting functions, this department also handles daily calls from the public and addresses the questions/problems directly or forwards them to the appropriate person.

### **DESIGN/ENGINEERING**

This department performs the engineering design for approximately 95% of the construction projects and directs specialized consultants for the engineering design of the remaining projects. Most of the staff design is done with a Computer Aided Design and Drafting (CADD) system. This department also oversees much of the administrative responsibilities.

### **TRAFFIC DEPARTMENT**

The Traffic Department is responsible for the maintenance of all road signs on county roads and bridge signs on township roads. Road signs now number 6,585. The maintenance of these signs includes installation, preservation and inspection. As part of the inspection process, we look for reflectivity, wind damage, vandalism and overall visibility. Repairing mailboxes damaged during snow removal operations is another part of the Traffic Department's responsibilities along with signing for road closure detours. The Routemarkers main duty is to keep traffic moving safely and to keep the traveling public informed.

### **COURTHOUSE DUTIES**

By law, the County Engineer is the official plat draftsman for the County Auditor. In addition to maintaining maps of all properties by lot, parcel and acreage, the Map Room assigns new house numbers, serves attorneys, surveyors, appraisers, realtors, and private individuals in checking deed descriptions and reviews new surveys for accuracy and compliance. Also, the office periodically updates the digitized tax maps to reflect all new property splits.

In 2010, the Map Room staff checked legal descriptions on 2,215 real estate documents. Two hundred-fifty of these recorded documents were Affidavits. There were 71 Certificates of Transfer, 1,776 deeds, 52 easements and 66 land contracts. Additionally, six condominium plats and declarations were approved and recorded along with one highway plat. New property splits totaled 137 for the year, with 108 documents being new surveys. Surveyors submitted 293 new legal descriptions which were reviewed, approved, scanned and filed by Map Room personnel. In addition, 37 new house numbers were established in 2010.

The County Engineer's Office has created a place on its web site ([www.co.logan.oh.us/engineer/index.htm](http://www.co.logan.oh.us/engineer/index.htm)) in which maps and surveys can be viewed. To aid in this effort, the Map Room has scanned well over 25,000 documents for use on this site, and more scanning is required to complete this task.

## BUILDING AUTHORITY

This year we had an increase in revenue as the total number of permits rose. New homes increased while Manufactured homes decreased. This is cause for a slight decline in total new homes for 2010. The department budget remained the same as 2009 as did our hours of operation. This will be the same for 2011. The forecast for 2011 new building is "slightly rising over 2010" as the year carries out.

The Ohio Manufactured Homes Commission (OMHC) lobbied the State Legislature for the allowance of 3rd party inspection agencies to issue permits, collect fees and do required inspections on manufactured homes throughout Ohio. This is to be an option to any local department issuing the permit. There was only one known set with approval from a 3rd party agency.

The 2011 National Electric Code will not be adopted until at least September. There is still debate on the new Residential Code that stems from energy conservation and sprinkler systems or alternate construction in new homes. The County has adopted new Floodplain Regulations for 2011 which will come into effect March 13, 2011.

<b>Revenue</b>			
	<b>2010</b>	<b>2009</b>	<b>% of Change</b>
Permit Revenue	\$ 113,025.00	\$ 93,575.00	20.8%
Contractor Registrations	\$ 14,150.00	\$ 16,300.00	-13.2%
Reinspect Fees	\$ 450.00	\$ 1,050.00	-57.1%
Application Fees	\$ 11,400.00	\$ 9,900.00	15.2%
Additional Permit Fees	\$ 2,100.00	\$ 3,600.00	-41.7%
OMHC Seals (new)	\$ -	\$ 1,275.00	-100.0%
State Administrative Fee 1%	\$ 1,269.75	\$ 1,081.25	17.4%
<b>Total Revenue</b>	<b>\$ 142,394.75</b>	<b>\$ 126,781.25</b>	<b>12.3%</b>

<b>Expenditures</b>			
	<b>2010</b>	<b>2009</b>	<b>% of Change</b>
Total Salaries	\$ 79,164.20	\$ 78,086.81	1.4%
PERS, W/C & Medicare	\$ 13,072.47	\$ 13,609.43	-3.9%
Supplies	\$ 1,038.21	\$ 846.26	22.7%
Contract Services	\$ 8,969.42	\$ 7,537.53	19.0%
Contract Repair	\$ 3,272.64	\$ 1,541.36	112.3%
Equipment Lease	\$ 3,154.96	\$ 3,094.96	1.9%
Continuing Education	\$ 1,029.28	\$ 930.04	10.7%
Other Expenses	\$ 167.50	\$ 167.00	0.3%
OMHC	\$ -	\$ 1,875.00	-100.0%
State Administrative Fee 1%	\$ 1,269.75	\$ 1,081.25	17.4%
<b>Total Expenditures</b>	<b>\$ 111,138.43</b>	<b>\$ 108,769.64</b>	<b>2.2%</b>

<b>Permits Issued</b>			
	<b>2010</b>	<b>2009</b>	<b>% of Change</b>
Total of New Homes	50	45	11.1%
Total of New Mfg. Homes	9	17	-47.1%
Total of "Other" Permits	384	333	15.3%
Total All New Dwellings	59	62	-4.8%
Total Flood Plain Permits	5	4	25.0%
<b>Total of All Permits</b>	<b>443</b>	<b>395</b>	<b>12.2%</b>

<b>Inspections</b>			
	<b>2010</b>	<b>2009</b>	<b>% of Change</b>
Building/Structural	845	685	23.4%
Electrical Inspections	553	530	4.3%
HVAC Inspections	185	143	29.4%
Special Inspections	0	0	100.0%
<b>Total Inspections*</b>	<b>1,583</b>	<b>1,358</b>	<b>16.6%</b>

\* Includes Re-inspections

<b>Home Valuation</b>			
	<b>2010</b>	<b>2009</b>	<b>% of Change</b>
New Home Valuation	\$ 13,055,156	\$ 10,893,936	19.8%
Total for New Homes (stick/I.U's)	\$ 8,560,990	\$ 6,897,163	24.1%
Total for all Mfg. Homes	\$ 367,748	\$ 758,240	-51.5%
Total for all "Other" Permits	\$ 4,126,418	\$ 3,238,533	27.4%
Avg. Valuation Per Home	\$ 171,220	\$ 155,628	10.0%

<b>Averages</b>			
	<b>2010</b>	<b>2009</b>	<b>% of Change</b>
Total Inspection Stops	1,097	972	12.9%
Avg Inspections Per Stop	1.4	1.4	0.0%
Avg Expenditure Per Stop	\$ 101.00	\$ 111.90	-9.7%
Avg Revenue Per Permit	\$ 321.00	\$ 320.96	0.0%
Avg Expenditure Per Permit	\$ 251.00	\$ 275.37	-8.8%
Avg Expenditure Per Inspection	\$ 70.00	\$ 80.10	-12.6%

### **MOTOR VEHICLE REGISTRATIONS**

Vehicle registration fees are a significant source of revenue for the Engineer's Office.

<b>2010 Logan County, Ohio Motor Vehicles Registrations</b>		<b>2009</b>	<b>2008</b>
Type of Registration	# of Units	# of Units	# of Units
Passenger Cars	34,061	33,193	33,988
Motor Homes	380	386	369
Motorcycles	2,598	2,592	2,738
House Vehicles	859	787	773
Mopeds	17	31	35
Non-Commercial Trailers	5,105	5,084	5,002
Non-Commercial Trucks	10,982	10,963	11,008
Farm Truck	366	341	314
Buses	64	52	61
Commercial Trailers	1,789	1,744	1,631
Non IRP Trucks (Intl. Reg. Plan)	2,050	2,104	1,954
IRP Trucks (Intl. Reg. Plan)	142	134	132
<b>Total Vehicle Registrations in 2010</b>	<b>58,413</b>	<b>57,411</b>	<b>58,005</b>

SOURCE: State of Ohio, Bureau of Motor Vehicles

**The Office of the Logan County Engineer**

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**EXECUTIVE SUMMARY**

**371.22 Miles of County Road**

As of 12/31/10

**299 Bridges**

12 Have Load Reductions Posted

8 Have a Sufficiency Rating Less Than 50%

**6,585 Signs**

**1,581 Culverts**

Excellent/Good Condition - 1,410

Fair/Poor/Unknown Condition - 171