



Boone County Road & Bridge Annual Report

A cooperative effort between
the Engineering Division of
Resource Management and
Road & Bridge

Vision Statement

All citizens of Boone County Benefit from a safe, modern and well maintained transportation system which results in a high level of trust and confidence placed in Boone County Road and Bridge & Boone County Resource Management—Engineering Division.

L e t t e r f r o m t h e C h i e f E n g i n e e r

Dear Boone County Commissioners and Boone County Residents,

The Boone County Resource Management—Engineering Division is pleased to present our Annual Report which highlights major activities and accomplishments for fiscal year 2019. Our mission is to maintain and improve the County's 771 mile road network and associated drainage structures. We remain confident that our proactive approach and data-driven programs are the core reasons for our success.

The dedication of our employees and their ability to communicate and coordinate with each other and with the Road and Bridge employees is the key to our accomplishments. Together, we will continue to provide a safe, modern and well maintained transportation system while serving the citizens of Boone County with excellence and integrity.

Thank you for the continued support and the opportunity to serve

Respectfully,

Jeff McCann, P.E.



Expense Charts	1-3
Pavement Preservation	4-7
Asphalt Rehab	8
Concrete Rehab	9-14
Drainage Structures	15-17
2020 Plan	18-21
Infrastructure Condition	22-30
Surveying	31-32
Right of Way	33-34
Stormwater	35-56
Sales Tax Distribution	57-82
Staff	83-86



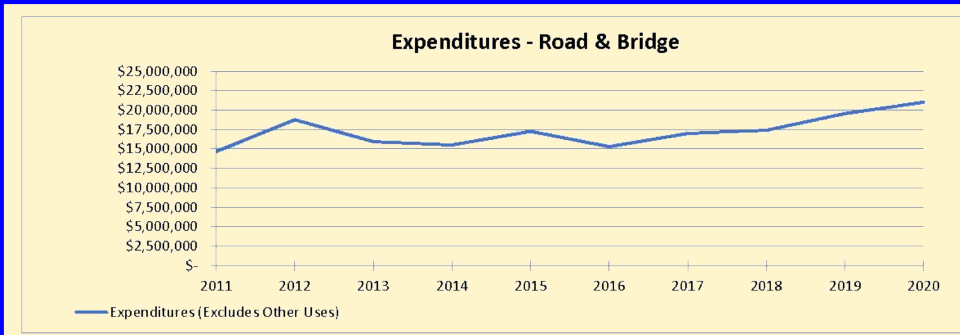
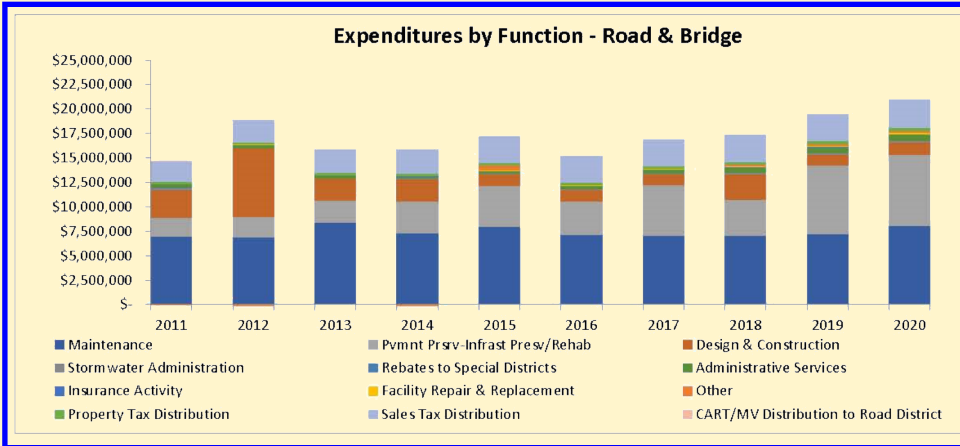
Requirement #1

Report the money expended for construction, repair and maintenance of such roads, highways, bridges and culverts during the preceding year.

**Fiscal Year 2019
Expenses**

FY2019 Expenses

Road & Bridge Expenditure Yearly Comparison



Prior to 2015 money for Pavement Preservation and Rehabilitation projects were budgeted in different categories. Beginning with the 2015 budget Pavement Preservation and Rehabilitation projects were classified in the same category

FY2019 Expenses

Road & Bridge Expenditure Yearly Comparison

Expenditures by Function–Budget Basis – Road & Bridge Fund (Major Fund)

	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual
Maintenance	\$ 6,976,416	\$ 6,897,453	\$ 8,423,002	\$ 7,316,481	\$ 8,025,593
Pvmnt Prsrv-Infrast Presv/Rehab	1,943,146	2,118,274	2,225,936	3,287,483	4,161,622
Design & Construction	2,853,850	6,959,901	2,280,728	2,232,145	1,147,802
Stormwater Administration	129,239	39,768	32,078	42,957	85,783
Rebates to Special Districts	62,475	-	-	-	-
Administrative Services	350,000	309,500	241,755	241,755	241,755
Insurance Activity	8,228	8,821	12,904	30,590	2,753
Facility Repair & Replacement	50,000	50,000	50,000	50,000	50,000
Property Tax Distribution	203,302	206,055	218,667	224,663	249,839
Sales Tax Distribution	2,118,578	2,279,397	2,354,854	2,464,895	2,694,854
CART/MV Distribution to Road District	39,366	78,613	79,381	83,799	87,359
Other	(62,829)	(192,615)	4,247	(473,324)	517,760
Total	\$ 14,671,771	\$ 18,755,167	\$ 15,923,552	\$ 15,501,444	\$ 17,265,120

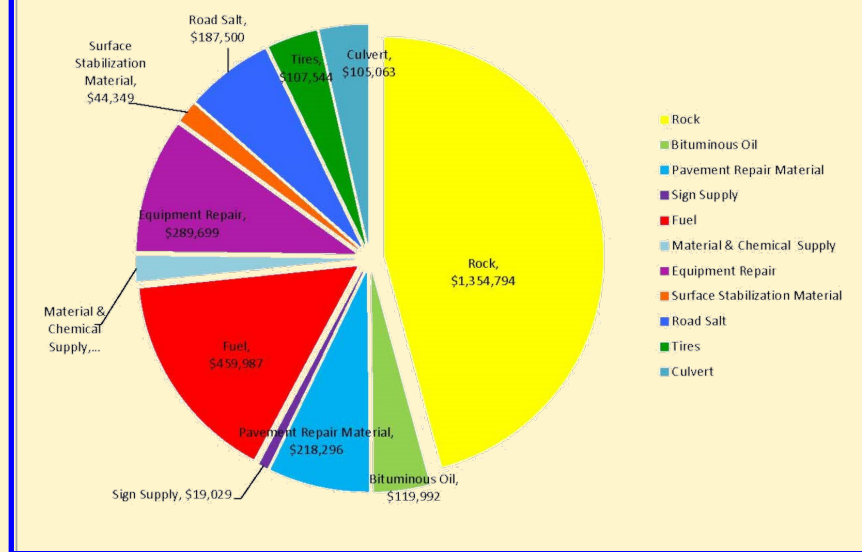
	2016 Actual	2017 Actual	2018 Actual	2019 Estimated	2020 Budget
Maintenance	\$ 7,136,781	\$ 7,095,987	\$ 7,063,077	\$ 7,236,324	\$ 8,037,057
Infrastructure Preservat/Rehab	3,488,468	5,171,587	3,706,517	7,033,267	7,315,000
Design & Construction	1,122,565	1,037,361	2,586,288	1,099,932	1,263,616
Stormwater Administration	115,563	117,043	114,620	120,919	130,873
Rebates to Special Districts	-	-	-	-	-
Administrative Services	329,163	405,000	538,000	630,000	675,000
Insurance Activity	10,870	8,647	44,941	24,343	20,000
Facility Repair & Replacement	50,000	50,000	150,000	150,000	150,000
Property Tax Distribution	247,149	258,052	264,403	271,371	290,100
Sales Tax Distribution	2,680,370	2,739,268	2,718,437	2,732,650	2,847,300
CART/MV Distribution to Road District	87,494	89,271	88,168	86,750	87,000
Other	13,246	6,487	131,927	163,687	194,188
Total	\$ 15,281,669	\$ 16,978,703	\$ 17,406,378	\$ 19,549,243	\$ 21,010,134

- ◆ 2019 Infrastructure Preservation & Rehab funding level increased for the El Chaparral concrete rehab project.
- ◆ 2020 Infrastructure Preservation & Rehab funding level increased for County participation in the replacement the I-70 bridge at Rocheport.

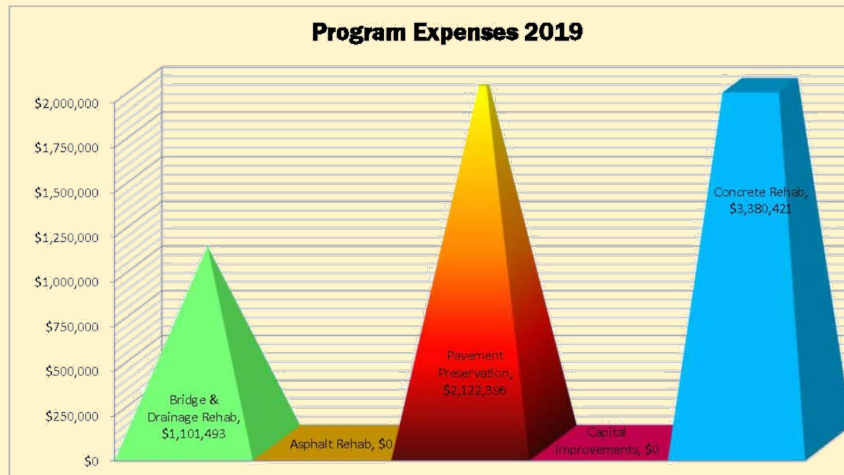


FY2019 Expenses

Road & Bridge Major Supplies Expenses 2019



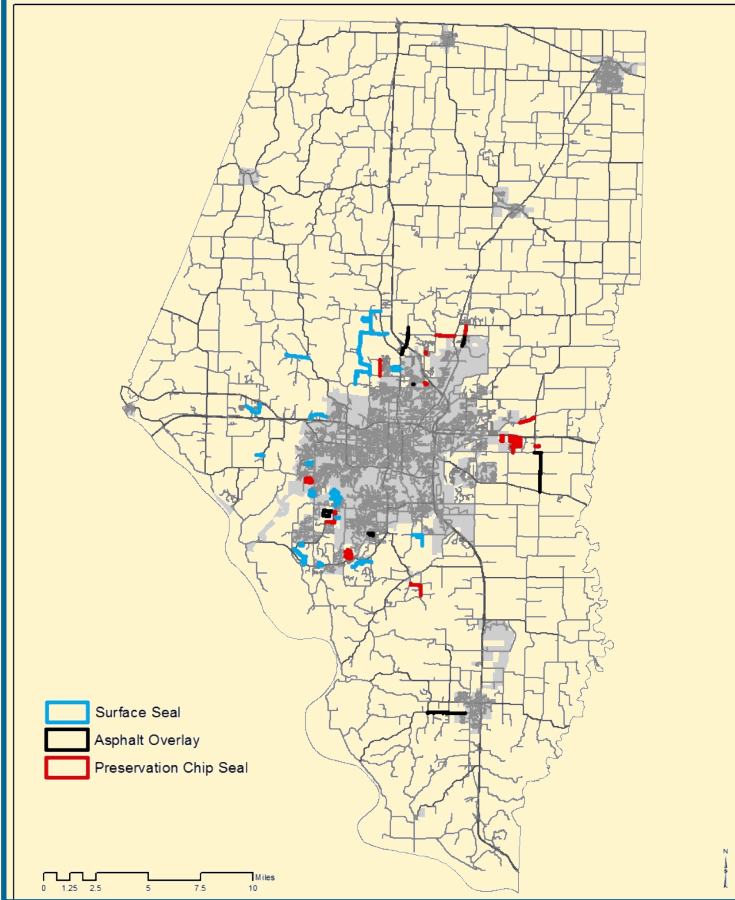
Program Expenses 2019



2019 Pavement Preservation



Boone County 2019 Pavement Preservation



Pavement Preservation

The systematic process of applying the

- ◆ Right Treatment to the
- ◆ Right Road at the
- ◆ Right Time

2019 Pavement Preservation

PROJECT INFORMATION SHEET

Asphalt Overlay

Project Location:

Various roads within Boone County: 7.6 total centerline miles

Project Overview:

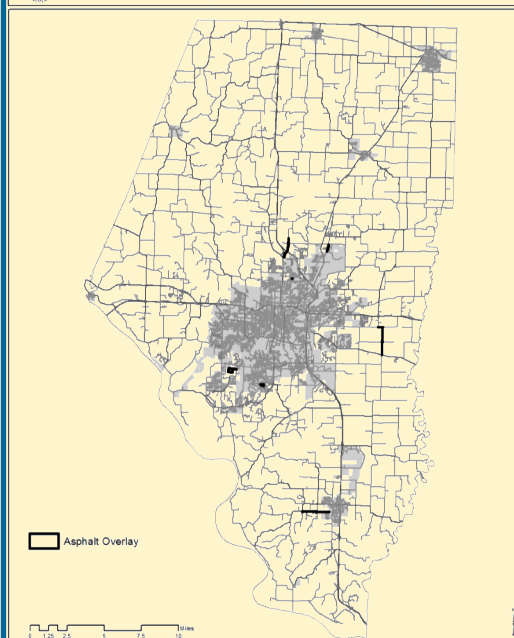
Preventative maintenance typically applying 2" of new asphalt mix to roads showing moderate distress

Project Explanation:

Asphalt Overlays are performed on roads that exhibit some moderate distresses and smoothness irregularities, but otherwise are in good condition.



Boone County 2019 Asphalt Overlays



Asphalt Overlay

- ◆ 7.6 Centerline Miles
- ◆ \$1,064,074.56 Total Contracted Cost
- ◆ \$140,009.81 Contracted Cost per Mile

2019 Pavement Preservation

PROJECT INFORMATION SHEET

Onyx Surface Seal

Project Location:

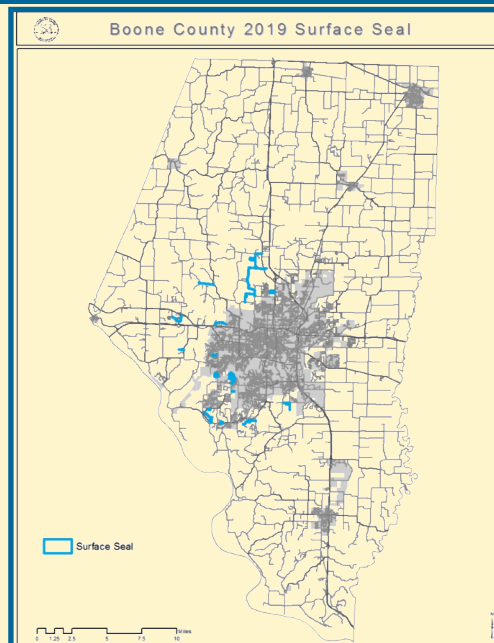
Various roads within Boone County: 35.6 total centerline miles planned; 21.9 total centerline miles completed.

Project Overview:

Preventative maintenance applying an asphalt-based sealant. A late start combined with unusual weather patterns caused this project to be suspended in late fall. The remaining 13.7 centerline miles are scheduled for treatment in the spring of 2020.

Project Explanation:

Surface Seals are performed on roads in excellent condition.



Onyx Surface Seal

- ◆ 21.9 Centerline Miles
- ◆ \$360,932.47 Total Contracted Cost
- ◆ \$16,480.93 Contracted Cost per Mile

2019 Pavement Preservation

PROJECT INFORMATION SHEET

Preservation Chip Seal

Project Location:

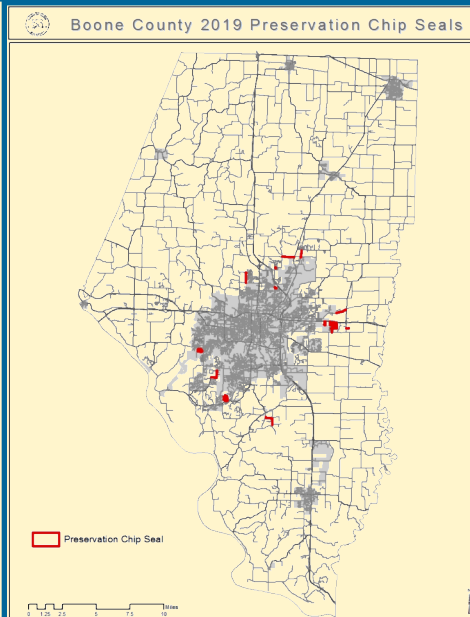
Various roads within Boone County: 13.5 total centerline miles

Project Overview:

Preventative maintenance applying a combination of rock chips and an asphalt emulsion oil to recently overlaid or constructed roads.

Project Explanation:

Preservation Chip Seals are performed on roads in excellent condition – typically within 2-3 years of being constructed or receiving an asphalt overlay. The heavy application of asphalt emulsion oil that is applied as part of a chip seal creates a very robust barrier between the pavement and the environment, limiting the deteriorating effects of sunlight and moisture to the road. The chips used in this process (Iron Mountain Trap Rock) are a very hard, durable rock which provides a wearing surface and traction to the road.



Preservation Chip Seal

- ◆ 13.5 Centerline Miles
- ◆ \$396,471.58 Total Contracted Cost
- ◆ \$29,368.27 Contracted Cost per Mile

Asphalt Rehabilitation

In late summer of 2017, when planning began for the FY2018 budget, no projects met the criteria for development of an asphalt rehabilitation project. Based on that knowledge, Resource Management Engineering prepared a work plan that included additional spending on concrete and bridge projects that met requirements in those classifications. The Boone County Commission accepted our recommendation to redistribute funds typically used for asphalt rehabilitation to concrete and bridge rehabilitation projects for budget construction years 2018 through 2022. To date, there have been no developments that would alter this plan.

Chip Seal

Later in this report you will see two types of chip seal referenced. This is an explanation of their different uses.

Limestone Chip Seal is a surface treatment consisting of a heavy application of emulsified road oil and limestone chips. They are performed as a routine maintenance activity on gravel roads that have previously had a limestone chip seal performed on them. The treatment is reapplied approximately every 4 years to maintain the integrity of the previous investment. Many years ago, these treatments were used on gravel roads as an interim dust control method and/or to control erosion of gravel road segments with steep hills. In recent years, the aggregate has been changed to river rock for increased durability. The name "Limestone Chip Seal" is now a bit of a misnomer.

Preservation Chip Seal is a surface treatment using Iron Mountain Trap Rock, a very hard and durable rock, that provides a wearing surface and traction. The heavy application of asphalt emulsion oil, that is the other ingredient in this process creates a very robust barrier between the pavement and the environment, limiting the deteriorating effects of sunlight and moisture.

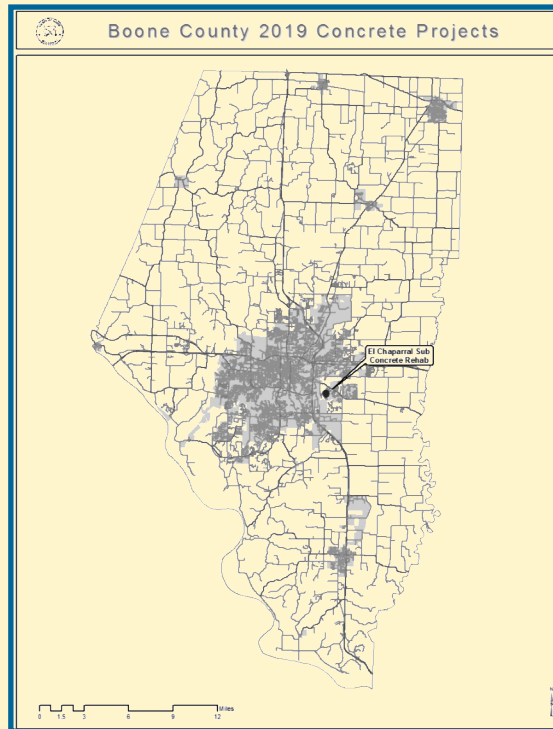


Concrete Rehabilitation

Concrete Pavement Management

The management of concrete roads is much different than asphalt roads. Concrete roads are a rigid pavement that tend to stay in good condition for a long time, then fail very quickly. Due to the properties of the material, the idea of low-cost, preventative maintenance treatments is not applicable. In prior years Boone County's management of its concrete roads focused on the systematic replacement of failed panels through either targeted panel replacements (individual panels in many locations) or rehab projects (numerous panels concentrated in a single area). Rehab projects consist of the removal of existing concrete pavement and replacement with full depth asphalt pavement. Conversion from concrete to asphalt allows those road segments to be included in our asphalt pavement preservation program.

Bi-annually, Boone County Resource Management staff inspect and rate each individual panel making up the concrete roadways of the Boone County network. Each panel is mapped and given a rating of "Good", "Damaged", or "Replace." Staff analyzes this data to determine the best repair strategy, spot repair or complete removal and replacement.



Concrete Rehabilitation

2019 Highlight Project Recap

El Chaparral Subdivision Street Rehab

As of 2018, the El Chaparral subdivision had approximately 40% of its concrete panels labeled as “Damaged” and 12% labeled as “Replace.” Numbers of “Damaged” and “Replace” panels at this level indicate that spot repairs, or only replacing what needs to be replaced, will not improve the overall condition of the road and therefore may not be the best use of resources. El Chaparral has undergone several spot repair operations over the years, yet was still less than 50% “Good.” It was decided the best long-term solution would be to remove and replace the streets of El Chaparral through a street rehab project.

Traditionally, the County has dedicated funds for an annual rehab project of roughly 10,000 square yards of pavement, or \$1 million. The El Chaparral project was approximately 53,000 square yards. Using traditional funding levels and methods, construction in El Chaparral would have been 4-6 separate projects taking 4-6 years. Effecting the residents for that length of time, as well as the possibility of different contractors and fluctuating prices for material and labor quickly became problematic. County staff requested, and the County Commission approved, additional funding so El Chaparral could be bid as a single project. The goal of having one project was to hopefully realize an economy of scale, provide a more consistent final product and disrupt the daily lives of the neighborhood residents for a shorter period of time..



Concrete Rehabilitation

2019 Highlight Project Recap

El Chaparral Subdivision Street Rehab

How to deal with a project of this size became an important focal point during discussions in the early planning stage. Looking at the contractor's time to complete past rehabs, it appeared El Chaparral would take at least two construction seasons. Normally, when the County bids a project we give a specific number of days allowed to complete the work. Since every potential contractor has different resources and strategies, choosing a one-size-fits-all contract time seemed dubious for El Chaparral, given the County's goal of delivering a timely and economic project. Therefore, the decision was made to require contractors to submit their own number of working days as part of the bid with a cap of 260 working days (roughly two seasons). County staff created an equation to evaluate the different costs and timelines of the bids to help determine the best value.

After the bids were opened, Emery Sapp & Sons, Inc. submitted the bid with the lowest cost at \$3,295,071.55, and the lowest number of working days at 80 working days. The results of the bidding were viewed as a win-win with cautious optimism., given 80 working days seemed a very aggressive schedule.



Streets in the El Chaparral Subdivision
prior to the construction project

Concrete Rehabilitation

2019 El Chaparral Subdivision Street Rehab

Construction began in late April 2019. Progress in the beginning was slow due to bouts of wet weather. However, as the weather began to dry, progress hastened. Like most construction projects, issues did arise requiring additional attention and money. The most frequent issue was the underlying soil being weaker than anticipated in localized areas. These spots were handled by removing more of the soil and installing a thicker base rock section than what was designed. Even with these difficulties the contractor was able to keep production high and finished the project ahead of the scheduled 80 days.



Various areas within El Chaparral Subdivision



Concrete Rehabilitation

2019 El Chaparral Subdivision Street Rehab

The new roads of El Chaparral consist of a thick base rock layer and a standard 8" thick asphalt pavement. Asphalt pavement was selected for many reasons. The two most important in this instance are:

- 1) Speed of installation and reduced time until pavement can be opened to traffic.
- 2) Asphalt has many quick and inexpensive treatment options to keep a good pavement in good condition, such as crack fillers, surface seals, chip seals, and mill & overlay.

Both are very important when working in an established neighborhood where there is a desire to keep inconvenience to the residents minimal.

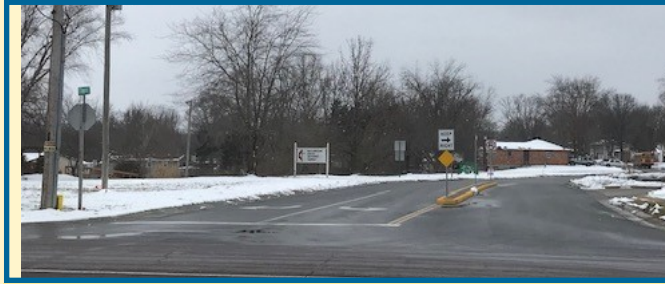
Tracking the pavement's condition and applying these treatments is called pavement preservation. The County has had an asphalt pavement preservation program in place for approximately 8 years, and El Chaparral will now be part of this program. Lastly, asphalt has value in being one of the most recycled materials, both on and offsite, meaning if the pavement condition does deteriorate beyond the scope of pavement preservation treatments, options exist such as Hot In Place Recycling, Cold In Place Recycling, or Full Depth Reclamation to turn the existing pavement to a like new pavement without leaving the site. If the asphalt is removed and taken back to an asphalt plant, the millings can be incorporated into new pavement elsewhere. In fact, the mixes used in El Chaparral were 20% recycled asphalt pavement. All these factors combined make asphalt an attractive long-term investment.

El Chaparral Street Rehab Project

Total Project Budget	\$4,250,000.00
Final Contract Amount/Cost	\$3,374,253.59
Actual Project Savings Realized	\$875,746.41

Concrete Rehabilitation

2019 El Chaparral Subdivision Street Rehab



Entrance to El Chaparral Subdivision



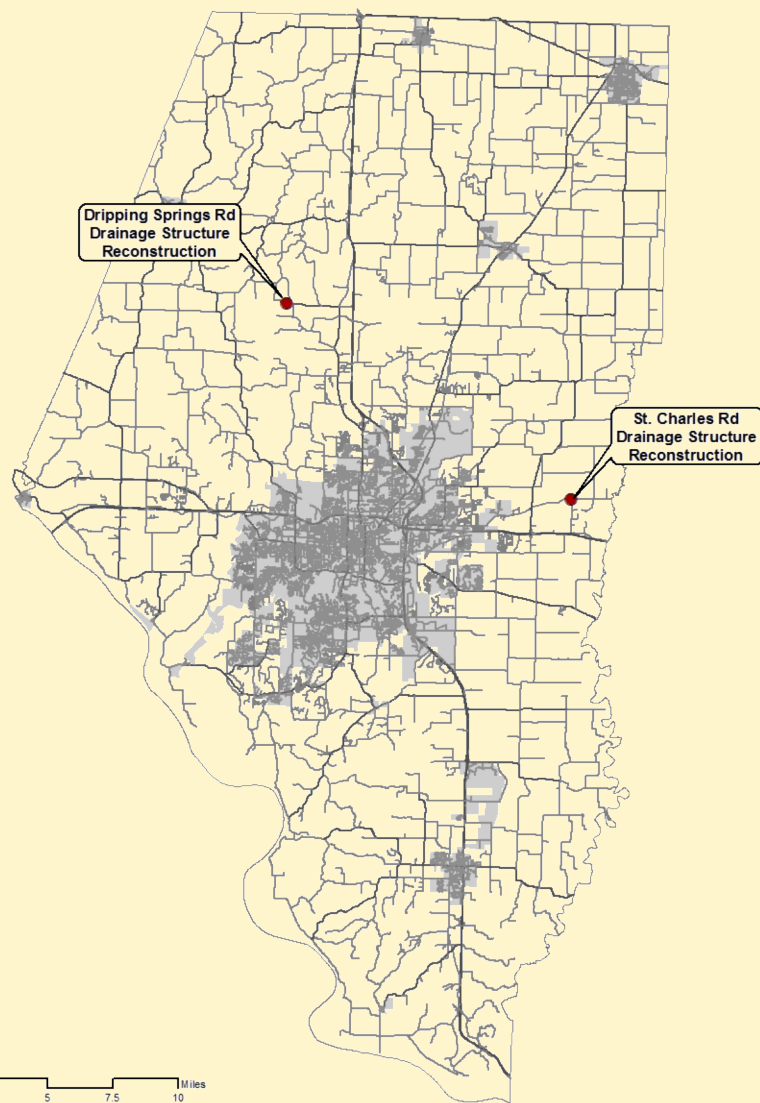
Various roads within
El Chaparral Subdivision



Drainage Structures



Boone County 2019 Bridge Projects



Drainage Structures

PROJECT INFORMATION SHEET

Dripping Springs Road Bridge Replacement

Project Location:

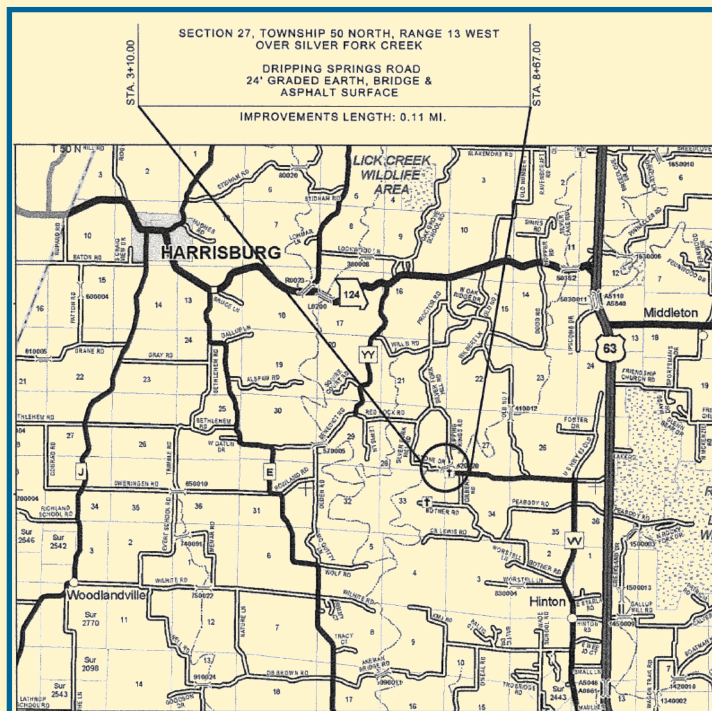
On Dripping Springs Road just north of the intersection with Stone Drive.

Project Overview:

Construction of a 124 foot long, concrete deck on precast concrete girder span bridge.

Project Explanation:

Replaces deficient, load restricted span bridge constructed in 1977.



Dripping Springs Bridge Replacement
construction cost \$545,729.36

Drainage Structures

PROJECT INFORMATION SHEET

East St. Charles Road Bridge Replacement

Project Location:

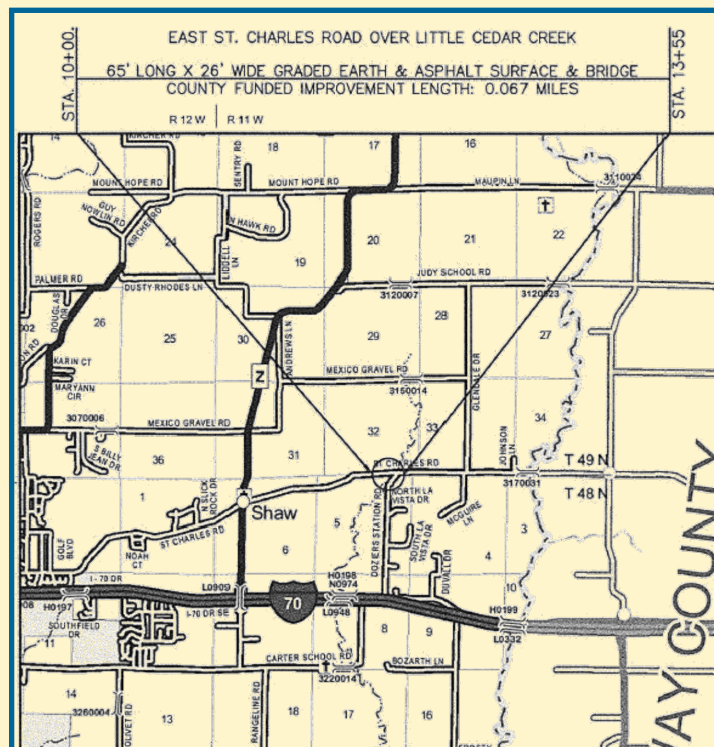
On East St. Charles Road just west of the intersection with Dozier's Station Road.

Project Overview:

Construction of a 65 foot long, concrete deck on steel girder, span bridge.

Project Explanation:

Replaces deficient, multi-barrel culvert structure to provide better flow characteristics and catch less debris.



E St. Charles Bridge Replacement
construction cost \$339,698.45



Requirement #2

Submit a plan for construction, reconstruction, maintenance and repair of existing established public highways, roads, bridges, and culverts proposed to be undertaken and completed during the current year.

**Fiscal Year 2020
Plan**

FY2020 Work Plan

Road & Bridge Revenue Yearly Comparison

Revenues by Source – Road & Bridge Fund (Major Fund)

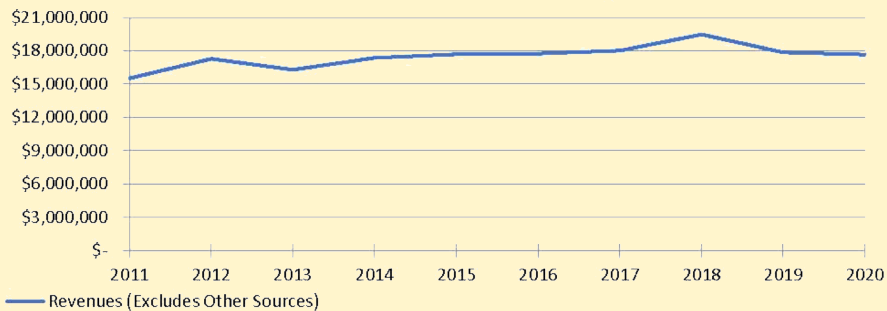
	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual
Property Tax	\$ 1,293,422	\$ 1,338,822	\$ 1,360,971	\$ 1,435,135	\$ 1,449,860
Sales Tax	12,148,480	12,605,385	13,149,084	13,754,107	14,017,758
Motor Vehicle Sales Tax	375,538	413,881	428,153	478,831	508,312
County Aid road Tax	1,161,133	1,165,665	1,161,599	1,207,067	1,233,074
Intergovernmental	173,793	668,990	71,397	30,684	228,034
Charges for Services	284,230	1,054,408	78,538	341,568	129,040
Interest & Other	83,348	16,583	20,117	99,792	99,198
Total	\$ 15,519,944	\$ 17,263,734	\$ 16,269,859	\$ 17,347,184	\$ 17,665,276

	2016 Actual	2017 Actual	2018 Actual	2019 Estimated	2020 Budget
Property Tax	\$ 1,506,835	\$ 1,542,304	\$ 1,577,547	1,648,040	\$ 1,683,100
Sales Tax	14,270,107	14,322,240	14,215,362	13,967,000	13,722,000
Motor Vehicle Sales Tax	508,987	534,408	526,497	520,000	515,000
County Aid road Tax	1,246,749	1,255,175	1,229,266	1,215,000	1,225,000
Intergovernmental	38,716	132,025	1,554,369	48,652	124,570
Charges for Services	35,054	34,170	32,559	37,254	37,965
Interest & Other	115,961	174,186	307,549	392,215	335,325
Total	\$ 17,722,409	\$ 17,994,508	\$ 19,443,149	\$ 17,828,161	\$ 17,642,960



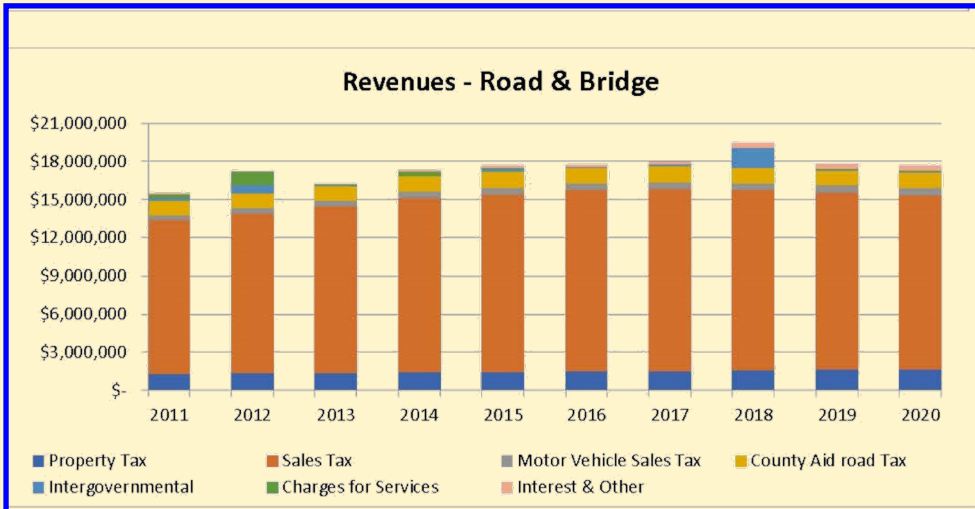
- ◆ 2018 Revenue includes \$1,516,384.95 reimbursement on a Federal Grant
- ◆ Total New Revenue for 2018 was \$17,926,764.00

Revenues - Road & Bridge

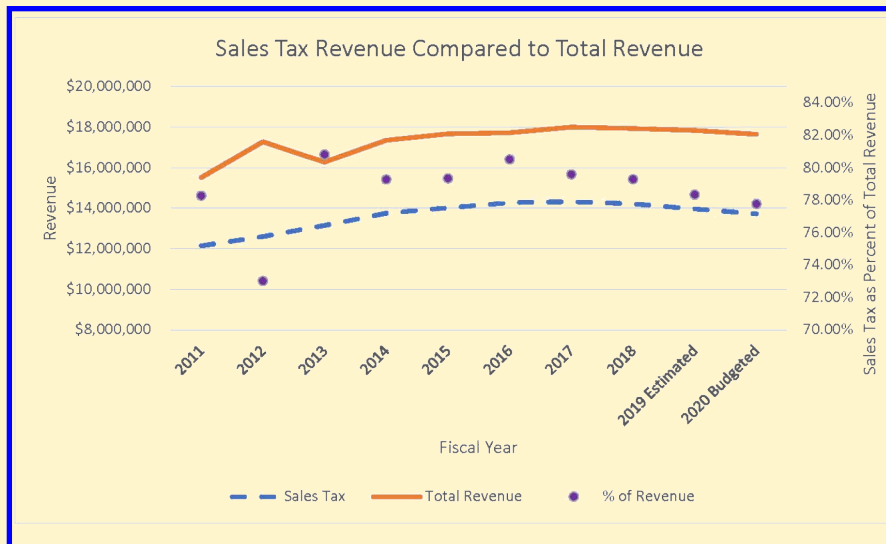


FY2020 Work Plan

Road & Bridge Revenue Yearly Comparison



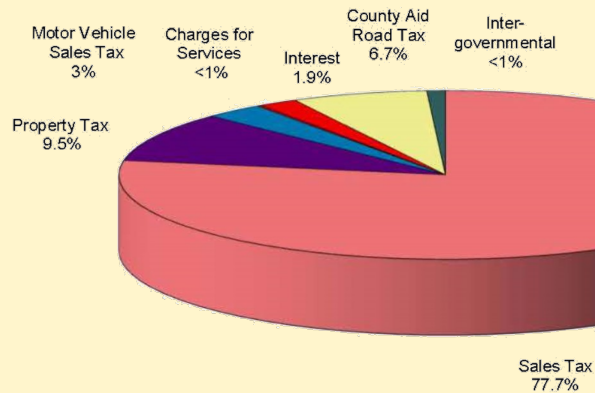
As noted in the chart below Sales Tax is the largest source of revenue to fund Road & Bridge projects. As that funding level decreases, and costs increase, it will be difficult to maintain the same level of service.



FY2020 Work Plan

Road & Bridge Revenue By Source

Where The Money Comes From - Total Revenues
Road & Bridge Fund



What The Money Is Used for

Property Tax Distribution	\$ 290,100
Sales Tax Distribution	2,847,300
Maintenance	8,037,057
Infrastructure Preservation/Rehab	7,315,000
Design & Construction	1,263,616
Stormwater Administration	130,873
Administration	675,000
Facility Repair & Replacement	150,000
Insurance Activity	20,000
CART/MV Distribution to Road District	87,000
Other	194,188
Total Expenditures	\$ 21,010,134
Total Other Financing Uses	-
Total Financial Uses	\$ 21,010,134

FY2020 Work Plan

Asphalt Rehabilitation Projects

There are currently no asphalt rehabilitation projects under consideration

Capital Improvement Projects

There are currently no capital improvement projects under consideration

Concrete Rehabilitation Projects

There are no current plans for individual panel replacements.
Boone Industrial Rehabilitation is in the final design-easement acquisition phase and planned for construction in 2020.

Drainage Structure Projects

Olivet Road Bridge #BR3410003 and Hartsburg Bottom Road Bridge #BR4010004 are in the conceptual planning-preliminary design phase, and planned for construction in 2021.

New Haven Road Bridge #BR3430024 & Water's Edge Stormwater Improvements Phase II are in the final design-easement acquisition phase and planned for construction in 2020.

Bass Lane culvert replacement final design plans are complete and proposed to be replaced by the Road and Bridge Department in 2020.

Pavement Preservation Projects

These projects are currently under design and proposed to be constructed in 2020:

- ◆ 63,350 sq. yds. of Asphalt Overlay
- ◆ 288,300 sq. yds. of Preservation Chip Seal
- ◆ 415,800 sq. yds. of Surface Seal



Requirement #3

**Report the general condition of
all established public
highways, roads, bridges and
culverts in the county.**

**Fiscal Year 2019
Condition**

Condition of Boone County Maintained Roads, Bridges & Culverts

The following charts are based on information stored in Cartegraph, the County's database program. These values are for only non-retired roads that are currently maintained by Boone County. Roads that are partially owned by the County but not maintained by the County are not considered in these values. The categories are also based on surface types, with the exception of Preservation Chip Seal, which is considered the same as an asphalt surface and is therefore included in the Asphalt category in these stats.

Surface Type	Total Miles	Percent of Total Road Network	Change in Total Miles from 2018
Asphalt	205.97	26.71%	+2.47
Concrete	23.29	3.02%	-3.21
Limestone Chip Seal	75.45	9.79%	+1.75
Gravel	466.29	60.48%	-.51
Total	771.0	100%	+.5

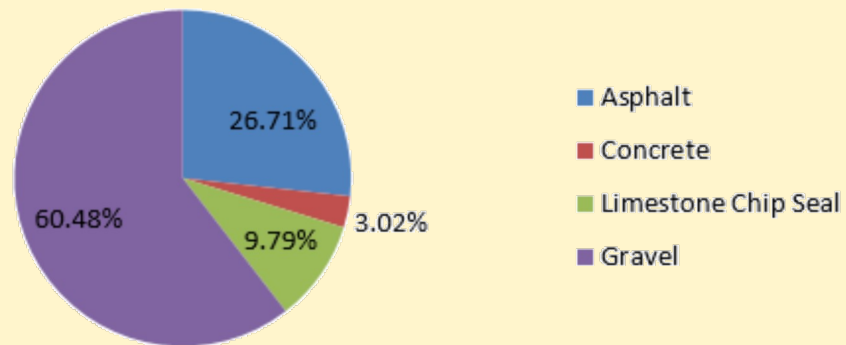
**Total miles of county maintained road changes due to: acceptance of new roads built by someone other than Boone County, annexations, change of surface type (asphalt over concrete roads), our new maintenance agreement with the City of Columbia for roads that are accessed by both County and City properties and error corrections.



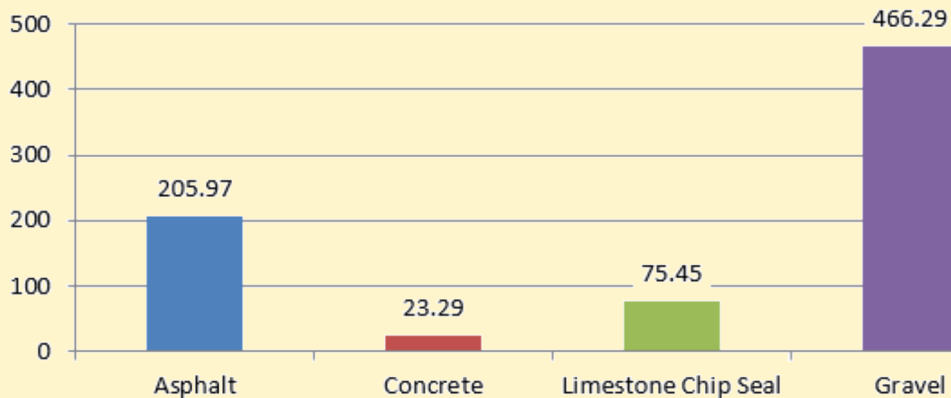
Condition of Boone County Maintained Roads, Bridges & Culverts

Total Miles of Road Maintained by Boone County

Percent of Total Road Network



Boone County Pavement Types (In miles)



Condition of Boone County Maintained Roads, Bridges & Culverts

2019 Asphalt Surface Ratings

Records pertaining to asphalt roads are identified by segment, from one specific point to another. Information used to assign scores for each asphalt road segment is obtained using several different methods. Boone County uses 1) visual inspection of a segment, 2) work performed on a segment and 3) weighted averages for normal use of a segment. These assessments are entered in Cartegraph where they are combined to generate the grade or condition of each segment based on established curves. The following values are used for the classes:

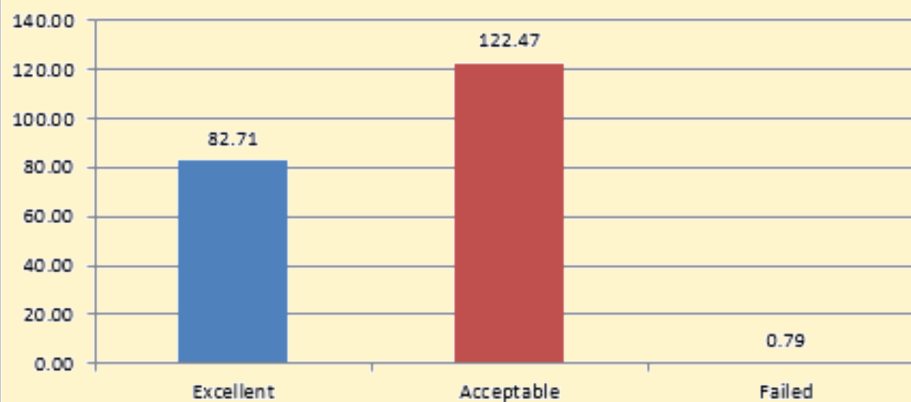
OCI = Overall Condition Index

Excellent = any value 85 and above

Acceptable = any value between 55 and 85

Failed = anything less than 55

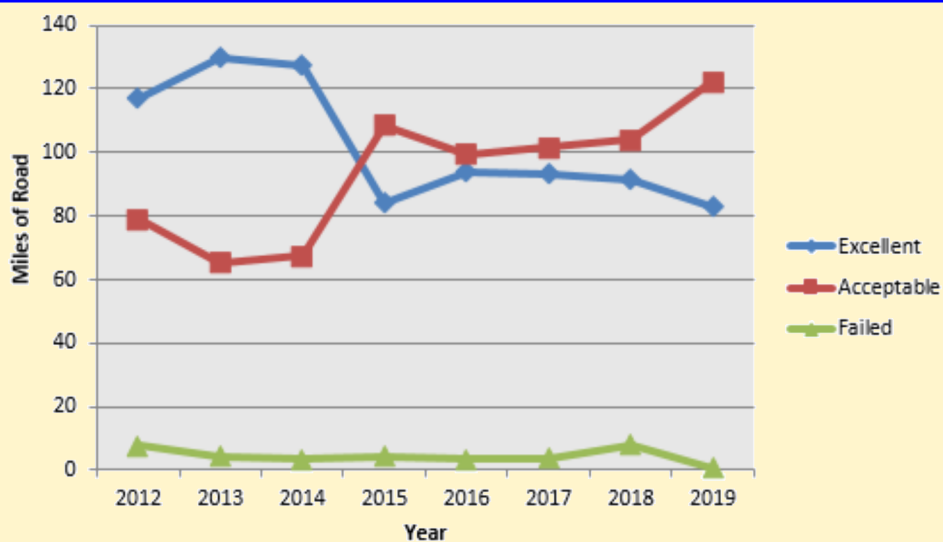
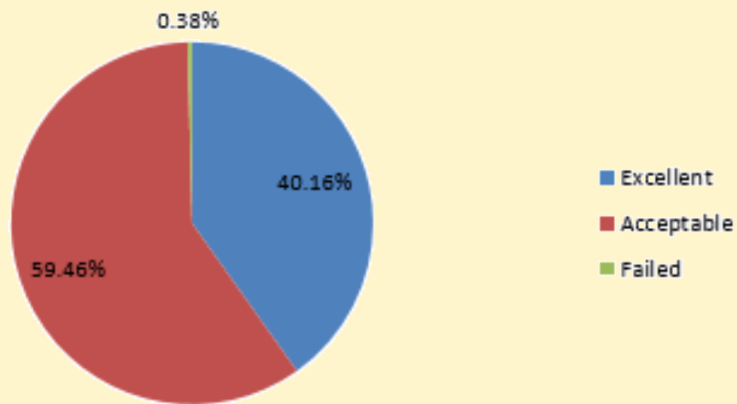
Asphalt Pavement Length (In miles)



Condition of Boone County Maintained Roads, Bridges & Culverts

2019 Asphalt Surface Ratings & Asphalt Rating Comparison 2012-2019

Percent of Total Asphalt



Condition of Boone County Maintained Roads, Bridges & Culverts

2019 Concrete Panel Ratings

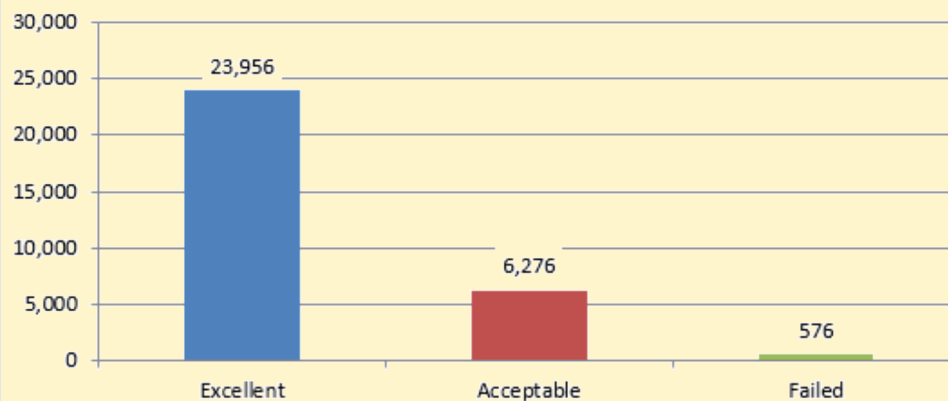
Concrete roads are a rigid or non-flexible pavement and cannot be evaluated using the same criteria used for asphalt roads. Concrete roads are inspected by each individual panel. The ratings in these graphs are based on panels in each category, and not in road miles.

Excellent = panel has no damage

Acceptable = panel has minor damage

Failed = panel needs to be replaced

Concrete Pavement Panels



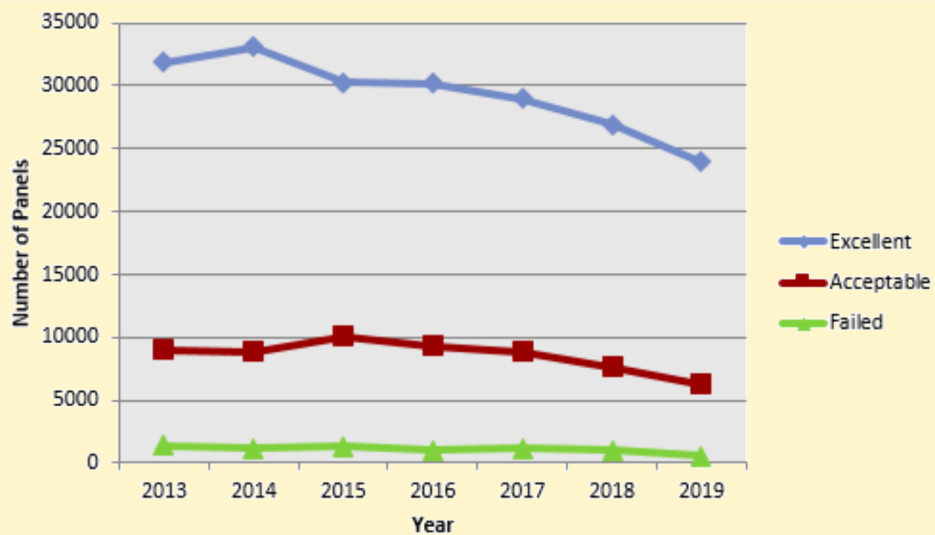
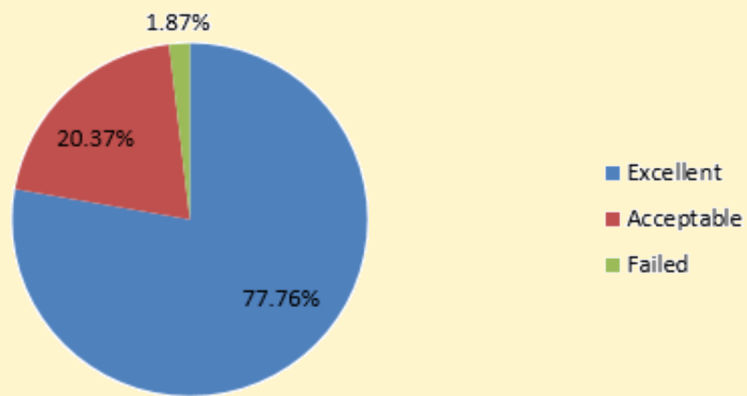
Flexible vs Rigid Pavement

Both flexible and rigid pavements are composed of fine aggregate, coarse aggregate, and a binder. In flexible pavements the binder is generally a bituminous asphalt type material. In rigid pavements the binder is generally a Portland cement type material. The job of both binders is to 'bind' the other ingredients together. As the name suggests, flexible pavements are designed to flex a certain amount as load is applied to it and share its load with a base material designed for that purpose. Rigid pavements are designed to remain rigid and spread the load over a larger area.

Condition of Boone County Maintained Roads, Bridges & Culverts

2019 Concrete Panel Ratings & Concrete Panel Rating Comparison 2013-2019

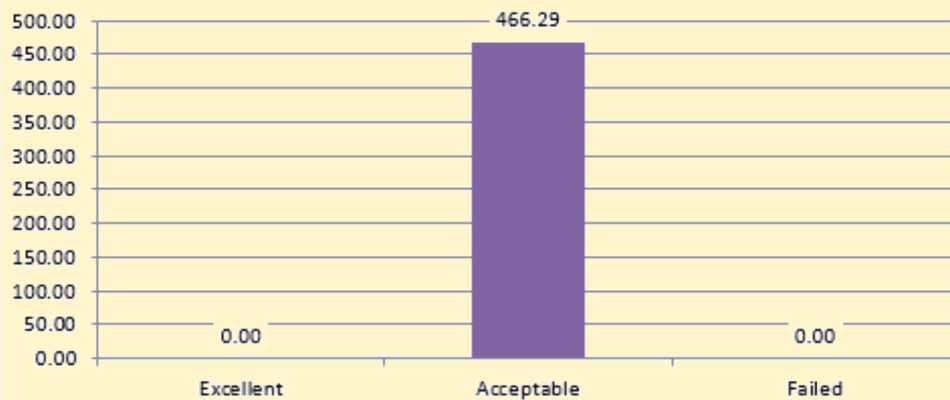
Percent of Total Concrete



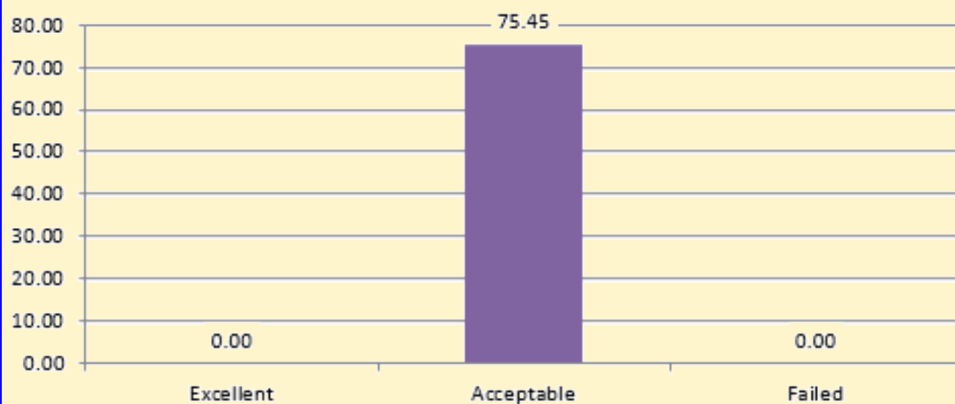
Condition of Boone County Maintained Roads, Bridges & Culverts

2019 Gravel Roads & 2019 Limestone Chip Seal Roads

Gravel Pavement Length (In miles)



LCS Pavement Length (In miles)



Condition of Boone County Maintained Roads, Bridges & Culverts

2019 Bridge Ratings

Many types of structures are referred to as bridges. However, only bridges that meet the minimum size requirement of 20 feet in length are inspected by MoDOT. The ratings and figures provided on the next pages are based on material obtained from MoDOT inspections, and only refer to bridges inspected by MoDOT. State inspections are performed every other year with the most recent inspections completed in 2019.

From the MoDOT inspections, the deck condition, substructure condition, and superstructure condition are rolled into an average value based on a 0—100 scale. Cartegraph generates the bridge rating value. The standards listed below are used for the rankings:

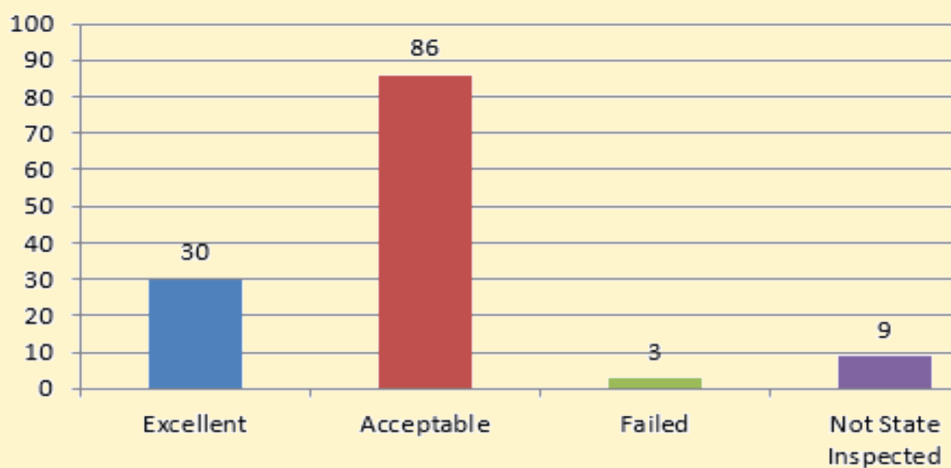
Excellent is an OCI of 75 and above

Acceptable is an OCI between 50 and 75

Failed is an OCI less than 50

OCI = Overall Condition Index

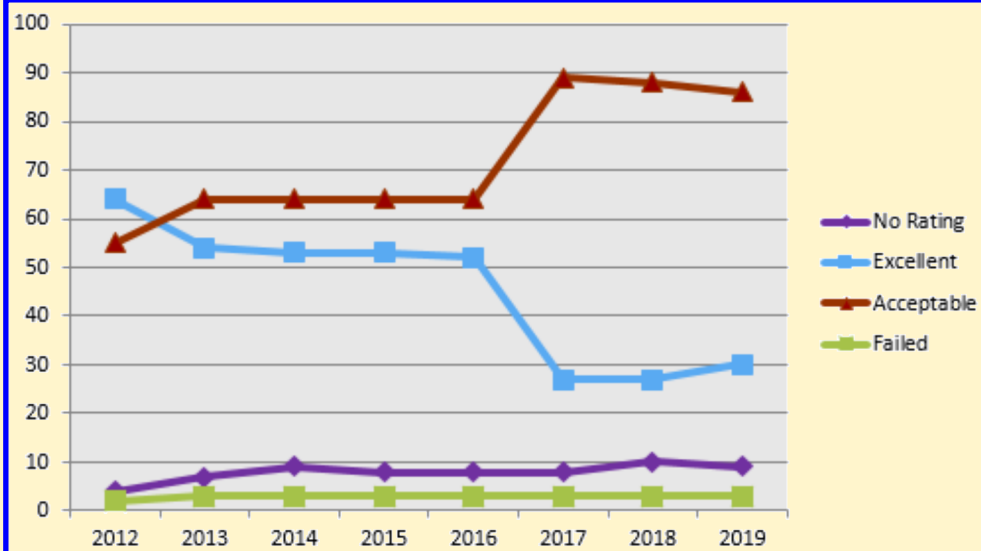
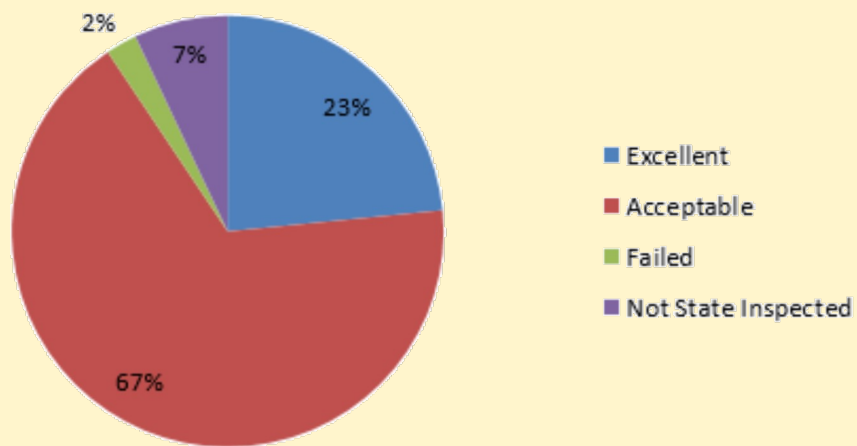
Number of Structures



Condition of Boone County Maintained Roads, Bridges & Culverts

2019 Bridge Ratings & Bridge Rating Comparison 2012-2019

Percent of Total Bridges





Additional Duties

- ◇ Surveying
- ◇ Right of Way
- ◇ Stormwater
- ◇ Sales Tax Distribution

Fiscal Year 2019

A d d i t i o n a l R e s p o n s i b i l i t i e s 2 0 1 9 S u r v e y i n g

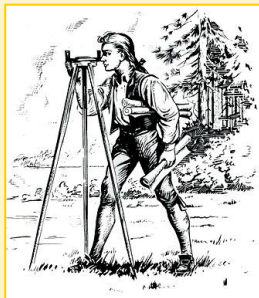
Assistance to County Staff

- * Assisted Road and Bridge Maintenance and Operations personnel by providing a variety of surveying services and right-of-way and easement information as necessary.
- * Assembled topographic data for the preparation of plans for projects.
- * Assisted right-of way personnel by staking easements (both temporary and permanent) for reviewing proposed plans, and assisting them when meeting and negotiating with property owners on proposed projects. At times, accompanying right-of-way personnel to those meetings.
- * Assisted Planning & Building Inspections Departments with complete reviews of all plats of proposed Subdivisions and Administrative Surveys, submitting comments and suggestions to the Planning Department, and notifying the surveyors of those comments and suggestions. Additionally, all descriptions for granting easements for public roadways and for utilities were reviewed. (these are required when preparing many of the administrative surveys)

Additional Responsibilities 2019 Surveying

Assistance to the Public

- * Represented Boone County Road and Bridge at concept reviews held by the Boone County Planning Department for review of upcoming developments.
- * Responded to the many requests that Boone County receives from property owners, title companies, realtors, other governmental agencies, surveyors and engineers, and others regarding existing road rights-of-way.
- * Responded to 4 inquiries for NID's. None, to date, have applied for County assistance.
- * Completed placing permanent monuments in the position of selected corners of the Public Land Survey System (Section and $\frac{1}{4}$ Section Corners) as part of the Missouri Department of Agriculture County Surveyor Co-op Program. The County was paid \$300 per corner.



Additional Responsibilities 2019 Right of Way

In addition to the preservation and improvement of Boone County roads and bridges, another task shared by Resource Management Engineering Division and Road and Bridge is the maintenance of Boone County Right of Way. The County's priority is to ensure proper site distance and drainage on County roadways. A few of the tools employed in the upkeep of Boone County Right of Ways are:

Right of Way Permits are issued when excavation takes place in a Boone County owned or maintained right-of-way. Excavation in this context is defined as work that results in the alteration or damage of the road surface, drainage ditches, curbs and gutters or other drainage structures, traffic control devices, or county maintained pedestrian walkways within the road right-of-way. Excavation also includes actions which physically undermine the structural integrity of the road base, road drainage, traffic control devices, or pedestrian walkways within the right-of-way. **51 Right-of-Way permits were issued and inspected in 2019.**

Driveway Permits are issued for new or upgraded driveways that are connected to a County maintained road. Some types of upgrades that require a permit are: converting an existing gravel driveway to a paved surface, resurfacing an existing driveway, installing a larger culvert, and widening a driveway. **121 Driveway permits were issued and inspected in 2019.**

Additional Responsibilities 2019 Right of Way

Adopt-A-Road: the purpose of the adopt-a-road program is to promote citizen involvement and participation in improving our environment and preserving the natural beauty of Boone County roadways. Volunteers help maintain attractive roadsides by picking up litter along Boone County roadways. Below is the list of the current adoptions:

Road Name	Organization Name
Rangeline Road	OTSCON, Inc.
Creasy Springs Road	Momma T's Family
Dodd Road	Dodd Road Beautification
St Charles Road	Wettershaw Manor
Nebo Cemetery Road	Friends of Hugh Hodler
Crump & Martin Lanes	Ashland FFA
David Allen Road	David Allen Road Neighborhood
Easley River Road	Missouri River Relief
Gans Road	The Horses of Gans
Gillespie Bridge Road	Friends of Gillespie Bridge Road
Glendale Drive	Two Mile Prairie Neighbors
Judy School Road	Two Mile Prairie Neighbors
Mauler Road	Friends of Mauler Road
Obermiller Road	Boone County Republican Party
Old Highway 63 South	Ashland United Methodist Church
Old Plank Road	The River Folk of Cooper's Landing
Rock Quarry Road	Range Free Bakery & Cafe
McQuitty Lane	Hootie Hill Farms
Olden Road	To Honor Roscoe & Lucreta Olden (by Brenda & Mark Rowland)
Rowland Road	To Honor Newt & Beulah Rowland (by Brenda & Mark Rowland)

A d d i t i o n a l R e s p o n s i b i l i t i e s 2 0 1 9 S t o r m w a t e r

Boone County Stormwater Mission Statement

Establish stormwater management requirements and controls to enhance and protect water quality, reduce stormwater pollutant runoff, and protect and safeguard the general health, safety, and welfare of the public residing in watersheds within Boone County.

What is stormwater?

Stormwater is any water coming from precipitation. It may be rain, water from snowmelt, or water that runs off streets, parking lots, lawns, and other surfaces. Stormwater drains into natural or manmade drainage systems, such as ditches and storm sewer inlets. Neither the natural, nor the manmade drainage ways connect to the wastewater treatment plant; instead, the water is discharged directly to our streams and rivers.

What is Boone County doing to address stormwater runoff?

Boone County is jointly permitted with the City of Columbia and University of Missouri in accordance with the Stormwater Phase II Final Rule requirements specified in section 4.1.4 of the site-specific permit MO-0136557 for discharges from small regulated Municipal Separate Storm Sewer Systems (MS4s), as well as per state regulation 10 CSR 20-6.200 and federal

A d d i t i o n a l R e s p o n s i b i l i t i e s 2 0 1 9 S t o r m w a t e r

What is Boone County doing to address stormwater runoff? Continued

regulations 40 CFR Parts 9 and 122. To fulfill its permit requirements, Boone County has implemented six (6) Minimum Control Measures (MCM), which are expected to help significantly reduce pollutants into receiving waterbodies. These MCM's cover public education and outreach, public involvement, illicit discharge detection and elimination, construction site stormwater runoff control, post-construction stormwater management in new development and redevelopment, and pollution prevention/good housekeeping for municipal operations.

On the following pages you will see the activities Boone County Stormwater participated in during 2019 as we worked to address stormwater runoff and achieve our mission.



As you read you will see many references to Enviroscape and stream table. The stream table is shown in the photo to the left, and gives an interactive view of how streams function in the natural environment. The Enviroscape is a similar tool that shows how pollution travels through the environment.

Additional Responsibilities 2019 Stormwater

Public Education and Participation:

- ♦ **Guest Speaker: Hallsville 4-H:** Boone County Stormwater presented to the Hallsville 4-H club about stormwater and watersheds. Attendees completed the "Who Polluted the Stream" activity and discussed what could be done to prevent stormwater pollution.
- ♦ **Ashland FFA:** Boone County Stormwater presented the "Who Polluted the Stream" activity. Students drew and wrote about how they could clean streams and what could be done to prevent pollution from reaching streams.
- ♦ **Southern Boone 2nd Grade:** The Stormwater Educator and Coordinator lead a presentation over how streams form and function using the stream table. Students also took part in an interactive activity to show how humans affect waterways and what can be done to improve water quality.
- ♦ **Columbia Kindergarten Classes:** The Stormwater Educator visited 27 Columbia Public School kindergarten classrooms, using the Enviroscape to show different sources of pollution and how rain can carry them into our waterways, and showing what actions can be taken to prevent pollution.



Additional Responsibilities 2019 Stormwater



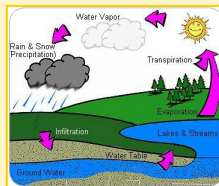
- ♦ **Guest Speaker: Centralia 5th Grade:** The Stormwater Educator spent the day presenting about stream pollution sources. The students then created a "solution to the pollution."
- ♦ **Southern Boone FFA:** Amy Meier from Missouri Stream Team gave a lesson over macroinvertebrates and how bugs reflect water quality, preparing them for a Stream Team water quality testing event held later in the spring.
- ♦ **Columbia Young Scientists Expo:** Boone County Stormwater hosted a booth at the CYS Expo. The booth had a display focusing on stormwater, water quality testing, and karst topography. The Enviroscape was used to show different sources of pollution and how rain can carry them into our waterways.
- ♦ **Boone County Soil & Water Conservation District's Cover Crops Workshop:** The Urban Hydrologist hosted a booth about the Greater Bonne Femme project at this workshop, where attendees could learn more about the project and water quality in Boone County.
- ♦ **Guest Lecturer: Moberly Area Community College:** The Stormwater Coordinator guest lectured for the Conservation Biology Class at the MACC Columbia campus, focusing on the history of stormwater and stormwater in Boone County.

Additional Responsibilities 2019 Stormwater

- ♦ **Engineer and Contractor's Lunch and Learn: Procedures for Working in Karst Topography:** Boone County's Chief Engineer presented on Boone County's stormwater ordinance requirements for engineering and building in environmentally sensitive areas, clarifying stream buffer zones, stormwater management, and erosion control requirements. The county's Urban Hydrologist presented about how karst topography found in the county influences our streams and watersheds, and how our ordinances help protect these sensitive environments.
- ♦ **Engineer and Contractor's Lunch and Learn: Karst Topography and its Impact on Construction:** Eric Lindholm P.E, a local engineer with Crockett Geotechnical Testing Lab, gave a geologic background and several case histories of "new" sinkholes and their impact on projects under construction.
- ♦ **Greater Bonne Femme Watershed Land Management Workshop - Spring:** property owners within the Greater Bonne Femme Watershed attended the all-day workshop. They learned about the pre-history of the area, history of water quality monitoring in the watershed, conservation easements, importance/establishment of native plants, forest management, cost-share availability, services available from University Extension, DIY BMPs, and how to identify and treat invasive plants.
- ♦ **Guest Presenter: Mid-MO Expo: Small Farm to Backyard Garden:** The Urban Hydrologist presented at the Mid-Mo Expo.

Additional Responsibilities 2019 Stormwater

- ♦ **The Incredible Missouri River Event at the Daniel Boone Regional Library:** Boone County partnered with Missouri River Relief to host a program focusing on watersheds, stormwater, and the Missouri River. People who attended had the opportunity to see how water shapes a stream by using the stream table and had a chance to touch a boat.
- ♦ **Guest Presenter: Ashland Learning Garden:** Over two days, the educator gave presentations explaining stormwater and watersheds, completing the "Who Polluted the Stream" activity.
- ♦ **Earth Day:** Boone County Stormwater presented an interactive participation activity using the Boone County stream table at the annual Earth Day celebration on ECO Avenue, demonstrating the effects of watershed erosion, pollution, and civic responsibility. A second booth featured ongoing projects in the Greater Bonne Femme Watershed.
- ♦ **Ashland Learning Garden: A Day at the Stream:** 5th-grade students from Southern Boone County R-1 attended the "A Day at the Stream" at Harts Creek in Hartsburg. Students went on a native plant/erosion nature walk, tested stream velocity and talked about stream dynamics, learned about macroinvertebrates as indicator species for water quality, and performed a dissolved oxygen test on a water sample.



Additional Responsibilities 2019 Stormwater

- ♦ **Missouri River Days:** The Stormwater Educator aided Missouri River Relief in taking 4th graders from Columbia Public Schools on the Missouri River.



- ♦ **Centralia R-VI 6th Grade:** Boone County Stormwater presented a 4-day program using the stream table to teach stream functions and formation and leading an activity on watershed practices and civic responsibility. This program served 6th grade students.
- ♦ **Guest Presenter: Missouri Master Naturalists:** The Urban Hydrologist gave a presentation about the water quality in Boone County to the local Missouri Master Naturalists chapter.
- ♦ **West Middle School 3M Wetland Tour:** The Urban Hydrologist and Stormwater Educator aided the City of Columbia's Stormwater Educator, facilitating a day at the 3M Wetlands located alongside Hinkson Creek. Students were divided into different groups and rotated through 4 activities.
- ♦ **Columbia Home Educators 3M Wetland Tour:** Members of the Columbia Home Educators Club came to the 3M Wetlands to learn about managing stormwater and methods to improve the water quality of our local streams. Students learned about the creation of different types of wetlands and how they function.

Additional Responsibilities 2019 Stormwater

- ♦ **Cruise the Creeks:** Riders enjoyed an educational bike ride along the MKT trail, highlighting the City of Columbia's efforts to improve water quality in the Flat Branch/Hinkson Creek watersheds. The tour was led by the City of Columbia and Boone County's Stormwater Educators and Boone County's Urban Hydrologist.
- ♦ **Guest Presenter: Earth Keeper Kids:** This event was held at the 3M Wetlands, and used the Enviroscape to show runoff pollution from nonpoint sources and different methods for stream pollution reduction practices. Visitors also learned about constructed wetlands, the different parts of the 3M Wetlands and how they work.
- ♦ **Southern Boone Middle School 3M Wetland Tour:** Southern Boone County 6th and 7th-grade summer school classes visited the 3M Wetlands to learn about stormwater management and improving water quality of local streams. The students learned about wetland construction and how wetlands function.
- ♦ **STEMette Summer program:** Boone County Stormwater, the City of Columbia, and the University of Missouri worked in partnership teaching about watersheds and water quality testing techniques. Students were given a challenge to design and build a device to remove pollutants from the water.



Additional Responsibilities 2019 Stormwater

- ♦ **Boone Electric Annual Meeting:** The Boone County Stormwater Educator supplied an informational booth on the county's stormwater program and provided interactive activities for the attendees and their children. The Urban Hydrologist provided information about the Greater Boone Femme Project.
- ♦ **Rock Bridge Memorial State Park Water Festival:** Boone County Stormwater took part in the 5th annual Water Festival at Rock Bridge Memorial State Park.
- ♦ **Guest Speaker: City of Columbia Energy and Environment Commission:** The Urban Hydrologist and Stormwater Coordinator attended the August Energy and Environment Commission meeting, and the Urban Hydrologist gave a presentation about stormwater runoff into creeks in Columbia.
- ♦ **Job Point/Youth Build:** Boone County Stormwater assisted Missouri River Relief with a field day on the Missouri River for Job Corps and Youth Build. The stream table was used to show stream function and erosion processes.
- ♦ **Leadership Training for 4-H:** The Stormwater Educator was a guest speaker during the Ashland 4-H officer's leadership training and talked about stormwater stewardship and how students can have a positive impact on watersheds.



Additional Responsibilities 2019 Stormwater

- ♦ **Sturgeon Soil Science Class:** The high school soil science students created models showing soil compaction and how different types of soil and structure have an impact on infiltration and runoff rates.
- ♦ **Snowpalooza:** The Stormwater Educator presented during the City of Columbia's Public Works educational event regarding the impact of road salt on our waterways.
- ♦ **Guest Panelist: MU School of Natural Resources Aquatic Ecology:** The Urban Hydrologist was a guest panelist for a presentation on aquatic ecology in the University of Missouri's School of Natural Resources.
- ♦ **Watershed BINGO:** The Stormwater Educator hosted a Watershed BINGO at the Southern Boone Library, highlighting the Greater Bonne Femme Watershed and stormwater best management practices.
- ♦ **Greater Bonne Femme Watershed Land Management Workshop-Fall:** property owners attended an all-day workshop focusing on Soil Health. The topics included cover crops, wildlife food plot management, pest control, conservation easements, and soil diversity.

Through these programs the Boone County Stormwater team members were able to have direct contact with over **3400** Boone County Residents!



Additional Responsibilities 2019 Stormwater

Public Involvement Opportunities

- ◆ First Day Hike on Deer Run Trail at Rock Bridge Memorial State Park
- ◆ Farm and Fiddle Radio Show to discuss water quality monitoring at Rock Bridge Memorial State Park
- ◆ 2 - KFRU Boone Femme Watershed Project Discussions
- ◆ Water Quality Monitoring on Jemerson Creek with Ashland FFA
- ◆ 3 - Storm Drain Marking Events in Ashland
- ◆ 2 - Rock Bridge Renew Clean Up Events
- ◆ 2 - Rock Bridge Memorial State Park Water Quality Monitoring Events
- ◆ Area-wide Household Hazardous Waste Collection
- ◆ Audubon Nature Walk on Grindstone Trail
- ◆ Audubon Nature Walk in Capen Park/Greenbelt Land Trust nature preserve
- ◆ Spring Brook Trail Hike at Rock Bridge Memorial State Park
- ◆ 7 - Rock Bridge Memorial State Park Interpretive Tours

Additional Responsibilities 2019 Stormwater

Training Opportunities for County Staff

- ♦ **Webinars:** several webinars hosted by EPA, USDA, Source Molecular, AWRA, RCPP and US Fish & Wildlife covering a wide range of topics such as Water Related Terrorism, Water Quality Modeling, Harmful Algal Blooms & Algal Toxin Treatment, etc.
- ♦ **Special Handling Training:** The Urban Hydrologist and Educator attend a workshop illustrating how to handle illegal and/or dangerous materials that can be found while leading Stream Team cleanups.
- ♦ **Burn Workshop:** The Stormwater Educator attended a workshop about how to plan and execute a controlled burn.
- ♦ **Mid-MO Soil Health Seminar:** The Stormwater Coordinator, Educator, and Urban Hydrologist attended this 2-day seminar in Boonville learning about cover crops and grazing techniques to improve water quality.
- ♦ **LMVP Sampling Training:** The Stormwater Educator and Coordinator were taught the proper method for collecting and processing samples for the Lake Monitoring Volunteer Program.
- ♦ **Mental Health First Aid:** The Stormwater Educator attended this workshop to learn how to identify, understand, and respond to signs of mental illness and substance abuse disorders.

Additional Responsibilities 2019 Stormwater

- ♦ **Project WET and Aquatic WILD:** The Stormwater Educator attended this training focusing on science education methods and water education curriculum for teachers to explain water resources to youth.
- ♦ **Boone County Wellness Fair:** Boone County Stormwater presented an interactive participation activity using the Boone County Enviroscape to show the effects of watershed erosion, pollution, and civic responsibility to approximately 80 employees and their family members.
- ♦ **Rock Bridge Memorial State Park Cave Institute:** The Stormwater Educator is a member of the Cave Institute, learning about the interaction of surface water and karst topography, cave animals, water quality testing, mapping cave passages, and finding answers to other questions about this fascinating underground world.
- ♦ **REGFORM:** Stormwater staff attended Missouri REGFORM to learn about EPA stormwater rulings and other stormwater-related topics.
- ♦ **Boone County Soil & Water Conservation District Pasture Walk:** The Stormwater Educator and Urban Hydrologist attended a pasture walk at a farm in Boone County.

Additional Responsibilities 2019 Stormwater

- ♦ **Boone County Family Fun Day:** The Stormwater Educator hosted a mural painting activity, facilitating the discussion of human impact on water bodies and aquatic life. Approximately 25 employees and their family members contributed to the painting
- ♦ **MWEA:** Stormwater staff attended MWEA in September to learn about stormwater practices and stormwater-related topics currently in use throughout the state.
- ♦ **NAAEE Conference:** The Stormwater Educator attended the annual North American Association for Environmental Education, which emphasized workshops about curriculum development, environmental literacy, connecting with nature, sustainable communities, link research and practice to increase impact.
- ♦ **Boone County Stormwater Inspector Training:** Boone County stormwater provided refresher training to nine staff members on ordinance enforcement, inspection procedures, and best management installation and maintenance requirements.
- ♦ **Safety Day – Boone County Road & Bridge:** The Boone County Stormwater Coordinator gave a presentation on erosion and sediment control. Employees were given a chance to take part in a game and win prizes. This program served approximately 50 employees.

Additional Responsibilities 2019 Stormwater

- ♦ **MS4 Workshop: Intro to TMDLs and ARAPs; Nightingale Creek Case Study:** The Stormwater Coordinator attended a workshop hosted by the Missouri Department of Natural Resources to learn about Total Maximum Daily Loads and Assumptions and Requirements Attainment Plans.
- ♦ **Grow Native! Workshop: Native Plants for Pollinator Enhancement, Livestock Production & Prairie Strips within Row Crops:** The Urban Hydrologist learned how incorporating natives into agricultural practices and land for recreational uses can benefit farm revenues, livestock health, pollinators, soil health, water quality, and more. The workshop also featured information on NRCS cost-share programs.
- ♦ **AWRA Conference:** The Boone County Urban Hydrologist attended the American Water Resources Association Conference in Salt Lake City, UT. This weeklong conference featured lessons learned from the implementation of multidisciplinary projects, best practices discovered in the design and application of water resource management, implications of water policy decisions, and research into current and emerging issues.

Continuing education is a vital tool in helping Boone County Stormwater staff educate the public with the most up-to-date information on water issues and resolutions.

Develop/Distribute Educational Materials

-
- A large group of students, mostly wearing bright yellow safety vests, are posing for a group photo on a grassy lawn in front of a two-story house. Several students are holding wooden signs with the text "DON'T DRINK AND DRIVE" and "DRINKS TO STAY SAFE". One student in the back row is holding a large red balloon. The scene is set outdoors on a sunny day, with a red car parked on the driveway and trees in the background.

Additional Responsibilities 2019 Stormwater

Monitoring and Assessments

♦ **Bonne Femme Watershed Project:** The Bonne Femme Watershed Project is the revitalization and continuation of several projects from the past that sought to protect and conserve water quality in the Little Bonne Femme and Bonne Femme Watersheds in Boone County. In 2018, Boone County received a Chapter 319 subgrant award from the Environmental Protection Agency, through Missouri Department of Natural Resources to develop a 9-element watershed management plan for the Greater Bonne Femme Watershed. The grant period began August 1, 2018 and was scheduled to run through July 31, 2020. We will be asking for a time extension and budget increase in 2020.

a. **Technical Advisory Committee** met seven times.

b. **Monitoring:** Gauging Stations were set up at Turkey Creek and Hwy 63 S, Bonne Femme Creek at Nashville Church Rd, and Little Bonne Femme Creek at Woodie Proctor Rd. These stations continue to provide stage and temperature information.

c. Quarterly stormwater sampling at ten locations

d. E. coli testing is ongoing

e. **Cooperative Stream Investigation Project** - This project was completed in 2018. A final report from the Missouri Department of Natural Resources Coordinator was received in May 2019.

Additional Responsibilities 2019 Stormwater

♦ Lakes of Missouri Volunteer Program (LMVP)

Sampling: The LMVP started in 1992 as an effort to get citizens involved in the lake water quality monitoring. Staff at Boone County continued sampling at Stephens Lake, Tri City Lake, and Lick Creek Lake this season. Staff collected four (4) samples between June and September. By participating in this effort, Boone County receives free sampling equipment and information on the status of the lakes in Boone County. The goals of the LMVP are:

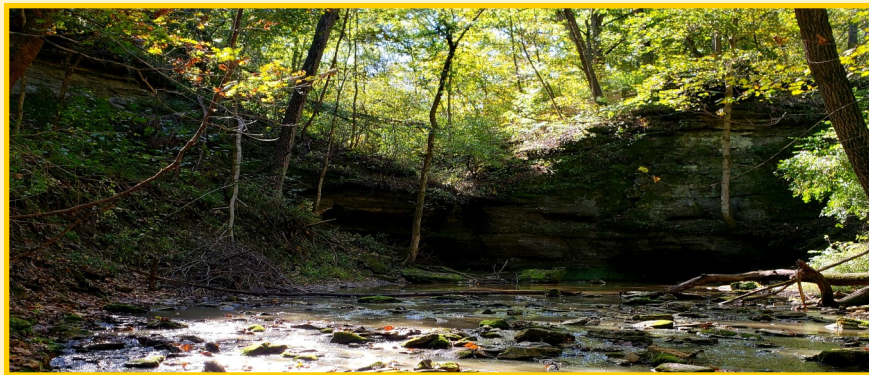
- a. Determine the current water quality based on productivity of Missouri's lakes,
- b. Monitor for changes in water quality over time,
- c. Educate the public about the lake ecology and water quality issues.

For more information, visit www.LMVP.org.



Additional Responsibilities 2019 Stormwater

- ♦ **Boone County Stormwater Stream Team:** The Boone County Stormwater Team actively participates in the Missouri Stream Teams program. In 2019, our team monitored water quality on Bonne Femme Creek, Turkey Creek, Little Bonne Femme Creek, the Devil's Icebox Spring Branch, Silver Fork Creek, Cedar Creek, and Lick Fork Creek. Normally, streams are monitored for nutrients four times per year, and macroinvertebrate sampling is conducted twice per year. Due to high precipitation and flooding conditions in 2019, stream water quality data would not have been representative so there were far fewer rounds of sampling. We hope for stream conditions to be relatively normal in the coming water year so we can resume monitoring on all our sites and a few sites as the need arises. The Stream Team data become part of the larger dataset managed by the Missouri Stream Teams program.



Additional Responsibilities 2019 Stormwater

- ♦ **Hinkson Creek Collaborative Adaptive Management:** The goal of the collaborative adaptive management process is to improve water quality in Hinkson Creek by using a science-based approach guided by a local stakeholder committee. It will assess the entire stream system, including the creek and other parts of the watershed. Improving the ecosystem should help support the return of the biological community to a fully functioning level as well as addressing other pollutants that may be contributing to water quality issues.
 - a. **Stakeholders** - met five (5) times.
 - b. **Action Team** - met twelve (12) times.
 - c. **Science Team** - met ten (10) times.
 - d. **Riparian Subcommittee** - met five (5) times.
 - e. **Habitat Assessment** - Physical Assessment is 100% complete. Spatial analysis is ongoing.
 - f. **Forum Nature Area Level Spreader** - Construction and monitoring are 100% Complete
 - g. **Evaluation of the Missouri River Backwater Effects** - 100% done
 - h. **Combined Flow & Suspended Sediment Study** - 100% Complete
 - i. **Fine Sediment Mapping** - 100% done. Data analysis is pending.

Additional Responsibilities 2019 Stormwater

j. **Macroinvertebrate Study** - Ongoing

k. **Synoptic Sampling** - Sampling began using MU students in 2019. Funding was approved in 2019 to continue sampling for 2 additional years.

l. **USGS Comprehensive Chemical Sampling** - Funding has been approved for this 1-year project. Sampling will begin in 2020.



Additional Responsibilities 2019 Stormwater

MS4 Compliance

Joint MS4 Coordination Meetings: Stormwater staff from Boone County, City of Columbia, and MU meet each month to coordinate and work on stormwater activities. This year the committee nine (9) times.

STORMWATER PROGRAM COMPLIANCE							
	Stormwater Prevention Plans Reviewed	Pre- Application Meetings Held	Land Disturbance Permits Issued	Stormwater Discharge Permits Issued	Pre-con Meetings Held	Site Inspections Conducted	Notice of Violation Issued
2011	19	21	15	4	9	45	3
2012	17	4	17	4	5	47	0
2013	15	13	32	10	7	49	4
2014	15	4	24	6	6	28	2
2015	9	6	24	8	4	85	2
2016	14	10	44	14	12	184	11
2017	8	6	26	12	4	196	9
2018	11	12	39	19	7	231	12
2019	8	5	18	15	6	123	4

Stormwater Fact

Road salt (sodium chloride) is a chemical most commonly used to remove ice from roads, parking lots, and sidewalks. Just one teaspoon can permanently pollute five gallons of water. As snow and ice melt, the resulting water along with rain wash the salt from the road, flushing the salt into the storm drains, and contaminating surface water bodies. The salt can even make its way down into the groundwater.

City of Ashland

2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity:

City of Ashland

Reporting on Calendar Year:

2019

Narrative for use of funds received

The Boone County Road and Bridge Repair Fund provided the City of Ashland with \$157,000 in 2019. This is a \$700.16 increase over the amount provided in 2018. These funds have been used on a variety of different road improvement projects throughout town, to include culvert replacement, street patching, curb and gutter repairs, and gravel road improvements.

At this time, the majority of these funds (\$117,711.51) have not yet been utilized. These funds had been earmarked for the planned project of repaving the parking stalls in the 100-200 blocks of E Broadway. Unfortunately, this project had to be delayed due to MoDot cancelling their portion of the same project (milling and asphalt paving of the same stretch of roadway (Rt M).

The only bridge currently inside Ashland city limits that is maintained by the city is in the 400 block of Sarah Dr. Unfortunately, this bridge has recently began to show serious signs of deterioration. This bridge will be replaced within the next few months. The estimated cost of this project is approximately \$120,000. We anticipate utilizing this remaining \$117,711.51 of the Boone County Road and Bridge Repair Fund for the replacement of the Sarah Dr Bridge.

Narrative on overall condition of roads and bridges within reporting municipality:

Street conditions within Ashland City Limits are overall in good shape. The sole bridge in town maintained by the City of Ashland is in poor shape (Sarah Dr Bridge), but it will be replaced very soon. The growth of Ashland has led to increases in roadway miles annually for the last several years. These new streets are currently in great condition, but do require periodic maintenance. As with any growing community, we are experiencing significant increases in commercial and residential traffic, which leads to faster deterioration of our roadways.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

City of Ashland

2019 Annual Report

Projects with descriptions _

The following projects were funded with the 2019 Boone County Road and Bridge Repair Fund:

Angel Lane	\$29,018.00
-Replacement of culvert beneath roadway and improvements to culvert ends	
800 block S Henry Clay Blvd Repairs	\$7,747.50
-Installation of street patch with curb and gutter to repair and prevent future roadway undercutting and erosion of road base materials	
E. Loy Martin Rd	\$1,956.33
-Grading of road to remove damages/potholes, replacement of gravel on road surface	
Hunters Bend	\$566.66
-Grading of road to remove damages/potholes, replacement of gravel on road surface	

The following project will funded with the 2019 Boone County Road and Bridge Repair Fund:

Sarah Dr Bridge Replacement	~\$120,000.00
-Replacement of bridge deck, abutments, and entrances due to severe deterioration	

ROAD & BRIDGE ANNUAL SUMMARY REPORT

Page 2

Report Summary

The projects completed thus far with funds from the Boone County Road and Bridge Repair Fund total \$39,288.49. This leaves \$117,711.51 still available of the funds received. These unexpended funds are planned to be utilized during the replacement of the Sarah Dr Bridge. The total cost of these projects is estimated at approximately \$160,000.00. The City of Ashland will pay for the remaining costs, along with several other projects, through income collected through our local transportation tax.

The City of Ashland continues to experience significant growth of both population and city footprint. At any given time, there are multiple commercial and residential developments underway. This growth is not expected to diminish anytime soon. Accordingly, we are seeing increases in traffic, both commercial and

City of Ashland

2019 Annual Report

residential throughout the city. This sustained growth and increased traffic is leading to deterioration of roadways at a much faster rate than the city has experienced in the past. We are also increasing the number of roadway miles in town rapidly by adding these developments.

All of these issues lead to increases in annual roadway maintenance costs. As Ashland continues to grow, additional funding will be required each year to keep our streets in acceptable condition. Without the funds provided from the Boone County Road and Bridge Repair Fund, we would be forced to decrease the amount of projects and repairs significantly. This cooperative agreement is highly beneficial for both Ashland residents and Boone County residents, as Ashland is the hub of Southern Boone County. It allows for the timely completion of major road repairs, and leaves local transportation funding available for routine maintenance of city streets and smaller scale projects. City and county residents are able to easily recognize that both the City of Ashland and Boone County place a high priority on providing a safe and well-maintained transportation system.

The City of Ashland looks forward to continued cooperation between ourselves and the County of Boone to provide exceptional services to our tax payers.

TOTAL

~\$160,000

I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate.

Signature

1/27/2020

Date

Public Works Director

Title

James Creel

573-657-2568

Printed Name

Day Time Phone number

City of Centralia

2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: City of Centralia

Reporting on Calendar Year: 2019

Narrative for use of funds received The funds received went toward the annual overlay of streets which is detailed below, as well as the operation of the Street Dept. In addition to road maintenance, we replaced the curb and sidewalk around City Hall and the Police Dept.. In addition to the overlay, curb and sidewalk work, we filled potholes and conducted regular road maintenance.

Narrative on overall condition of roads and bridges within reporting municipality:

The City of Centralia conducts an annual review of the 37.55 miles of streets under our control. Each street is scored based on its condition, using a scale of 1-10, with 10 begin a functionally new road. The results were:

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions _See attached information. This report concerns the left-most column, Calendar year 2019. The other numbers are supplied for comparison.

Page 2

TOTAL

\$917,791.38

I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate.

Signature

12/17/2019
Date

City Administrator

Title

Heather Russell

573-682-2139

Printed Name

Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15th.

City of Centralia

2019 Annual Report

PUBLIC WORKS - HIGHWAYS AND STREETS

ACCOUNT NUMBER	ACCOUNT TITLE	CALENDAR 2019	CALENDAR 2018	FY2018-19 BUDGET	FY2018-19 AUDITED	FY2019-20 BUDGET
PLANNING & ADMIN						
01-311-6001	SALARIES & WAGES	7,916	7,914	7,852	7,584	8,470
01-311-6002	OVERTIME WAGES	1,185	995	1,282	1,052	968
01-311-6010	ACCRUED EMPLOYEE BENEFITS	5,942	5,814	5,366	5,306	6,397
01-311-6110	PRINTING, PUBLICATION	313	371	200	549	350
01-311-6120	DUES/MEMBER/SUBS/TUITION	234	-	50	-	50
01-311-6142	PROF. SERV. ARCHT. ENG	48,725	49,506	126,920	75,938	65,000
01-311-6150	CONTRACT LABOR	1,216	1,020	1,300	1,020	1,300
01-311-6170	MAINT. AGREEMENTS, LEASE	1,020	996	1,100	980	1,000
01-311-6180	MEALS, LODGING, TRAVEL	1,114	-	100	-	-
01-311-6201	OFFICE SUP. FURNITURE	-	-	-	-	-
01-311-6210	OPERATING SUPPLIES	348	321	300	327	350
01-311-6490	EQUIPMENT USE CHARGE	6,265	6,519	6,000	6,311	6,500
01-311-6905	COMMUNITY DEV BLOCK GRANT	6,265	-	-	-	-
01-311-5506	DATA PROCESSING EQUIP	-	-	-	-	-
SUBTOTAL		\$ 80,542	\$ 73,457	\$ 150,469	\$ 99,067	\$ 90,385
STREET MAINTENANCE						
01-312-5508	OTHER EQUIPMENT	33,934	-	-	33,934	-
01-312-6001	SALARIES AND WAGES	17,790	17,487	25,262	18,449	27,228
01-312-6002	OVERTIME WAGES	1,125	1,632	2,841	1,611	2,775
01-312-6010	ACCRUED EMPLOYEE BENEFITS	11,454	11,310	15,403	11,417	18,284
01-312-6110	PRINTING, PUBLICATIONS, AD	58	58	150	58	100
01-312-6132	UTILITIES-NATURAL GAS, PR	381	353	450	354	400
01-312-6150	CONTRACT LABOR	2,341	5,301	1,200	5,301	5,500
01-312-6160	REPAIR SERVICE	19	19	300	19	300
01-312-6170	MAINT. AGREEMENTS, LEASES	-	-	300	-	-
01-312-6190	INSURANCE	-	-	-	-	-
01-312-6210	OPERATING SUPPLIES	30,411	28,802	17,500	23,638	23,500
01-312-6220	TOOLS/SMALL EQUIPMENT	243	257	200	257	300
01-312-6450	EQUIPMENT RENTAL	114	114	1,000	114	1,000
01-312-6490	EQUIPMENT USE CHARGES	3,111	26,145	18,000	35,206	25,000
SUBTOTAL		\$ 100,982	\$ 91,477	\$ 82,606	\$ 130,358	\$ 104,387
ALLEY MAINTENANCE						
01-313-6001	SALARIES AND WAGES	479	1,844	628	1,573	2,734
01-313-6002	OVERTIME WAGES	359	359	-	359	286
01-313-6010	ACCRUED EMPLOYEE BENEFITS	301	865	342	664	1,748
01-313-6210	OPERATING SUPPLIES	3,408	3,408	1,000	3,408	1,000
01-313-6450	EQUIPMENT RENTAL	-	-	-	-	-
01-313-6490	EQUIPMENT USE CHARGES	2,359	2,506	1,500	2,272	2,300
SUBTOTAL		\$ 6,907	\$ 8,982	\$ 3,470	\$ 8,276	\$ 8,068
SIDEWALK & PARKING LOT MAINTENANCE						
01-314-6001	SALARIES & WAGES	1,587	555	1,200	617	1,651
01-314-6002	OVERTIME WAGES	-	357	150	-	-
01-314-6010	ACCRUED EMPLOYEE BENEFITS	1,094	350	728	382	1,084
01-314-6110	PRINTING, ADV., PUBLICATION	243	-	-	-	-
01-314-6142	PROF. SERV. ARCHT. ENG. SURV	350	-	12,000	350	2,000
01-314-6150	CONTRACT LABOR	-	-	7,500	3,356	7,500
01-314-6160	REPAIR SERVICE	-	-	100	-	100
01-314-6170	MAINTENANCE AGREEMENTS & LEAS	-	-	-	156	160
01-314-6190	INSURANCE	-	-	-	1,208	1,250
01-314-6201	OFFICE SUPPLIES	-	-	-	-	100
01-314-6210	OPERATING SUPPLIES	6,536	2,082	7,500	1,230	7,500
01-314-6220	TOOLS/SMALL EQUIPMENT	-	-	-	-	300
01-314-6490	EQUIPMENT USE CHARGES	1,302	1,210	2,600	-	500
01-314-6730	SRTS SIDEWALK CONSTRUCTION	-	-	-	-	-
SUBTOTAL		\$ 11,111	\$ 4,553	\$ 31,778	\$ 7,299	\$ 22,145
STREET BUILDING & GROUNDS						
01-315-6001	SALARIES AND WAGES	2,374	2,722	3,475	1,802	2,529
01-315-6002	OVERTIME WAGES	-	-	185	-	-
01-315-6010	ACCRUED EMPLOYEE BENEFITS	1,583	1,982	2,750	1,148	1,665
01-315-6132	UTILITIES-NATURAL GAS, PR	1,640	1,552	1,900	1,441	1,500
01-315-6133	UTILITIES, TELEPHONE, FAX	1,405	1,241	550	1,165	1,200
01-315-6150	CONTRACT LABOR	1,611	3,247	400	3,241	2,000
01-315-6160	REPAIR SERVICES	165	-	-	-	-
01-315-6170	MAINT AGREEMENTS & LEASES	156	-	163	156	163
01-315-6190	INSURANCE	1,428	1,208	1,100	1,208	1,225

City of Centralia

2019 Annual Report

PUBLIC WORKS - HIGHWAYS AND STREETS

ACCOUNT NUMBER	ACCOUNT TITLE	CALENDAR 2019	CALENDAR 2018	FY2018-19 BUDGET	FY2018-19 AUDITED	FY2019-20 BUDGET
01-315-6201	OFFICE SUPP FURNITURE/EQU	57	-	100	-	100
01-315-6210	OPERATING SUPPLIES	2,754	1,435	1,500	1,230	1,500
01-315-6220	TOOLS/SMALL EQUIPMENT	455	351	300	-	200
01-315-6490	EQUIPMENT USE CHARGES	-	-	200	-	100
01-315-5510	BUILDING IMPROVEMENTS	-	-	-	-	-
SUBTOTAL		\$ 13,628	\$ 13,739	\$ 12,623	\$ 11,391	\$ 12,182
SNOW & ICE REMOVAL						
01-316-6001	SALARIES AND WAGES	6,239	3,870	3,800	7,706	4,808
01-316-6002	OVERTIME WAGES	8,335	2,824	1,800	8,666	4,012
01-316-6010	ACCRUED EMPLOYEE BENEFITS	5,550	3,912	3,875	6,474	4,762
01-316-6160	REPAIR SERVICE	75	-	200	-	200
01-316-6210	OPERATING SUPPLIES	14,605	11,619	10,000	14,213	15,000
01-316-6490	EQUIPMENT USE CHARGES	18,134	7,477	7,000	10,698	10,500
SUBTOTAL		\$ 52,938	\$ 29,702	\$ 26,675	\$ 47,757	\$ 39,282
STREET & SIGN MAINTENANCE						
01-317-6001	SALARIES AND WAGES	5,136	4,137	2,755	4,284	6,986
01-317-6002	OVERTIME WAGES	63	232	30	232	311
01-317-6010	ACCRUED EMPLOYEE BENEFITS	3,586	3,323	2,015	2,914	4,595
01-317-6150	CONTRACT LABOR	40	-	150	-	150
01-317-6160	REPAIR SERVICE	-	-	-	-	-
01-317-6210	OPERATING SUPPLIES	3,419	3,739	5,000	3,839	5,000
01-317-6220	TOOLS/SMALL EQUIPMENT	-	-	-	-	-
01-317-6490	EQUIPMENT USE CHARGES	239	384	1,400	289	500
SUBTOTAL		\$ 12,483	\$ 11,815	\$ 11,350	\$ 11,558	\$ 17,542
STORM DRAINAGE						
01-318-6001	SALARIES AND WAGES	46,625	24,822	-	22,808	28,313
01-318-6002	OVERTIME WAGES	470	241	615	513	395
01-318-6010	ACCRUED EMPLOYEE BENEFITS	25,856	18,496	12,550	16,644	18,626
01-318-6142	PROF.SERV.ARCH.ENG. & SUR	8,523	8,523	12,000	8,523	5,000
01-318-6150	CONTRACT LABOR	-	1,298	1,000	-	1,000
01-318-6170	MAINT AGREEMENTS & LEASES	-	-	-	-	-
01-318-6210	OPERATING SUPPLIES	28,330	16,975	20,000	10,165	15,000
01-318-6220	TOOLS/SMALL EQUIPMENT	33	-	100	-	100
01-318-6450	RENTAL	-	-	4,000	-	2,000
01-318-6490	EQUIPMENT USE CHARGES	3,333	2,716	6,000	2,923	3,200
01-318-5509	MISCELLANEOUS CAPITAL	-	-	8,000	-	12,000
01-318-6901	MISCELLANEOUS	-	-	-	-	-
SUBTOTAL		\$ 113,170	\$ 73,070	\$ 64,265	\$ 61,576	\$ 85,634
BRUSH & TREE CONTROL						
01-319-6001	SALARIES AND WAGES	5,589	4,216	3,050	4,915	6,490
01-319-6002	OVERTIME WAGES	50	433	2,230	450	550
01-319-6010	ACCRUED EMPLOYEE BENEFIT	3,590	2,841	3,850	3,075	4,231
01-319-6160	REPAIR SERVICE	-	-	50	-	50
01-319-6170	MAINT AGREEMENTS & LEASES	-	-	-	-	-
01-319-6210	OPERATING SUPPLIES	200	91	800	75	500
01-319-6490	EQUIPMENT USE CHARGE	806	621	1,300	574	650
SUBTOTAL		\$ 10,235	\$ 8,203	\$ 11,280	\$ 9,089	\$ 12,471
TOTAL		\$ 401,996	\$ 314,998	\$ 394,516	\$ 386,371	\$ 392,096
CAPITAL SUMMARY						
29-300-5509	CAPITAL EXPENDITURES	515,795	210,752	789,000	208,153	781,542
TOTAL ALL EXPENDITURES		\$ 917,791.38	\$ 525,750.46	\$ 1,183,516.42	\$ 594,524.00	\$ 1,173,638.00
REVENUES						
29-041-4020	TRANSPORTATION SALES TAX	191,506	205,428	215,000	212,850	210,000
29-043-4330	COBG GRANT REVENUE	-	-	-	-	-
29-043-4350	COUNTY GRANT REVENUE	73,561	77,979	79,000	77,979	70,000
01-043-4304	COUNTY ROAD & BRIDGE	64,534	66,121	65,000	66,121	65,000
TOTAL ALL REVENUES		\$ 329,599.89	\$ 349,528.06	\$ 359,000.00	\$ 356,950.00	\$ 345,000.00

Centralia Special Road District

2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity:
Centralia Special Road District of Boone County Mo.

Reporting on Calendar Year:
2019

Narrative for use of funds received :

Routine maintenance of roadways within the District including hauling gravel and blading of unpaved roads, replacing road pipes, cutting brush and mowing right of way as needed. Also did overlay projects on March Road and North Jefferson Street and applied concrete millings along the shoulders of Jay Jay

Narrative on overall condition of roads and bridges within reporting municipality:

The overall condition of the gravel roads in the District are considered to be in average or better condition.

The condition of the blacktop roads are average to good with about 10% of the blacktops needing to be overlaid.

The bridges are in average condition considering their age.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions:

1. Hauled \$87,225.84 of rock on un-paved roads.
2. Overlaid March Road and North Jefferson Street at a cost of \$142,750.18.
3. Had double yellow centerline applied to March Road and North Jefferson Street for \$828.16.
4. Hauled concrete millings and applied to shoulders along Jay Jay for \$7,587.60.

Page 2

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\$238,391.78

Signature Anthony Kendrick

Signature

12/20/2019
Date

Treasurer
Title

Anthony Kendrick
Printed Name

573-881-2169

Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15th.

City of Columbia

2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: City of
Columbia _____

Reporting on Calendar Year: 2019

Narrative for use of funds received The City of Columbia will be using the funds for the FY20 construction of Nifong: Providence to Forum 4 lane widening project and maintenance to Walnut: College to Old 63.

Narrative on overall condition of roads and bridges within reporting municipality:

The City of Columbia maintains 1389.9 lane miles of streets and 44 bridges/structures that span a minimum of 20 feet. The City's street network is currently inspected on a 3 cycle, which means 1/3 of the streets within the City are inspected every year using the PASER rating system. The City's current overall average PASER rating is a 6.70. The City's 44 bridges and structures are inspected by MoDOT and City staff every 2 years. Of the 44 structures, 38 were rated as Not Deficient, 2 were functionally deficient, and 4 were structurally deficient.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions _There were no allocation or expenditure of funds in FY19. We will be using the funds for the FY20 Nifong: Providence to Forum 4 lane widening project and doing maintenace on Walnut: College to Old 63. This will be presented in the FY20 report.

Page 2

City of Columbia

2019 Annual Report

City of Columbia
County Road Tax Rebate -06503
Cash Balances

	Sept 30 2010	Sept 30 2011	Sept 30 2012	Sept 30 2013	Sept 30 2014	Sept 30 2015	Sept 30 2016	Sept 30 2017	Sept 30 2018	Sept 30 2019
Cash Balance Forward	265,992.58	431,429.52	-	1,569,924.31	1,810,343.41	406,396.32	427,395.55	61,405.99	1,194,278.00	621,936.46
Receipts:										
County Road Tax Rebate from Boone County	1,649,278.62	1,657,714.81	1,874,958.65	1,915,419.10	1,996,052.91	2,463,125.23	2,269,974.44	2,230,372.01	2,310,158.46	2,320,817.85
Investment Income	29,677.32	14,403.90	-	-	-	-	-	-	-	-
Total Receipts	1,678,955.94	1,672,178.71	1,874,958.65	1,915,419.10	1,996,052.91	2,463,125.23	2,269,974.44	2,311,778.00	1,504,436.46	2,348,754.31
Disbursements:										
Transfer to Fund 400 (Capital Projects):										
C00128 Maguire Blvd	-	-	-	-	-	-	-	-	-	-
C00241 Mexico Gravel Rd	(1,400,000.00)	-	1,369,965.66	-	-	-	-	-	-	-
C00149 Scott Blvd	-	-	-	-	-	-	-	-	-	-
C00320 Rolling Hills Road	(1,400,000.00)	-	-	(311,666.00)	-	-	(828,464.00)	(75,000.00)	-	-
C00319 Scott - Vawter to MKT PH II	(590,183.23)	-	(1,675,000.00)	(1,363,314.00)	(3,400,000.00)	(2,042,126.00)	(100,000.00)	(500,000.00)	(382,500.00)	-
C00274 Scott-Vawter to KK III	-	-	-	-	-	-	(110,000.00)	(116,500.00)	-	-
C00248 Fairview/Chapel Hill Int	-	-	-	-	-	-	(110,000.00)	(75,000.00)	-	-
C0031 Old Mill C&V/Vawter Int Int	-	-	-	-	-	-	(110,000.00)	(116,500.00)	-	-
C00234 Forum & Green Meadows Int	-	-	-	-	-	-	(110,000.00)	(116,500.00)	-	-
C00243 Nifong-Pratt to Forum 4 Ln	-	-	-	-	-	-	(110,000.00)	(116,500.00)	-	-
C00244 Sineclair-Old Mill C&V-Nifg	-	-	-	-	-	-	(110,000.00)	(116,500.00)	-	-
C00245 Vandiver & Parker RoundAB	-	-	-	-	-	-	(110,000.00)	(116,500.00)	-	-
Transfer to Fund 110 (General Fund)	(113,425.00)	(113,425.00)	-	-	-	-	(67,500.00)	(331,000.00)	-	-
Total Disbursements	(1,513,425.00)	(2,107,400.23)	(705,034.34)	(1,675,200.00)	(3,400,000.00)	(2,042,126.00)	(2,635,964.00)	(1,117,500.00)	(2,882,500.00)	-
Cash Balance @ Year End	431,429.52	-	1,569,924.31	1,810,343.41	406,396.32	427,395.55	61,405.99	1,194,278.00	621,936.46	2,348,754.31

City of Hallsville

2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity:
City of Hallsville

Reporting on Calendar Year:
July 1, 2018 - June 30, 2019

Narrative for use of funds received

The Road and Bridge Grant funding was used for the 2nd and last lease to purchase payment for the 2017 F550 Dump Truck & snow plow, sidewalk repair on North Street, sidewalk repair on Ricketts Road, sidewalk repair at the 4-way intersection, and gravel added to the road to the sewer lagoon.

Narrative on overall condition of roads and bridges within reporting municipality:

The asphalt streets are in good condition. The concrete streets in Meadows Ledge are in poor condition. RFP's were sent out and the funds received in November 2019 will not cover the cost. Future grants will be held back until work on those streets can be completed.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions

Carry over from fiscal year 2017/2018 was \$5,280.82 with an additional \$44,525.08 grant funding received in 2018. Projects funded from the grant for the fiscal year 2018/2019 included \$545.00 on repair to the sidewalk on North Street, \$1,487.50 on repair to the sidewalk on Ricketts Road, and \$538.65 on repair to the sidewalk at the 4-way intersection of Route B and Hwy 124 North. During the fiscal year \$3,629.92 worth of gravel was added to the road that goes out to the sewer lagoon. After the second (and last) lease to purchase payment was made on the 2017 F550 Dump Truck & snow plow for \$38,632.67, the Road and Bridge Grant Fund was left with a balance of \$4,972.16.

573-696-3885

Town of Harrisburg 2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity:

Town of Harrisburg

Reporting on Calendar Year:

2018

Narrative for use of funds received:

2013 through 2018 Street Project Funds are returned in a separate account to accumulate for a larger project

Narrative on overall condition of roads and bridges within reporting municipality:

Repairs to roads were made in 2019. Waiting for completion of Timberlake Subdivision to begin project to pave Hughes Road.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions

Accumulating funds in a separate ledger account. Awarded funds are listed below:

2013: \$12,839.36

2014: \$13,917.06

2015: \$13,107.22

2016: \$13,386.73

2017: \$13,458.21

2018: \$10,792.55

Town of Harrisburg 2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

Page 2

Expenditures occurred in 2019 and will be reported
on that report.

TOTAL

0

I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate.

Kathy Wilhite

Signature

1-22-2020

Date

Clerk

Title

Kathy Wilhite

Printed Name

573-874-0138

Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15th.

Village of Hartsburg

2019 Annual Report

Report not yet received

City of Rochestort

2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity:

City of Rochestort

Reporting on Calendar Year:

2018-2019

Narrative for use of funds received

Second St Project

Narrative on overall condition of roads and bridges within reporting municipality:

Fair condition

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions

- *Second St Project - included
Pavement widening from Pike St to Ward St
including curb, gutters, alley apron - 4"
Type 5 aggregate base.*

*Project also included resurfacing the
Park basketball Court, including 2" B P -
overlay with crack cleaning and sealing*

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15th.

City of Sturgeon

2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity:

City of Sturgeon

Reporting on Calendar Year:

2019-2020

Narrative for use of funds received

chip & Seal or overlay - would like to do overlay if we can follow a larger cities bid process

Narrative on overall condition of roads and bridges within reporting municipality:

Good with continuous maintenance

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions

- We are planning to bank \$43,104.95 until 2020-2021 calendar year, planning on doing overlays if we can follow behind Boone county or the city of Columbia or Moberly, ect. We have been spending money from 1/2 cent sales tax for cold mix, new signs and metal post, ect.

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15th.

City of Huntsdale

2019 Annual Report

Report not yet received

ROAD & BRIDGE ANNUAL SUMMARY REPORT

Village of Pierpont

2019 Annual Report

ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity:

Village of Pierpont

Reporting on Calendar Year:

2019

Narrative for use of funds received

Deposits in bank Draining interest for future projects

Narrative on overall condition of roads and bridges within reporting municipality:

Fair

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions

None

Page 2

Meet the Staff



From left: Justin Skouby, Infrastructure Inspector; Christina Crane, Administrative Coordinator; Darin Sapp, Infrastructure Inspector; Mark Donoho, Infrastructure Inspector; & Keith Austin, Chief Infrastructure Inspector



A combined 71
years of service
to Boone County
Citizens

M e e t t h e S t a f f



From the left: Kelle Westcott, Budget Administrator; Matt Thomas, Surveyor; Natalie Meighan, Right of Way Agent; & Aaron Garringer, Asset Management Technician

A combined 46
years of service to
Boone County
Citizens



Meet the Staff

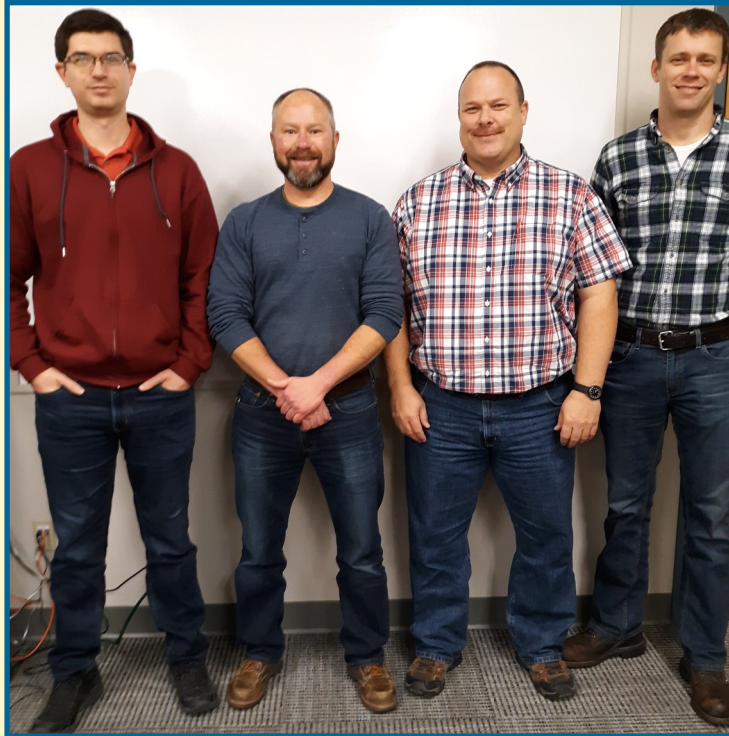


From left: Paula Evans, Administrative Coordinator; Nicki Fuemmeler, Stormwater Coordinator; Lynne Hooper, Urban Hydrologist & Michele Woolbright, Stormwater Educator.



A combined 37 years
of service to Boone
County Citizens

M e e t t h e S t a f f



From the left: Micah Taylor, Professional Civil Engineer; Pat Devaney, Professional Civil Engineer; Jeff McCann, Chief Engineer & Dan Haid, Professional Civil Engineer.

A combined 50 years of
Licensed Engineering

&

A combined 29 years of
service to Boone County
Citizens



Department Information



Mission



To provide a safe and modern transportation network constructed and maintained in a fiscally sound and environmentally responsible manner that is effectively coordinated with city, state and federal agencies.

Boone County Resource Management

801 East Walnut, Room 315

Columbia, MO 65201

Phone: 573-886-4480

Fax: 573-886-4340

E-mail: resmgt@boonecountymo.org

Responsibilities

- Contracted Construction Projects
- Contracted Pavement Preservation Applications
- Infrastructure Inspection
- Infrastructure Improvement

Boone County Road & Bridge

5551 S Tom Bass Road

Columbia, MO 65201

Phone: 573-449-8515

Fax: 573-875-1602

E-mail: PublicWorks@boonecountymo.org

Responsibilities

- Routine Maintenance: Bridge Deck Sealing, Vegetation Control, Crack Sealing & Snow Removal
- Culvert Clean Out & Replacement
- Gravel Road Maintenance

For information on projects, road closures and other activities look for us on the internet & facebook:

<https://www.showmeboone.com/resource-management>

<https://www.showmeboone.com/road-bridge>

www.facebook.com/pages/Boone-County-Missouri-Public-Works