

**OFFICE OF
THE
LOGAN COUNTY
ENGINEER**

**ANNUAL REPORT
2009-2010 ROAD REVIEW**

April 1, 2010



*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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EMPLOYEES OF THE LOGAN COUNTY ENGINEER'S OFFICE		
County Engineer		
Scott C. Coleman, P.E., P.S.		
Engineering Department		
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	
Map Room		
Jayma Burkhammer	Jon Hines	Suzie Yoesting
Highway Department		
Matt Archer	Larry Artis	John Berry
Jeremy Burrey	Todd Coleman	Greg Kennaw
Jim Logan	Jason McKee	Dan McMillen
Joel Miracle	John Spencer	Lisa Stover
Steve Tracey		
Ditch Department		
Butch Banning	Andrew Farris	Mark Hilty
Curtis Hites	Kip Jenkins	Luke Jolliff
Greg Swonguer		
Bridge Department		
Rick Archer	M. Elliott Fullerton	Shane Long
Keith Price		
Traffic Department		
Mark Dearwester	Don Phipps	
Building Authority		
Becky Jolliff	Mike Reffitt	

April 1, 2010

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

The following pages contain our Annual Report for 2009. 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 2009, and what we plan to accomplish in 2010.

This year we resurfaced 50.5 miles of county highways, sealed 39.7 miles of county highways, replaced/rehabilitated 9 bridges, two large box culverts, and 21 culverts. We assisted the Township Trustees with the resurfacing of 11.4 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 an OPWC grant to resurface 1.7 miles of various village streets.

Salt bids increased from \$45.87/ton in 2007 and \$58.49/ton in 2008 to \$64.35/ton in 2009. Due to this 40 percent increase in cost over two 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. Thanks to relatively mild winter conditions at the start and end of 2009, we were able to reduce our snow and ice control costs by 22 percent compared with the same time period in 2008.

Sales tax revenue was down 10 percent in 2009. Motor vehicle fuel tax revenue was down 4 percent and automobile registration fees were down 2 percent in 2009. Therefore, the Logan County Engineer's Office has been aggressively seeking grant funds to supplement our regular funding and sales tax funding. The James K. Cox Bridge, bridge 63-2.63, 2009 pavement marking program, 2009 federal aid and OPWC paving, 2009 guardrail replacement, township and village OPWC paving, and 3M sign facing grants totaled \$4,029,975.51 of grant funding to the Logan County Engineer's Office in 2009.

For 2010, we were able to help secure \$88,211 of grant funding for the Pleasant Township Road 33 railroad safety approach, \$40,544 of grant funding for the Harrison Township Road 200 widening project, and \$45,164 of grant funding for the village of DeGraff Main Street traffic signal replacement. We were also able to assist in submitting an application to the State for \$300,000 of grant funding for the village of West Liberty Columbus Street Reconstruction.

Unfortunately, the \$51,000,000.00 of grant applications for resurfacing county, township, and municipal roads through the American Recovery and Reinvestment Act were not funded.

The one-half percent sales tax for roads and bridges generated \$2,303,728.02 in 2009. The county road portion totaled \$1,520,460.51 and the township portion totaled \$322,521.94. Total sales tax expenditures were \$1,203,621.29 for county projects and \$407,426.14 for township projects. The County Engineer's Office expended \$4,591.53 in 2009 to develop, administer and perform inspections for the township paving. We expended an additional \$3,172.05 in 2009 to develop, administer and perform inspections for the Ohio Public Works multi-village paving program for the villages.

Beginning in 2005, the Logan County Engineer's Office began relinquishing a portion of our general revenue funding in order to help the county general fund departments continue to operate during these tight financial times. The general revenue funds that the County Commissioners provide to this office have been dedicated to bridge replacements and paying the debt for the highway garage that was built in 1994. Since 2005, the Logan County Engineer's Office has surrendered \$661,443.07 for the benefit of the general fund departments of the County. The staff of the Logan County Engineer's Office has worked extremely hard over the past several years to build an appropriate and comfortable carry over cash balance from year to year. These funds are very important in order to allow us the ability to pay for large construction projects and to plan for future construction projects. In many cases, as was true with the two County Road 63 bridge projects, it may take us several years to save the needed local match for these major projects. We have been approved for federal funding to rehabilitate Bridge 21-1.00 with an estimated construction cost of \$2,423,600 in fiscal year 2015. We must save \$533,200 for the local match and we also need to pay for the design fees which could reach \$250,000. Without strict financial control, we would not have been able to build up our carry over cash balance, which in turn saves the taxpayers money by utilizing our local funds along with federal and state grants to build major capital improvements.

We also have worked since the inception of the one-half percent sales tax for roads and bridges to build an adequate carry over balance to pay for the annual resurfacing contract and to complete a wrap-up resurfacing program the year following the expiration of the funding. That being said, we have completed a tentative resurfacing plan for 2011 through 2015, which will require all of the funding anticipated from the current term of the sales tax. These plans are posted on our website <http://www.co.logan.oh.us/engineer/index.html>.

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, especially during February when we received record snowfalls and high winds. Generally speaking, our roads have weathered the winter with minor deterioration. We have seen a few potholes develop and pavement edges breaking up during the winter and we have been repairing those as the weather permitted. We have also seen 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 after the hot-mix paver has left the jobsite.

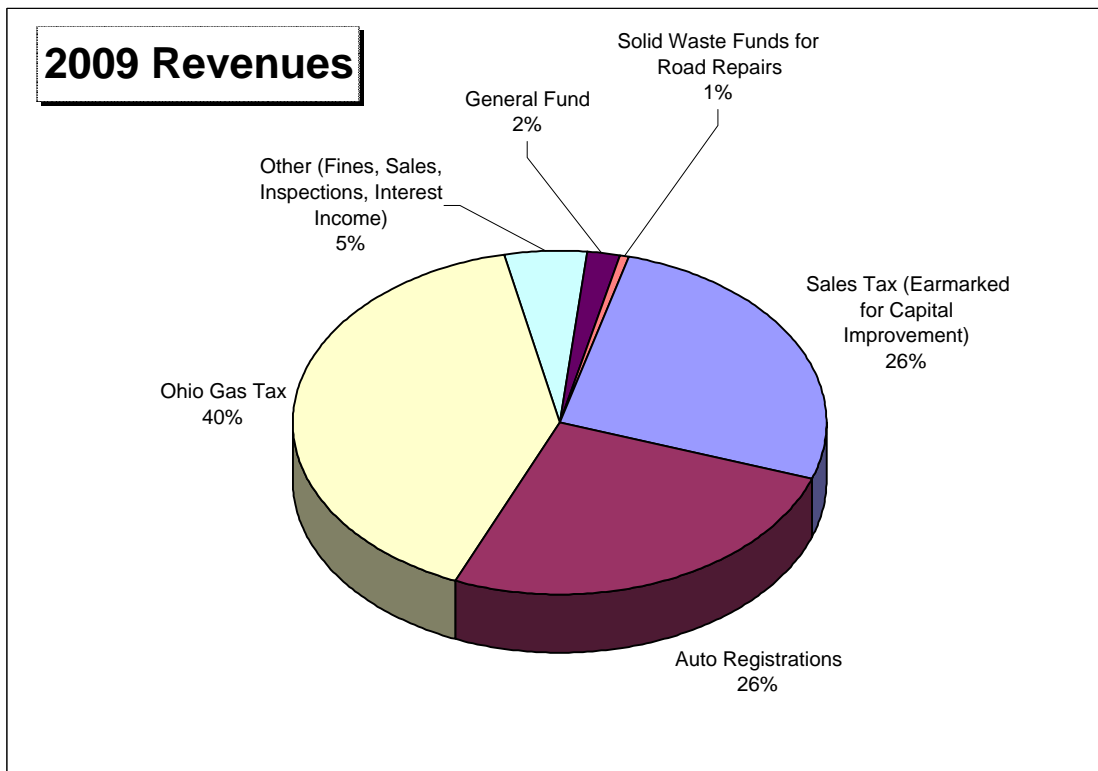
We will complete 22.5 miles of resurfacing with asphalt concrete and plan to seal about 40.3 miles. We still have several miles of roads that require a surface course of paving. From 2003 through 2005, we placed only the intermediate course of pavement on many of the roads that were resurfaced. This 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 316.7 miles of county highways. We will also continue a crack sealing program to extend the service life of the roads in the county.

We are continuing to make strides with our bridge program. With the replacement/rehabilitation of 9 bridges in 2009, we are continuing to upgrade our overall bridge conditions. This year's bridge replacement/repair schedule will upgrade 3 bridges that school buses are currently unable to cross due to weight restrictions. We are excited to report that 2010 is the second 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 objective for the benefit of the traveling public.

There are 20 bridges with posted load restrictions. Twenty-eight 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 74 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 and now we must use at least \$118.00 per square foot for estimating our bridge program.

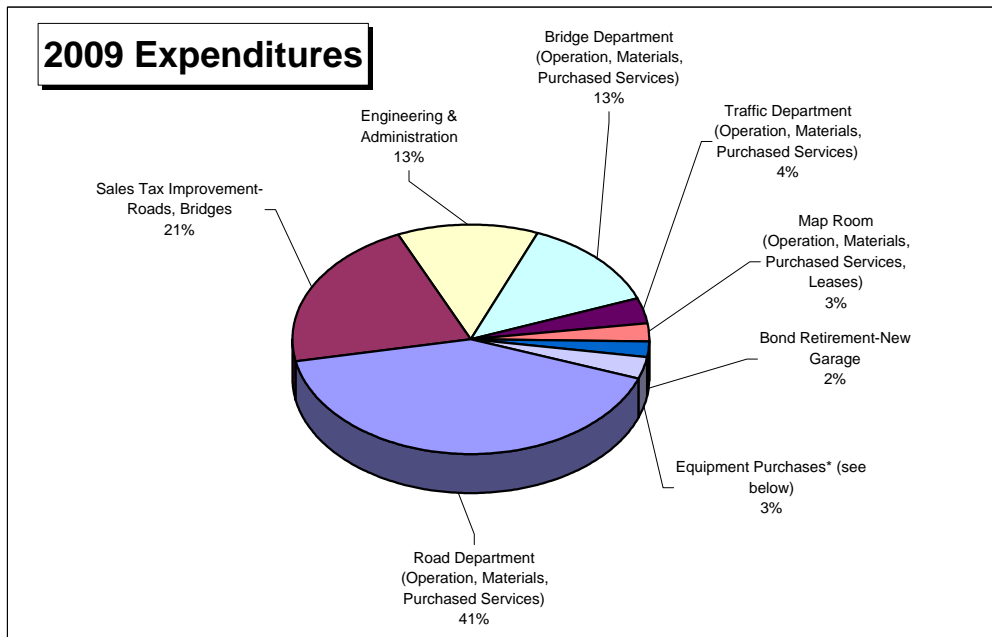
Since the force account limits for projects that we can construct with our own staff were increased in 2003, construction materials have increased by more than 71 percent. We must encourage the state legislature to increase the force account limits for roads and bridges so that we can continue to save 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. I have been working with the County Engineers Association of Ohio to revise the force account legislation for several years and will continue to do so. State Senator Karen Gillmor and State Representative David Burke have both been very supportive of legislation to adjust the force account limits. Please thank them and encourage them to continue to work on this legislation to allow County Engineers to utilize taxpayer funds as efficiently as possible.

2009 Revenues		
Sales Tax (Earmarked for Capital Improvement)	26%	\$ 1,520,460.51
Auto Registrations	26%	\$ 1,512,970.76
Ohio Gas Tax	40%	\$ 2,331,702.91
Other (Fines, Sales, Inspections, Interest Income)	5%	\$ 295,373.54
General Fund	2%	\$ 110,040.17
Solid Waste Funds for Road Repairs	1%	\$ 35,000.00
Weaver Bros., Inc. - Voluntary Contribution	0%	\$ 5,000.00
Belle Center Amish Church Community - Voluntary Contribution	0%	\$ 4,300.00
Total		\$ 5,814,847.89



2009 Sales Tax	
County Carryover from 2008	\$ 1,794,343.97
Township Carryover from 2008	\$ 310,676.56
Income County 2009	\$ 1,520,460.51
Income Township 2009	\$ 322,521.94
Expenditures	
Township Sales Tax Resurfacing Program	\$ 407,426.14
County Sales Tax Resurfacing Program (including culverts)	
Bridge 5-0.94 Replacement	
Bridge 56-5.09 Replacement	
Bridge 164-2.10 Replacement	
Bridge 270-0.65 Replacement	
Bridge 270-1.46 Replacement	
Bridge 181-0.80 Replacement	\$ 1,207,898.48
Reimbursement from McArthur Twp. BR56-5.09	\$ 4,277.19
2009 County Carryover	\$ 2,111,183.19
2009 Township Carryover	\$ 225,772.36
Total Carryover	\$ 2,336,955.55

2009 Expenditures		
Road Department (Operation, Materials, Purchased Services)	41%	\$2,312,700.68
Sales Tax Improvement-Roads, Bridges	21%	\$ 1,203,621.29
Engineering & Administration	13%	\$722,258.12
Bridge Department (Operation, Materials, Purchased Services)	13%	\$720,128.93
Traffic Department (Operation, Materials, Purchased Services)	4%	\$ 210,969.04
Map Room (Operation, Materials, Purchased Services, Leases)	3%	\$145,447.06
Bond Retirement-New Garage	2%	\$ 110,040.17
Equipment Purchases* (see below)	3%	\$ 178,971.34
Total		\$ 5,604,136.63



*Major Equipment Purchased in 2009	
Computer Software, Licenses and Equipment	\$ 8,894.33
Map Room Printer-Scanner-Copier	\$ 149.96
Straw Blower - used	\$ 3,000.00
Exmark Lazer Z Mower	\$ 9,599.20
Vibratory Compactor	\$ 11,643.75
2010 Int'l Cab and Chassis	\$ 67,433.00
Dump Body and Hoist	\$ 14,049.00
Hitch, Hydraulic System and Plow	\$ 14,830.00
Roll Tarp	\$ 1,400.00
Radio and installation	\$ 1,958.00
Sander and Galvanized Body	\$ 23,779.00
Snowplow & Hydraulic System	\$ 22,174.00
Concrete test cylinders	\$ 61.10
Total	\$ 178,971.34

2009 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 2009, working ahead for the 2010 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 2009 Expenses

	Labor	Amortized Equipment	Materials and Contractor Work	Total
Mowing	\$ 51,108.18	\$ 51,100.24	\$ -	\$ 102,208.42
Roadside Spraying	\$ 4,235.56	\$ 1,355.25	\$ 7,015.44	\$ 12,606.25
Hand Patching	\$ 1,720.65	\$ 579.40	\$ 584.71	\$ 2,884.76
Durapatching	\$ 14,209.81	\$ 10,199.00	\$ 12,863.25	\$ 37,272.06
Crack Sealing	\$ 32,979.35	\$ 1,131.00	\$ 21,084.52	\$ 55,194.87
Tree & Brush Removal	\$ 53,973.09	\$ 38,536.73		\$ 92,509.82
Culvert Repair & Replacement (not related to resurfacing)	\$ 2,475.88	\$ 3,690.25	\$ 1,184.48	\$ 7,350.61
Sign Repair	\$ 17,060.89	\$ 2,324.33	\$ 10,147.23	\$ 29,532.45
Sign Repair (Vandalism)	\$ 1,218.74	\$ 148.50	\$ 628.17	\$ 1,995.41
Sign Replacement	\$ 4,674.91	\$ 478.35	\$ 12,297.02	\$ 17,450.28
Snow and Ice Contro	\$ 108,459.17	\$ 110,611.07	\$ 99,331.15	\$ 318,401.39

2009 County Federal Aid Paving Program Completed

ROAD #	Begins	Ends	Total Cost
5	CR 50	E. C/L/Rush.	\$ 25,916.14
12	CR 26 Left	CR 50 Suspend	\$ 184,254.62
39	SR 274	Belle Center C/L	\$ 334,919.40
50	CR 5/TR110	CR 12 Right	\$ 78,273.11
63	CR 64	DeGraff S.C/L	\$ 177,471.10
70	CR 4	Quincy W. C/L	\$ 126,774.00
91	SR 235	CR 130	\$ 466,742.92
106	Belle Center N. C/L	Hardin C/L	\$ 32,072.78
153	Zanesfield E. C/L	SR 287	\$ 580,919.12
Grand Total			\$ 2,007,343.19

2009 County OPWC Paving Program Completed

ROAD #	Begins	Ends	Total Cost
23	CR 74 E	CR 58 Suspend	\$ 223,000.05
24	N. C/L DeGraff	SR 235	\$ 324,484.14
34	SR 235	CR 59	\$ 376,575.42
28	CR 168	CR 29	\$ 317,245.61
101	CR 51	CR 49	\$ 236,100.04
Grand Total			\$ 1,477,405.26

2009 County Chip and Seal Program Completed

Road	Begins	Ends	Labor	Equipment	Materials	Total
48	CR 142	TR 138 North	\$ 908.02	\$ 798.95	\$ 9,730.02	\$ 11,436.99
48	TR 138 North	Logan-Union Co. Line				
125	SR 47	Logan-Union Co. Line	\$ 800.10	\$ 743.05	\$ 7,922.53	\$ 9,465.68
119	SR 292	CR 120	\$ 1,249.55	\$ 1,018.50	\$ 11,480.33	\$ 13,748.38
120	CR 265	CR 119 West	\$ 2,380.47	\$ 2,074.90	\$ 20,474.44	\$ 24,929.81
120	CR 119 West	CR 20				
120	CR 20	CR 48 End				
277	CR 44 Southwest	CR 153	\$ 1,234.14	\$ 1,082.40	\$ 11,489.16	\$ 13,805.70
277	Logan-Union Co. Line	CR 44 Southwest				
222	Huntsville E. C/L	CR 39	\$ 642.64	\$ 430.00	\$ 3,595.90	\$ 4,668.54
153	CR 277	Union Co. Line	\$ 1,703.42	\$ 1,509.50	\$ 11,623.54	\$ 14,836.46
124	CR 142	CR 26	\$ 1,128.58	\$ 967.40	\$ 12,106.24	\$ 14,202.22
124	CR 26	Logan-Union Co. Line				
158	SR 559	TR 157	\$ 1,493.31	\$ 1,165.25	\$ 17,009.35	\$ 19,667.91
158	TR 157	SR 287				
5	SR 47 E. & TR 273 W. Resume	CR 26 East	\$ 7,580.79	\$ 6,165.23	\$ 71,405.13	\$ 85,151.15
5	CR 26 East	CR 136 West				
5	CR 136 West	CR 118 West				
5	CR 118 West	CR 20				
5	CR 20	CR 50 East				
5	N. Corp. Line Rushsylvania	TR 111 West	\$ 2,507.93	\$ 1,900.80	\$ 27,304.48	\$ 31,713.21
5	TR 111 West	TR 51				
5	TR 51	SR 273				
5	SR 273	Logan-Hardin Co. Line				
49	CR 105	CR 39				
49	SR 274	CR 101 Northeast	\$ 1,815.45	\$ 1,512.25	\$ 20,409.52	\$ 23,737.22
49	CR 101 Northeast	TR 108 West				
49	TR 108 West	CR 105				
35	SR 235	TR 74				
35	TR 74	TR 75	\$ 5,484.13	\$ 4,562.75	\$ 64,836.21	\$ 74,883.09
35	TR 75	SR 47				
13	SR 235 Leave	TR 214 North				
13	TR 214 North	TR 33				
13	TR 33	TR 31 & Penn Central RR				
13	TR 31 & Penn Central RR	TR 46 South				
13	TR 46 South	TR 46 North				
13	TR 46 North	CR 32				
13	CR 32	CR 130	\$ 861.10	\$ 670.95	\$ 6,189.92	\$ 7,721.97
26	CR 142	CR 124				
26	CR 124	Logan-Union Co. Line	\$ 831.19	\$ 580.00	\$ 3,808.81	\$ 5,220.00
82	CR 83 South	West Corp. Line Lakeview	\$ 616.16	\$ 408.00	\$ 3,991.38	\$ 5,015.54
83	SR 720	CR 82 East	\$ 1,605.52	\$ 1,215.95	\$ 9,153.48	\$ 11,974.95
31	County Line	SR 508	\$ 1,740.01	\$ 1,344.20	\$ 16,455.60	\$ 19,539.81
73	Logan-Shelby Co. Line	TR 23 North				
73	TR 23 North	CR 34	\$ 787.86	\$ 702.95	\$ 7,280.97	\$ 8,771.78
74	CR 23	CR 34 North End	\$ 792.34	\$ 879.00	\$ 7,340.13	\$ 9,011.47
20	CR 142	Logan-Union Co. Line	\$ 2,438.07	\$ 1,816.50	\$ 13,783.60	\$ 18,038.17
29	CR 5 Leave	TR 166 South				
29	TR 166 South	CR 47 South	\$ 774.75	\$ 707.60	\$ 8,134.53	\$ 9,616.88
168	Logan-Champaign Co. Line	CR 28	\$ 649.77	\$ 464.45	\$ 3,245.40	\$ 4,359.62
28	CR 41East	CR 168 West	\$ 595.32	\$ 376.70	\$ 2,339.00	\$ 3,311.02
271	CR 296 LT	SR 292	\$ 394.67	\$ 285.55	\$ 1,728.60	\$ 2,408.82
10	SR 292 Resume	CR 154	\$ 1,144.04	\$ 557.30	\$ 2,758.80	\$ 4,460.14
154	CR 10	SR 347				
Total Chip & Seal Program						\$ 451,696.53

2010 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, 2010, the proposed resurfacing and chip-seal programs for the County are as follows:

2010 Proposed County Resurfacing Program					
ROAD #	Begins	Ends	ROAD #	Begins	Ends
29	CR 1	CR 5 (suspend)	202	TR 263	SR 508
30	CR 31 South	CR 31 North	117	SR 292	Union Co. Line
31	Logan-Champaign Co. Line	CR 11	121	SR 292 & CR 40 Ridgeway	Logan-Union Co. Line
57	US 33	CR 9	271	Dead End	CR 296 LT
62	Champaign-Logan Co. Line	SR 508	296	SR 292	CR 271
18	SR 508 & TR 18	TR 30			

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

2010 PROPOSED COUNTY CHIP SEAL PROGRAM					
Road #	Begins	Ends	Road #	Begins	Ends
26	SR 292	CR 120 North	54	SR 235	TR 215 South
26	CR 120 North	Penn Central RR	54	TR 215 South	TR 213 South
26	Penn Central RR	CR 142	54	TR 213 South	CR 91
142	N. Corp. Line W. Mansfield	TR 123 East	54	CR 91	CR 61 & CR 37 Lewistown
142	TR 123 East	CR 124 Northeast	61	CR 37 & CR 54 Lewistown	SR 274
142	CR 124 Northeast	CR 26	139	Logan-Union Co. Line	Logan-Hardin Co. Line
43	CR 11	TR 33 Pleasant/Union Twp. Line	270	Lakeview NCL	TR 87
43	TR 33 Pleasant/Union Twp. Line	CR 31	270	TR 87	US 33
43	CR 31	TR 46 North	11	TR 32	TR 216 Har. & Lake Twp. Line
43	TR 46 North	TR 201 North	11	TR 216 Har. & Lake Twp. Line	CR 18 South
43	TR 201 North	TR 198	11	CR 18 South	Penn Central RR
43	TR 198	CR 18	32	CR 11	Penn Central RR
25	SR 47 (resume)	TR 136 East	32	Penn Central RR	SR 47
25	TR 136 East	TR 57 West	32	SR 47	Penn Central RR
25	TR 57 West	CR 9	32	Penn Central RR	CR 13
11	TR 43 West	TR 208 West	32	CR 13	CR 130
11	TR 208 West	TR 209 West	130	Bellef. Corp. Line South	Bellef. Corp. Line North
11	TR 209 West	TR 33 S. Ple & Har. Twp. Line	130	Bellef. Corp. Line North	CR 13 Left
11	TR 33 S. Ple & Har. Twp. Line	TR 33 North	130	CR 13 Left	CR 32 Left
11	TR 33 North	CR 31 S. & TR 31 N.	130	CR 32 Left	TR 218 Right
3	CR 4 Shelby Co. Line	End of Logan Co. Maint.	130	TR 218 Right	CR 91 Left
4	RR Crossing	CR 70	130	CR 91 Left	Super Foods Drive
4	CR 70	Shelby Co. Road	130	Super Foods Drive	CR 57 Right
4	Shelby Co. Road	Center Miami River	130	CR 57 Right	CR 39 Right
37	CR 61 Lewistown	TR 95	130	CR 39 Right	TR 56
37	TR 95	TR 31	130	TR 56	CR 37
37	TR 31	TR 99	130	CR 37	US 33 Ramp End
37	TR 99	TR 56	144	CR 144A	CR 152
37	TR 56	CR 130	144	CR 152	SR 287
37	CR 130	US 33	144A	CR 144	US 33 & SR 347
37	US 33	CR 39			
64	Champaign Co. Line	TR 295			
64	TR 295	TR 71			
64	TR 71	CR 63			

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

2009 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.

As of March 1, 2010, all of the annual bridge inspections were complete. The Bridge Crew replaced 9 structures.

Structures Replaced:

Township Road 164-2.10 (Monroe Twp.) Bridge Replacement
Township Road 164-1.75 (Monroe Twp.) Bridge Replacement
Township Road 56-5.09 (McArthur Twp.) Bridge Replacement
County Road 270-0.65 (Stokes Twp.) Bridge Replacement
County Road 270-1.46 (Stokes Twp.) Bridge Replacement
Township Road 181-0.80 (Jefferson Twp.) Bridge Replacement
County Road 91-1.45 (Washington Twp.) Bridge Replacement
County Road 63-1.38 (Miami Twp.) Bridge Replacement-Righter Co.-Federal Funding
County Road 63-2.63 (Miami Twp.) Bridge Replacement-Miller Bros. Const.-Federal Funding
County Road 70-0.45 (Miami Twp.) Box Culvert, by highway crew
County Road 5-0.94 (Liberty Twp.) Box Culvert, by highway crew

2010 BRIDGE PROGRAM

In the 2001 renewal of the sales tax for roads and bridges, the priority was based on condition. Therefore, the 2010 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, 2010, the proposed Bridge Program is as follows:

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 105-0.24 (Richland Twp.) Bridge 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 4-2.15 (Miami Twp.) Bridge Rehabilitation

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 6,820. 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 2009, the Map Room staff checked legal descriptions on 2,098 recorded documents. Sixty-one of these recorded documents were Certificates of Transfer, 1,852 were deeds, 127 were easements and 58 were land contracts. Additionally, 6 condominium plats were approved and recorded. New property splits totaled 242 for the year with 89 descriptions being new surveys. Surveyors submitted 294 new legal descriptions which were reviewed, approved, scanned and filed by the Map Room personnel. In addition, 26 new house numbers were created in 2009.

The County Engineer's Office has created a place on its web site (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 there was a decrease in construction activity, as was expected. The department budget was cut which required us to reduce operation costs. The department cut salaries by 12.5% by voluntarily reducing hours from 40 to 35 hours per week to help achieve the budget reduction. Office hours in 2010 will remain the same as 2009. A few lines have been added to this report for information purposes and clarity of valuations. The total valuation was up for 2009. The Ohio Manufactured Homes Commission (OMHC) made changes on both "Seal" requirements and reporting, which in turn caused us to have to re-adjust our paper and computer logging for all manufactured homes submitted for permitting. The OMHC will also increase the cost of their "Seals" from \$75 to \$100 starting January 1, 2010. The Board of Building Standards (BBS) will not incorporate the new residential code until at least June or July of 2010. There is some discussion in Ohio Building Officials Association that the BBS should wait longer due to the restrictions in the new code.

Revenue			
	2009	2008	% of Change
Permit Revenue	\$ 93,575.00	\$ 105,425.00	-11.2%
Contractor Registrations	\$ 16,300.00	\$ 20,450.00	-20.3%
Reinspect Fees	\$ 1,050.00	\$ 1,050.00	0.0%
Application Fees	\$ 9,900.00	\$ 9,575.00	3.4%
Additional Permit Fees	\$ 3,600.00	\$ 3,025.00	19.0%
OMHC Seals (new)	\$ 1,275.00	\$ 1,800.00	-29.2%
State Administrative Fee 1%	\$ 1,081.25	\$ 1,194.50	-9.5%
Total Revenue	\$ 126,781.25	\$ 142,519.50	-11.0%

Expenditures			
	2009	2008	% of Change
Total Salaries	\$ 78,086.81	\$ 93,156.74	-16.2%
PERS, W/C & Medicare	\$ 13,609.43	\$ 16,049.25	-15.2%
Supplies	\$ 846.26	\$ 2,006.36	-57.8%
Contract Services	\$ 7,537.53	\$ 14,752.73	-48.9%
Contract Repair	\$ 1,541.36	\$ 1,065.94	44.6%
Equipment Lease	\$ 3,094.96	\$ 1,990.67	55.5%
Continuing Education	\$ 930.04	\$ 895.52	3.9%
Other Expenses	\$ 167.00	\$ 2,571.04	-93.5%
Code Books	\$ -	\$ 134.50	-100.0%
OMHC	\$ 1,875.00	\$ 750.00	150.0%
State Administrative Fee 1%	\$ 1,081.25	\$ 1,195.00	-9.5%
Total Expenditures	\$ 108,769.64	\$ 134,567.75	-19.2%

Permits Issued			
	2009	2008	% of Change
Total of New Homes	45	64	-29.7%
Total of New Mfg. Homes	17	6	183.3%
Total of "Other" Permits	333	304	9.5%
Total All New Dwellings	62	70	-11.4%
Total Flood Plain Permits	4	6	-33.3%
Total of All Permits	395	374	5.6%

Inspections			
	2009	2008	% of Change
Building/Structural	685	1,089	-37.1%
Electrical Inspections	530	574	-7.7%
HVAC Inspections	143	192	-25.5%
Special Inspections	0	1	100.0%
Total Inspections*	1,358	1,856	-26.8%

* Includes Re-inspections

Home Valuation			
	2009	2008	% of Change
New Home Valuation	\$ 10,893,936	\$ 10,367,090	5.1%
Total for New Homes (stick/I.U's)	\$ 6,897,163		
Total for all Mfg. Homes	\$ 758,240		
Total for all "Other" Permits	\$ 3,238,533		
Avg. Valuation Per Home	\$ 155,628	\$ 148,101	5.1%

Averages			
	2009	2008	% of Change
Total Inspection Stops	972	1,159	-16.1%
Avg Inspections Per Stop	1.4	1.6	-12.5%
Avg Revenue Per Stop	\$ 130.43	\$ 122.96	6.1%
Avg Expenditure Per Stop	\$ 111.90	\$ 116.11	-3.6%
Avg Revenue Per Permit	\$ 320.96	\$ 381.07	-15.8%
Avg Expenditure Per Permit	\$ 275.37	\$ 359.81	-23.5%
Avg Revenue Per Inspection	\$ 93.36	\$ 76.79	21.6%
Avg Expenditure Per Inspection	\$ 80.10	\$ 72.50	10.5%

MOTOR VEHICLE REGISTRATIONS

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

2009 Logan County, Ohio Motor Vehicles Registrations		2008	2007
Type of Registration	# of Units	# of Units	# of Units
Passenger Cars	33,193	33,988	33,987
Motor Homes	386	369	407
Motorcycles	2,592	2,738	2,551
House Vehicles	787	773	782
Mopeds	31	35	39
Non-Commercial Trailers	5,084	5,002	5,040
Non-Commercial Trucks	10,963	11,008	11,272
Farm Truck	341	314	308
Buses	52	61	50
Commercial Trailers	1,744	1,631	1,607
Non IRP Trucks	2,104	1,954	1,972
IRP Trucks (Intl. Reg. Plan)	134	132	154
Total Vehicle Registrations in 2009	57,411	58,005	58,169

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 12/31/09

299 Bridges

20 Have Load Reductions Posted

9 Have a Sufficiency Rating Less Than 50%

6,676 Signs

1,597 Culverts

Excellent/Good Condition - 1,423

Fair/Poor/Unknown Condition - 174