

**OFFICE OF
THE
LOGAN COUNTY
ENGINEER**

**ANNUAL REPORT
2004-2005 ROAD REVIEW**

April 1, 2005



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

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EMPLOYEES OF THE LOGAN COUNTY ENGINEER'S OFFICE		
County Engineer		
Scott C. Coleman, P.E., P.S.		
Engineering Department		
Harvey Grimes	Nick Sanders	Kristin Knight
Dianne Gauder	Shirley Brunke	Michaela Brunke
Curtis D. Dill	Bob Simmons	Greg Dappert
Dennis Stryker	Sam Ragland	
Map Room		
Jon Hines	Suzie Yoesting	Jayma Burkhammer
Road Department		
Bob Schrader	Butch Banning	Larry Strayer
Jackie Norviel	Todd Coleman	Robert Smith
John Spencer	Ron Hanson	Mark Dearwester
Dan McMillen	Greg Swonguer	John Berry
Jim Logan	Joel Miracle	Larry Artis
Mark Hilty	Jeremy Burrey	Clyde Ball
Bridge Department		
Rick Archer	Jim Houchin	Shane Long
Keith Price		
Traffic Department		
Don Phipps	George Coleman	Richard Cooksey
Building Authority		
Mike Reffitt	Becky Jolliff	Dennis Grogan
John Cummins		

FROM YOUR COUNTY ENGINEER

April 1, 2005

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

The following pages contain our Annual Report for 2004. On the back page, the reader will find a breakdown of the road miles, the number of bridges on our system, along with the number of signs and culverts that we maintain. Also included in this report is what we accomplished in the year 2004, and what we plan to accomplish in 2005.

Once again, we are near the end of another busy year. This year we resurfaced 41 miles of county highways, sealed 76 miles of county highways, replaced 8 bridges, one large box culvert, and more than 100 culverts. We have also assisted the Township Trustees with the resurfacing of 19.9 miles and chip-sealing 20.76 miles of roads with a combination of sales tax and the Townships' own funds.

In 2004, we spent \$335,404.15 on snow and ice control during the calendar year, which is a reduction from \$551,444.53 in 2003. This includes 1,704.55 hours of overtime and 5,787.75 tons of grit.

The Map Room and the Building Authority have been very busy this year as well. The Logan County Building Authority issued 406 permits this year, of which, 226 were new dwellings. They also performed a total of 3,765 inspections in 2004. New home valuations totaled \$28,221,766.00. The Map Room processed 450 new parcel splits and over 2,700 deeds.

The road and bridges sales tax income for 2004 was \$2,366,634.37. Of these funds, 13.5 percent, or \$319,495.64, are provided for township roads and bridges each year.

For 2005, we have scheduled 45 miles for asphalt resurfacing and are planning an aggressive chip-seal program to preserve the roads that have been resurfaced recently. The resurfacing program is estimated to cost \$2,231,770, which includes a grant of \$684,876.20 from the Ohio Public Works Commission (Issue 2 program). We plan to chip-seal 68 miles with county crews at an estimated cost of \$234,329.

The bridge crew replaced 9 structures in 2004. They will continue to work diligently to replace the 9 bridges and complete the maintenance work that is scheduled for 2005.

The traffic department will be busy overseeing pavement markings, replacing damaged or vandalized signs, installing road construction signage, repairing barricades and high water signage, and maintaining the sign inventory.

Sincerely,



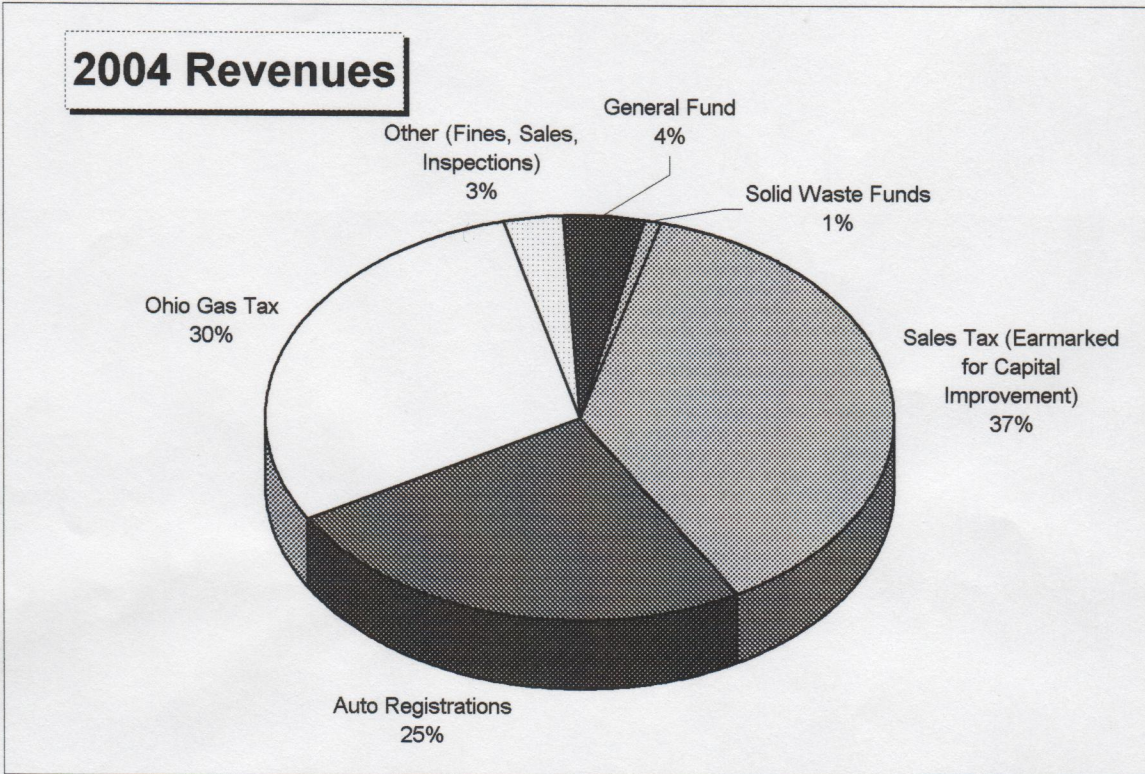
Scott C. Coleman, P.E., P.S.
Logan County Engineer

THE CONDITION OF OUR HIGHWAY SYSTEM

We have been busy this winter trying to keep the highways clear of snow and ice, as well as cleaning debris caused by the ice storm. Our crews will continue to chip the cut limbs that are remaining in the side ditches well into May. The extensive debris removal combined with snow and ice control has slowed our culvert replacements which are done in advance of the resurfacing program. Generally speaking, our roads have weathered the winter fairly well, but we continue to see the need to seal our new pavements as soon as possible after resurfacing. Several transportation agencies have started sealing new asphalt immediately after the hot mix paver has left the jobsite. We have planned 45 miles of resurfacing with asphalt concrete and expect to seal about 68 miles. We still have 56 miles of county highways that are rated in poor condition. This is a reduction from 142 miles of poor pavement in 2001.

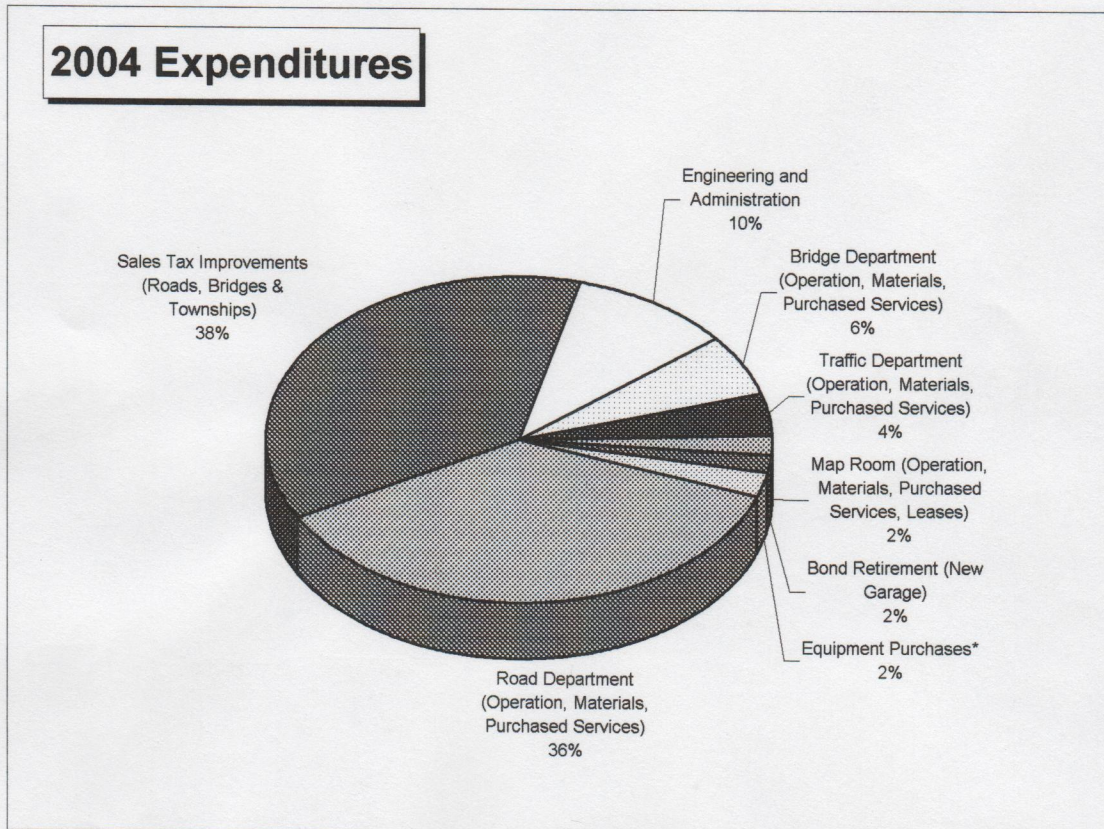
We are continuing to make strides with our bridge program. With the replacement of 9 bridges and large culverts in 2004, we are continuing to upgrade our overall bridge conditions. This year's bridge replacement schedule will reopen 3 bridges that have been closed for several years and 5 bridges that school buses are currently unable to cross due to weight restrictions.

2004 Revenues		
Sales Tax (Earmarked for Capital Improvement)	37%	\$ 2,366,634.37
Auto Registrations	25%	\$ 1,580,133.36
Ohio Gas Tax	30%	\$ 1,867,715.87
Other (Fines, Sales, Inspections)	3%	\$ 190,548.36
General Fund	4%	\$ 260,000.00
Solid Waste Funds	1%	\$ 50,000.00
Total		\$ 6,315,031.96



2004 Sales Tax	
Carryover from 2003	\$ 1,717,920.26
Income	\$ 2,366,634.37
Expenditures	
County Sales Tax Resurfacing Program (including culverts)	
Township Sales Tax Resurfacing Program	
CR144 & 144A Pulverized & Resurfaced	
Bridge 94-1.40 Replacement	
Bridge 116-0.55 Replacement	
Bridge 157-0.91 Replacement	
Bridge 2-1.97 Replacement	
Bridge 107-0.94 Replacement	\$ 2,343,451.29
Total Carryover	\$ 1,741,103.34

2004 Expenditures		
Road Department (Operation, Materials, Purchased Services)	36%	\$2,308,123.24
Sales Tax Improvements (Roads, Bridges & Townships)	37%	\$ 2,343,451.29
Engineering and Administration	10%	\$660,172.19
Bridge Department (Operation, Materials, Purchased Services)	6%	\$376,920.72
Traffic Department (Operation, Materials, Purchased Services)	4%	\$ 260,410.84
Map Room (Operation, Materials, Purchased Services, Leases)	2%	\$123,916.70
Bond Retirement (New Garage)	2%	\$ 115,077.38
Equipment Purchases*	2%	\$ 157,182.18
Total		\$ 6,345,254.54



Major Equipment Purchased in 2004	
2005 Intl. Bridge Truck	\$ 66,717.50
Snap On Diagnostic Equipment	\$ 1,240.00
12 Traffic Counters	\$ 4,802.90
Radar Units (Logan County Sheriff's Office)	\$ 4,419.00
60" Ditch Bucket	\$ 2,880.00
Target Pavement Saw	\$ 1,899.00
2005 Int'l. Single Axle Dump Truck	\$ 77,616.50
Total	\$ 159,574.90 *

* Equipment was also purchased from the individual department funds

2004 ROAD PROGRAM

The Road 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 Road Department was extremely busy in 2004, working ahead for the 2005 road program, 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 2004 Expenses				
	Labor	Amortized Equipment	Materials and Contractor Work	Total
Mowing	\$ 40,252.37	\$ 54,900.40	\$ -	\$ 95,152.77
Hand Patching	\$ 13,984.92	\$ 6,713.05	\$ 5,935.26	\$ 26,633.23
Durapatching	\$ 36,323.79	\$ 30,335.70	\$ 16,418.96	\$ 83,078.45
Grubbing	\$ 29,177.02	\$ 12,412.10	\$ -	\$ 41,589.12
Culvert Repair & Replacement (not related to resurfacing)	\$ 3,534.26	\$ 3,801.59	\$ 913.26	\$ 8,249.11
Sign Repair	\$ 4,554.08	\$ 547.52	\$ 967.86	\$ 6,069.46
Sign Repair (Vandalism)	\$ 6,974.35	\$ 934.29	\$ 2,497.97	\$ 10,406.61
Sign Replacement	\$ 26,954.69	\$ 2,340.48	\$ 19,422.14	\$ 48,717.31
Snow and Ice Control	\$ 109,576.10	\$ 111,730.71	\$ 114,097.34	\$ 335,404.15

2004 County Paving Program Completed			
ROAD #	Begins	Ends	Total Cost
28	168	29	\$ 193,374.20
34	74	59	\$ 232,305.75
144 & 144A	347	End of Guardrail	\$ 213,663.17
171	245	28	\$ 112,203.00
187	7	508	\$ 45,870.00
202	263	508	\$ 49,796.10
2	5	Union Co. Line	\$ 339,055.06
14	189	508	\$ 26,920.67
97 & 97A	96	273	\$ 78,582.55
117	292	Union Co. Line	\$ 106,795.65
121	292	Union Co. Line	\$ 115,946.38
68	Champaign Co. Line	706	\$ 36,334.45
118	20	5	\$ 49,320.59
18	508	45	\$ 83,660.56
173	5	47	\$ 59,884.22
189	West Liberty Corp	68	\$ 9,403.01
Sunrise Estates	All	All	\$ 54,101.39
11	43	31	\$ 129,099.00
Grand Total			\$ 1,936,315.75

2004 County Chip and Seal Program Completed

Road	Begins	Ends	Labor	Equipment	Materials	Total
146	CH 29 WEST TR 29 WEST	CH 153	\$ 2,248.27	\$ 1,745.90	\$ 5,762.37	\$ 9,756.54
153	ZANESFIELD CORP LINE	CH 277	\$ 4,877.07	\$ 3,792.76	\$ 20,801.83	\$ 29,471.66
39	CH 130	TR 56 WEST/ DEAD END	\$ 441.54	\$ 345.60	\$ 1,945.90	\$ 2,733.04
12	SR 292 & CH 8	CH 50 (suspend)	\$ 4,204.58	\$ 3,695.20	\$ 20,155.65	\$ 28,055.43
20	CH 142	LOGAN-UNION CO LINE	\$ 758.07	\$ 647.20	\$ 2,401.00	\$ 3,806.27
277	LOGAN-UNION CO LINE	CH 153	\$ 948.78	\$ 863.45	\$ 3,572.93	\$ 5,385.16
142	NORTH CORP LINE W. MANSFIELD	CH 26	\$ 1,181.53	\$ 1,079.60	\$ 7,421.77	\$ 9,682.90
44	TR 160 SOUTHEAST	CR 277	\$ 2,200.05	\$ 1,748.58	\$ 7,617.80	\$ 11,566.43
26	SR 292	LOGAN-UNION CO LINE	\$ 2,195.66	\$ 1,870.20	\$ 12,355.23	\$ 16,421.09
13	SR 235 LEAVE	CR 130	\$ 4,849.08	\$ 3,696.85	\$ 25,348.03	\$ 33,893.96
5	US 68	LOGAN-HARDIN CO LINE	\$ 10,737.79	\$ 8,644.55	\$ 44,702.90	\$ 64,085.24
10	EAST CORP LINE ZANESFIELD	SR 292 EAST LIBERTY	\$ 5,287.07	\$ 4,695.00	\$ 19,858.39	\$ 29,840.46
28	CH 41 EAST	US 33	\$ 3,413.09	\$ 2,753.50	\$ 8,911.45	\$ 15,078.04
29	CH 5 LEAVE	CH 47 SOUTH	\$ 1,061.69	\$ 916.40	\$ 4,994.04	\$ 6,972.13
41	LOGAN-CHAMP. CO LINE CR 28	SR 287	\$ 5,200.01	\$ 4,142.80	\$ 3,389.93	\$ 12,732.74
47	SR 245	CH 29 END	\$ 2,956.38	\$ 10,975.10	\$ 16,838.15	\$ 30,769.63
168	LOGAN-CHAMP. CO LINE	CH 28	\$ 1,201.62	\$ 905.90	\$ 3,143.54	\$ 5,251.06
Total Chip & Seal Program						\$ 315,501.78

2005 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 24, 2005, the proposed resurfacing and chip seal programs for the County are as follows:

2005 Proposed County Resurfacing Program

ROAD #	Begins	Ends
12	TR 115 NORTH	SR 292 END
20	CH 12	LOGAN-UNION CO LINE
48	CH 12	LOGAN-UNION CO LINE
50	CR 12 Lt.	SR 292
125	SR 47	LOGAN-UNION CO LINE
3	CH 4 SHELBY CO LINE	END OF LOGAN CO MAINT
10	SR 292 (resume)	CH 154
91	CH 54 LEWISTOWN	CH 130 END
119	SR 292	CH 120
120	CH 26	CH 48 END
277	LOGAN-UNION CO LINE	CH 44 SOUTHWEST
12	CH 50 (resume)	TR 115 NORTH
15	CH 44	SR 287 & CH 41
44	CR 15	TR 160
158	SR 559	SR 287
4	RR Crossing	Center Miami River
37	CR 61 Lewistown	CR 39
39	TR 56 Pvt Change	SR 274
49	CR 105	CR 39
64	Campaign Co. Line	CR 63
222	Huntsville ECL	CR 39
153	CH 277	UNION CO LINE
265	SR 274	CR 12

2005 Proposed County Chip Seal Program		
Road #	Begins	Ends
35	SR 235	SR 47
18	TR 45 WEST	CH 11 END
9	SR 47	RUSHSYLVANIA SOUTH CORP.
25	CH 9	SR 47
31	SR 508	CH 11
8	SR 540	SR 47 CH 142 WEST MANSFIELD CORP
26	CH 5	SR 292
50	CH 5 & TR 110 NORTH	CH 12 NORTH
118	CH 9	CH 20 NORTH
20	CH 118 RUSHCREEK TOWNSHIP	CH 12
39	TR 100 W (MCA. & RIC. LINE)	S. CORP LINE BELLE CENTER
49	CH 57	SR 274
97	CH 39 NEW RICHLAND	CH 96 WEST
52	SHELBY COUNTY	CH 54
53	SR 274	CH 52 END
87	TR 84 SOUTH	TR 83 SOUTH
91	SR 235	CH 54 LEWISTOWN
96	SR 117	CH 97 NEW RICHLAND
106	BELLE CENTER CORP LINE	LOGAN-HARDIN CO LINE
111	US 68	CH 112 SOUTH TR 112 NORTH
113	US 68	WEST CORP RUSHSYLVANIA
225	SHELBY-LOGAN CO LINE	CH 23

2004 BRIDGE PROGRAM

Our Bridge Crew again 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 February 25, 2005, all of the annual bridge inspections were complete. The Bridge Crew replaced 9 structures and performed significant repairs to several other structures.

Structures Replaced:

- County Road 96-2.70 Bridge Replacement
- Township Road 94-1.40 Bridge Replacement
- Township Road 179-1.679 Box Culvert Replacement
- Township Road 116-0.55 Bridge Replacement
- Township Road 157-0.91 Bridge Replacement
- County Road 2-1.97 Bridge Replacement
- County Road 20-6.01 Bridge Replacement
- Township Road 107-0.94 Bridge Replacement
- Township Road 35-2.97 Bridge Replacement

2005 BRIDGE PROGRAM

In the 2001 renewal of the sales tax for roads and bridges, the priority was based on condition. Therefore, the 2005 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 24, 2005, the proposed Bridge Program is as follows:

- Township Road 56-5.79 Bridge Replacement
- Township Road 76-1.27 Bridge Replacement
- Township Road 49-5.64 Bridge Replacement
- Township Road 33-2.66 Bridge Replacement
- Township Road 46-4.31 Bridge Replacement
- County Road 88-1.27 Bridge Replacement
- Township Road 85-0.26 Bridge Replacement
- Township Road 35-4.24 Bridge Replacement
- County Road 124-0.43 Bridge Replacement

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 7,032. 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 operation 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.

The changing and ever growing county community has kept the Map Room very busy. In 2004, they processed approximately 450 new property splits and checked over 2,700 deeds transferring property. They also checked approximately 65 easement and right-of-way documents, reviewed 8 new subdivision plats, and created approximately 200 new house numbers. They also checked over 300 new surveys and provided over 2,400 deed pre-approvals of legal descriptions.

This year we will be acquiring new aerial photography of the entire County. The new photography is expected to be available in January of 2006.

BUILDING AUTHORITY

Revenue increased due to the application fee being calculated for the full year. Permit revenue was up due to the square footage and valuation of the average home, which increased by 9.4 percent. Miscellaneous revenue was up because of reimbursement for lightning damage to the computer and fees from appeals. Expenditures were down compared to last year, because of the cost of a new vehicle in 2003. There was an increase in code book costs as we had not bought any in 2003. Total permits issued were down 17 but new home starts were up by 18. The main drop was in home additions. There was a decrease in Manufactured homes on piers but an increase in Industrialized Units. Valuations were up again, mainly due to square footage increases per house and an increased cost of materials. Total inspections increased. The biggest increase was in structural, electrical and special inspections. Structural inspections were up because of more basements, which require a reinforcing inspection. Electrical inspections increased due to more homeowners attempting to do their own electrical work. Special inspections were up because of the required slab inspections for the increased number of basements. There were more inspection stops this year but fewer miles driven. The average inspection per stop remained the same at 2.1. The department had an I.S.O. evaluation this year and we were raised from a level 5 up to a level 4.

This year has had a slow start due to weather related circumstances. Building activity should remain fairly consistent with last year depending on interest rates.

Revenue			
	2004	2003	% of Change
Permit Revenue	\$100,675.00	\$ 84,835.00	18.7%
Contractor Registrations	\$ 22,250.00	\$ 25,150.00	-11.5%
Plumbing Inspection Fees	\$ 16,145.00	\$ 16,056.00	0.6%
Reinspect Fees	\$ 1,375.00	\$ 1,450.00	-5.2%
Code Books	\$ 372.80	\$ 643.80	-42.1%
Misc	\$ 1,813.58	\$ 1.75	103533.1%
Application Fees	\$ 9,150.00	\$ 3,650.00	150.7%
Additional Permit Fees	\$ 250.00	\$ 200.00	25.0%
Total Revenue	\$152,031.38	\$131,986.55	15.2%

Expenditures			
	2004	2003	% of Change
Total Salaries	\$ 87,663.92	\$ 89,091.02	-1.6%
PERS, W/C & Medicare	\$ 13,082.76	\$ 13,682.94	-4.4%
Supplies	\$ 6,520.20	\$ 3,599.94	81.1%
Contract Services	\$ 8,950.91	\$ 7,572.80	18.2%
Contract Repair	\$ 1,763.36	\$ 1,526.02	15.6%
Equipment	\$ 10,843.15	\$ 17,423.57	-37.8%
Other Expenses	\$ 2,953.01	\$ 2,512.81	17.5%
Code Books	\$ 1,539.57	\$ -	1539.6%
Total Expenditures	\$133,316.88	\$135,409.10	-1.5%

Permits Issued			
	2004	2003	% of Change
Total of New Homes	197	179	10.1%
Total of New Mfg. Homes	12	23	-47.8%
Total of "Other" Permits	173	189	-8.5%
Total Plumbing Permits	24	32	-25.0%
Total All New Dwellings	226	221	2.3%
Total of All Permits	406	423	-4.0%

Inspections			
	2004	2003	% of Change
Building/Structural	1,417	1,272	11.4%
Electrical Inspections	857	763	12.3%
HVAC Inspections	369	338	9.2%
Plumbing Inspections	522	501	4.2%
Special Inspections	233	189	23.3%
Total Reinspections	367	361	1.7%
Total Inspections*	3765	3424	10.0%

* Includes Reinspections

Home Valuation			
	2004	2003	% of Change
New Home Valuation	\$ 28,221,766	\$ 23,432,438	20.4%
Avg. Valuation Per Home	\$ 143,258	\$ 130,907	9.4%

Averages			
	2004	2003	% of Change
Total Inspection Stops	1,838	1,653	11.2%
Total Miles Driven	20,848	21,592	-3.4%
Avg Inspections Per Stop	2.1	2.1	0.0%
Avg Miles Per Stop	11.3	13.1	-13.7%
Avg Revenue Per Stop	\$ 82.72	\$ 79.85	3.6%
Avg Expenditure Per Stop	\$ 72.53	\$ 81.91	-11.5%
Avg Revenue Per Permit	\$ 374.46	\$ 312.02	20.0%
Avg Expenditure Per Permit	\$ 328.37	\$ 320.10	2.6%

MOTOR VEHICLE REGISTRATIONS

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

2004 Logan County, Ohio Motor Vehicles Registrations	
Type of Registration	# of Units
Passenger Cars	35,427
Motor Homes	437
Motorcycles	2,035
House Vehicles	855
Mopeds	30
Non-Commercial Trailers	5,038
Non-Commercial Trucks	11,880
Farm Truck	318
Buses	49
Commercial Trailers	1,802
Non IRP Trucks	2,319
IRP Trucks	221
Total Vehicle Registrations in 2004	60,411
Total Vehicle Registrations in 2003	60,154

SOURCE: State of Ohio, Bureau of Motor Vehicles

The Office of the Logan County Engineer

1991 CR 13, P.O. Box 427

Bellefontaine, OH 43311

Phone (937) 592-2791

Fax (937) 599-2658

Web Site: www.co.logan.oh.us/engineer

EXECUTIVE SUMMARY

373.26 Miles of County Road

Excellent/Good Condition - 274 Miles

Fair/Poor Condition - 99 Miles

300 Bridges

48 Have Load Reductions Posted

43 Have a Sufficiency Rating Less Than 50%

6 are Closed

7,032 Signs

1,559 Culverts

Excellent/Good Condition - 1383

Fair/Poor/Unknown Condition - 176