

## 2014 Road Improvements

| Coldmix - motorpave - chip/seal (2014) |                                    |        |
|--|------------------------------------|--------|
| ROAD                                   | LOCATION                           | LENGTH |
| McGlade School Rd                      | SR 60 to Dresden Rd                | 4.04   |
| Meadow Farm Church Rd                  | Coopermill Rd to Old Coopermill Rd | 0.45   |
| Powelson Rd                            | SR 60 to North Pointe Rd           | 1.21   |
| County Line Rd                         | U.S. 40 to Flint Ridge Rd          | 2.75   |
| Total                                  |                                    | 8.45   |

| Asphalt Resurfacing (2014) |                                     |        |
|----------------------------|-------------------------------------|--------|
| ROAD                       | LOCATION                            | LENGTH |
| Airport Rd                 | U.S. 22/40 to Air Park Dr           | 1.12   |
| Adamsville Rd              | SR 93 to Zanesville Corp.           | 2.11   |
| Canal Rd                   | SR 586 to Frazeyburg Corp.          | 3.22   |
| Clay Pike                  | S. Pleasant Grove Rd to 1.0 mi east | 1.00   |
| Total                      |                                     | 7.45   |

### 2014 Resurfacing Costs

| County Funds | State (OPWC) | Total Cost |
|--------------|--------------|------------|
| \$241,491    | \$694,568    | \$936,059  |

## 2015 Planned Resurfacing

| Coldmix - motorpave - chip/seal (2015) |                              |        |
|--|------------------------------|--------|
| ROAD                                   | LOCATION                     | LENGTH |
| Old River Rd                           | North St to County Line      | 3.60   |
| Ransbottom Rd                          | Roseville Corp to Lambert Rd | 1.71   |
| Church Hill Rd                         | SR 93 to Burwell Rd          | 1.62   |
| Total                                  |                              | 6.93   |

| Asphalt Resurfacing (2015) |                                  |        |
|----------------------------|----------------------------------|--------|
| ROAD                       | LOCATION                         | LENGTH |
| Cutler Lake Rd             | SR 60 to Buttermilk Rd           | 5.99   |
| Poplar Forks Rd            | Licking Cty Line to Mt. Perry Rd | 0.22   |
| Moxahala Park Rd           | Moxadarla Rd to Panther Dr       | 0.19   |
| Total                      |                                  | 6.40   |



Airport Rd, resurfaced in 2014

Muskingum County has over 272 miles of asphalt roadways; ideally we would resurface every 8-10 years. Last year we were able to resurface 16 miles and this year we anticipate improving only 13 miles. This means we are averaging a resurfacing cycle of every 17-20 years. We are truly in an infrastructure funding crisis and must concentrate our limited funds on roadways with heavier volumes of traffic and poor condition ratings.



## Pavement Marking

After securing federal safety funds for pavement marking, several roads throughout the county received a new centerline in 2014, with a few heavier traveled highways marked with new edge lines. Our county received one grant solely for Muskingum County, while a second was a partnership between 7 area counties that enabled more roads to be striped. Slightly more than 137 miles of county roads were striped as a part of these projects that were funded entirely by the federal grant.

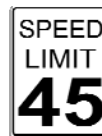


## Speed Limits

MCEO applied for, and received, funding to hire a consultant to perform speed studies on county roadways in 2014 and 2015.

The consultant will count traffic and compile all documents required by the Ohio Department of Transportation. Once these documents are provided, the MCEO will forward to ODOT for approval, so the roads can be formally journalized and posted with the proper speed limit on the roadway.

Twenty five (25) speed zones were studied in 2014, with thirty (30) more zones planned for 2015.



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MUSKINGUM COUNTY

# MCEO 2014 ANNUAL REPORT

ENGINEER'S OFFICE

Bridges took center stage in 2014, as we work toward upgrading our older infrastructure. With the assistance of the governor, through the Ohio Bridge Partnership Program, three bridges were replaced in 2014 on Coopermill Rd, Foxfire Dr, and Wilson Rd at no cost to the county. In addition, our county bridge crew had one of its busiest years to date with the construction of eight new bridges, helping us to stretch our dollars a little further. Bridges were replaced on Boggs Rd, Bush Hill Rd, Clay Pike, Goosecreek Rd, New Hope Rd, and Shannon Valley Rd with our own crews as we utilized a loan from the Ohio Public Works Commission in order to upgrade these deficient structures. We have also continued to conserve by recycling materials in order to save funds. By re-using steel beams that were recycled from a past year's project, we were able to replace a deficient bridge on Green Valley Rd near Chandlersville, as well. We will continue to look for new ways of re-using and recycling materials as we battle our aging highway system.



DOUG DAVIS P.E., P.S. - COUNTY ENGINEER

## Major Project Update



Duncan Falls-Philo Bridge

Preliminary work has begun on this structure spanning the Muskingum River. A consultant has been hired to begin structure type and environmental studies for the new bridge. Currently, the project is programmed for construction in 2019 for this vital link between Philo and Duncan Falls. Future public meetings will address specifics related to the project.



SR555/Old River Rd Bridge (at Grantcliff Rd)

Construction of a new bridge on Old River Road near Grantcliff Road will begin in the summer of 2015. When completed the new structure will become a state bridge and will be maintained by ODOT as part of SR 555.

# 2014 Bridge Improvements

In 2014, thanks to the efforts of our county workers and design staff, we were able to replace 8 bridges throughout Muskingum County. While steel beam bridges work well in specific locations, concrete box culverts are a good fit elsewhere and reduce the time needed for closure to traffic.

**steel beam bridges - constructed by county crews**



Boggs Road, Perry Twp



Bush Hill Rd, Brush Creek Twp



Green Valley Rd, Salt Creek Twp



Clay Pike, Salt Creek Twp



Goosecreek Rd, Brush Creek Twp

These eight bridge replacements were made possible with a \$500,000 loan through the Ohio Public Works Commission, which provided materials for the projects. Failure of the \$5.00 license tax ballot issue a year ago, means that a similar bridge program in the future will be unlikely. Two \$5.00 license tax additions could be added and would be dedicated for highway purposes. Each \$5.00 license tax would generate enough funds to replace 4-6 similar structures annually.

**concrete box culverts - installed by county crews**



Shannon Valley Rd, Licking Twp

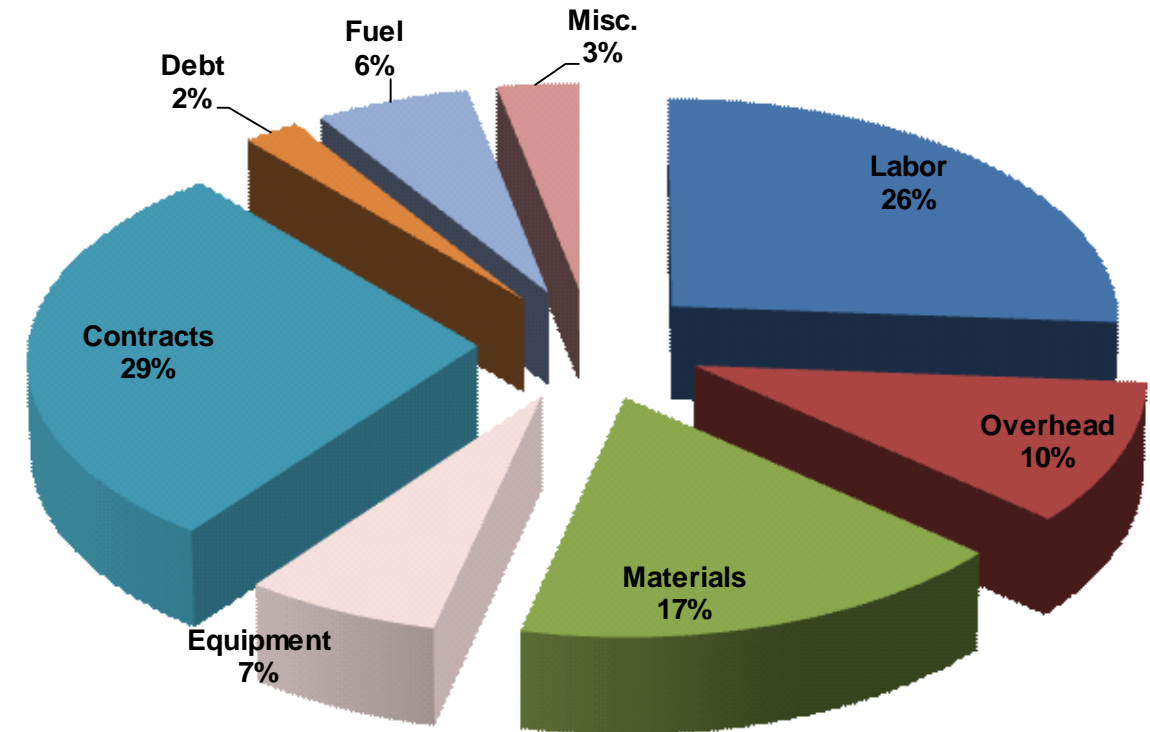


Clay Pike, Salt Creek Twp



New Hope Rd, Salem Twp

# 2014 Expenditures



|           |              |  |
|-----------|--------------|--|
| Labor     | \$ 1,909,706 | Payroll for highway and bridge crews, as well as office and administrative staff.                        |
| Overhead  | \$ 754,744   | Retirement, Insurance, Worker's Compensation, Medicare, etc.   |
| Materials | \$ 1,245,612 | Stone, salt, cinders, asphalt for patching, coldmix and seal emulsion, bridge and culvert materials.     |
| Equipment | \$ 487,892   | New equipment, equipment rental, repairs and preventative maintenance for the county highway fleet.      |
| Contracts | \$ 2,081,043 | Work by contractors and consultants (road and bridge improvements)                                       |
| Debt      | \$ 160,904   | Debt paid on highway, bridge, and equipment loans.   |
| Fuel      | \$ 431,464   | Gasoline and diesel fuel for trucks and equipment operated by highway crews and supervisors.             |
| Misc.     | \$ 229,252   | Utilities, signs and traffic control, safety items, office supplies, computers and software, misc. items |

Muskingum County has a significant infrastructure funding shortfall for our transportation network. Funding revenues have been flat, and even decreasing in the last 10 years. The gas tax, which is a primary source of revenue for roadway improvements, has been decreasing as cars become more fuel efficient and people are driving less due to the higher cost of fuel. Gas tax IS NOT a % of the total price, and, therefore, IS NOT a factor in fluctuating fuel prices. The cost of materials, especially petroleum products, such as asphalt has increased significantly. Consequently, pavement resurfacing, chip-seal, and other road improvements are continually being reduced to compensate for this funding shortfall.



## Rising salt prices



This past year, salt prices rose nearly 50%, which was a \$24/ton increase, causing considerable strain on an already tight budget. Since our salt usage through the winter months is normally 4,000 tons, this increase calculates close to an additional \$100,000. We continue to mix salt with cinders and sand in an effort to conserve.