



Fiscal Year 2011 Annual Report Boone County Road & Bridge

A cooperative effort between
Engineering Division of Resource Management
and Public Works Maintenance Operations

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 Public Works – Maintenance Operations & Boone County Resource Management – Engineering Division.

Road & Bridge 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.

Annual Report Requirements

- Report general condition of County roads & bridges
- Report money expended on construction & maintenance of County roads & bridges in prior year
- Submit plan for construction & maintenance of County roads & bridges in current year

Road & Bridge Goals

- Stewardship
- Capital Improvements & Maintenance
- Public Education & Confidence

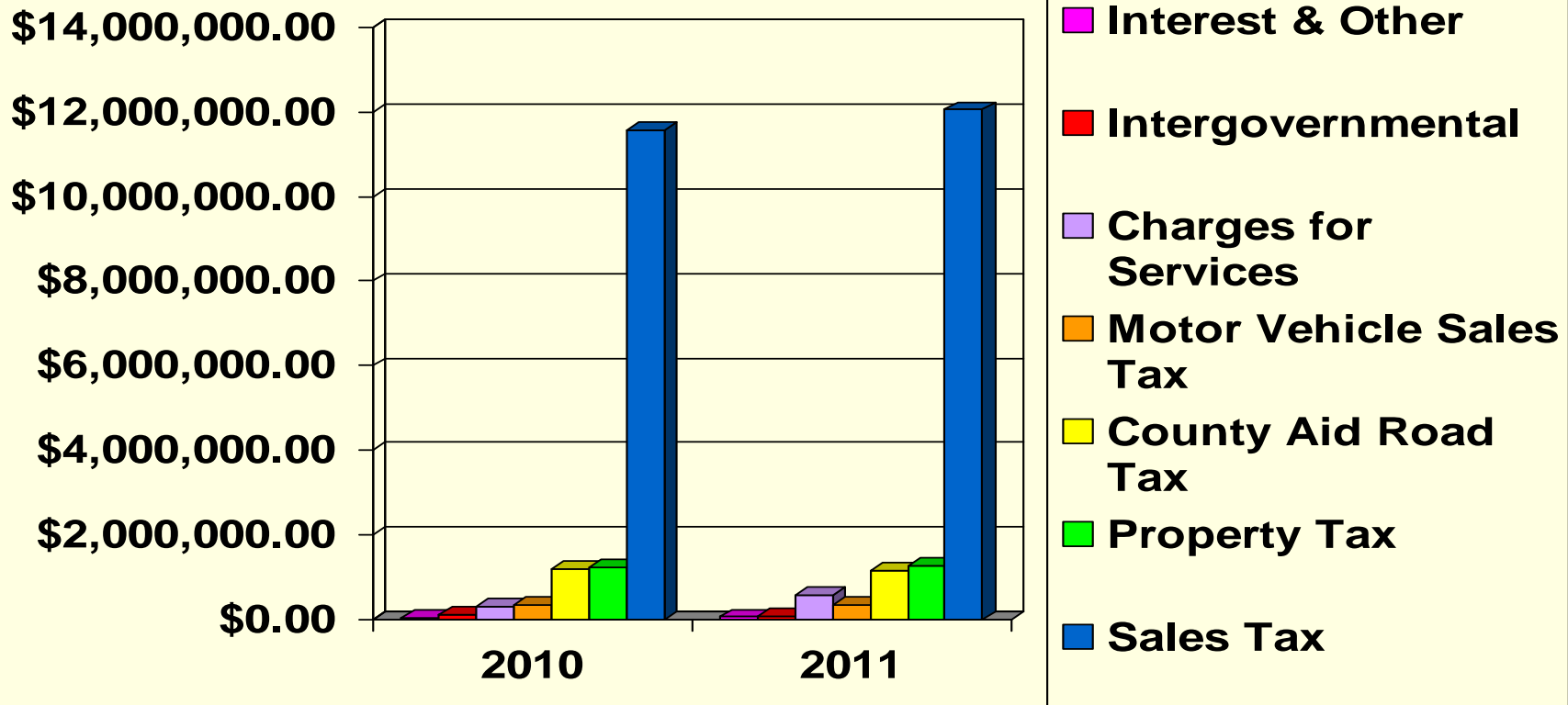
Purpose of the Annual Report

- To meet the requirements of Missouri Revised Statutes, Chapter 61, County Highway Engineers, Sections 61.081 & 61.091
- Provide updates on our efforts toward the achievement of the goals established by our Vision Statement & our Mission

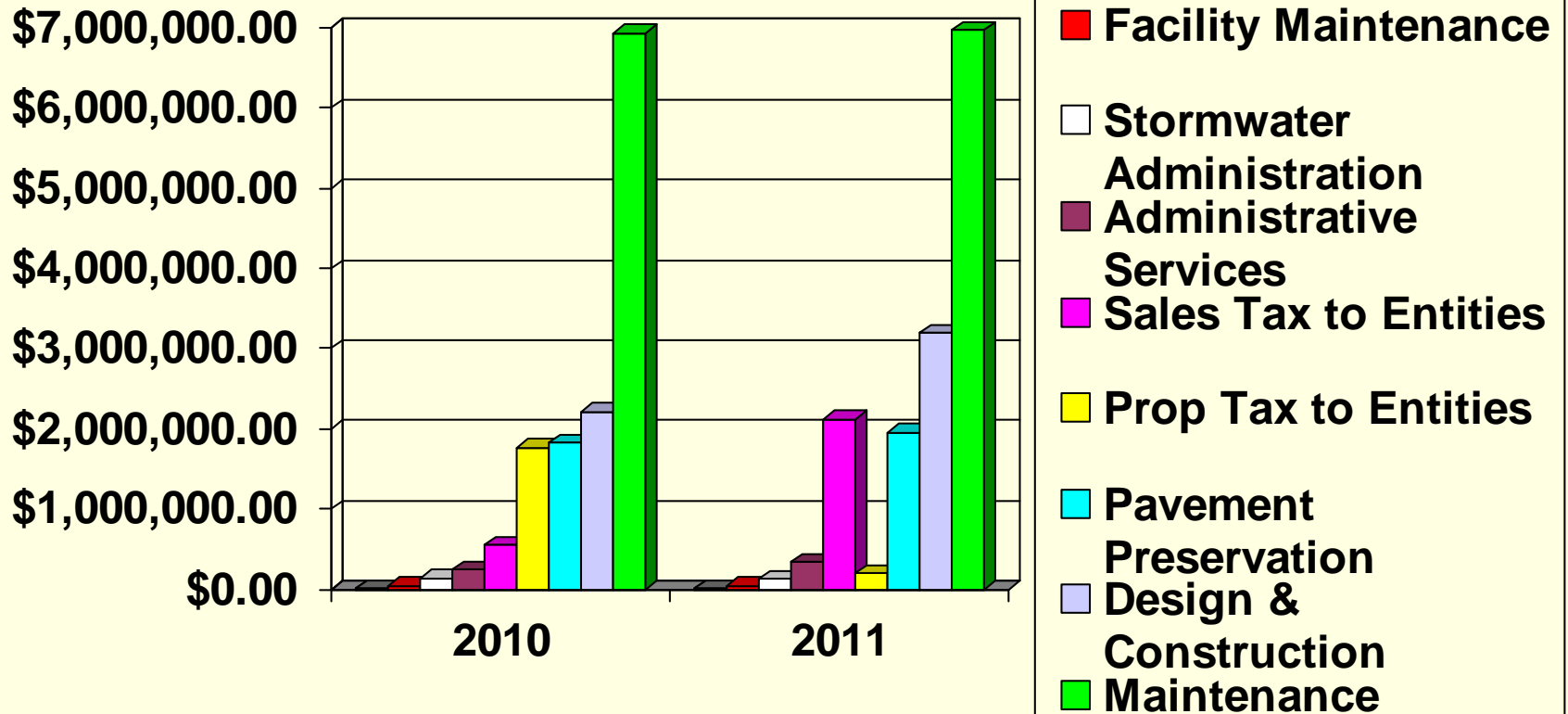
Requirement

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

Where the Money Comes From

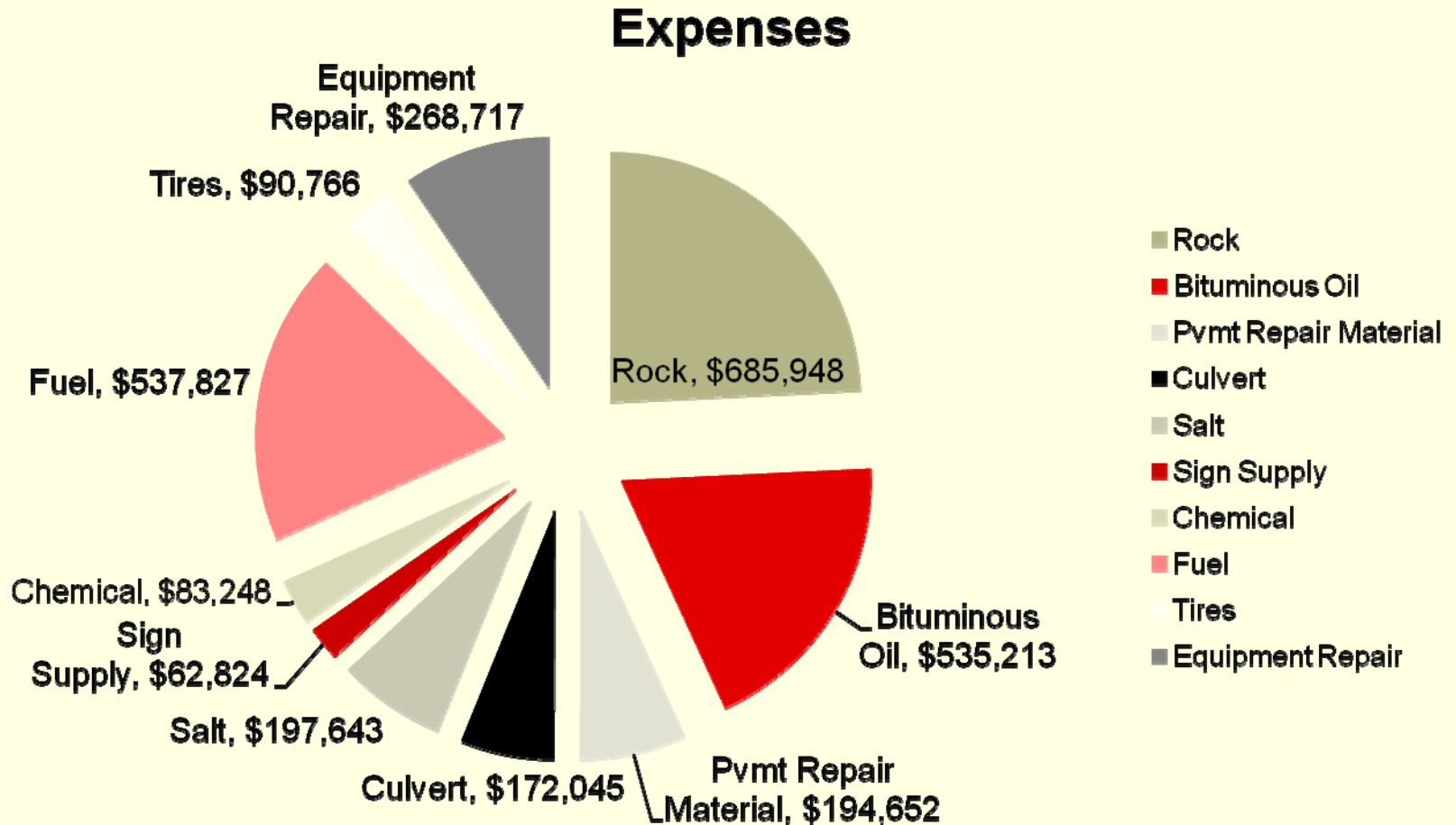


Where the Money Goes

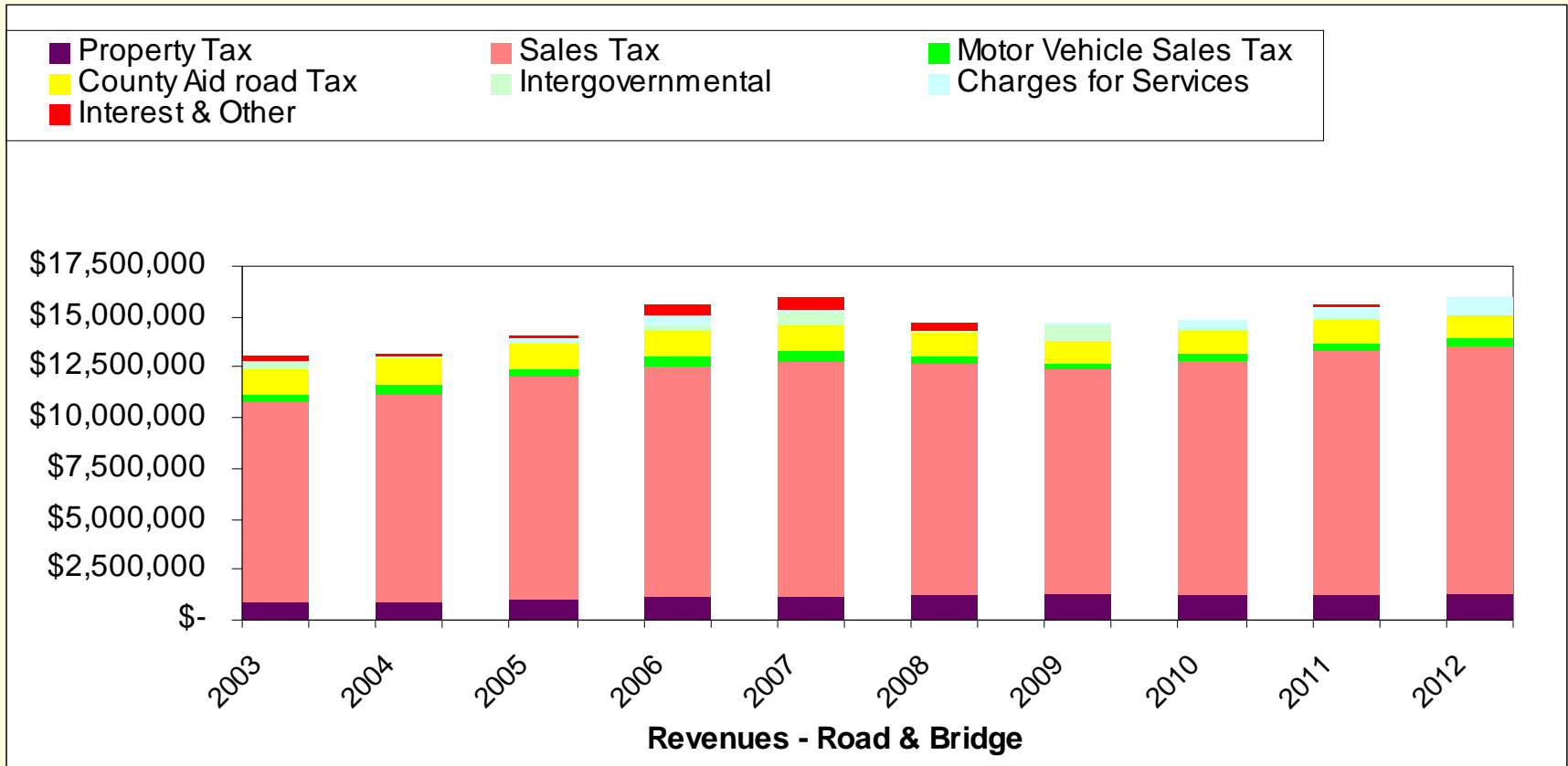


Maintenance Operations

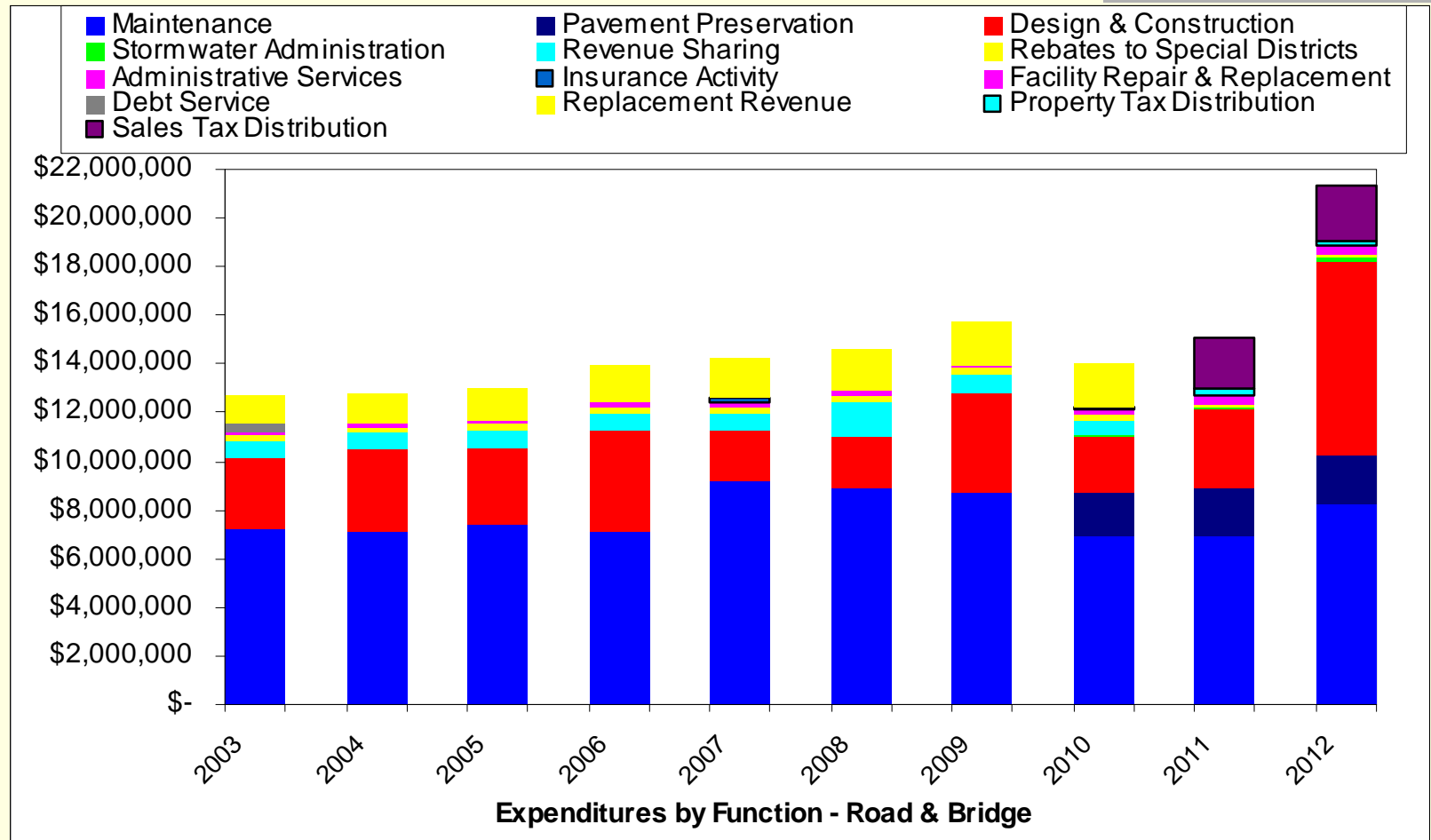
Major Supplies - 2011



Road & Bridge Revenue

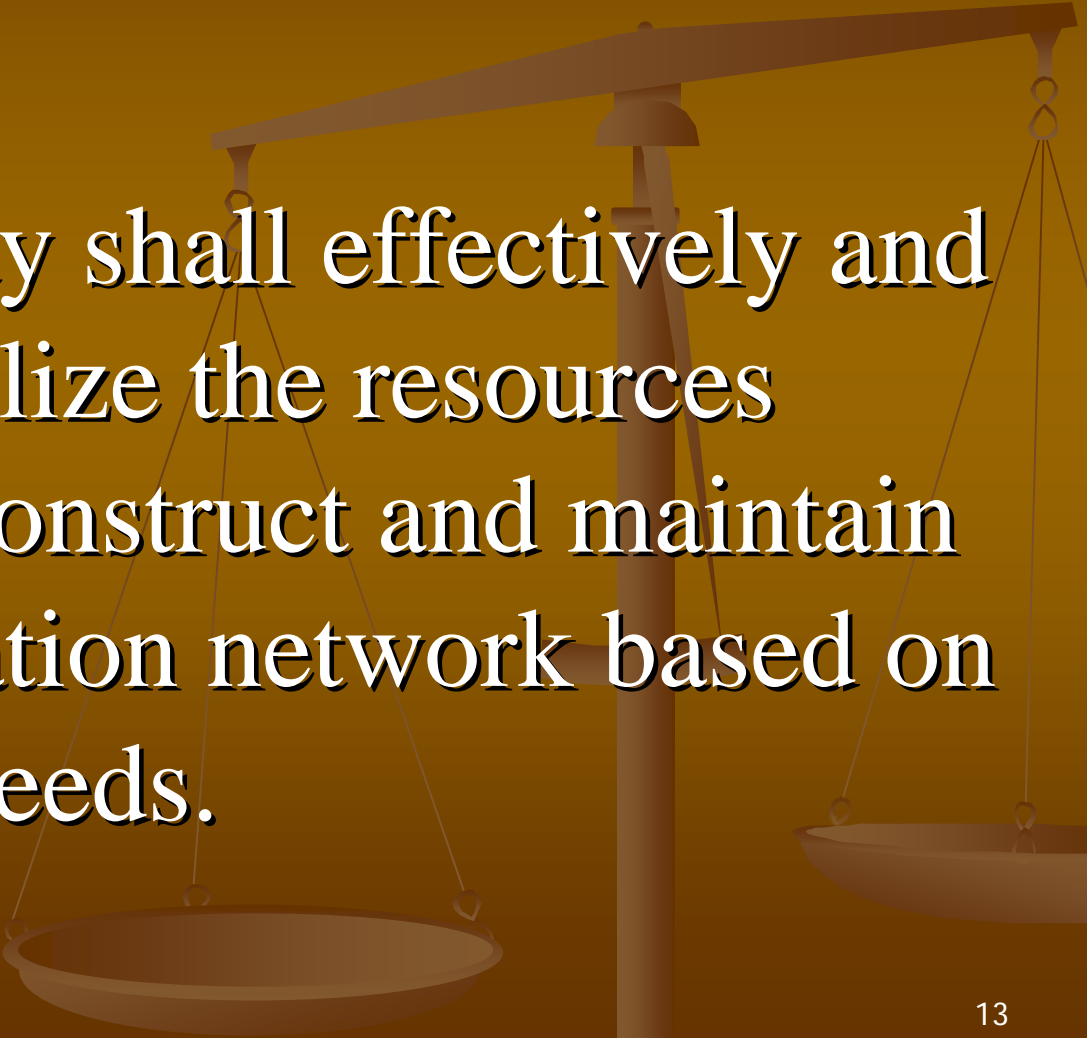


Road & Bridge Expenses



Goal Statement: Stewardship

Boone County shall effectively and efficiently utilize the resources available to construct and maintain the transportation network based on long – term needs.



Efforts Towards Stewardship

- Persist with our Pavement Preservation Program
- Institute a Concrete Rehabilitation Program
- Continue our Capital Improvement Program

Efforts Towards Stewardship

- Planned Maintenance Improvements
- Re-work Revenue Replacement & Revenue Sharing into Sales Tax Distribution

Preserve:

to keep safe from destruction

Webster's Collegiate Dictionary 10th edition

- Pavement Preservation program prescribes treatments to roads within preservation window
- Preservation window is a condition index of 55 or higher, of 100
- Roads allowed to fall under 55 will likely require an expensive full re-construction or conversion to a more appropriate surface type

Pavement Preservation

The right treatment for the right road at the right time

- 2011 Preservation Treatments Used
 - Hot mix Asphalt Overlay
 - Warm mix Asphalt Overlay
 - Fog Seal
 - Preservation Seal Coat

Pavement Preservation

The right treatment for the right road at the right time

- Boone County tested two new asphalt preservation techniques: “warm mix” asphalt overlay & fog seal
 - Thus far we are pleased with the results of the two new techniques
 - More time is required to accurately assess the durability and long term feasibility of each

Pavement Preservation

The right treatment for the right road at the right time

“Hot Mix” vs “Warm Mix” asphalt overlays: warm mix means the asphalt is heated to a lower temperature, approximately 50 degrees cooler than hot mix.

Pavement Preservation

The right treatment for the right road at the right time

- Hot Mix
 - Fairgrounds Rd & Richland Rd
 - 2.05 miles
 - Total Cost \$365,594
 - Cost per mile \$178,339

Pavement Preservation

The right treatment for the right road at the right time

- Benefits of “warm mix” method:
 - Reduced paving costs
 - Extended paving season
 - Improved asphalt compaction
 - Asphalt may be hauled longer distances
 - Improved working conditions: lower exposure to fuel emissions, fumes and heat

Pavement Preservation

The right treatment for the right road at the right time

- Warm Mix
 - Creasy Springs Rd, Roemer Rd, Calvert Hill, Boatman Hill, McGee Rd, New Haven Rd
 - 10.54 miles
 - Total Cost \$1,192,873
 - Cost per mile \$113,176

Pavement Preservation

The right treatment for the right road at the right time

Roemer Road – Warm Mix Asphalt Overlay



Pavement Preservation

The right treatment for the right road at the right time

Fog Seal: a process by which an asphalt emulsion is sprayed on to the road surface to seal and renew the exterior layer

Pavement Preservation

The right treatment for the right road at the right time

- Fog Seal Product - GSB-88: from gilsonite, a naturally occurring asphalt material; mined in the state of Utah; not a byproduct of the oil refining process
- Fog Seal Benefits: the road is left with a deep black, waterproof, sealed surface that will protect the underlying asphaltic pavement & is expected to last 4 years

Pavement Preservation

The right treatment for the right road at the right time

- Fog Seal

- Hartford Rd, Hastings Ct, Atlas Ct, Kendalwood Rd, Grandview Cir, Grandview Ct, Salem Dr, Knox Dr & Baxter Ct, Seminole Ct, White Fawn Ct, Mill Creek Ct, Tomlin Hill Rd & Blue Bird Rd
- 3.1 miles
- Total Cost \$48,486
- Cost per mile \$15,641

Pavement Preservation

The right treatment for the right road at the right time

Meadowbrook West – Fog Seal



Pavement Preservation

The right treatment for the right road at the right time

Preservation Seal Coat, applied to the roadway before it shows signs of distress. Application of a thin film of heated asphalt liquid followed by the placement of small aggregates (rock chips) seals the road & adds a new wearing surface.

Pavement Preservation

The right treatment for the right road at the right time

■ Preservation Seal Coat

- Prairie Meadows Estate, Old Plank Rd, Old Plank Sub, Hoe-Down Dr, Square Circle, Bethel Church Rd, Paradise Hills Sub, Country Hill Sub, Tucker School Rd, Schooler Rd, Academy Rd, Phillpe Rd, Oakland Gravel Rd, Clays Fork Rd, Alfalfa Dr., Oakland Gravel Rd, St Charles Rd, Wilson Turner Rd, Mount Hope Rd, Trade Center Dr, Richland Rd, Summers Ln, Earthland Rd, Old Hwy 63

Pavement Preservation

The right treatment for the right road at the right time

■ Preservation Seal Coat

- Miles: 18.8
- Material Cost \$ \$287,163
- Material Cost per Mile: \$15,274

Rehabilitate:

to restore or bring to a condition

Webster's Collegiate Dictionary 10th edition

In 2011 we began a Concrete Rehabilitation program. This program encompassed both large restoration projects and smaller maintenance panel replacement projects.

Road Rehabilitation

Practical Solutions for Practical Times

- Large restoration project, contracted
 - Removing & replacing unsound concrete panels, followed by milling off 2 inches of entire street & applying an asphalt overlay.

Road Rehabilitation

Practical Solutions for Practical Times

- Large project
 - Georgetown Dr, Burning Bush Ct & Lotus Ct
 - .74 miles
 - Total cost \$365,460
 - Cost per mile \$493,865

Road Rehabilitation

Practical Solutions for Practical Times

- Targeted Panel Replacement is a proactive approach which preserves the satisfactory condition of adjacent areas, and is performed either by contract or by staff
 - Remove & replace individual distressed panels, including related curb & gutter, to restore the overall integrity of the road.

Road Rehabilitation

Practical Solutions for Practical Times

- Contracted Maintenance Projects
 - Bethany Dr, Grace Ln, Eastview Ln, Sandker Ln, Limoges Dr & Teton Dr
 - 8497 Sq ft
 - Total Cost: \$96,967.27 including associated curb & gutter, etc.
 - Cost per sq ft \$11.41

Capital: accumulated assets, net worth Improve: to increase the value of

Webster's Collegiate Dictionary 10th edition

- Capital Improvement projects are typically multi-year projects because each involves varying degrees of
 - Design
 - Utility Relocation
 - Right of Way Acquisition
 - Construction

Capital Improvement Steps

■ Design

- During this phase plans are developed for construction project
- Exact area for project is determined
- Determines if utility relocation will be necessary
- Determines what easements & right of way will need to be acquired
- Determines materials to be used
- Produces estimate of project cost

Capital Improvement

Preliminary Design Projects
Completed

- High Point Lane Bridge I & II
- Creasy Springs Bridge
- Hill Creek Bridge

Capital Improvement

Design Project

Meyer Industrial Blvd Extension

- Coordinates with the MODOT project at US 63 & Route H
- Extends road from the current end point of Meyer Industrial to Ponderosa Street
- Distance .5 miles
- Right of Way acquisition underway
- Construction expected to begin in 2012

Capital Improvement

Design Project
St. Charles Round-A-Bout

- Project consists of construction of a round-a-bout at the intersection of St. Charles Rd & Lake of the Woods Rd
- Final design under development
- Right of Way plans being reviewed
- Construction expected to begin in 2012

Capital Improvement

Design Project

Trails West Stormwater Improvement

- Project involves replacement of storm inlets & culverts
- Final construction plans under review
- Easement acquisition underway
- Construction expected in 2012

Capital Improvement

Design Project Waco Road Extension

- Project involves extending Waco Road from south of Alpha Hart Lewis school to Prathersville Rd.
- Proposed project length .9 miles
- Working on final design

Capital Improvement Steps

- Utility relocation
 - Area is acquired for utilities to be relocated to
 - Agreements are developed between County & individual utilities to move their lines
 - Actual relocation takes place

Capital Improvement

Design & Construction Project Rolling Hills Road

- Joint project with City of Columbia to reconstruct & widen between State Route WW & New Haven Rd
- Utility Corridor grading complete, cost \$162,820.60
- Electric & phone relocations complete, cost \$171,665.39+
- Water & gas relocations in progress
- Road Construction planned in 2012

Capital Improvement

Design & Construction Project Rolling Hills Road



- Rolling Hills utility easement corridor after restoration

Capital Improvement Steps

- Right Of Way Acquisition
 - Acquire easement for utilities to relocate
 - Explain planned project to area affected land owners
 - Negotiate with land owners to obtain any necessary temporary or permanent easements

Capital Improvement Steps

- Construction
 - Notify area residents of planned closures
 - Ensure contractor abides by state and federal statutes
 - Building of planned project

Capital Improvement

Construction Project Sunrise Estates Phase III

- Multi Phase project to address drainage issues and street repair within the subdivision
- Work included: spot repair of pavement subgrade, replacement of stormwater culverts, minor ditching & 2” asphalt overlay
- Project length 6100 feet or 1.16 miles
- Project cost this phase \$376,062.24

Capital Improvement

Construction Project

Fairway Meadows Drainage Improvement

- Project consisted of installation of storm sewer pipes & inlets at 2 locations within subdivision, placing rip-rap at pipe outfalls & installing split steel casing on existing water mains
- Project cost: \$73,794.40

Roads Accepted in 2011 for County Maintenance

Road Name	Width	Length	Surface
Aspen Circle	24'	353'	Asphalt over RCC
Lakewood Dr	32'	824'	Asphalt over RCC
Pinehurst Ln.	24'	1290'	Asphalt over RCC
Vail Court	24'	191'	Asphalt over RCC
Villa Drive	30'	201'	Asphalt over RCC
Elk Park Dr.	40'	1150'	Concrete
Barn Hollow Dr.	40'	63'	Concrete

Planned Maintenance Drainage Improvements

- Proper drainage is essential to prevent storm water from undermining the integrity of the road
- Replacement of culverts prior to failure protects the integrity of the surrounding roadway
- Road hazards can occur when the base of the road is compromised due to a failed drainage structure

Planned Maintenance Drainage Improvements

Major drainage improvement efforts in 2011:

- Calvert Hill, Boatman Hill, & McGee Rd – extensive pipe replacement & drainage improvements in preparation for asphalt overlay.
- Cedar Brook Subdivision: Excavation of old drop inlet & installation of a new concrete flume and establishment of a grass swell

Planned Maintenance Drainage Improvements



- Trade Center Drive : installation of 6' by 8' drop inlet with concrete flume on opposite side of road. Pictured above.
- North Mount Pleasant: Installation of a drop inlet.

Planned Maintenance Drainage Improvements

Several large diameter culverts were replaced due to age & deterioration. Large diameter pipes were replaced on: Lovers Ln, Crump Ln, Callahan Creek, Peabody, Bell, Starke, Wilhite (west), Clellie Harmon, and Owens School (pictured)



Sales Tax Distribution

- Recalculation of distribution formula based on actual collections to achieve a sustainable distribution
- All municipalities receive a formula amount directly related to property tax collected
- Some entities receive a formula produced amount of sales tax collected
- A percentage of sales tax collected is distributed to application entities based on need and qualification

Sales Tax Distribution

Individual Entity Reports

■ City of Ashland

■ No report received

ANNUAL PROGRESS REPORT

CITY OF CENTRALIA, MISSOURI
2011 Boone County Revenue Replacement Funds

As required by the Boone County Road Tax Revenue Sharing and Revenue Replacement Policies Manual, the City of Centralia submits the following report:

The City accounts for receipts of the County's Roll Back and Formula A monies as a line item within the City's General Fund. Formula B funds are treated as additional revenues to the Transportation Sales Tax Fund and applied to debt service and major projects.

FISCAL YEAR 2011-12

For Fiscal Year 2011-12, Centralia budgeted \$354,244 in its General Fund for Highway and Street and Weed Control. Purposes. (Almost all of weed control expenses are for mowing street rights-of-way.) Those budgeted amounts are allotted as follows:

Planning and Administration	\$ 24,880
Street Maintenance	136,521
Alley Maintenance	3,069
Sidewalk & Parking Lot Maintenance	10,863
Street Department Buildings and Grounds	10,622
Snow & Ice Removal	50,248
Street Signs and Marking	12,429
Storm Drainage	72,718
Brush and Tree Control	9,779
Weed Control/City Property	<u>23,115</u>
Total	\$354,244

Centralia's fiscal year starts April 1 and ends March 31. During the entire Fiscal Year 2010-11, Centralia spent \$454,845 for street purposes from the General Fund. For the first eight months of Fiscal Year 2011-12, the City expended the following amounts:

Planning and Administration	\$ 19,328
Street Maintenance	30,156
Alley Maintenance	809
Sidewalk & Parking Lot Maintenance	19,705
Street Department Buildings and Grounds	4,412
Snow & Ice Removal	1,119
Street Signs and Marking	10,157
Storm Drainage	58,924
Brush and Tree Control	4,861
Weed Control/City Property	<u>15,687</u>
Total	\$165,158

Sales Tax Distribution

Individual Entity Reports

CENTRALIA SPECIAL ROAD DISTRICT OF BOONE
 COUNTY, MISSOURI, POLITICAL SUBDIVISION
 STATEMENT OF ESTIMATED REVENUE
 BUDGET PERIOD: JANUARY 1, 2012 TO DECEMBER 31, 2012

SOURCE	ACTUAL 2007	ACTUAL 2008	ACTUAL 2009	ACTUAL 2010	ACTUAL 2011	BUDGET 2012
TAXES:						
REAL AND PERSONAL PROPERTY	76,166	81,250	80,408	80,093	59,599	173,996
CART	91,566	81,686	75,440	76,743	97,181	79,000
FINANCIAL INST.						
BOONE CO. SALES TAX	162,533	184,559	169,495	151,060	221,186	100,000
TOTAL TAXES	330,265	347,495	325,343	307,896	377,966	352,996
OTHER:						
INTEREST	2,527	5,936	702	597	345	504
BOONE CTY REVENUE SHARING	80,000	80,000	87,500	58,730	-	-
MISCELLANEOUS	106	649	793	13,194	9,005	-
TOTAL OTHER	82,632	86,584	88,995	72,522	9,349	504
TOTAL REVENUE	412,898	434,080	414,337	380,418	387,315	353,500

CENTRALIA SPECIAL ROAD DISTRICT OF BOONE
 COUNTY, MISSOURI, POLITICAL SUBDIVISION
 STATEMENT OF PROPOSED EXPENDITURES
 BUDGET PERIOD: JANUARY 1, 2012 TO DECEMBER 31, 2012


SOURCE	ACTUAL 2007	ACTUAL 2008	ACTUAL 2009	ACTUAL 2010	ACTUAL 2011	BUDGET 2012
CITY OF CENTRALIA (PORTION OF TAX REV.)						
LABOR & P/R TAXES	130,198	126,405	131,809	90,393	95,906	98,000
INSURANCE	40,273	40,917	31,701	28,156	21,454	28,000
ROCK	36,901	39,685	34,052	37,341	39,384	40,000
GAS, DIESEL, & OIL	21,626	26,814	17,780	20,416	29,212	30,000
ROAD OIL	402	610	1,727	3,122	-	6,000
REPAIRS	7,611	7,554	7,956	10,625	31,493	30,000
OPERATING EXPENSES	1,824	2,370	978	2,180	2,500	2,500
ELECTION & LEGAL EXPENSE	-	-	-	10,231	415	1,000
TIRES	2,060	4,444	4,156	1,208	7,885	10,000
GRADER BLADES	-	847	1,899	703	-	1,000
PURCHASE EQUIPMENT	12,735	92,643	-	91,305	2,825	52,000
CULVERTS	8,734	16,016	1,837	16,599	6,712	8,000
SUPPLIES	1,646	3,381	4,497	2,775	1,616	3,000
MISCELLANEOUS	277	314	505	131	237	1,000
AUDIT FEES	-	-	-	-	-	-
UTILITIES	2,684	2,569	2,920	2,713	2,523	3,000
CAPITAL ROAD IMPROVEMENT	122,854	125,211	138,970	58,730	91,356	40,000
TOTAL	389,626	489,782	380,787	374,629	331,018	353,500

I, ANTHONY J. KENDRICK, BUDGET OFFICER OF THE CENTRALIA SPECIAL ROAD DISTRICT OF BOONE COUNTY, MISSOURI, CERTIFY THAT THE ACCOMPANYING BUDGET WAS PROPERLY PREPARED AND ADOPTED BY THE BOARD OF COMMISSIONERS OF SAID GOVERNING BODY ON DECEMBER 03, 2011.

ANTHONY J. KENDRICK

Sales Tax Distribution

Individual Entity Reports



CITY OF COLUMBIA, MISSOURI

FINANCE DEPARTMENT
ACCOUNTING DIVISION

City of Columbia
County Road Tax Rebate - Fund 227
Cash Balances

	Sept 30 2009	Sept 30 2010	Sept 30 2011
Cash Balance Forward	2,915,044.73	265,902.58	431,429.52
Receipts:			
County Road Tax Rebate from Boone County	1,593,079.07	1,649,274.62	1,657,714.81
Investment Income	26,703.78	29,677.32	14,463.90
Total Receipts	1,619,782.85	1,678,951.94	1,672,178.71
Disbursements:			
Transfer to Fund 440 (Capital Projects):			
C00128 Maguire Blvd	(1,500,000.00)	-	-
C00241 Mexico Gravel Rd	(1,460,000.00)	(1,400,000.00)	-
C00149 Scott Blvd	(1,195,500.00)	-	-
C00320 Rolling Hills Road			(1,400,000.00)
C00319 Scott - Vawter to MKT PH II			(590,183.23)
Transfer to Fund 110 (General Fund)	(113,425.00)	(113,425.00)	(113,425.00)
Total Disbursements	(4,268,925.00)	(1,513,425.00)	(2,103,608.23)
Cash Balance @ Year End	265,902.58	431,429.52	-

701 E. BROADWAY • P.O. BOX 6015 • COLUMBIA, MISSOURI 65205-6015
(573) 874-7365 • FAX (573) 874-7761 • TTY (573) 874-7625

- City of Hallsville
- No report received

Sales Tax Distribution

Individual Entity Reports

TOWN OF HARRISBURG
P.O. Box 97
Harrisburg, MO 65256

Boone County Public Works Revenue Replacement Report for money received in 2010

Amount Received		\$	2,217.37
Disbursements:			
Street Maintenance: (Including Snow & Ice Removal)	\$	5,876.19	
Street Lighting		1,405.80	
Trash Pick-up		<u>220.00</u>	
Total Disbursements	\$	7,501.99	

RECEIVED
NOV 22 2011

- Village of Hartsburg
- No report received

Sales Tax Distribution

Individual Entity Reports

- Village of
Huntsdale
 - No report
received

Boone County Resource Management
801 East Walnut St. - Room 315
Columbia, Mo. 65201

To the Director:

In regard to the Revenue Sharing report for the Town of McBaine, we received a check in the amount of \$114.21 in November, 2010. February, 2011 we received a huge amount of snow which resulted in a charge of \$350.00 for removal of snow from our streets. The amount of this check will be applied to this expense.

Thank you,
Marvin E. Sapp
Marvin Sapp, Chmn. of the Board
of Trustees



Sales Tax Distribution

Individual Entity Reports

Jan. 9, 2012
Boone Co. Mgmt
801 E. Walnut
Room 315
Columbia, Mo.

Attn: Kelle Westcott

This is to Certify that the Village of
Pierpont received \$872.49 for 2010
for the road & bridge projects.
This money is on deposit at Boone Co. Nat. Bank

Respectfully
Village of Pierpont
Justin John Chaineau

City of Rocheport

P.O. Box 53
Rocheport, Missouri 65279
573-698-3245 Fax 573-698-3800

January 17, 2012

Dear Mr. Shawver:

First, I must apologize for my tardiness in getting this information to you. I am the lone employee at this time for the City of Rocheport.

This letter should provide you and the County Commission documentation for the City of Rocheport's expenditures under the Boone County Revenue Sharing (BCRS) and Revenue Replacement Programs. Rocheport continues to actively improve its road and transportation infrastructure, and Boone County Funds support has been essential to these efforts.

The City has completed the 2010-2011 projects that included chip and seal of Second Street, and replacement of 718sf of sidewalk, which included new aprons/approaches from Central Street onto Second Street. This sidewalk is now ADA compliant. With these projects, we have exhausted all funds from Boone County Revenue Sharing.

The funds received from Street & Road Fund from Boone County in the amount of \$2,584.16 will be used for maintenance items in the year 2012.

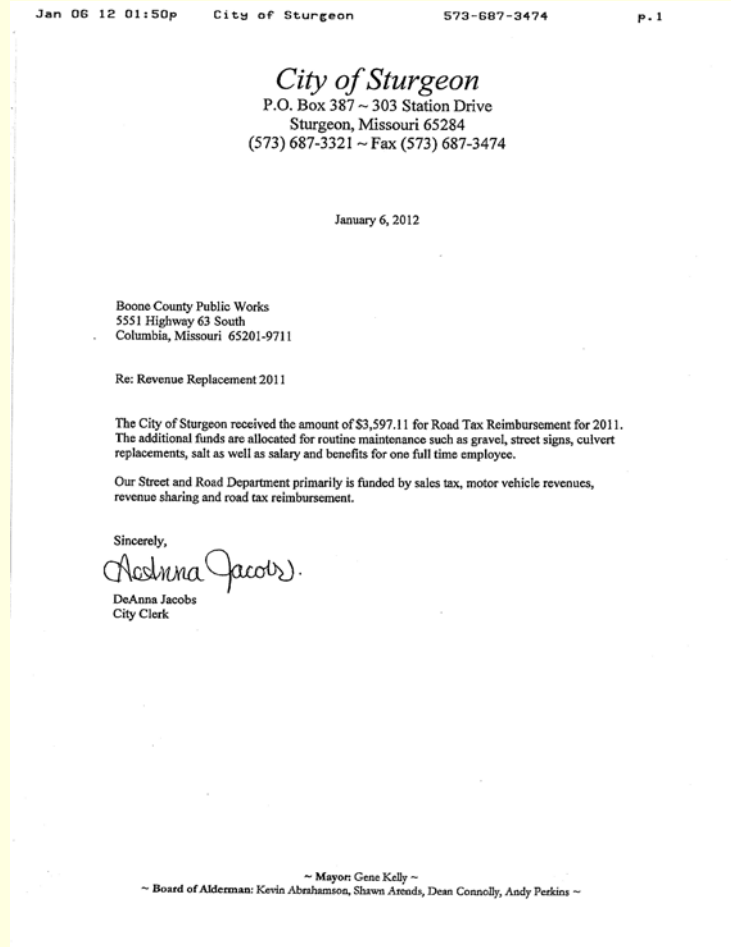
Rocheport benefits greatly from the support of the BCRS and Revenue Replacement Programs and appreciates the opportunity to address our transportation infrastructure needs. On behalf of the Mayor and Board of Aldermen, and residents of Rocheport, I would like to thank the Boone County Commission for financial assistance through these programs.

Cordially,


Shirley Jenkins-Old
City Clerk

Sales Tax Distribution

Individual Entity Reports



■ In 2012 Boone County Resource Management plans to develop a form which should

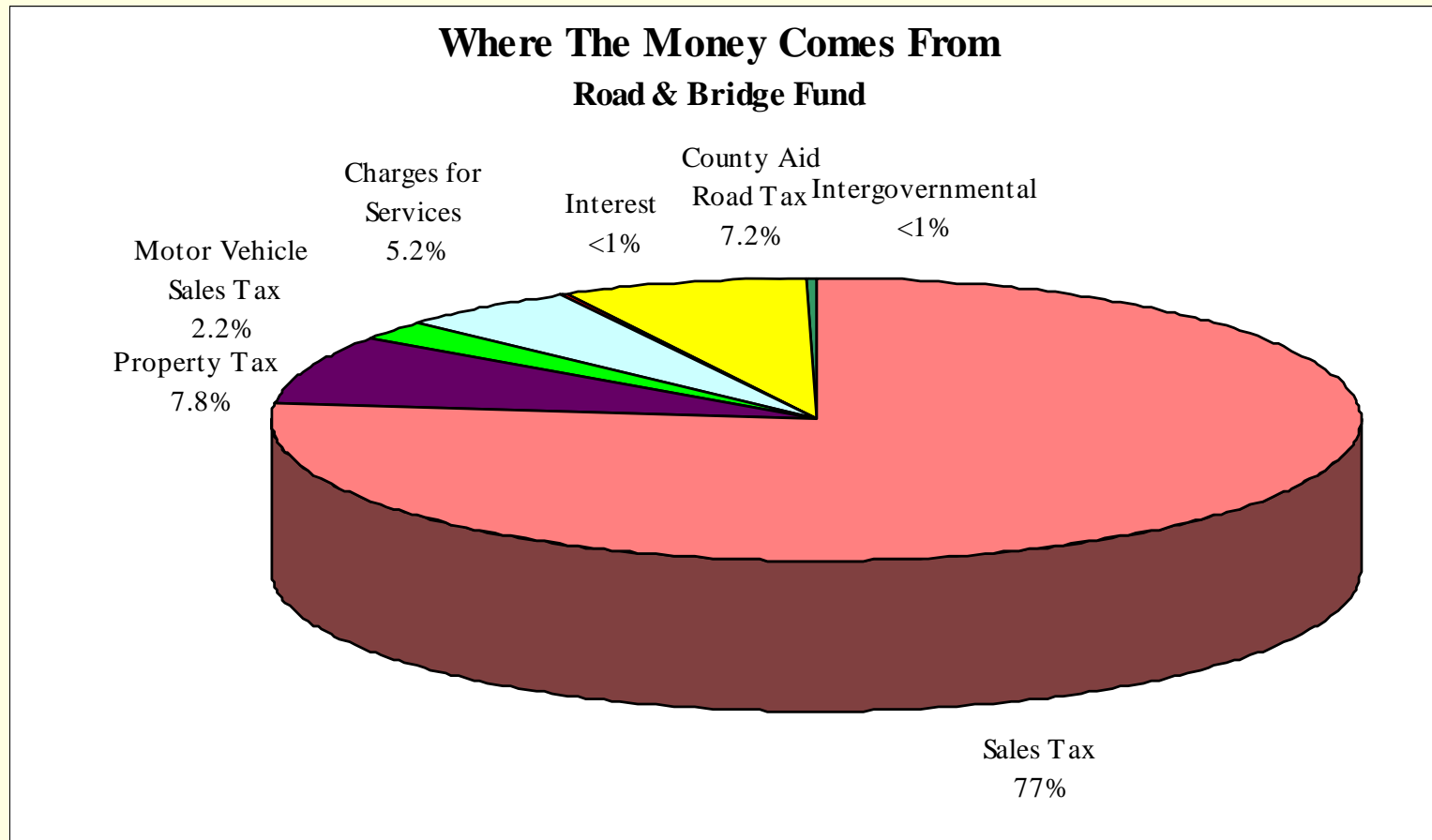
- Make reporting easier for each entity
- Provide a similar structure for each report

Requirement

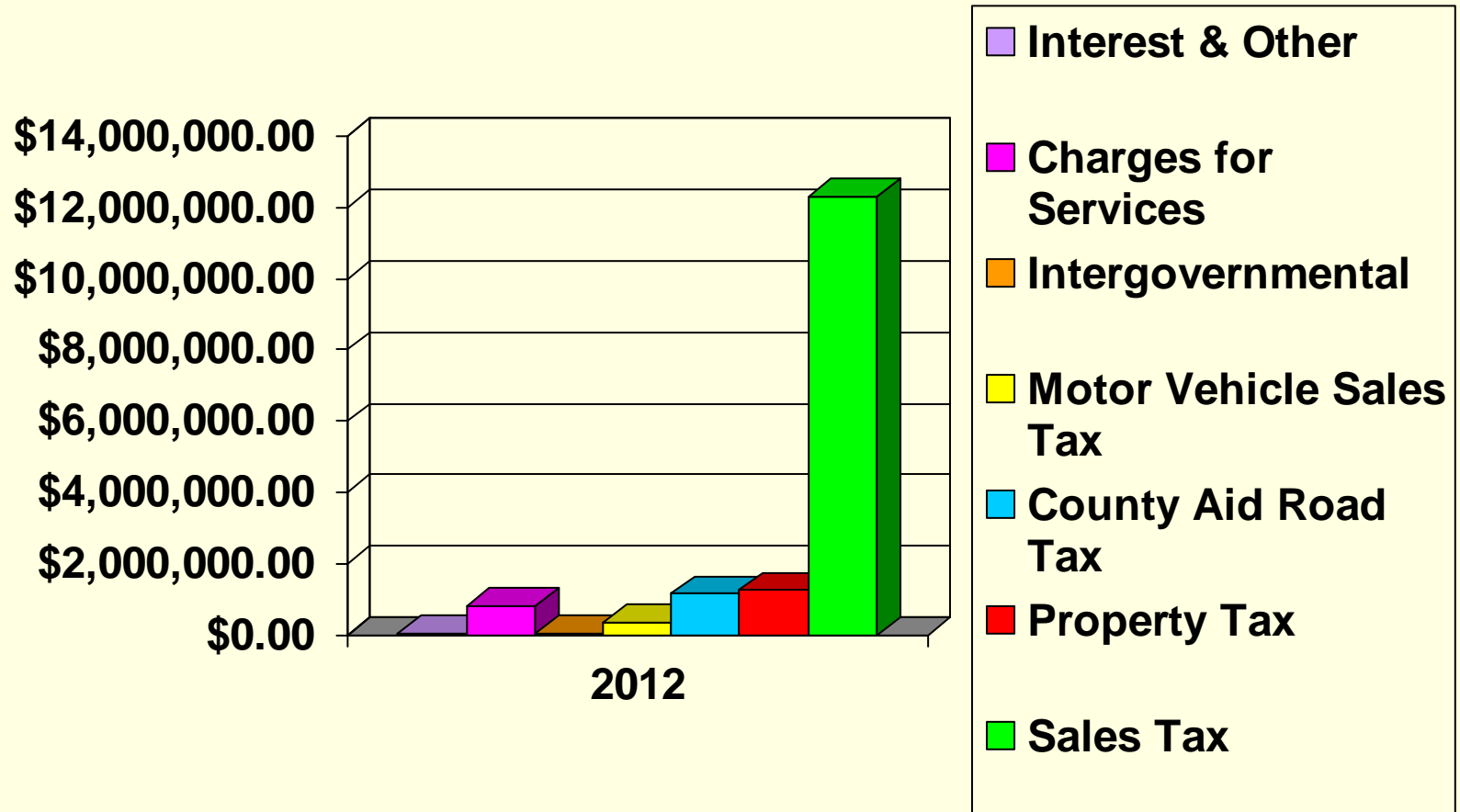


Submit a plan for construction, reconstruction, maintenance and repair of existing established public highways, roads, bridges, and culverts proposed to be undertaken and completed during the current year.

2012 Revenue Budget

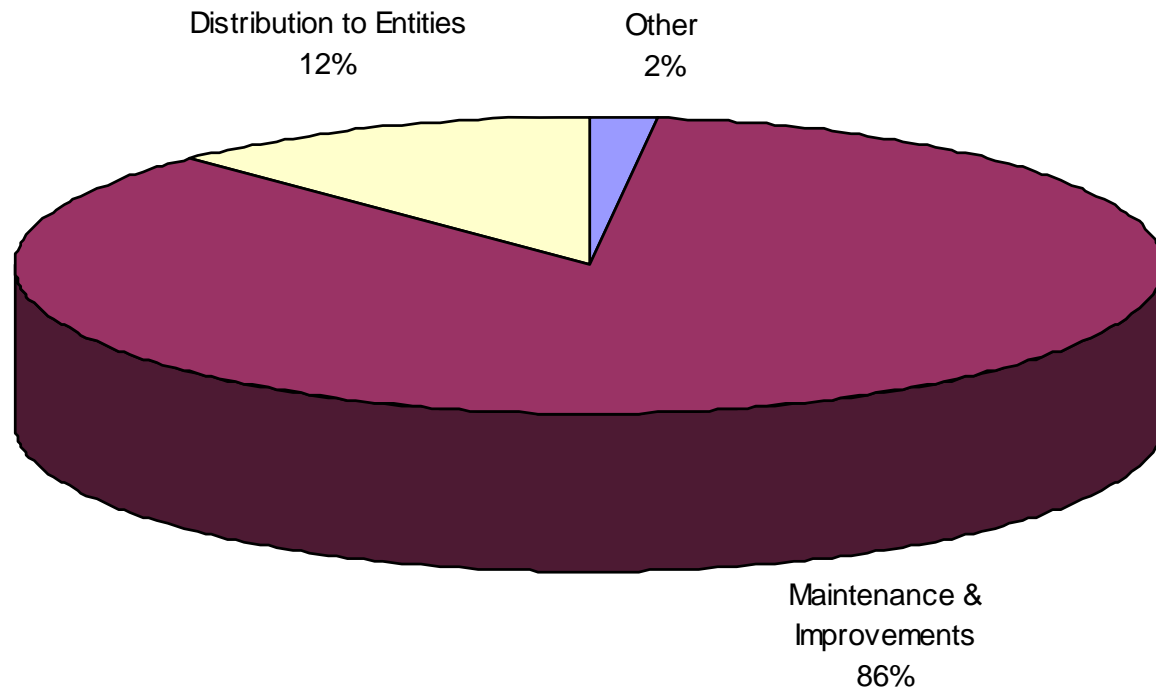


2012 Where the Money Comes From

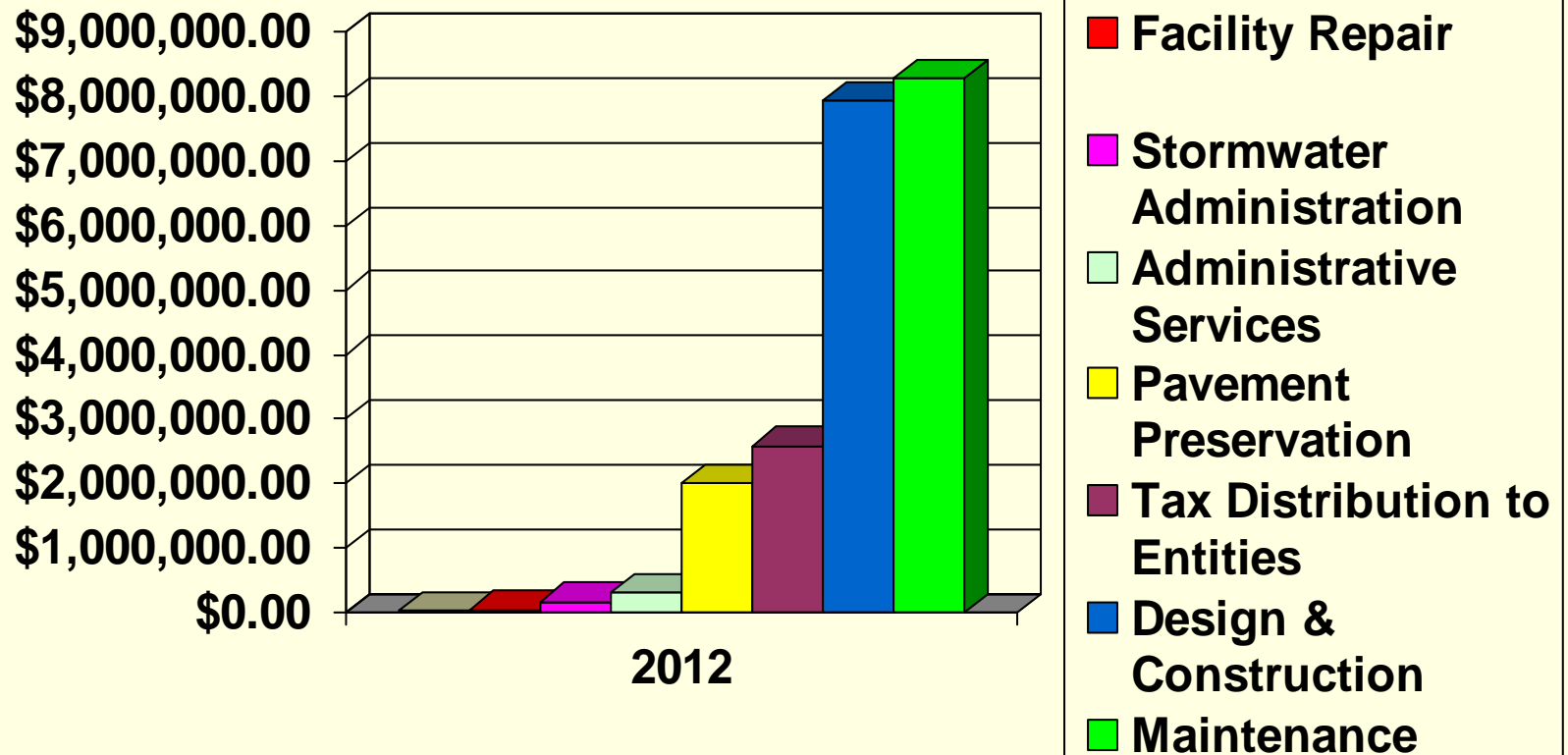


2012 Expense Budget

What The Money Is Used For Road & Bridge Fund

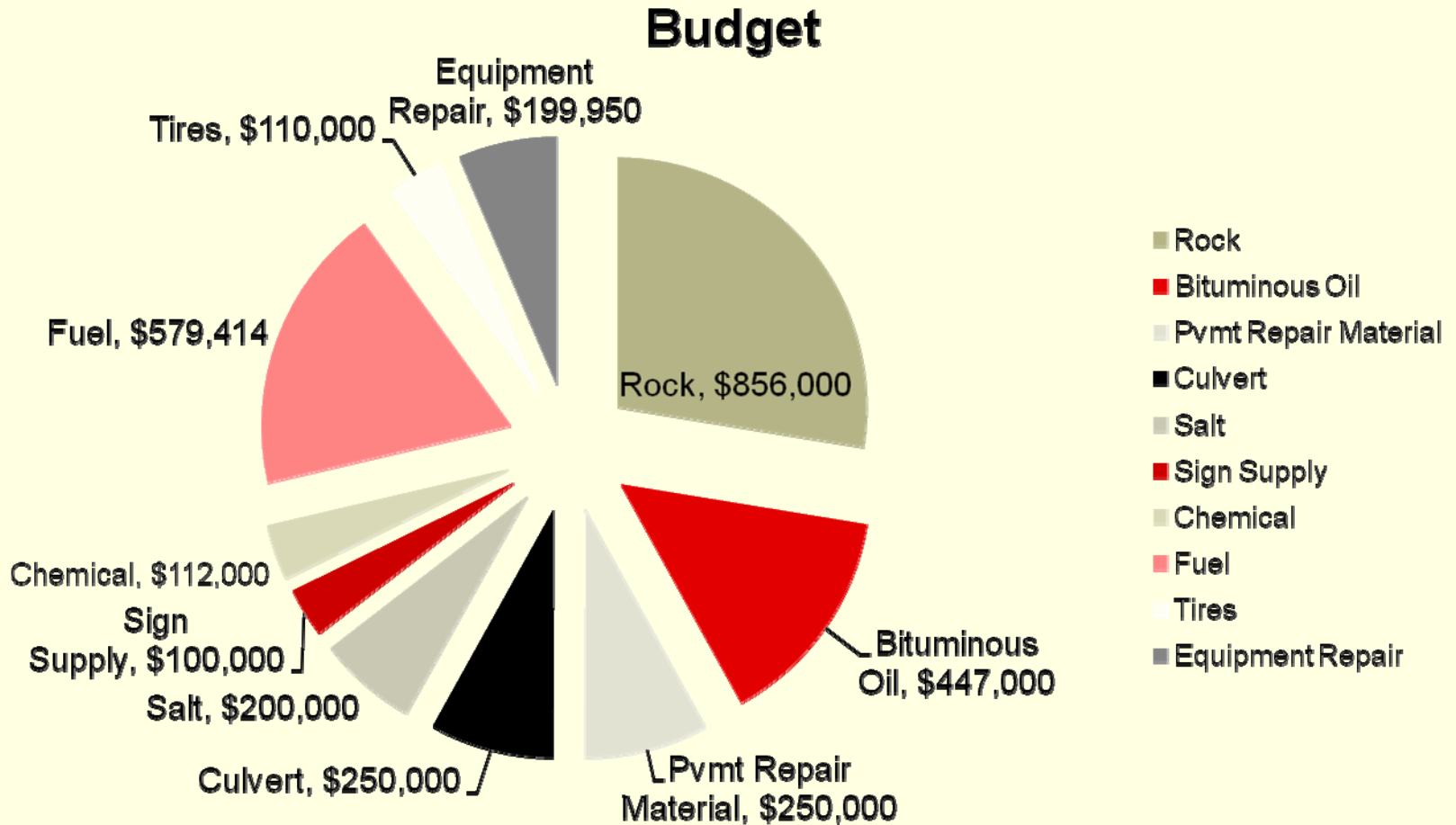


2012 Where the Money Will Go



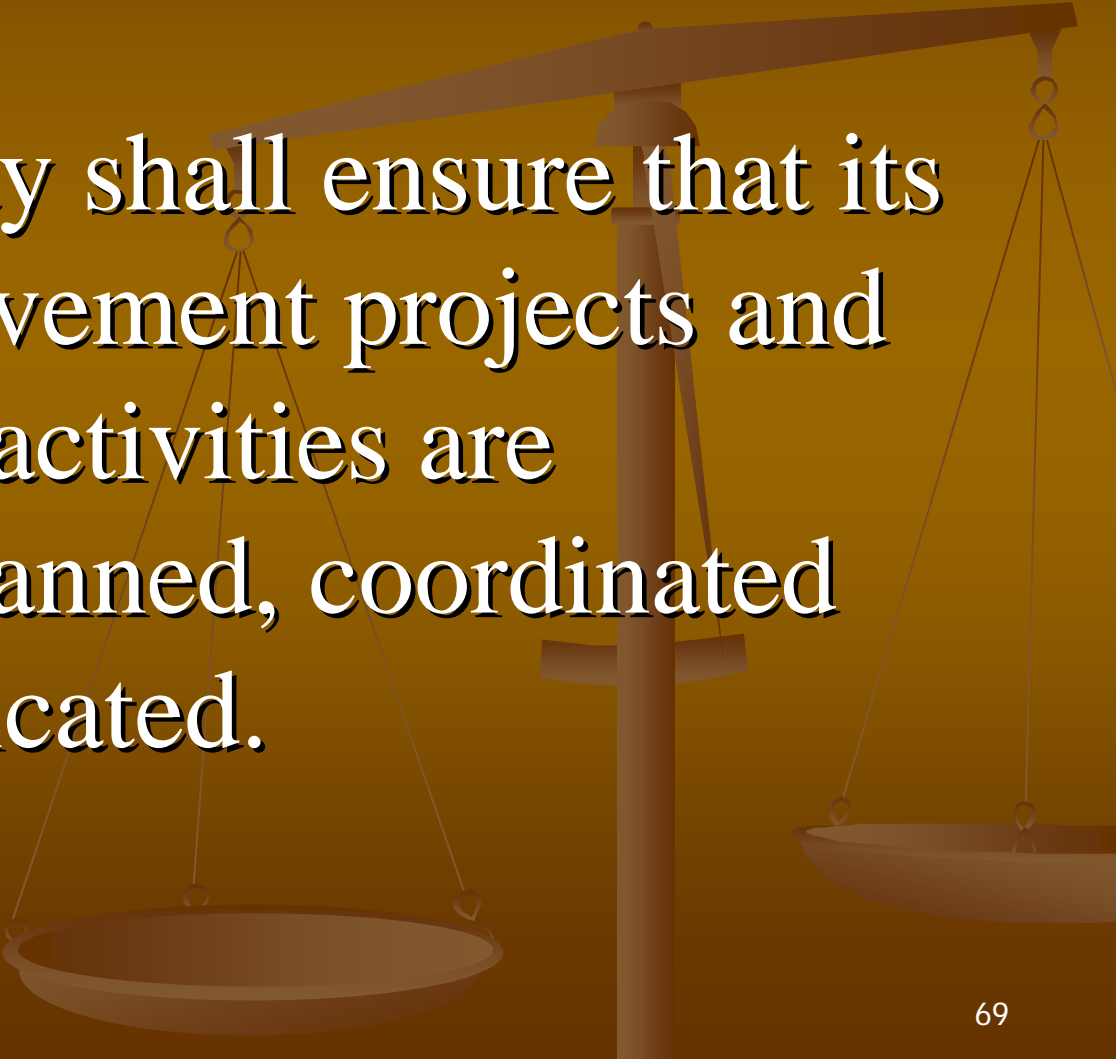
Maintenance Operations

Major Supplies - 2012



Goal Statement: Capital Improvements & Maintenance Planning

Boone County shall ensure that its capital improvement projects and maintenance activities are effectively planned, coordinated and communicated.



2012 Efforts Towards Capital Improvement & Maintenance Planning

- Long range, 5 year plan for both preservation projects & capital projects
- Joint projects between Boone County and entities within Boone County
- Revisions to Subdivision/Platting process

2012 Efforts Towards Capital Improvement & Maintenance Planning

- Hours available approach to budgeting
- Establishment of a systematic approach for striping & bridge deck sealing
- Development & implementation of a Gravel Road Rating System

2012 Pavement Preservation Plans

- Roads to receive asphalt overlays
 - Oakland Gravel Rd
 - St. Charles Rd
 - Rock Quarry Rd, Gans Rd, Bearfield Rd
 - Fairway Meadows Subdivision
 - Old No 7

2012 Pavement Preservation Plans

- Fog Seal

- Preservation Seal Coat
 - List of roads under consideration for both treatment types

2012 Concrete Rehabilitation Plans

- Proposed roads for Concrete Rehabilitation
 - Shalimar Dr
 - Lotus Loop
 - List for panel replacements under consideration

2012 New Asphalt Rehabilitation Program

- Benefits of adding an Asphalt Rehabilitation Program
 - Salvage a road that is past point where an overlay is appropriate
 - Delay a costly full reconstruction
 - Reset “lifecycle” of road from unacceptable to good

2012 New Asphalt Rehabilitation Program

- Consequences of not adding an Asphalt Rehabilitation Program
 - More costly full reconstruction
 - Full reconstruction takes longer to complete
 - More disruptive to traveling public

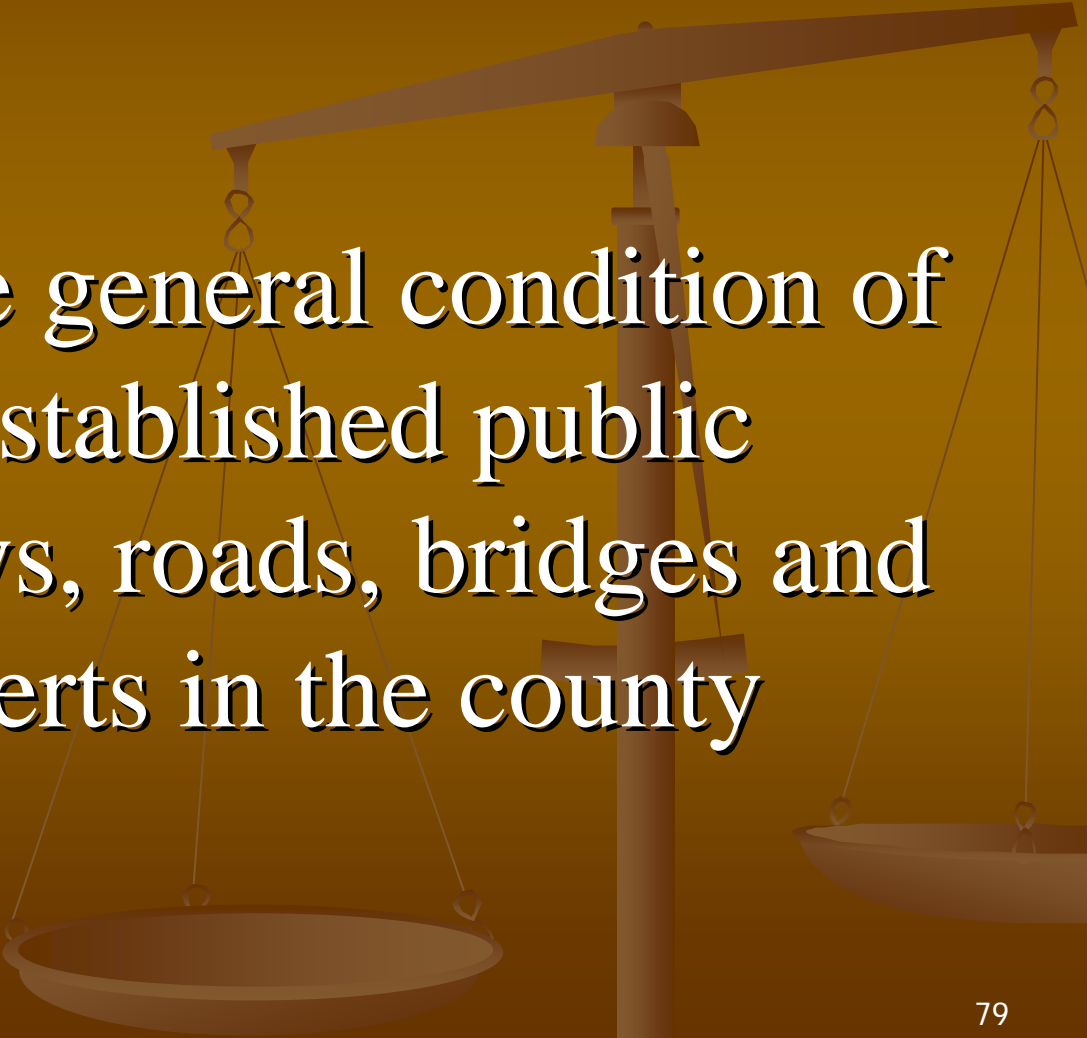
2012 Capital Improvement Plans

- Design Projects
 - Creasy Springs Bridge
 - Hill Creek Bridge
 - St Charles re-alignment

2012 Capital Improvement Plans

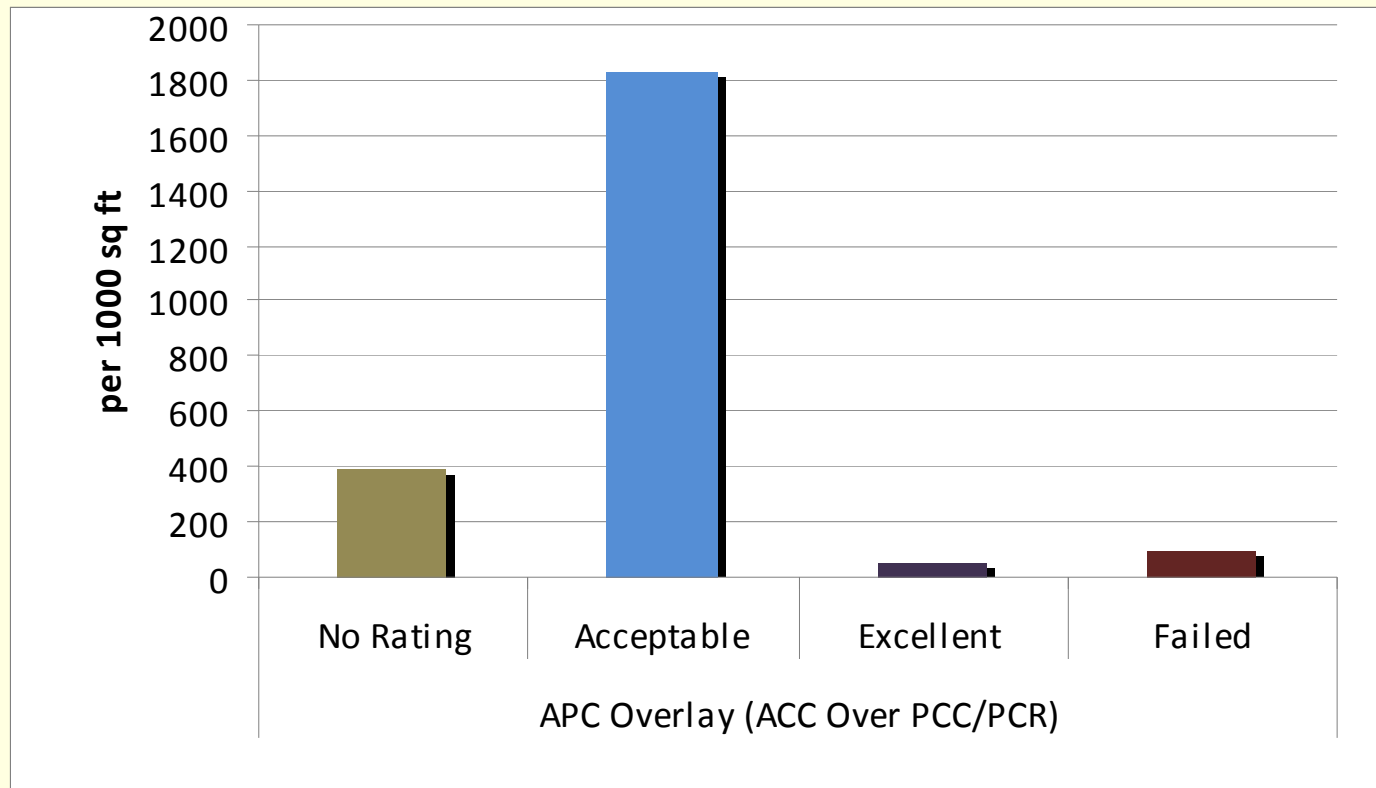
- Construction Projects
 - High Point Lane Bridge I & II
 - Rolling Hills Road
 - St Charles Round-A-Bout
 - Sunrise Estates Phase IV
 - Trails West Stormwater Improvement

Requirement

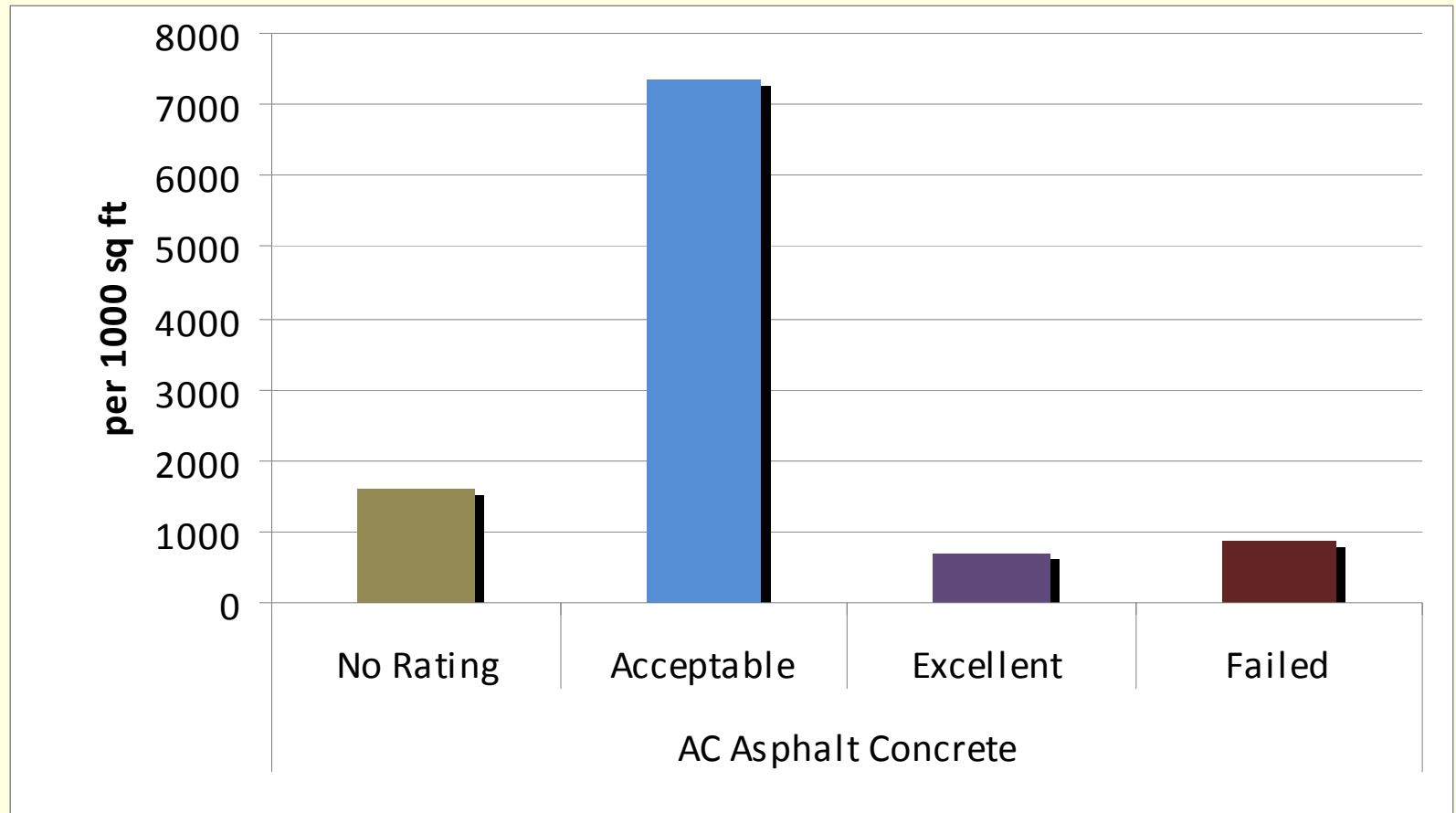


Report the general condition of
all established public
highways, roads, bridges and
culverts in the county

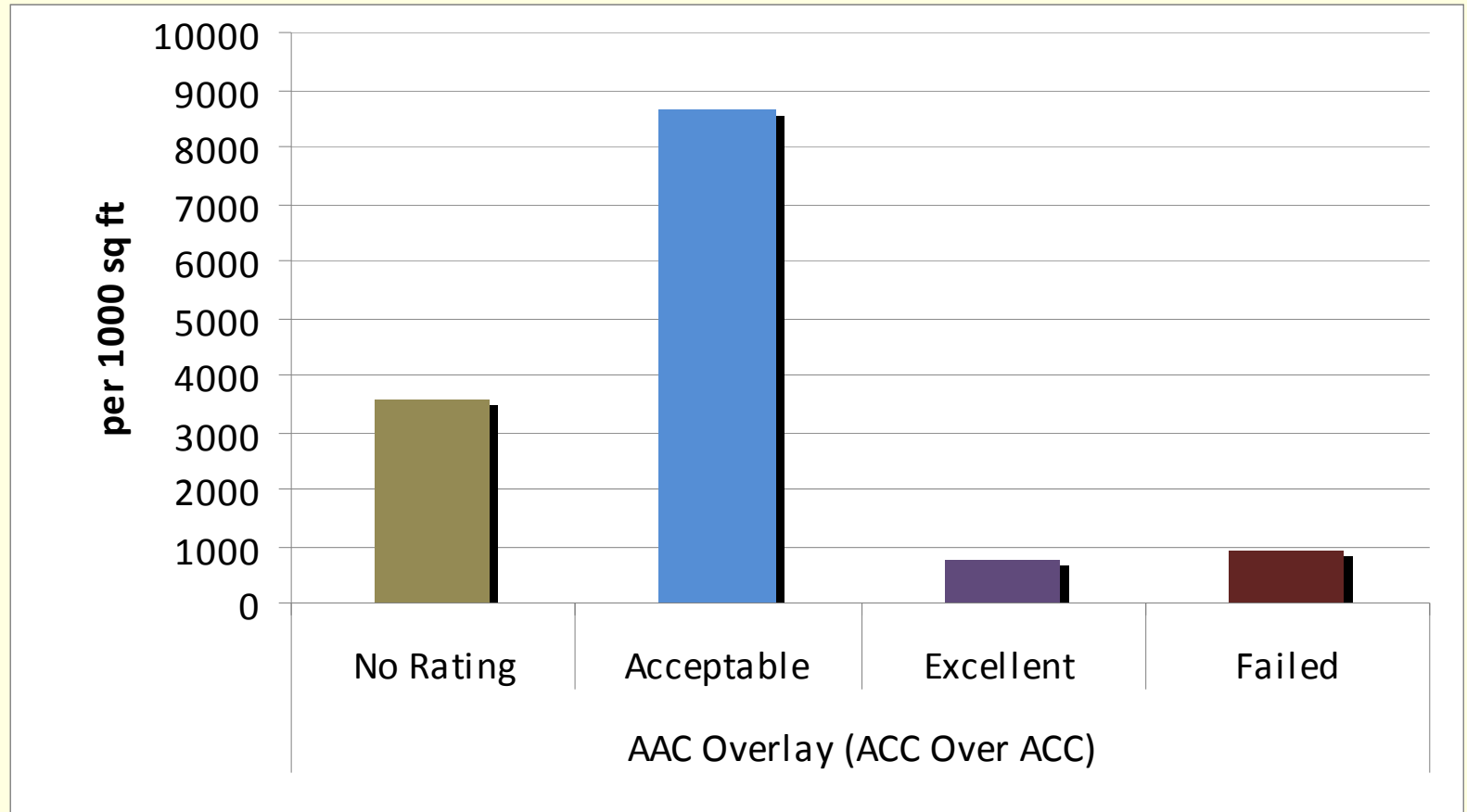
Road Surface: Asphalt Overlay over Concrete



Road Surface: Normal Asphalt



Road Surface: Asphalt Overlay over Asphalt



Goal Statement: Public Education & Confidence

Boone County shall educate the public in order to attain understanding and support for projects and programs.

Efforts Towards Public Education & Confidence

- Publish the annual report on the Boone County website
- Monthly project updates posted to the Boone County website
- Notices (letters, postcards or message board) to residents in the vicinity of a planned project
- Press releases of impending projects and road closures

Efforts Towards Public Education & Confidence

- Annual Utility Meeting to inform of planned projects
- Stormwater training seminars & workshops
- Development of stormwater door hangers & brochures
- Implementation of newsletters to keep staff & residents in the Urban Retrofit project area up-to-date on project reports
- Collaboration with the City & University on Public Service Announcement Videos

Additional Road & Bridge Responsibilities

- **Engineering Group**
 - Neighborhood Improvement District (NID)
 - Surveying
 - Right-of-Way Management
 - Traffic Counts

Neighborhood Improvement Districts

N.I.D.'s: means by which residents in a defined area fund certain public improvements with intent of turning improved subject over to the County for maintenance

Neighborhood Improvement Districts

	2011 Actual	2012 Estimate
New Applications	0	1
Applications on file	1	2
Active NID projects	0	1
NID projects approved	0	1
NID projects completed	0	0

Surveying

- Assembled topographic data for preparation of plans for projects
- Responded to requests regarding existing road rights-of-way
- Preserved property boundary markers & other survey markers before and after County projects

Surveying

- Stake temporary & permanent easements
- Wrote legal descriptions for easements in conjunction with road projects
- Reviewed plats of proposed Subdivisions & Administrative Surveys and submitted comments & suggestions regarding descriptions for easements relative to public roadways & utilities

Right of Way Administration

- Right of Way Acquisition – Negotiate with and explain process to landowners to obtain easements & access rights for projects
- Adopt-a-Road – Over see volunteer program to promote citizen participation in litter control
 - Currently have 29.5 miles of adopted roads

Right of Way Administration

- Right of Way Management – Create thorough record of land rights owned & maintained by Boone County
 - Work with GIS to maintain accurate database of easements

Traffic Counts

- Determine the frequency of vehicles on County maintained roads
- Uses – help determine appropriate road surface
- Reasons – yearly schedule, engineering safety study, background information for a joint project with an entity within Boone County

Traffic Counts

- Schedule – paved arterial & collector roads every 3 years; unpaved roads every 6 years
- Availability – most recent counts for each road available on the Boone County website

Additional Road & Bridge Responsibilities

- Maintenance Operations
 - Day to day road maintenance repairs
 - Crack sealing
 - Gravel placement & grading
 - Concrete panel replacement
 - Sign installation & maintenance
 - Vegetation Control - brush cutting & mowing
 - Snow Removal
 - Culvert and Ditch maintenance & repair

Additional Road & Bridge Responsibilities

- Stormwater Administration
 - Public Education about Stormwater issues & corrective measures
 - EPA (Environmental Protection Agency) Compliance
 - Ordinance Development & Compliance

Public Education about Stormwater Issues

- Presentations & Information Booths for various groups
- Training for County staff
- Develop & distribute fact sheets and brochures
- Opportunities for public involvement in stream clean up events
- Take part in development of Public Service Announcements

Public Education about Stormwater Issues

- Stream Care for Landowners Grant
 - Develop ways to reduce stream bank erosion
 - Held workshop to teach techniques to interested landowners & engineers



Public Education about Stormwater Issues

- Received Urban Retrofit grant to develop practices to reduce excess stormwater runoff & pollution
 - Held workshops & training events on rain gardens & rain barrels
 - Installed 17 rain barrels
 - Installed monitoring equipment to evaluate effectiveness of techniques in reducing pollution & volume of runoff

Environmental Protection Agency Compliance

- Results of 2011 EPA Stormwater Audit
 - Need additional inspection training for staff
 - Need improved record keeping requirements for contractors
 - Need to improve long-term maintenance of storm water practices

Ordinance Development & Compliance

- Develop County Ordinance
- Set Permit specifications
- Administer permit process

Ordinance Development & Compliance

2011 Permit Statistics	
Storm water prevention plans reviewed	19
Pre-application meetings held	21
Land disturbance permits issued	15
Storm water management permits issued	4
Pre-construction meetings held	9
Site inspections conducted	45
Notice of violation issued	3

Additional Road & Bridge Responsibilities

- Road Construction Inspection Group
 - Plan Review
 - Right-of-Way & Driveway Permits
 - Roadway Inspections & Compliance
 - Verification of Materials & Quantities

Plan Review

- Assist in reviewing areas for contracted upgrades (overlays, concrete panels, etc)
- Review plans for private development expected to be accepted for County maintenance
 - Must have a full understanding of planned project so can ensure a desirable outcome when applying County specifications & regulations

Right-of-Way & Driveway Permits

- Perform inspections when permits are issued for Right-of-Way & Driveway work to:
 - Ensure minimum public safety requirements are met
 - Ensure new driveways do not adversely affect adjacent public roadways
 - Ensure integrity & quality of public roads & right of ways during and after utility installation & repair

Roadway Inspections & Compliance

- Inspect Private Development construction to ensure County Standards & Regulations are observed for future County acceptance
- Perform final verifications that private development meets County subdivision & plat regulations
- Inspect contracted construction for adherence to design specifications
- Ensure contracted companies adhere to State & Federal regulations as they pertain to the contract

Verification of Materials & Quantities

- Verify materials used in contracted construction are as noted in contract
- Verify quantities billed for match quantities contracted & used
- Prepare any required change orders when quantities used differ from quantities estimated