

Missouri  
Department of  
Transportation

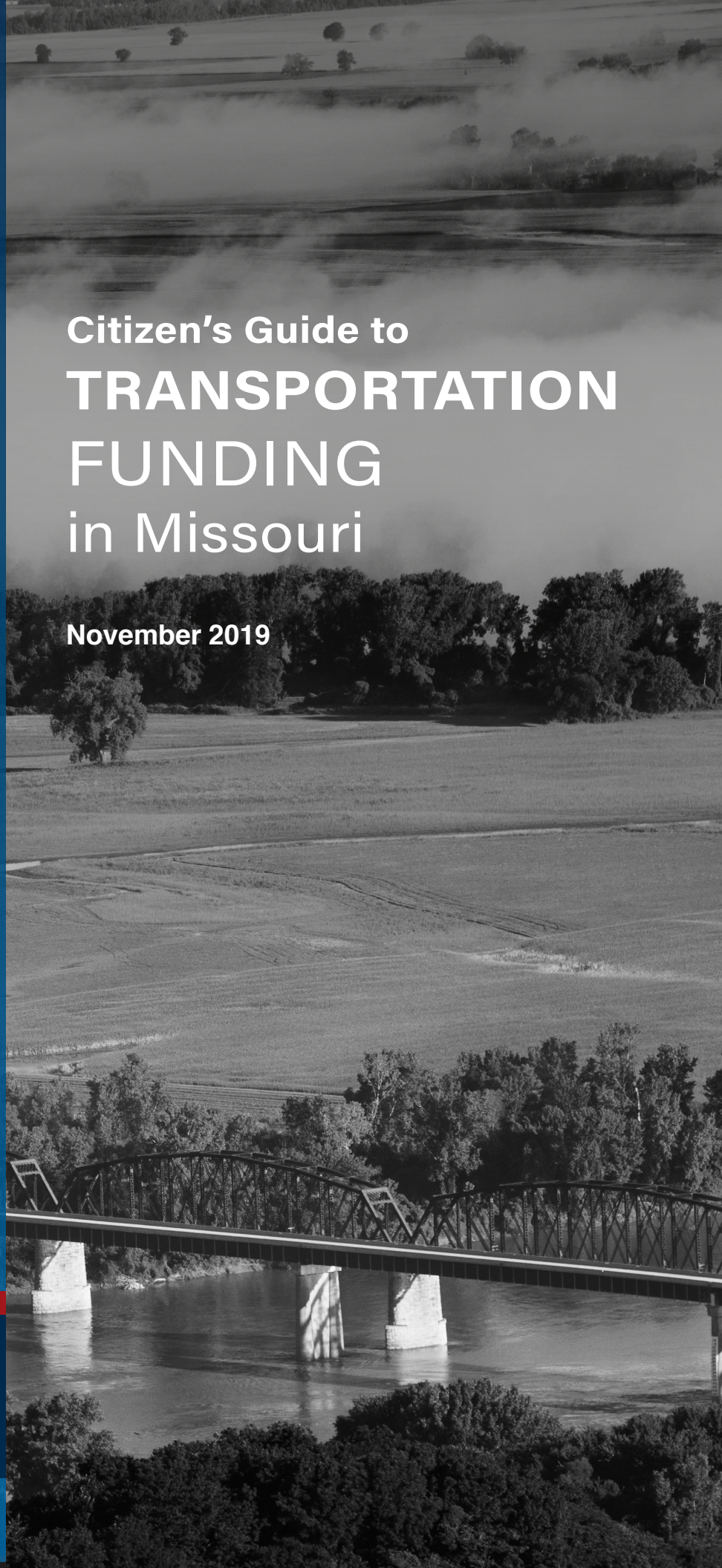


Citizen's Guide to  
**TRANSPORTATION  
FUNDING**  
in Missouri

November 2019



Missouri Department of Transportation  
[www.modot.org](http://www.modot.org)



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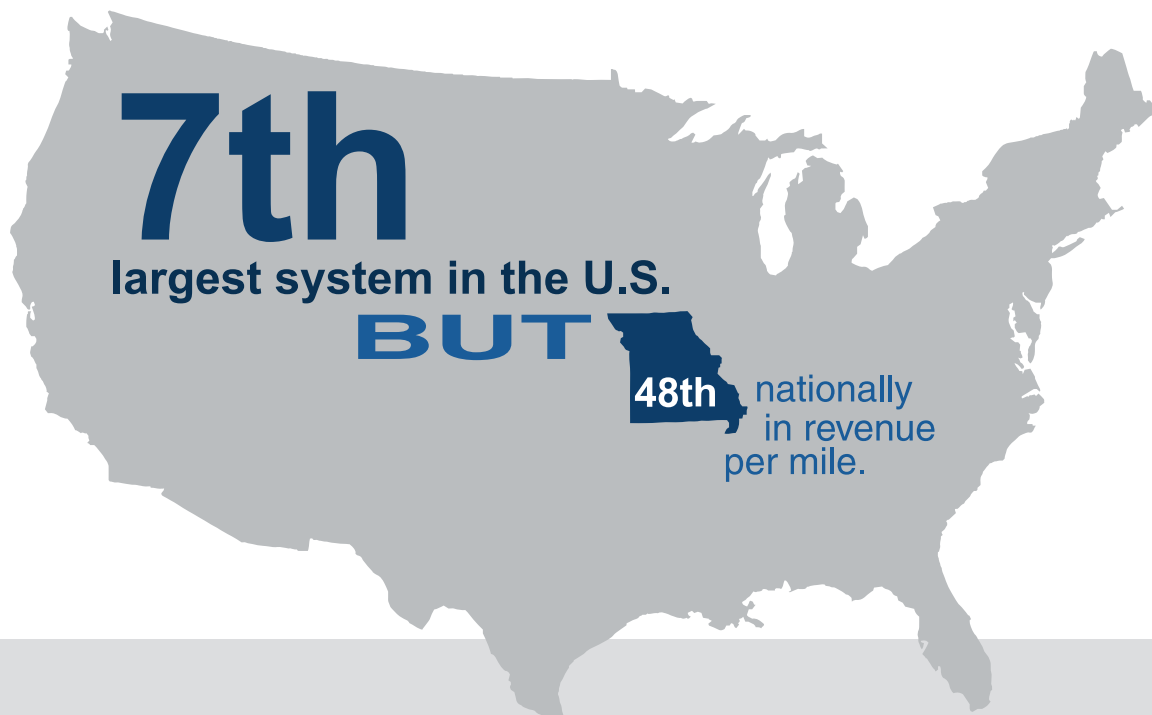
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## How Transportation Funding Works

**The citizens of the state of Missouri own a tremendous asset – the state transportation system.**

Missouri's transportation system is a tremendous asset. Built by our parents and grandparents and funded by \$56 billion in user fees (it has a \$125 billion replacement value today), it is the nation's seventh largest state highway system – a system that is larger than neighboring states Kansas and Illinois combined. Missouri's transportation system plays a vital part in the lives of its citizens. It is counted on to safely and reliably connect people with family, jobs and services, businesses with suppliers and customers, students with schools and visitors with destinations.





# How Transportation Funding WORKS

**The Citizen's Guide to Transportation Funding in Missouri** will further explain how transportation funding works, including how funds are distributed and invested across the state, and provide information on high-priority unfunded needs.

The primary sources of revenue provided to the Missouri Department of Transportation (MoDOT) to manage this system are **user fees: fuel taxes, registration and licensing fees and motor vehicle sales taxes.**

“When compared to other states, MoDOT ranks 48th in the nation in revenue per mile, which leads to **significant unfunded transportation needs** in the state.”

The average Missouri driver pays about \$30 per month in state and federal fuel taxes and fees. When commercial motor vehicle fees and federal general revenue transfers for transportation are included, the average climbs to \$48 per month. After distributions to other entities that are required by law, and payment of debt, MoDOT receives 59 percent of these funds to design, build, operate and maintain the system.

When compared to other states, MoDOT ranks 48th in the nation in revenue per mile, which leads to significant unfunded transportation needs across Missouri.

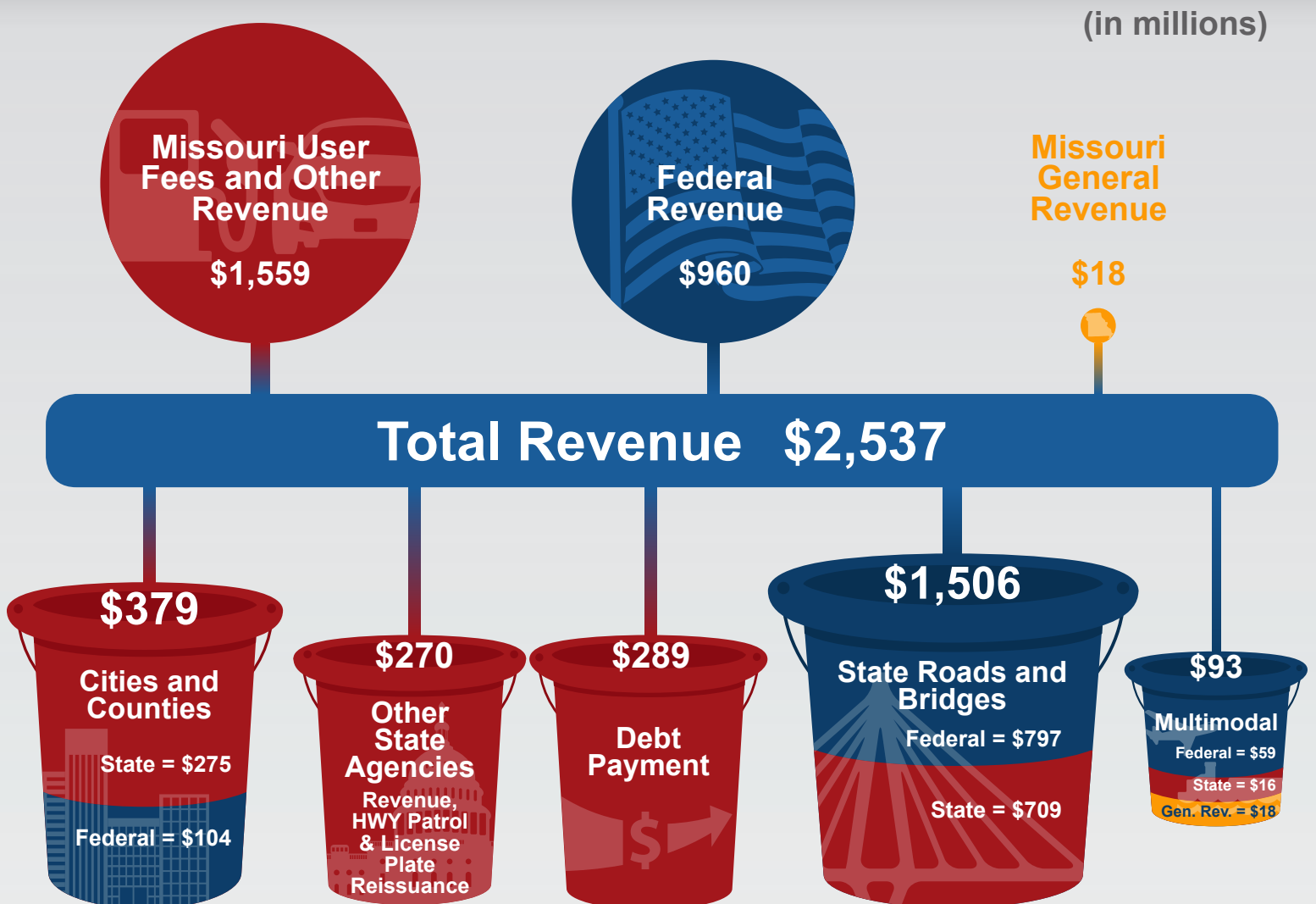


# OVERVIEW

## Missouri Transportation Funding – Overview

Missouri’s transportation revenue totaled over \$2.5 billion in fiscal year 2019. As shown below, nearly two-thirds of the revenue came from state user fees and one-third from federal revenue. A small fraction of funds came from Missouri’s General Revenue Fund, which receives revenue from the state income tax and the state’s general sales tax.

The \$2.5 billion of revenue is distributed into five “buckets” for various transportation purposes as determined by state and federal laws. Each bucket has a unique blend of state and federal revenue, as depicted by the red, blue and gold colors. The following pages provide a detailed look into each revenue source and funding bucket.



# Transportation Funding IN MISSOURI

## How Transportation is Funded in Missouri

The state transportation system is funded from three sources:

- Missouri User Fees and Other Revenue
- Federal Revenue
- Missouri General Revenue

### Missouri User Fees and Other Revenue

**\$1,559 million**

Missouri user fees are paid by the users of the transportation system and are dedicated for transportation use in the state<sup>1</sup>. They include fuel taxes, registration and licensing fees and motor vehicle sales taxes.

The largest source of revenue from Missouri user fees is the **state fuel tax**. The state fuel tax rate of 17 cents is paid for each gallon of gasoline and diesel fuel sold in Missouri.

<sup>1</sup> Missouri Constitution – Article IV, Section 30(b)

It is important to note that 17 cents per gallon is collected whether the price at the pump is \$1.99 or \$3.99. The 17-cents-per-gallon rate was last increased in 1996 and today has the purchasing power of only 6 cents – **less than half of what it could purchase 20 years ago**.

Each year, about four billion gallons of fuel are sold – three billion gasoline and one billion diesel. In fiscal year 2019, Missouri travelers paid **\$706 million** of state fuel taxes – nearly one-half of all Missouri transportation user fees.



# Transportation Funding IN MISSOURI

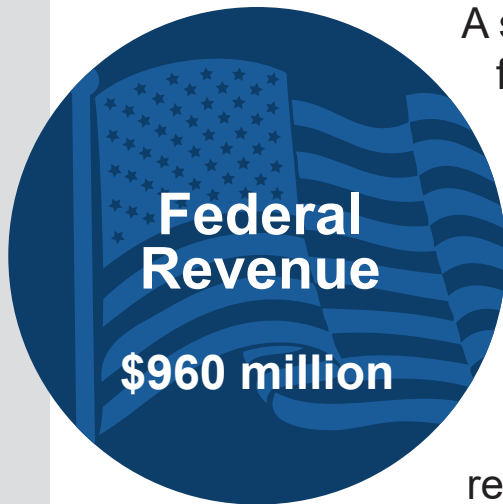
For Missourians who purchase or lease a **vehicle**, a 4.225% **state sales tax** is paid. State and local transportation receives revenue from 3.5% of the 4.225% state rate, which totaled **\$415 million** in fiscal year 2019. Revenue from the remaining 0.725% is dedicated to the School District Trust Fund, Department of Conservation and the Department of Natural Resources.

Missouri drivers also pay **vehicle registration and driver's licensing fees**. The fee amounts vary based on vehicle horsepower for passenger cars, vehicle weight for trucks and class of driver's license. Most of these fees were last increased in 1984, while some were last increased in 1969. In fiscal year 2019, Missourians paid **\$334 million** of vehicle registration and drivers licensing fees.

**Other revenue sources** include taxes on aviation fuel, railroad fees, interest earned on invested funds and highway construction cost reimbursement from local governments and surrounding states. In fiscal year 2019, Missouri received **\$104 million** in other revenue.

## In FY 2019, Missourians Paid:

- **\$706 million** in state fuel taxes,
- **\$415 million** in taxes on vehicle sales, and
- **\$334 million** in vehicle registration and license fees.



A significant amount of transportation funding comes from the federal government. Federal funding is generated by the federal fuel tax – 18.4 cents per gallon for gasoline and 24.4 cents per gallon for diesel. Other sources include various taxes on tires, heavy truck and trailer sales, heavy vehicle use tax and general revenue. These revenues are distributed to the states based on formulas prescribed

by federal law through transportation funding acts. The current transportation funding act, Fixing America’s Surface Transportation (FAST) Act, authorizes federal programs for the five-year period from 2016 through 2020.

The majority of federal revenue is dedicated to pay for a share of eligible highway improvement costs. The federal share for the eligible costs is typically 80 percent, with the state or local government providing a 20 percent match. The amount of federal funding available is fixed, so some eligible costs may not receive reimbursement.

“The federal share for the eligible costs is typically **80 percent**, with the state or local government providing a **20 percent match**.”



# Transportation Funding IN MISSOURI

Many operational costs for transportation, such as plowing snow and mowing right of way, are not eligible for federal reimbursement. In fiscal year 2019, Missouri received **\$778 million** of federal reimbursement for state highway improvements and **\$104 million** for cities and counties.

This revenue source also includes federal funding for multimodal grants totaling **\$59 million** in 2019. Transit (\$27 million), aviation (\$20 million) and rail (\$12 million) all receive federal funding. The remaining **\$19 million** is for highway safety grants to improve roadway safety.



In FY 2019,  
Missouri received:

- **\$778 million** in federal reimbursements on state highways,
- **\$104 million** for cities & counties and
- **\$78 million** for federal safety programs and multimodal grants.

## Missouri General Revenue

**\$18 million**



Missouri's General Revenue Fund provided **\$18 million** for transportation purposes in fiscal year 2019, or 0.7% of transportation revenue. The major sources of funding for Missouri's General Revenue Fund are the state income tax and general sales tax.

The Missouri General Assembly allocates these funds through the annual appropriations process during the state's legislative session. This annual process can be challenging for transportation funding as many projects require a multi-year funding commitment to go through planning, design and construction.

General Revenue Funds can be used for any transportation improvement as directed by the Missouri General Assembly. The \$18 million in fiscal year 2019 was directed to multimodal funding.



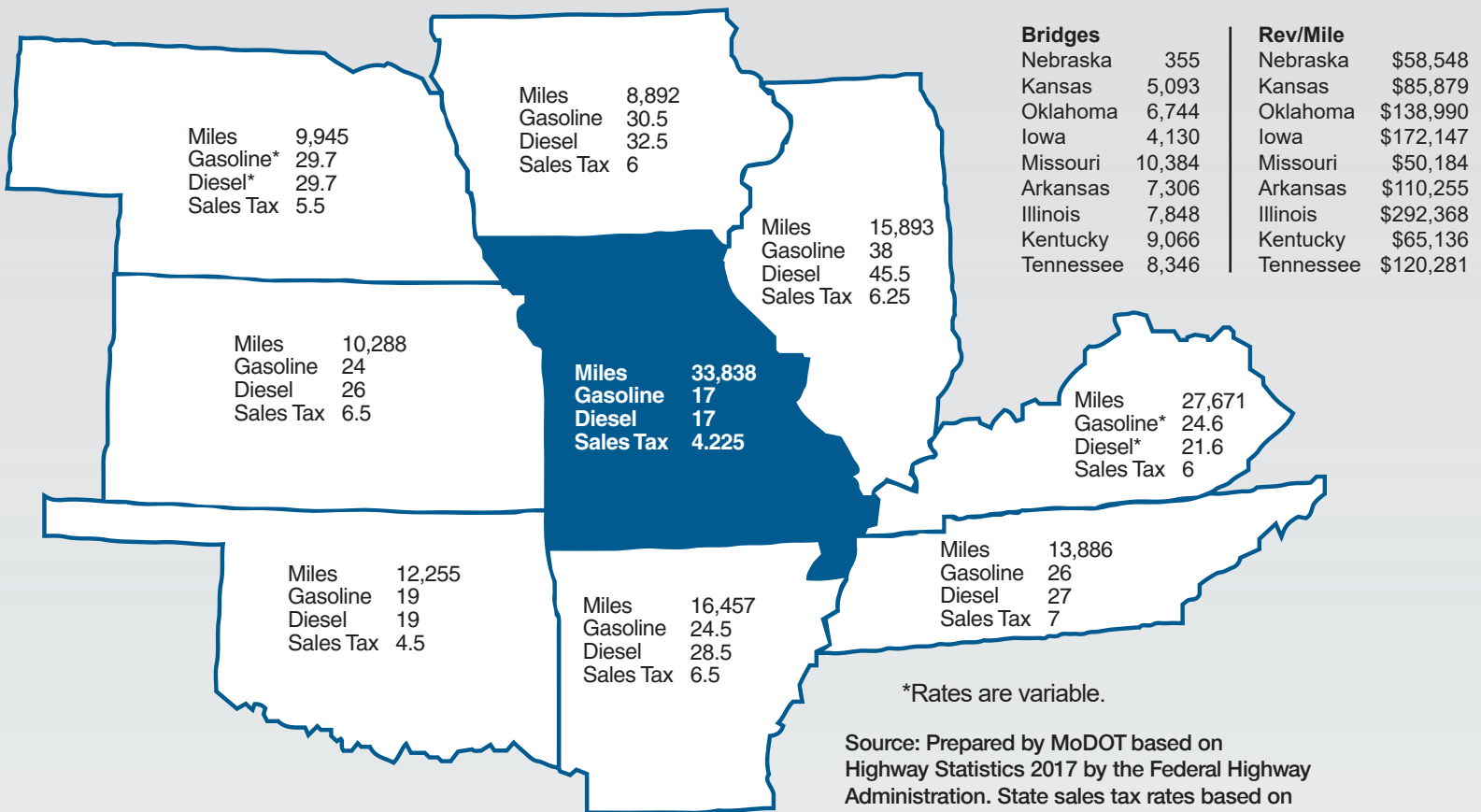
# How Does Missouri COMPARE?

## How Missouri Compares to the Nation and its Neighboring States

Missouri ranks 48th nationally in revenue per mile, primarily because the state's large system – the nation's seventh largest with 33,838 miles of highways – is funded with one of the lowest fuel taxes in the country: 17 cents per gallon. Missouri also ranks seventh nationally in the number of bridges with 10,384. This does not include the city and county system of roads and bridges, which includes an additional 97,000 miles of county roads and city streets, and nearly 14,000 bridges.

### Missouri Lags Behind

Missouri has a lower fuel tax rate than any of its neighbors. Yet it has a larger state-maintained highway system than any of them.

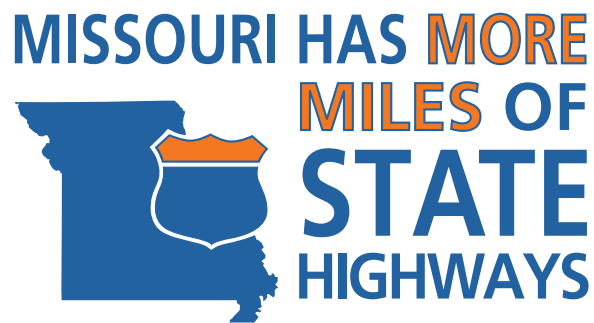


Gasoline and diesel fuel tax rates are shown in cents per gallon.  
Miles are shown in center line miles of the state maintained highway system.

Over the last 20 years, due to inflation and ever-improving vehicle fuel economy, the purchasing power of Missouri's state fuel tax has effectively dropped from 17 cents to 6 cents during a time when the cost of the primary road and bridge building materials of asphalt, concrete and steel have doubled. Labor costs have also significantly risen during that time frame.

Missouri's revenue per mile is \$50,184, while the national average is \$225,794. By contrast, New Jersey's revenue per mile of \$1,867,334 ranks first, although its state highway system includes only 2,321 miles and 2,393 bridges.

When compared to its eight surrounding states, Missouri has the largest state highway system and lowest fuel tax rate of 17 cents per gallon. Several of Missouri's surrounding states also benefit from additional revenue sources for transportation like tolling and general sales taxes.



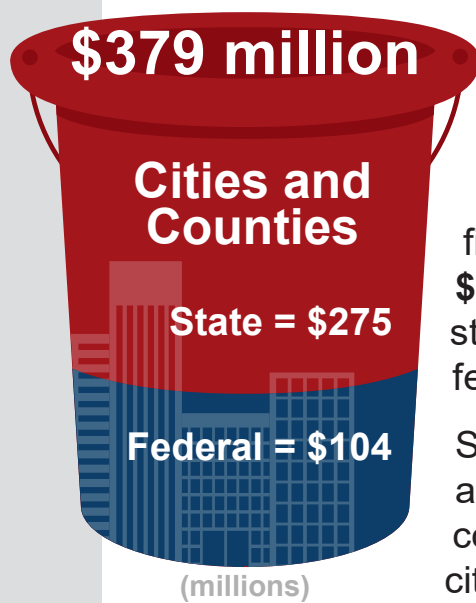
THAN IOWA, NEBRASKA AND KANSAS COMBINED



# Where is the money INVESTED?

## Where is the Money Invested?

MoDOT does not receive the entire \$2.5 billion of transportation revenue, or the \$30 per month from the average Missouri driver. After allocations to cities, counties, other state agencies and debt payment, MoDOT received \$1.5 billion of transportation revenues in fiscal year 2019 to invest in the state transportation system. That equates to about \$18 of the \$30 per month Missouri drivers are paying.

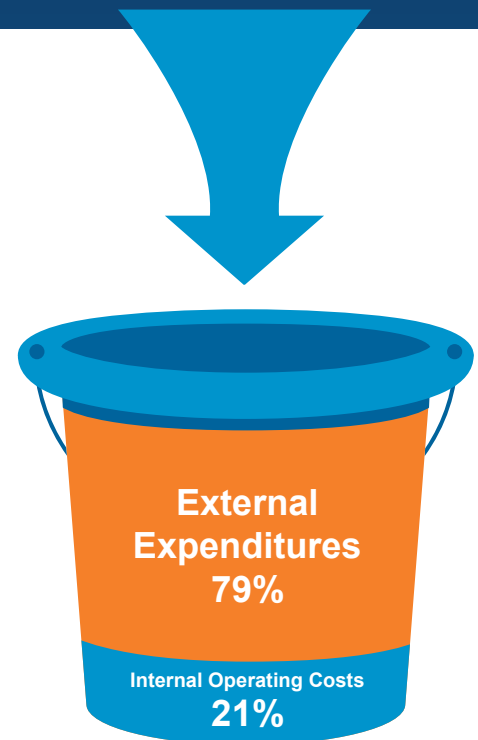


Cities and counties in Missouri receive a share of state and federal transportation revenues for projects of their choosing. In fiscal year 2019, that totaled **\$379 million** – \$275 million in state funds and \$104 million in federal funds.

State funds are distributed as specified in the state constitution<sup>2</sup>. For fuel taxes, cities and counties receive 4.55 cents of the 17 cents per gallon rate, or about 27 percent. In fiscal year 2019, this totaled **\$189 million**. For vehicle registration and driver's licensing fees, cities and counties received **\$29 million**, or about 9 percent. For motor vehicle sales tax, cities and counties received **\$57 million**, or about 14 percent.

<sup>2</sup> Missouri Constitution – Article IV, Sections 30(a) and 30(b)

How much of MoDOT investment flows directly to the private sector?



The distribution of federal funds is prescribed by federal law through transportation funding acts. The majority of federal revenue is dedicated to reimburse a share of eligible costs, which is typically 80 percent.

The federal transportation programs for cities and counties include:

- Off-System Bridge,
- Congestion Mitigation and Air Quality,
- Surface Transportation Block Grant Programs and
- Transportation Alternatives Programs – these funds encompass a variety of smaller-scale transportation projects such as pedestrian and bicycle facilities, recreational trails and other community improvements.

The majority of cities and counties also receive additional local revenues – most often from additional sales and property taxes – to build and maintain city streets and county roads. These amounts are not included in the totals discussed here.

The Missouri Constitution and state and federal laws determine how transportation funds are allocated to states, cities and counties.

# Where is the money INVESTED?



Per the Missouri Constitution<sup>3</sup>, the Missouri Department of Revenue (DOR) and the Missouri State Highway Patrol (MSHP) also receive transportation revenue. In fiscal year 2019, the amount totaled \$270 million.

The Highway Patrol receives funding for administering and enforcing state motor vehicle laws and traffic regulations. The Missouri General Assembly determines the amount available to the MSHP each year – \$239 million was spent in fiscal year 2019.

The Department of Revenue receives funding for the cost to collect transportation taxes and fees. The cost of collection cannot exceed three percent of the particular tax or fee collected. In fiscal year 2019, the DOR received \$21 million. Also in fiscal year 2019, \$10 million was spent on the bicentennial license plate reissuance.

<sup>3</sup> Missouri Constitution – Article IV, Section 30(b)

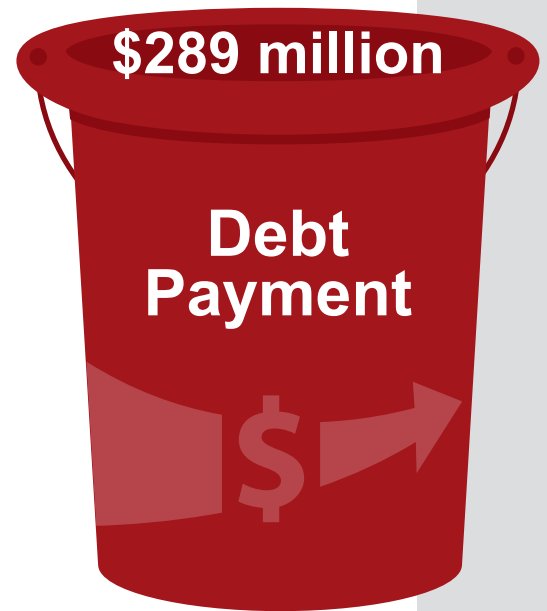
MoDOT, the Highway Patrol and the Department of Revenue are the only state agencies that may receive transportation dollars.



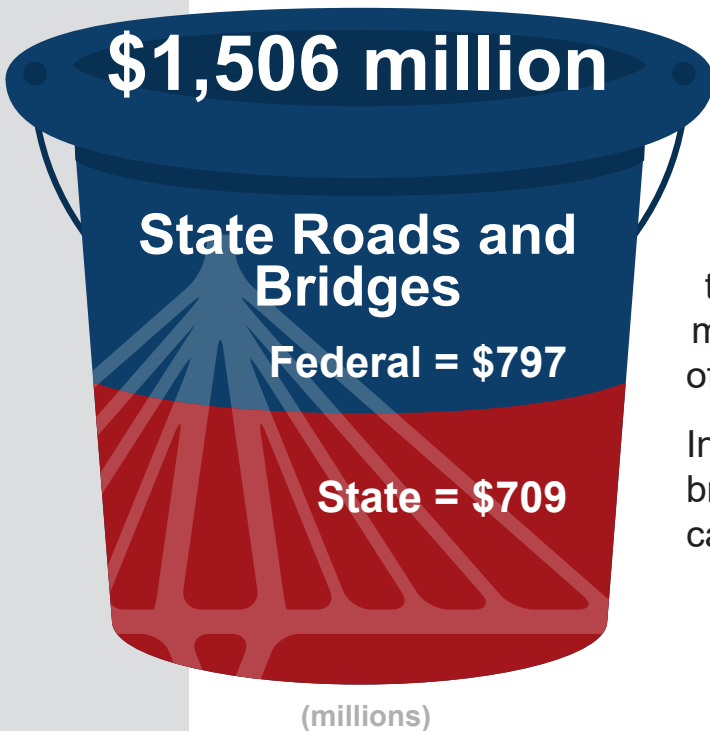
From 2000-2010, MoDOT sold bonds that provided additional resources for highway improvements. Bonds are debt and similar to a home mortgage – this debt must be repaid over time. The total debt payment in fiscal year 2019 totaled \$289 million.

MoDOT has three kinds of bonds: senior bonds that were authorized by the Missouri General Assembly in 2000; Amendment 3 bonds that were authorized by Missouri voters in 2004; and federal GARVEE (Grant Anticipation Revenue Vehicle) bonds that financed specific projects. Borrowing advanced construction and allowed Missouri to avoid inflation in labor and materials costs; however, borrowed money must be repaid and new borrowing should be enabled with dedicated and reliable additional revenue to cover repayment and maintain credit ratings.

Senior bonds will be paid off by 2023, Amendment 3 bonds will be paid off by 2029 and GARVEE bonds will be paid off by 2033. The average interest rate on all outstanding debt combined is 2.72 percent.



# Where is the money INVESTED?



After distributions to cities and counties, other state agencies and the debt payment, 59 percent of transportation revenue is available for state roads and bridges. These are the funds that enable MoDOT to design, construct, operate and maintain a network of 33,838 miles of highways and 10,384 bridges.

Investments for state roads and bridges are summarized into five categories:

- Construction Program
- Maintenance
- Fleet, Facilities and Information Systems
- Administration
- Highway Safety Programs

The majority of MoDOT's expenditures are payments to vendors. The payments are for goods and services needed to build and maintain Missouri's transportation infrastructure. Whether it be payments to contractors, the purchase of equipment and supplies, design services or travel costs, these outward focused expenditures are an investment in Missouri's economy, and drive economic opportunity in the state.



**The construction program** is the largest area of investment in MoDOT's budget, totaling **\$942 million** in fiscal year 2019. It includes payments to contractors to build projects that maintain and improve the system (\$759 million), MoDOT engineering costs associated with administering and monitoring the construction program – including salaries, wages and fringe benefits (\$132 million), payments to engineering design consultants (\$46 million) and the cost of acquiring right of way (\$5 million).

The **maintenance** expenditures, totaling **\$466 million** in fiscal year 2019, pay for the services performed by MoDOT employees like plowing snow and mowing. But it also includes maintaining the pavements on the state's lower-volume routes, many of which are not eligible for federal reimbursement. It covers utilities, tools and materials needed in maintenance buildings across the state, bridge maintenance, signing, striping, sweeping, rumble stripes, lighting, etc. The maintenance budget also allows for traveler information and incident management services.

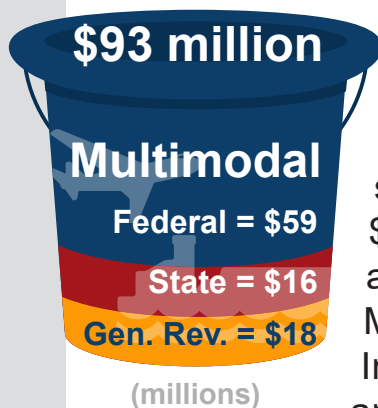
**Fleet, facilities and information systems** investments, totaling **\$78 million** in fiscal year 2019, cover the costs of purchasing MoDOT's fleet of trucks, constructing and maintaining MoDOT buildings and providing information technology that is needed for MoDOT to perform maintenance and engineering functions.

# Where is the money INVESTED?

MoDOT's **administrative** costs – the third lowest in the nation – were **\$52 million** in fiscal year 2019. That includes salaries, wages and fringe benefits to provide support services like human resources, accounting, legal, executive management, customer service, etc. Administration also includes medical insurance costs for MoDOT retirees.

Road and bridge investments include **\$18 million** for **highway safety** programs that reduce fatalities and serious injuries, which includes salaries, wages and fringe benefits.

In total, MoDOT invested **\$1.556 billion** on state roads and bridges in fiscal year 2019.



Multimodal includes non-highway modes of transportation such as transit, aviation, railroads and waterways. The majority of transportation revenue is legally required to be spent on state roads and bridges, leaving only \$93 million, or about four percent of total revenue, available for multimodal needs. Unlike highways, MoDOT does not own multimodal facilities. Instead, MoDOT's role is to administer funding and provide an oversight role for multimodal improvements. Many of the multimodal entities receive local tax revenue and direct federal funding, which are not included in these amounts.

MoDOT administered \$24 million of **aviation** funds in fiscal year 2019. Missouri has dedicated taxes on aviation fuel to fund improvements to public use airports in Missouri. MoDOT also administers federal funding to improve airfield pavement conditions and lighting systems, eliminate obstructions and for expansion projects.



In fiscal year 2019, MoDOT administered \$31 million of **transit** funds. The majority of these funds are from federal programs that support operating costs and bus purchases for transit agencies across the state. There is a small amount of state and General Revenue funding to support operating costs for transit agencies.

MoDOT administered \$22 million of **rail** funds in fiscal year 2019. These funds are used to support two programs – the Amtrak passenger rail service between St. Louis and Kansas City, and safety improvements at railroad crossings. The Amtrak funding is from General Revenue, and safety improvements at railroad crossings are from state and federal sources.

**Waterways** funding totaled \$8 million in fiscal year 2019. These funds provided operating and capital assistance to Missouri's river ports and ferry boat operators.

MoDOT also administers a \$1 million **freight** enhancement program that provides assistance to public, private or not-for-profit entities for non-highway capital projects that improve the efficient flow of freight in Missouri.

Internal operating costs to administer the various multimodal programs totaled \$3 million, including salaries, wages and fringe benefits.

In fiscal year 2019, MoDOT administered \$89 million for multimodal needs.

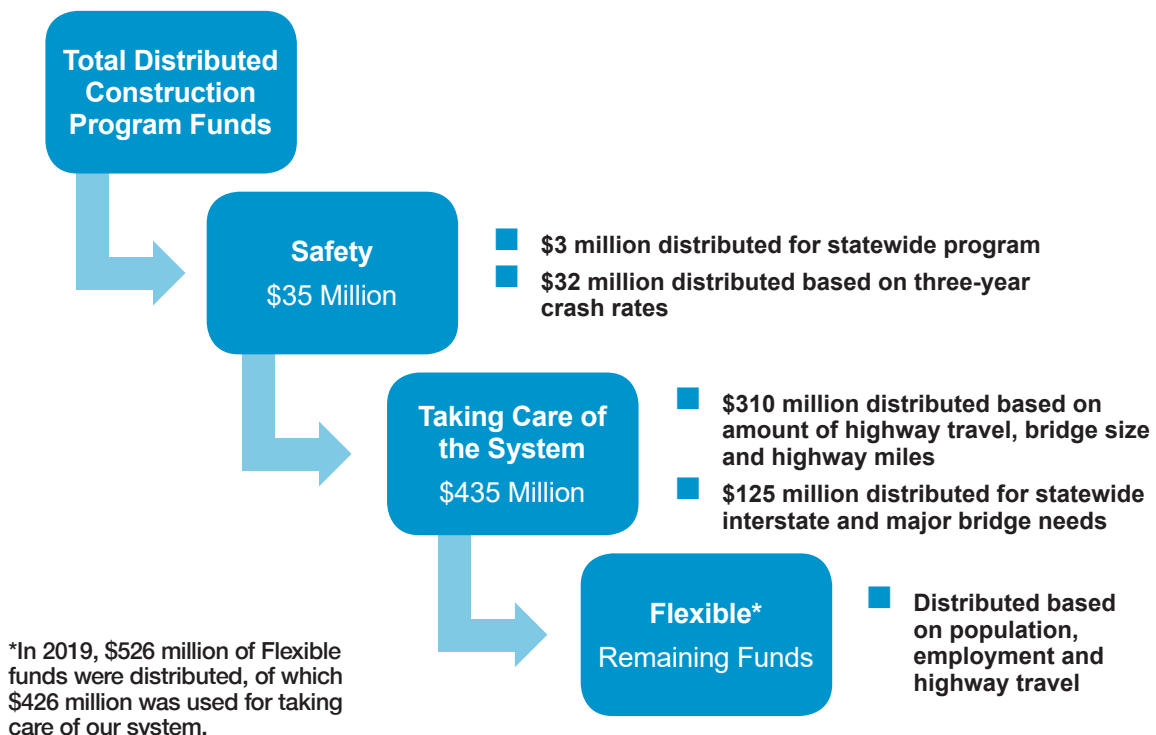


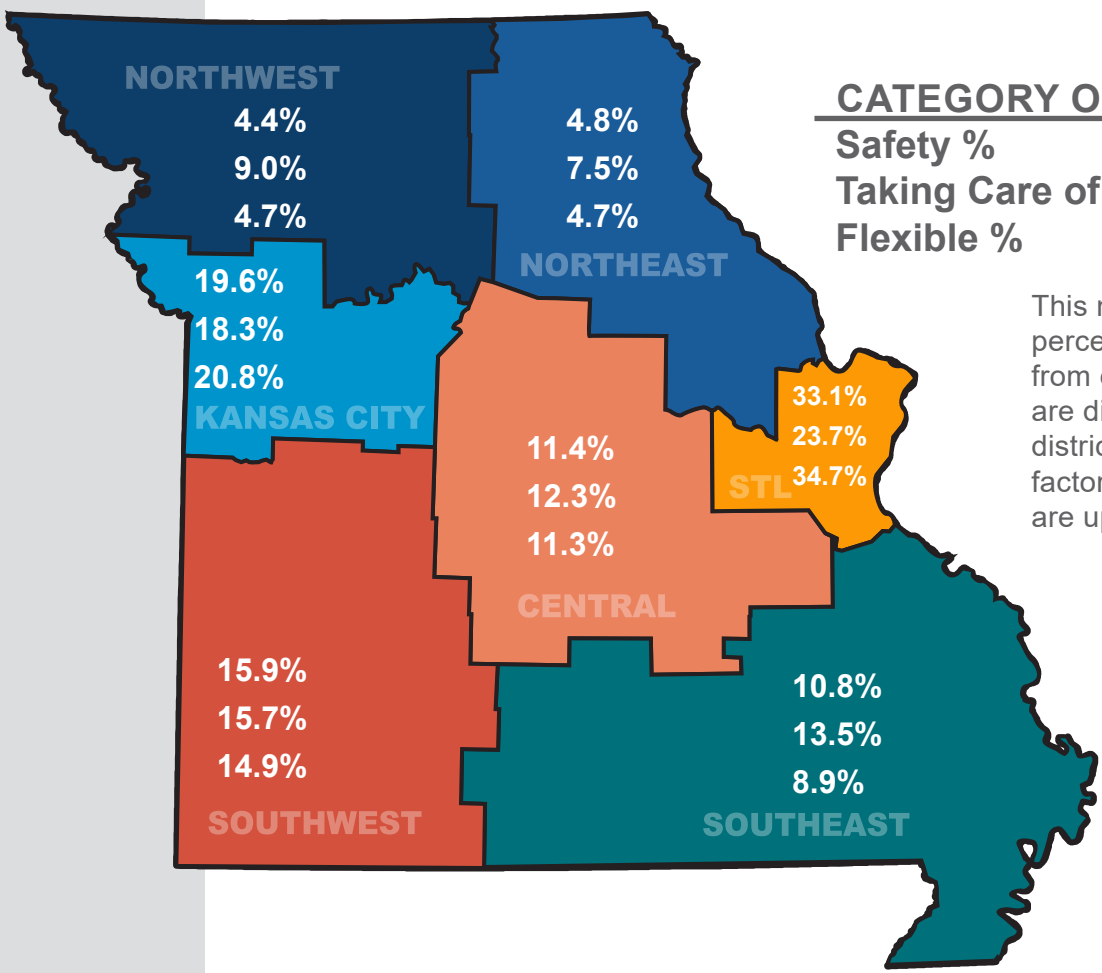
# MoDOT Funding DISTRIBUTION

## How is MoDOT's Funding Distributed Across the State?

Since 2003, the Missouri Highways and Transportation Commission has used a formula to distribute construction program funds for road and bridge improvements to each of its seven districts. This is the largest area of MoDOT's budget that provides funding for safety improvements, taking care of the system and flexible funds that districts can use to take care of the system or invest in major projects that relieve congestion and spur economic growth. In many districts, taking care of the system funds are not sufficient to maintain current system conditions. Districts use flexible funds to make up the difference.

Construction program funds are allocated annually to districts using the following formula:





**CATEGORY ORDER:**

- Safety %**
- Taking Care of the System %**
- Flexible %**

This map shows the percentage of funds from each category that are distributed to each district, based on 2019 factors. Those factors are updated annually.

Once construction program funds are distributed to districts, MoDOT collaborates with regional planning groups to identify local priorities based on projected available funding. The regional transportation improvement plans are brought together to form the department's Statewide Transportation Improvement Program, which outlines five years of transportation improvements. As one year of the plan is accomplished, another year is added.

# MoDOT Funding DISTRIBUTION

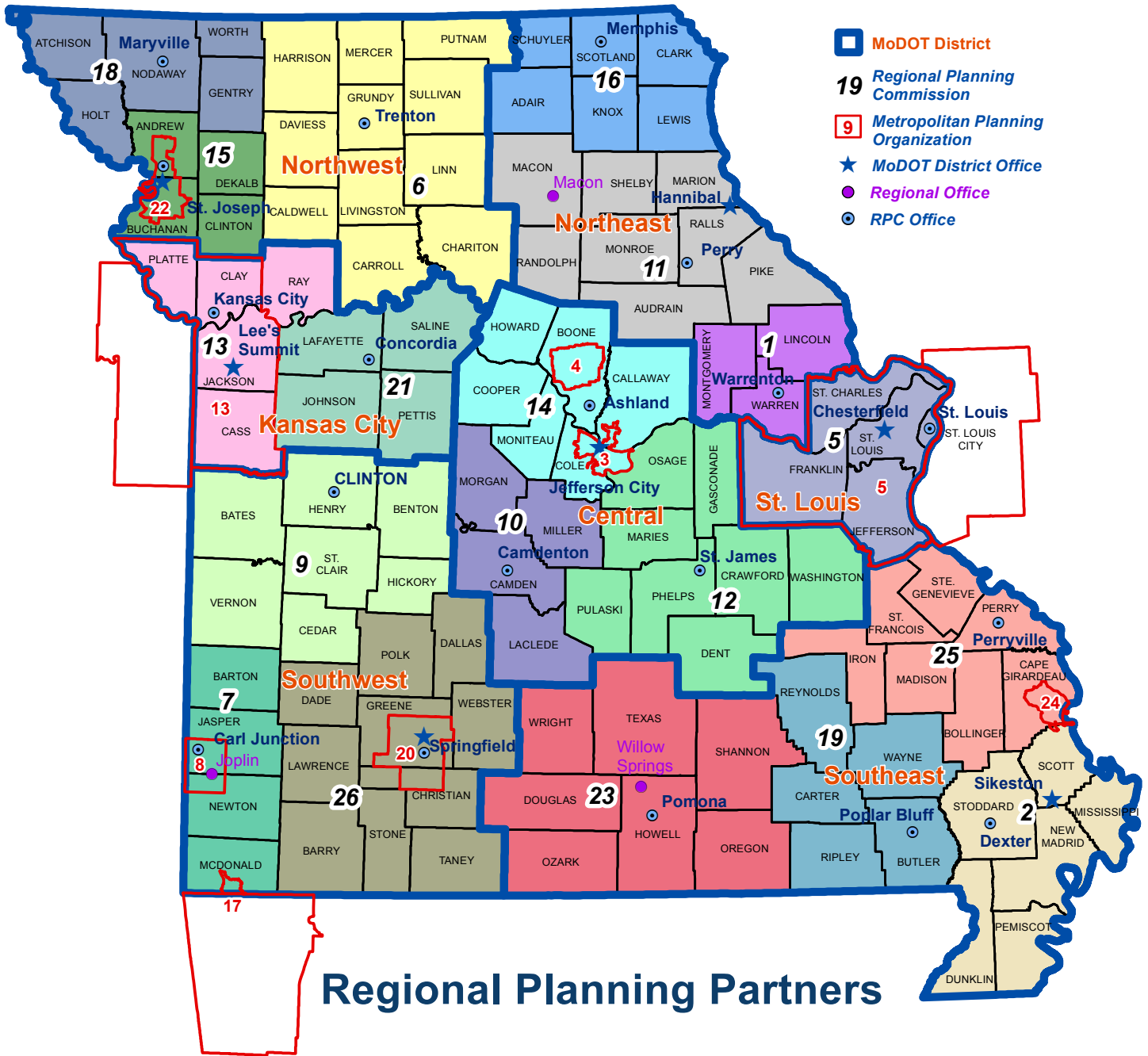
There are two types of regional planning groups in the state: urban areas have Metropolitan Planning Organizations, and rural areas have Regional Planning Commissions. Board members for each of these groups are typically city and county leadership, elected officials and local business owners.

The regional planning groups reach out to local citizens to identify transportation needs. MoDOT staff assists regions to prioritize those needs based on road and bridge conditions, traffic safety data and overall mobility. The prioritization process also includes balancing priorities with available funds.

**MoDOT's planning framework** involves local citizens from start to finish – an approach that has earned MoDOT recognition as a national leader in public involvement.

Funding for MoDOT operations consists of costs for staff and expenses for maintenance, fleet, facilities and information systems activities. The funding distribution for MoDOT staff costs is based on the number of personnel needed in each district to provide the services to the public, including snow removal, mowing right of way and maintaining roadsides. The budget for expenses, such as salt, paint and fuel, are distributed to districts based on the number of highway miles, highway travel and minor roads that are in poor condition.





## Regional Planning Partners

1. Boonslick Regional Planning Commission	14. Mid-Missouri Regional Planning Commission
2. Bootheel Regional Planning & Economic Development Commission	15. Mo-Kan Regional Council
3. Capital Area Metropolitan Planning Organization	16. Northeast Missouri Regional Planning Commission
4. Columbia Area Transportation Study Organization	17. Northwest Arkansas Regional Planning Commission
5. East West Gateway Council of Governments	18. Northwest Missouri Regional Council of Governments
6. Green Hills Regional Planning Commission	19. Ozark Foothills Regional Planning Commission
7. Harry S. Truman Coordinating Council	20. Ozarks Transportation Organization
8. Joplin Area Transportation Study Organization	21. Pioneer Trails Regional Planning Commission
9. Kaysinger Basin Regional Planning Commission	22. St. Joseph Area Transportation Study Organization
10. Lake of the Ozarks Council of Local Governments	23. South Central Ozark Council of Governments
11. Mark Twain Regional Council of Governments	24. Southeast Metropolitan Planning Organization
12. Meramec Regional Planning Commission	25. Southeast Missouri Regional Planning and Economic Development Commission
13. Mid America Regional Council	26. Southwest Missouri Council of Governments

# MoDOT Funding DISTRIBUTION

When adding the construction program, operations, administration and highway safety programs together, the following amounts were spent in districts for fiscal year 2019:

(\$ Millions)

District	Construction Program	Operations*	Admin**	HWY Safety Programs	Total
Northwest	\$77	\$63	\$2	-	\$142
Northeast	\$73	\$55	\$2	-	\$130
Kansas City	\$199	\$58	\$3	3	\$263
Central	\$104	\$70	\$2	-	\$176
St. Louis	\$209	\$64	\$2	3	\$278
Southwest	\$131	\$81	\$2	1	\$215
Southeast	\$112	\$81	\$2	-	\$195
Statewide***	\$37	\$72	\$37	\$11	\$157
<b>Total</b>	<b>\$942</b>	<b>\$544</b>	<b>\$52</b>	<b>\$18</b>	<b>\$1,556</b>

\*Includes \$466 million of maintenance expenditures and \$78 million of fleet, facilities and information system expenditures.

\*\*According to the Reason Foundation, MoDOT's administrative costs are 3rd lowest in the nation for state departments of transportation.

\*\*\*Statewide administrative costs include \$18 million for medical insurance costs for MoDOT retirees.

Since spending can fluctuate from year to year, the table below provides the amounts based on the three-year average from fiscal years 2017 through 2019:

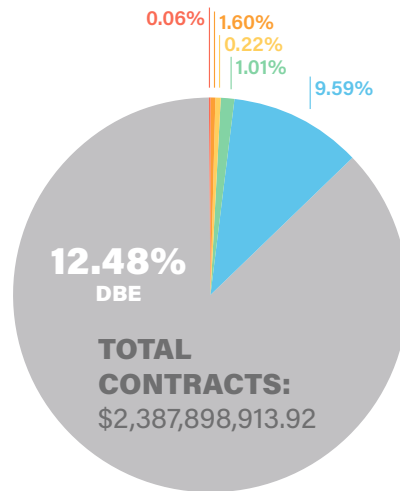
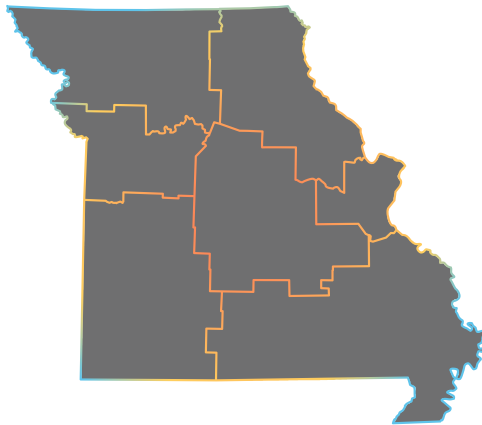
(\$ Millions)

District	Construction Program	Operations	Admin	HWY Safety Programs	Total
Northwest	\$56	\$61	\$2	-	\$119
Northeast	\$65	\$53	\$2	-	\$120
Kansas City	\$192	\$57	\$3	2	\$254
Central	\$107	\$68	\$2	-	\$177
St. Louis	\$216	\$63	\$3	2	\$284
Southwest	\$125	\$80	\$2	1	\$208
Southeast	\$101	\$82	\$2	-	\$185
Statewide	\$37	\$73	\$36	\$13	\$159
<b>Total</b>	<b>\$899</b>	<b>\$537</b>	<b>\$52</b>	<b>\$18</b>	<b>\$1,506</b>

# Disadvantaged Business Enterprises

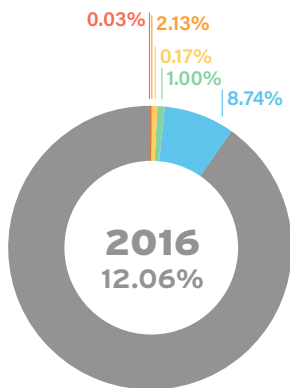
The Disadvantaged Business Enterprise program is a federally mandated program administered by MoDOT's External Civil Rights Division. The program's overall goal is to provide opportunities to participate in the economic benefits of highway construction to small businesses owned and operated by disadvantaged individuals.

## Statewide TOTAL FFY 16-18

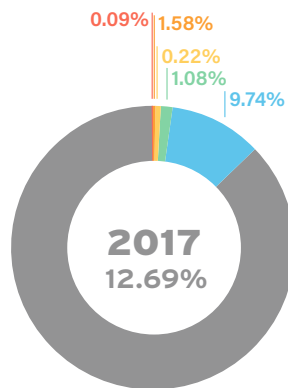


**TOTAL DBE PARTICIPATION COMMITTED:**  
\$298,634,212.21

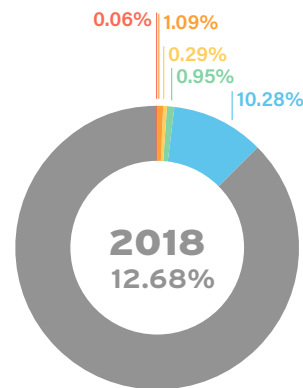
ASIAN AMERICAN	\$1,459,222.95
BLACK AMERICAN	\$37,115,368.57
HISPANIC/LATINO AMERICAN	\$5,474,189.53
NATIVE AMERICAN	\$24,109,050.33
NON-MINORITY (Female & Male)	\$230,476,380.83



TOTAL: \$682,964,521.84  
DBE: \$82,380,029.17

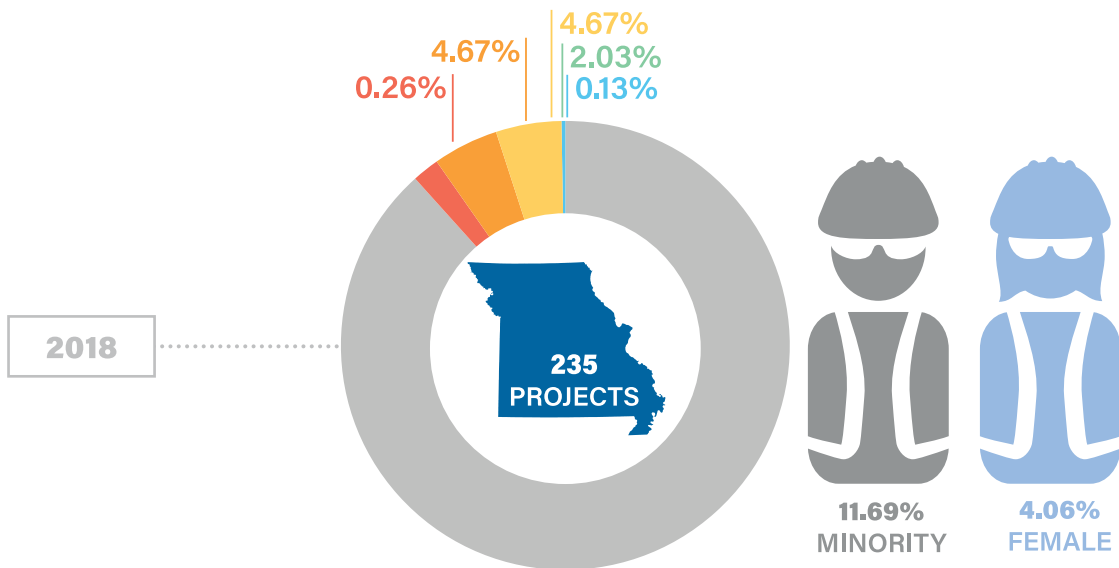
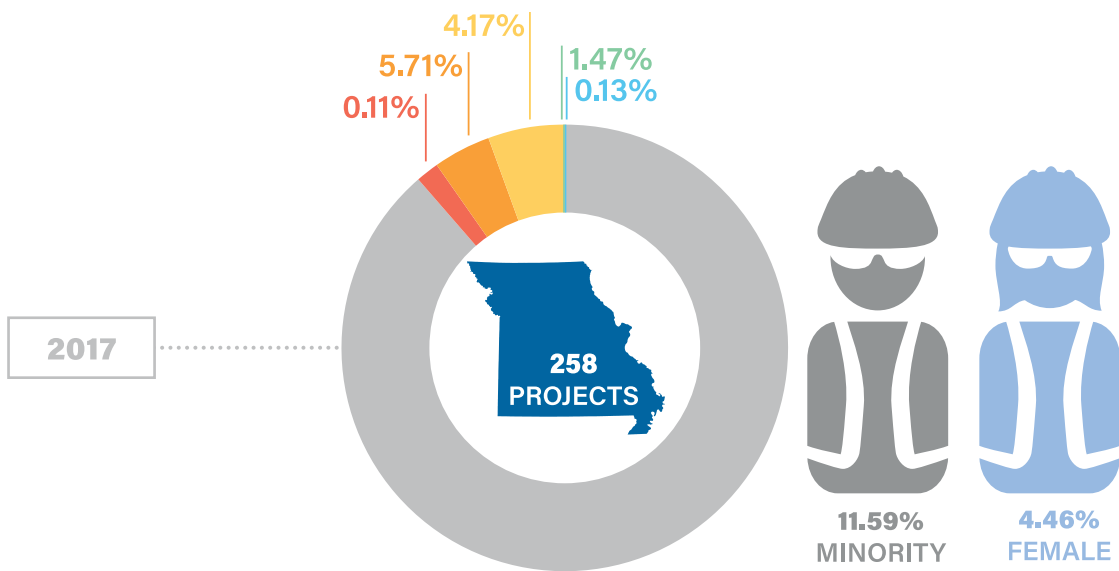


TOTAL: \$825,032,846.27  
DBE: \$104,717,721.89



TOTAL: \$879,901,545.81  
DBE: \$111,536,461.15

# MoDOT Contractor Workforce Analysis by Ethnicity and Gender



- ASIAN AMERICAN
- BLACK AMERICAN
- HISPANIC/LATINO AMERICAN
- NATIVE AMERICAN
- PACIFIC ISLANDER

Sources: MoDOT Tracker, Annual Federal Highway Report by percentage of employees  
[www.modot.org/welcome-external-civil-rights](http://www.modot.org/welcome-external-civil-rights)



# The Cost of OPERATIONS

## How Much Does It Cost to Operate the Transportation System?

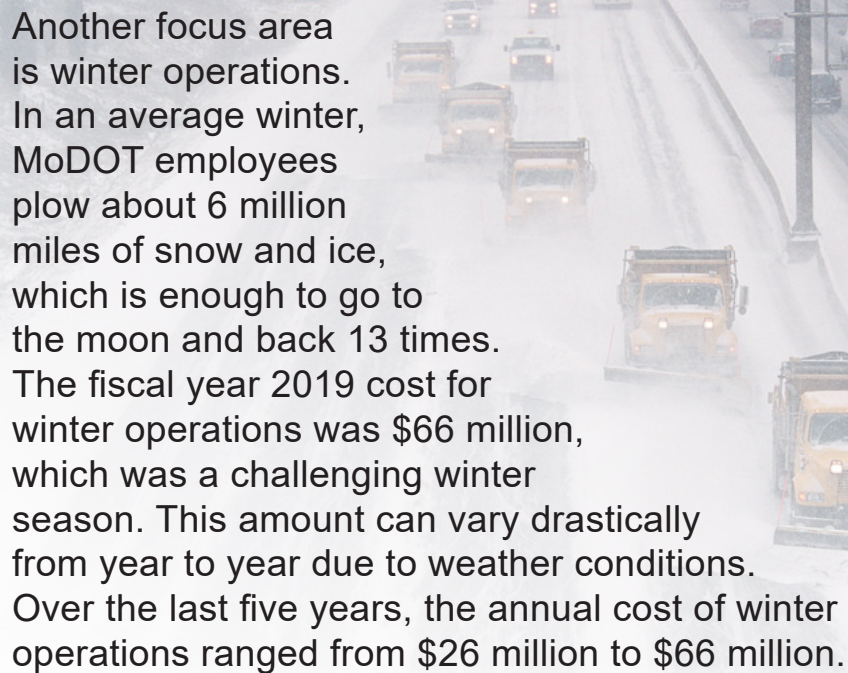
MoDOT employs 3,000+ field employees throughout the state to operate and maintain the transportation system. In fiscal year 2019, MoDOT invested **\$544 million**, or about \$10.60 per month from Missouri drivers, to provide the following services:

- Pavement repairs and sealing
- Winter operations
- Bridge maintenance
- Striping
- Traffic signs and signals
- Mowing
- Flood/road closures
- Ditches/Drainage
- Litter and debris removal
- Incident response
- Customer calls
- Dead animal removal
- Driveway maintenance
- Permits
- Vegetation control

The number one focus of operations is roadway maintenance. In fiscal year 2019, \$222 million of MoDOT's operating budget was spent on roadways for repairs, sealing and striping. Each year, MoDOT crews place enough asphalt to do a 1-inch overlay and sealing from Los Angeles to Washington D.C. – about 2,300 miles. The repair work from MoDOT operations is focused on roads that do not carry a lot of traffic. Funding from the construction program pays for pavement improvements for heavily traveled roads, like interstates and U.S. highways.



# The Cost of OPERATIONS



Another focus area is winter operations. In an average winter, MoDOT employees plow about 6 million miles of snow and ice, which is enough to go to the moon and back 13 times. The fiscal year 2019 cost for winter operations was \$66 million, which was a challenging winter season. This amount can vary drastically from year to year due to weather conditions. Over the last five years, the annual cost of winter operations ranged from \$26 million to \$66 million.

Maintaining roadsides costs about \$37 million each year for crews to mow grass and remove litter, debris and dead animals. MoDOT mows about 400,000 acres of grass each year, which is equivalent to 300,000 football fields.





Operating funds do more than just maintain the system. They also provide funds to operate the system so people get where they want to go. MoDOT manages over 2,500 traffic signals, 250 dynamic message signs, 600 traffic cameras and traffic management centers in Kansas City, St. Louis and Springfield. The average annual cost for these operations is \$15 million.

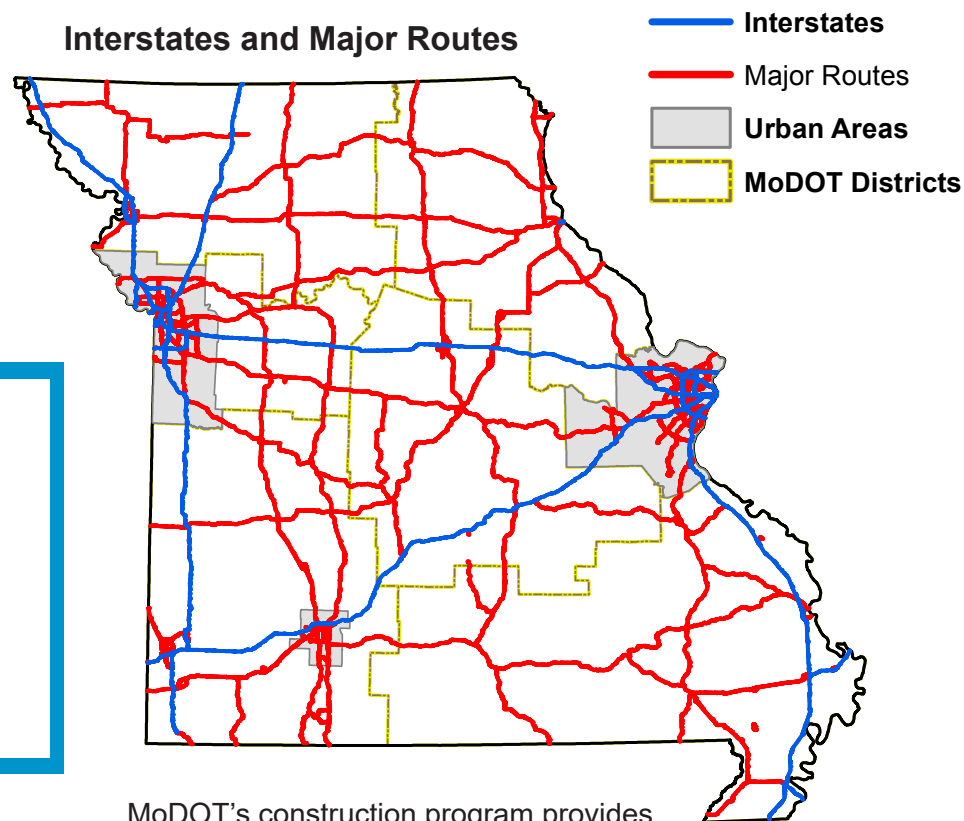
In addition, MoDOT crews are able to respond quickly to incidents ranging from traffic crashes to flooding to make sure Missourians arrive safely at their destination.



# The Current Condition of MISSOURI TRANSPORTATION

## What is the Current Condition of Missouri Transportation?

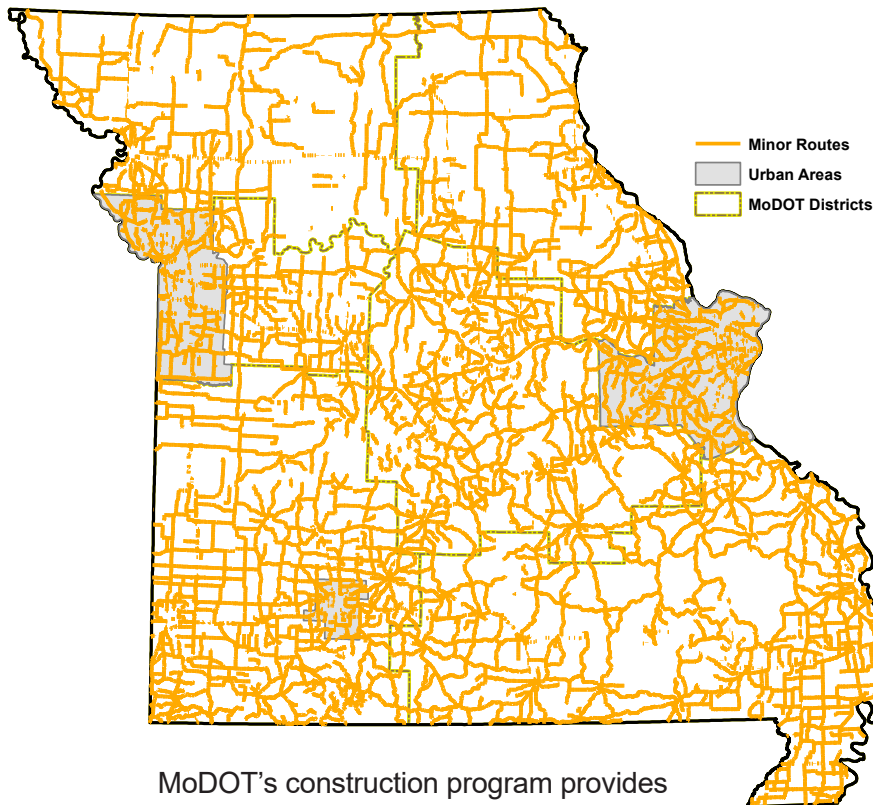
Last year, 51.4 billion miles were traveled on the state highway system. The majority of travel occurs on interstates and major routes. Interstates and major routes include just 5,543 miles of the 33,838 miles of highway in Missouri, but account for 76 percent of the travel. Currently, 92 percent of these routes are in good condition as MoDOT has focused on improving and maintaining these routes over the last decade.



39.3 billion miles were driven on interstates and major routes; therefore, on average 7.1 million vehicles traveled each mile.

Missouri's minor routes make up the largest group of state highways, accounting for 17,125 miles – just over one-half of the entire state highway system. About 22 percent of all state travel occurs on these routes. Currently, 80 percent of these routes are in good condition.

### Minor Routes



MoDOT's construction program provides the funding to maintain these routes.

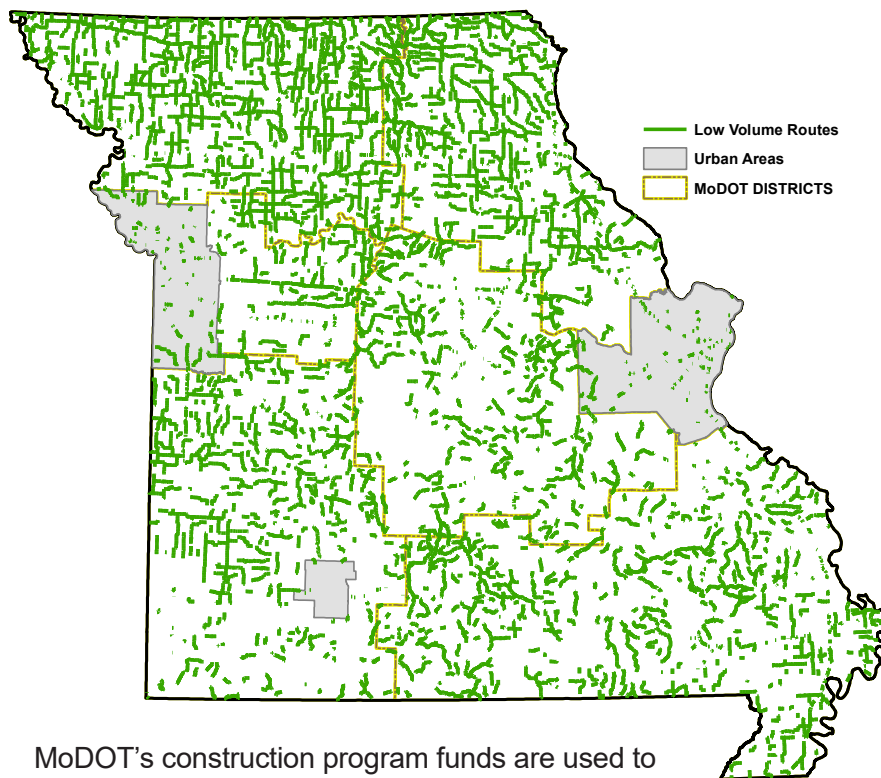
11.2 billion miles were driven on minor routes; therefore, on average 654,000 vehicles traveled each mile.



# The Current Condition of MISSOURI TRANSPORTATION

The final tier of Missouri highways is low volume routes. Each of these routes carry less than 400 vehicles per day and primarily serve local transportation needs. Missouri has 11,170 miles of low volume routes, accounting for about one-third of the state system. Travel on these routes is less than two percent of all state highway travel. Currently, 74 percent of these routes are in good condition.

## Low Volume Routes

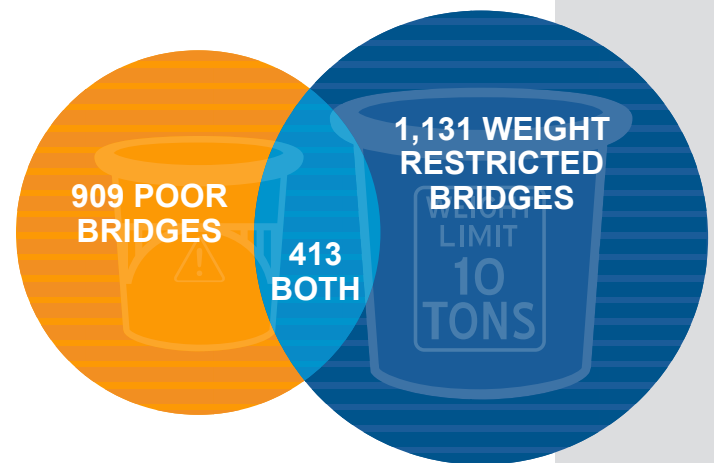


MoDOT's construction program funds are used to maintain the bridges on these routes; however, the pavements on these routes are maintained using MoDOT's maintenance funds.

0.9 billion miles were driven on low volume routes; therefore, on average 81,000 vehicles traveled each mile.

# The Current Condition of MISSOURI TRANSPORTATION

In addition to the huge network of highways, Missouri has 10,384 bridges of varying sizes, including 208 major bridges that are longer than 1,000 feet, or about the length of three football fields. Currently, 909 bridges are in poor condition. MoDOT inspects these bridges on a regular basis to ensure they are safe for travelers. If a bridge is unsafe, it is closed until repairs can be made. Missouri also has 1,131 weight-restricted bridges, with 413 of them also in poor condition.



Totals	Typical Bridges	Major Bridges	All Bridges
<b>Number</b>	10,176	208	10,384
<b>Area (square feet)</b>	64,256,193	23,197,143	87,453,336
<b>Average Age (years)</b>	48.2	37.3	48.0
<b>Weight Restricted</b>	1,090	41	1,131
<b>Area of Weight Restricted</b>	7,242,479	5,682,751	12,925,229
<b>Poor</b>	882	27	909
<b>Area of Poor</b>	5,130,143	3,101,956	8,232,100
<b>Both Poor and Weight Restricted</b>	400	13	413
<b>Area Both Poor and Weight Restricted</b>	1,645,183	1,801,504	3,447,686
<b>Only Poor and Only Weight Restricted</b>	1,572	55	1,627
<b>Area of Only Poor or Only Weight Restricted</b>	10,727,439	6,982,203	17,709,643

## Approximate vehicle weights

Lower weight limits for about 1,300 load-posted state bridges:



AVERAGE STANDARD CAR: **1.5 TONS**



AVERAGE PICKUP TRUCK: **3 TONS**



AVERAGE AMBULANCE: **5 TONS**



AVERAGE DELIVERY TRUCK: **6 TONS**



AVERAGE LOADED SCHOOL BUS: **17 TONS**



AVERAGE LOADED GARBAGE TRUCK: **25 TONS**



AVERAGE LOADED CHARTER BUS: **20 TONS**



AVERAGE FIRE TRUCK: **19-30 TONS**



AVERAGE LOADED COMBINE HARVESTER: **30 TONS**



AVERAGE LOADED PLOW TRUCK: **28 TONS**



AVERAGE LOADED CONCRETE TRUCK: **33 TONS**



AVERAGE LOADED DUMP TRUCK: **36 TONS**

AVERAGE LOADED TRACTOR TRAILER:

**40 TONS**



Source: PennDOT

James Hilston/Post-Gazette

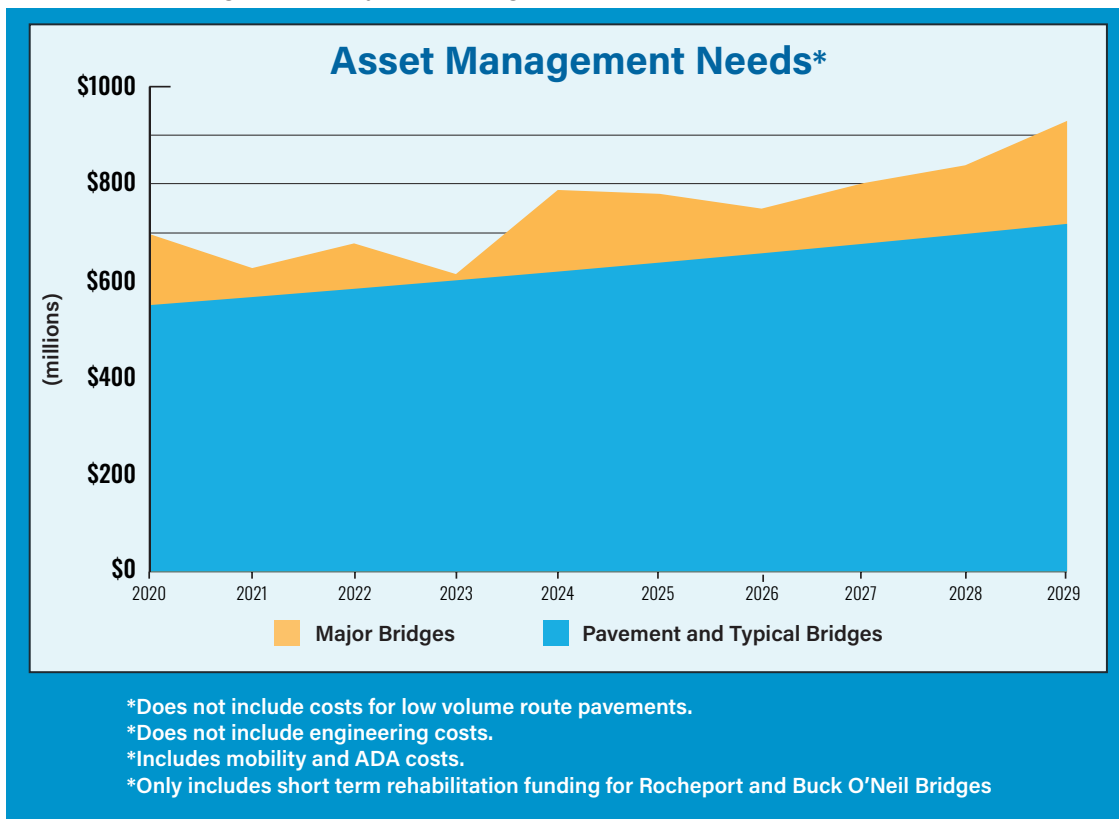


# ASSET Management

MoDOT has adopted an asset management approach to make the best decisions with transportation investments. The goal of the plan is to keep roads and bridges in good condition for as long as possible given current funding levels. The plan also demonstrates the investment level needed in order to maintain the system at its current condition.

Asset	Asset Management Goal Based on Current Funding
Interstates and Major Routes	90% Good Condition
Minor Routes	80% Good Condition
Low Volume Routes	70% Good Condition
Bridges	Less Than 900 Poor Condition

The asset management 10-year funding needs are shown in the chart below:





# What is THE COST?

## How Much Do Current Roadway Conditions Cost Missourians?

Missourians pay a relatively small amount per month to use the state system of roads and bridges. The average Missouri driver pays about \$30 per month in state and federal transportation taxes and fees. That's far less than what the average Missourian pays for cell phone service, cable television or internet service.

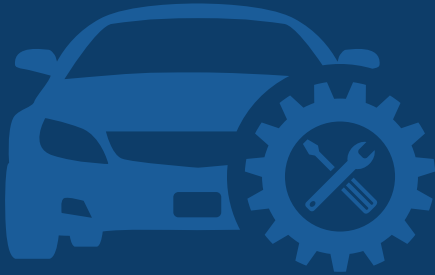
But there are also hidden transportation costs that Missourians may not realize they are absorbing when they sit on congested highways, drive on rough roads or experience vehicle crashes.

### Monthly Cost Per Driver





# What is THE COST?



**System condition costs Missouri drivers about \$196 per month.**

According to the Texas Transportation Institute's 2015 Urban Mobility Scorecard, Missourians who commute to work by car spend many hours in congestion, ranging from 10 hours per year in Cape Girardeau and St. Joseph, to 39 hours per year in Kansas City and 43 hours in St. Louis. That means gallons of fuel wasted, a loss of productivity and hours lost that have an adverse effect on a person's quality of life. The associated cost of congestion translates to an average of \$43 per month for Missouri drivers.

There are also hidden costs in operating and maintaining a vehicle on rough roads due to:

- Accelerated vehicle depreciation,
- Additional vehicle repair costs,
- Increased fuel consumption, and
- Increased tire wear.

The Road Information Program's 2018 "Missouri Transportation by the Numbers" report calculated those costs to be \$59 per month for Missouri drivers, or a total of \$3 billion each year to the state of Missouri.

Motor vehicle crashes cost Missourians \$4.8 billion each year<sup>4</sup>. This equates to \$94 per month for each Missouri driver. This amount includes medical costs, lost workplace and household productivity, property damage, congestion costs and legal costs.

When combined, congestion, additional vehicle operating costs and roadway crashes cost each Missouri driver about \$196 per month. Additional investments in congestion relief, improving system conditions and safety can reduce these costs for Missourians.

<sup>4</sup> The Economic and Societal Impact of Motor Vehicle Crashes, 2010 (Revised 2015), National Highway Traffic Safety Administration



# High-Priority Unfunded TRANSPORTATION NEEDS

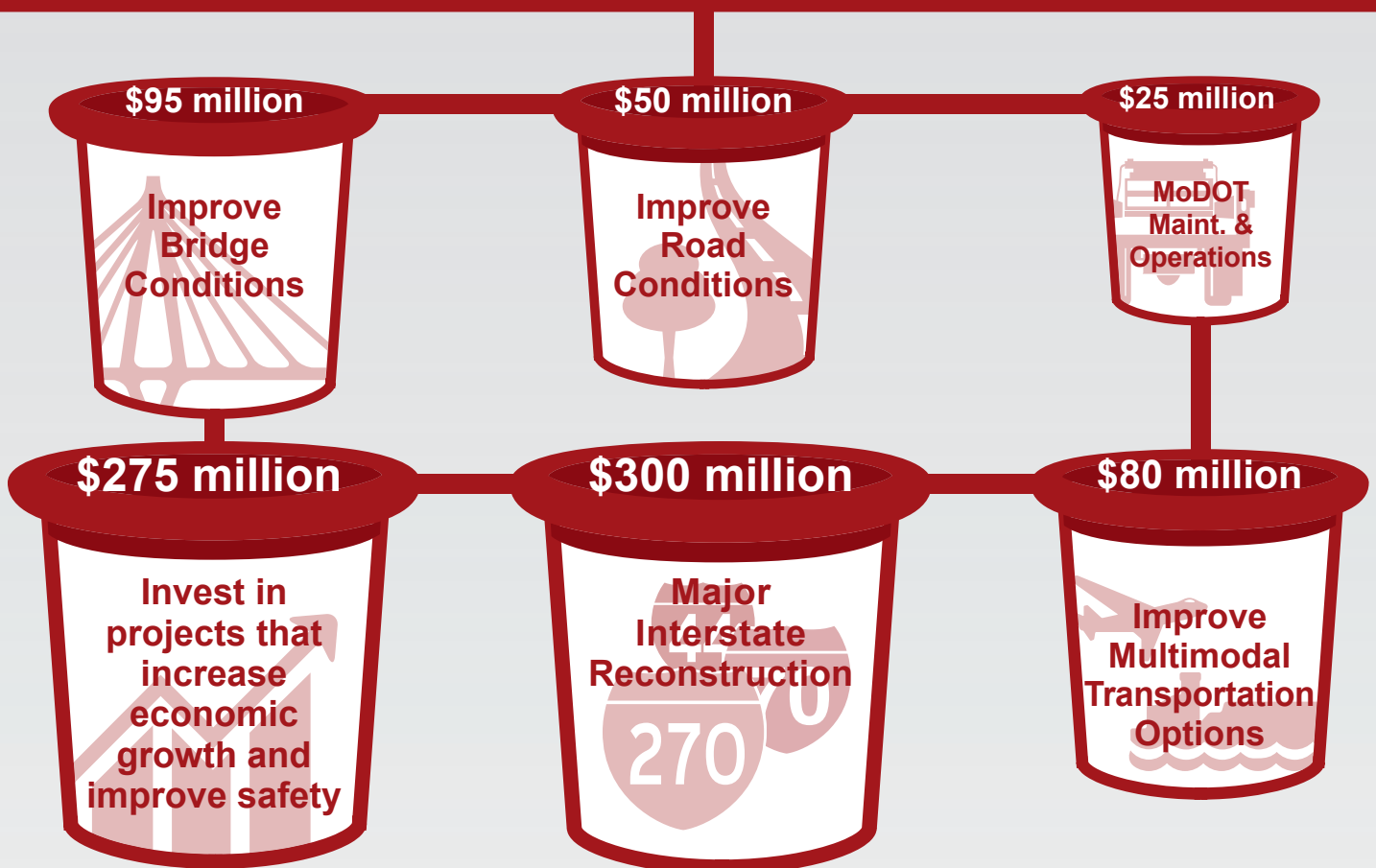
## What are Missouri's Transportation Needs?

When MoDOT completed its long-range transportation plan in 2014, and refreshed it in 2018, extensive input from Missourians resulted in five goals for the state's transportation system over the next 20 years:

1. Take care of the transportation system and services we enjoy today.
2. Keep all travelers safe – no matter the mode of transportation.
3. Invest in projects that spur economic growth and create jobs.
4. Give Missourians better transportation choices.
5. Improve reliability and reduce congestion on Missouri's transportation system.

## HIGH-PRIORITY UNFUNDED ANNUAL TRANSPORTATION NEEDS

**\$825 million**



With MoDOT's current available resources, the reality is that the department must focus its attention on keeping the existing system in the condition that it is in today. To do that, some MoDOT districts must devote every available dollar to maintaining the condition of their roads and bridges, and they are still going to lose ground over time. That leaves a number of unfunded transportation needs.

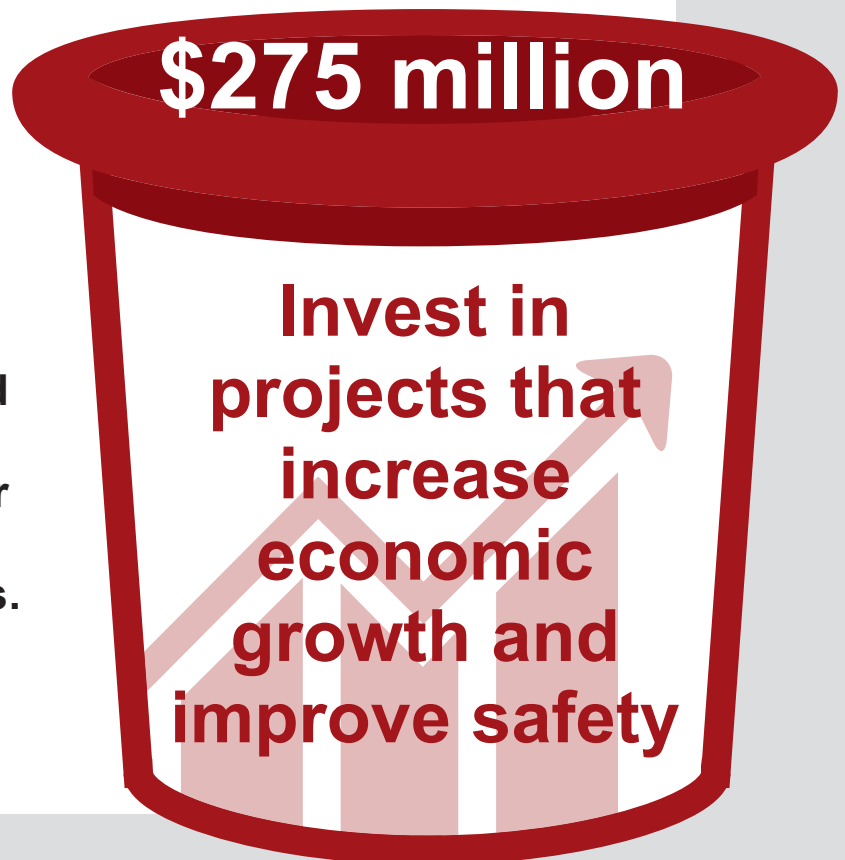


**Improve road and bridge conditions** – Investing an additional \$170 million per year would enable all of MoDOT's districts to adequately maintain their existing system, begin driving down the state's number of poor bridges, improve the condition of the state's roads and stabilize the level of MoDOT's maintenance and operations efforts to keep pace with inflationary cost increases. **The required investment equates to an average of \$3.31 per month by each of the state's licensed drivers.**

# High-Priority Unfunded TRANSPORTATION NEEDS

**Invest in projects that increase economic growth and improve safety** – These are the projects that local communities across the state are clamoring for but which are unaffordable in today’s financial environment. Projects include new interchanges, adding shoulders with rumble stripes and adding lanes to the current system. In addition to congestion reduction and economic growth benefits, all of these projects would improve safety so fewer fatalities and serious injuries occur.

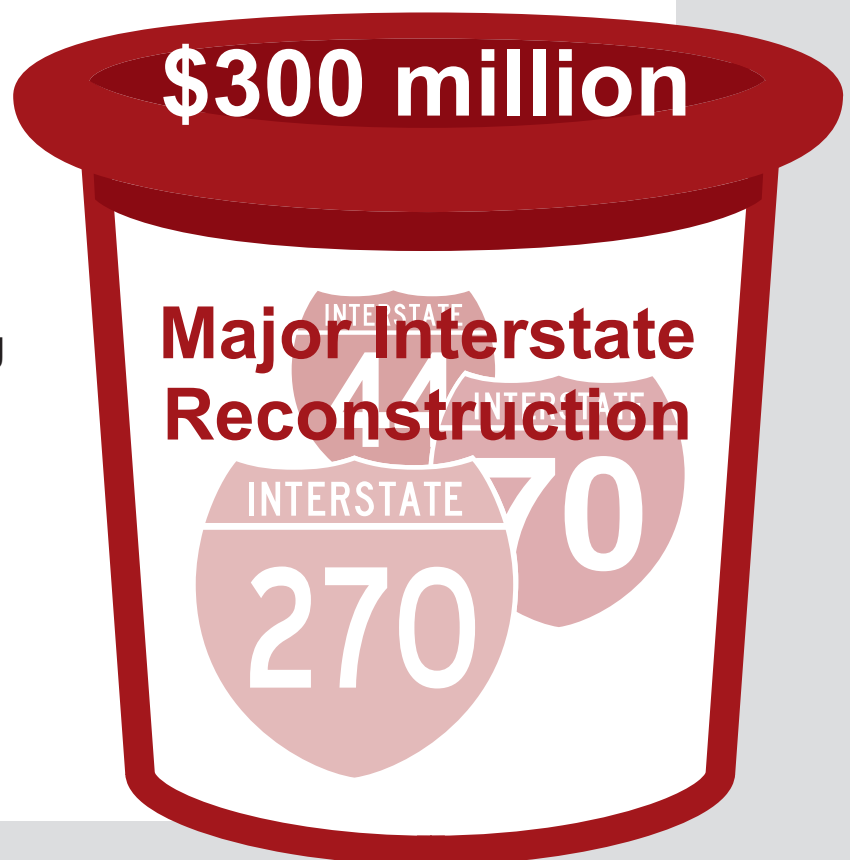
An additional investment of \$275 million per year would allow MoDOT to begin meeting those needs. MoDOT would work with its regional planning partners to ensure the highest priorities would be funded. **The required investment equates to an average of \$5.36 per month by each of the state’s licensed drivers.**





**Major interstate highway reconstruction** – The nation’s interstate system is now 60 years old, and Missouri’s interstates were built with a 20-year life expectancy. They need attention. The poster child for Missouri’s interstate needs is Interstate 70 – the nation’s oldest interstate. MoDOT has known for years that it needs to be reconstructed with added capacity to reliably handle mounting levels of traffic, especially long-haul trucks. The project, though, has been and continues to be unaffordable.

The state’s other six interstates will also be facing improvement/preservation needs in the coming years. An additional \$300 million per year would allow MoDOT to begin tackling this long overdue improvement. **The required investment equates to an average of \$5.85 per month by each of the state’s licensed drivers.**



# High-Priority Unfunded TRANSPORTATION NEEDS

**\$80 million**

## Improve Multimodal Transportation Options

Many Missourians depend on non-highway modes of transportation; however, the state currently invests very little money towards those needs.

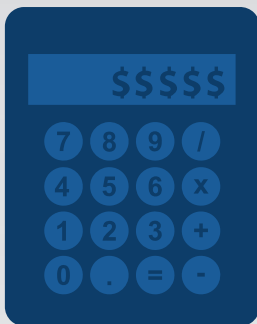
Improve multimodal transportation options – Missouri’s transit systems, railroads, ports, waterways, airports and bicycle/pedestrian facilities could begin to see much needed improvements with an annual investment of \$80 million. MoDOT would work with the owners and stakeholders of these transportation systems, along with our regional planning partners, to identify and fund the highest priority needs. **The required investment equates to an average of \$1.56 per month by each of the state’s licensed drivers.**



# CITIZEN'S GUIDE TO TRANSPORTATION FUNDING IN MISSOURI

In summary, Missourians enjoy access to a large transportation system that keeps us connected. Maintaining and improving the transportation system is expensive, but is a worthwhile investment. The average Missouri driver contributes about \$30 per month to fund their access to the transportation system and the services MoDOT provides.

Incremental increases in funding for improving road and bridge conditions, investing in projects that increase economic growth and safety, reconstructing major interstates and improving multimodal transportation options can offset the \$196 of hidden costs drivers are paying each month due to congestion, rough roads and traffic crashes.

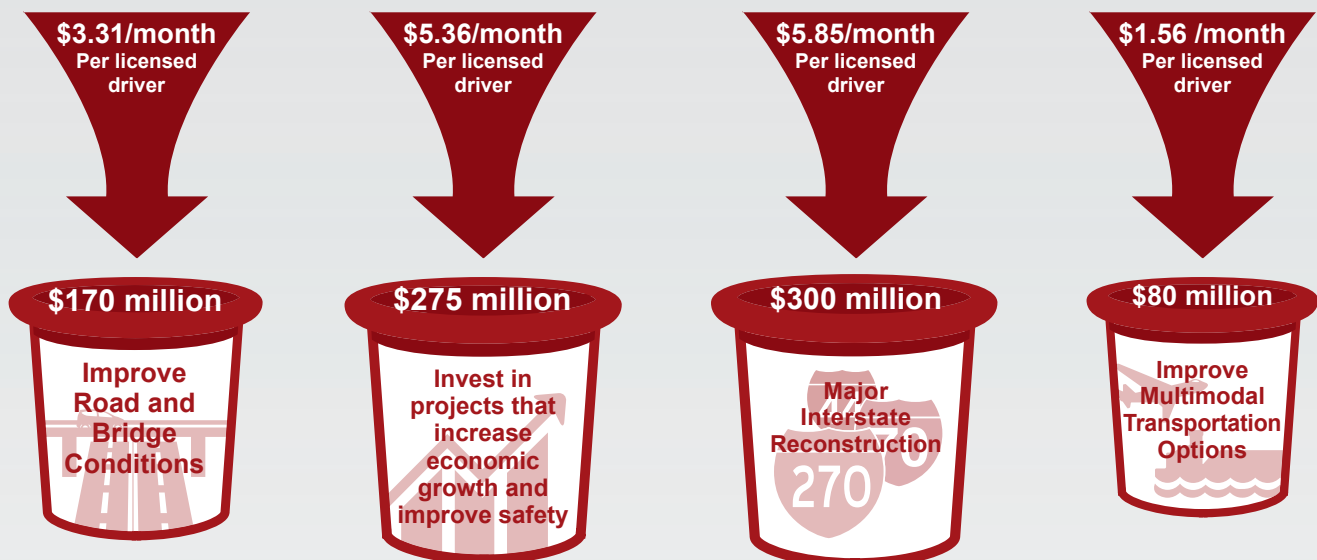


## MONTHLY COSTS OF ADDITIONAL BENEFITS

The average driver in Missouri pays \$30 per month in federal and state taxes/fees to support Missouri's system of roads and bridges.

*Based on 13,476 miles driven per year at 22 mpg, plus the average motor vehicle sales tax per driver.*

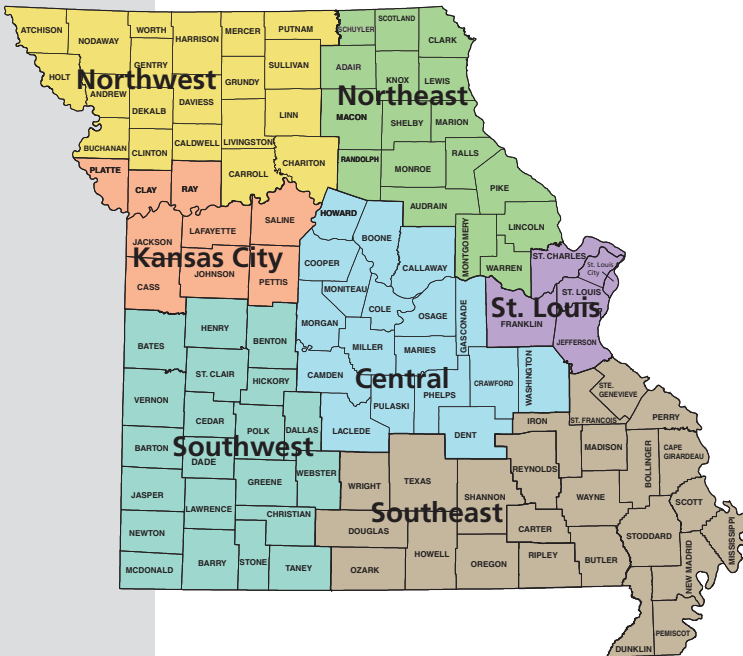
### Additional Investments Needed to Improve Missouri's Transportation System



# MoDOT CONTACTS

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Eric Schroeter	Assistant to the Chief Engineer
Brenda Morris	Chief Financial Officer
Becky Allmeroth	Chief Safety and Operations Officer
Micki Knudsen	Chief Administrative Officer
Lester Woods	Interim Chief Administrative Officer
Rich Tiemeyer	Chief Counsel
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