

USE RESOURCES WISELY Brenda Morris, Chief Financial Officer





MoDOT has access to many resources including people, funding, supplies and equipment. Taxpayers trust MoDOT is a good steward of these limited resources while limiting the impact on our environment. We are accountable for everything we do.

Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Paul Imhoff Special Projects Coordinator

PURPOSE OF THE MEASURE:

This measure tracks the change in the number of fulltime equivalencies (a calculation of hours) expended within the department and compares it to the number of FTEs in the legislative budget.

MEASUREMENT AND DATA COLLECTION:

This measure converts the regular hours worked or on paid leave of temporary and salaried employees, as well as overtime worked (minus any hours that are flexed during the workweek), to Full-Time Equivalencies. In order to calculate FTEs, the total number of hours worked or on paid leave is divided by 2,080. For comparison purposes, data for salaried employment is annualized, whereas temporary employment and overtime data represent actual year-to-date calculations. This measure does not represent salaried headcount.

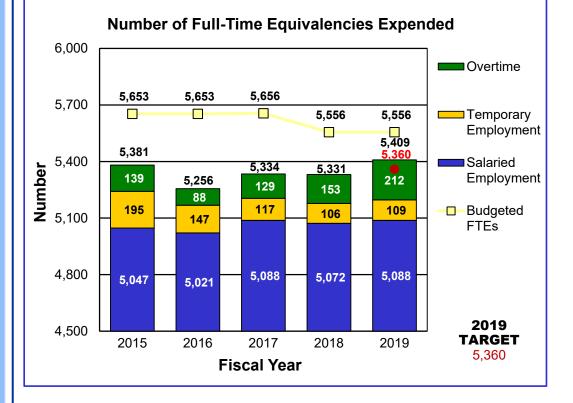
The target for this measure was set by management directive.

USE RESOURCES WISELY

Number of full-time equivalencies expended – 6a

Having the right number of employees to provide outstanding customer service and respond to the state's transportation needs, especially during emergency situations, is an important part of MoDOT's effort to use resources wisely.

During fiscal year 2019, the number of Full-Time Equivalencies expended increased by 78, or 1.5 percent, compared to FY 2018. The 5,409 FTE expended is the most in the last five years and marks the first time the target has been exceeded since the creation of the measure. The number of both salaried and temporary FTEs increased slightly. This was mainly due to overstaffing in maintenance facilities. The significant increase in overtime FTEs can be attributed to a more significant winter operations season that included frequent weekend shifts.



Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Paul Imhoff Special Projects Coordinator

PURPOSE OF THE MEASURE:

This measure tracks the percentage of employees who leave MoDOT. Turnover rates as shown in this measure include voluntary and involuntary separations.

MEASUREMENT AND DATA COLLECTION:

The data is collected statewide from the SAM II Advantage HR system and includes only salaried employees. Voluntary turnover includes resignations and retirements. Involuntary turnover reflects dismissals. Data is reported quarterly, with current year-to-date data included. Stretch goal is derived from Price Waterhouse Cooper's Saratoga Institute benchmark data.

The target for this measure was set by management directive.

USE RESOURCES WISELY

Rate of employee turnover – 6b

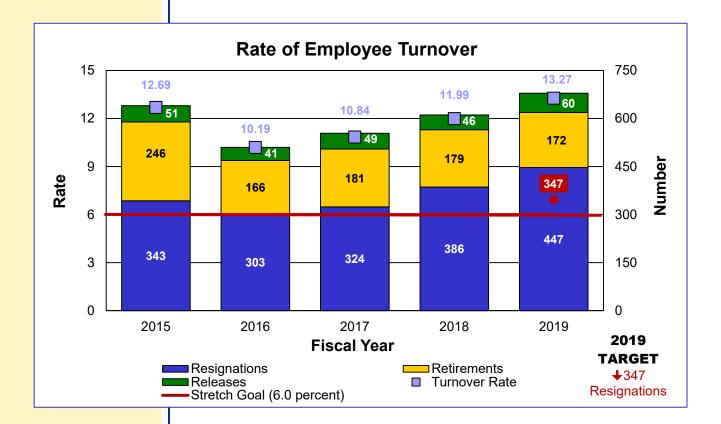
When employees leave MoDOT, the department loses a large investment in recruiting, hiring and training its workforce. While some turnover is appropriate, MoDOT needs to retain a great workforce that has the knowledge and specialized skills to deliver the department's commitments and provide outstanding customer service.

The overall turnover rate has risen from 11.99 percent in fiscal year 2018 to 13.27 percent in FY 2019. During FY 2019, resignations showed an upward trend, and retirements decreased slightly. Releases increased from 46 during FY 2018 to 60 during FY 2019. The FY 2019 target was to have 347 or fewer resignations. As part of MoDOT's strategic initiatives and pay strategy, MoDOT will continue to look for opportunities to reduce the rate of employee turnover.

During the 2018-2019 winter operations season, MoDOT implemented two programs to improve recruitment and retention of winter operators. The Emergency Operations Stabilization and Market Adjustment provided an hourly increase for operators performing winter operations duties. The Winter Operations Referral Program provides current eligible employees an incentive for referring new maintenance, bridge maintenance, emergency and seasonal employees.

Combined, these programs contributed to a 183 percent increase in full-time maintenance staffing over the previous winter season.

With increased staffing, an increase in turnover for these functions was also seen, but MoDOT was able to successfully increase overall staffing in maintenance by 60 employees this winter season, compared to an overall loss in staffing of 37 last winter season.



Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Elizabeth Reed Special Projects Coordinator

PURPOSE OF THE MEASURE:

This measure tracks the level of employee satisfaction throughout the department at specific points in time.

MEASUREMENT AND DATA COLLECTION:

Employee satisfaction is measured with a bi-annual employee survey in evennumbered years. Employees rate items related to their satisfaction with MoDOT using a five-point scale, with one indicating low satisfaction and five indicating high satisfaction. Society for Human Resources Management best practice data was gathered from an SHRM report of an annual job satisfaction survey of 55 Fortune 500 companies. The target for this measure is updated in odd-numbered years.

The target for this measure was set by management directive.

Illinois DOT was selected as a comparative due to its similar employee demographics.

USE RESOURCES WISELY

Level of job satisfaction – 6c

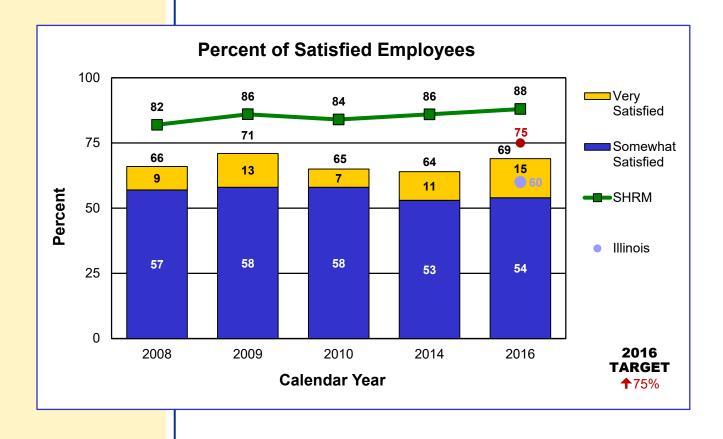
MoDOT wants employees to be satisfied with their work and workplace and feel like they are a good fit for their jobs. Employee satisfaction can be a driver of overall organizational performance. The more satisfied and engaged employees are with the workplace, the more discretionary effort they are willing to put forth on the job.

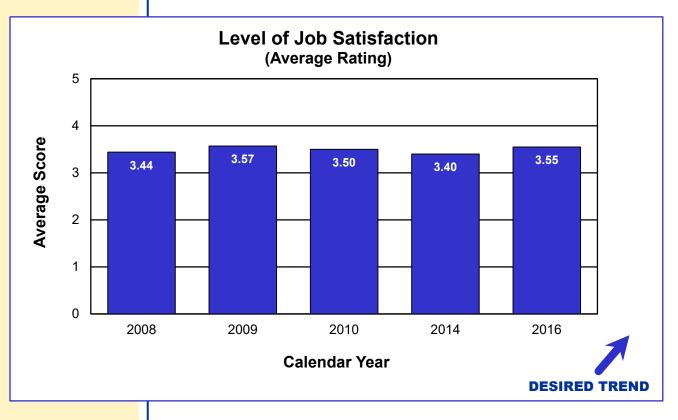
Between 2005 and 2010, the average employee satisfaction ratings and percent of satisfied employees both showed upward trends with peaks in 2009. Following a four-year break, the employee survey was conducted in the spring of 2014 and showed little change from the 2010 survey. Given the major organizational changes the department went through, the slight decline in job satisfaction from 3.5 in 2010 to 3.4 in 2014, and the slight decrease in the percentage of satisfied employees from 65 percent in 2010 to 64 percent in 2014 were seen as good. In fact, the percentage of very satisfied employees during that period increased from 7 percent in 2010 to 11 percent in 2014.

Following the 2014 survey, five employee-led teams worked to develop a series of recommendations to the concerns employees raised in the survey. The recommendations are in various stages of implementation.

The most recent employee survey was conducted in the spring of 2016. Overall job satisfaction increased from 3.40 in 2014 to 3.55 in 2016. The percentage of satisfied employees also increased from 64 percent in 2014 to 69 percent in 2016. The survey results also show the percentage of very satisfied employees increased from 11 percent in 2014 to 15 percent in 2016.

Areas of low satisfaction centered on not having acceptable opportunities for professional growth and not making MoDOT employees feel valued. The lack of salary increases scored low on most surveys and dominated written comments as well. Areas of high satisfaction revolved around having a cooperative work unit and having supervisors support needs to balance work and family. One of MoDOT's strategic initiatives is working toward predictive analytics to optimize job satisfaction.





Missouri Department of Transportation 6c2

Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Janel Lueckenotte Financial Services Administrator

PURPOSE OF THE MEASURE:

This measure shows the precision of state and federal revenue budgets.

MEASUREMENT AND DATA COLLECTION:

State revenue for roads and bridges include motor fuel taxes, motor vehicle and driver licensing fees, and motor vehicle sales taxes paid by highway users, interest earnings and miscellaneous revenues. State revenue for other modes includes motor vehicle sales taxes, aviation fuel taxes, jet fuel sales taxes, motor vehicle licensing fees, railroad assessments and appropriations from General Revenue, and interest earnings. The measure provides the cumulative, yearto-date percent variance of actual state revenue versus budgeted state revenue by state fiscal year. Federal revenue for roads and bridges is the amount available to commit in a federal fiscal year of federal funds. Federal funds are distributed to states via federal law. Federal revenue for other modes is the amount reimbursed to MoDOT for expenses incurred in a state fiscal year.

The targets set for this measure are set by internal policy and will not change unless policy changes, regardless of performance.

USE RESOURCES WISELY

State and federal revenue budgets – 6d

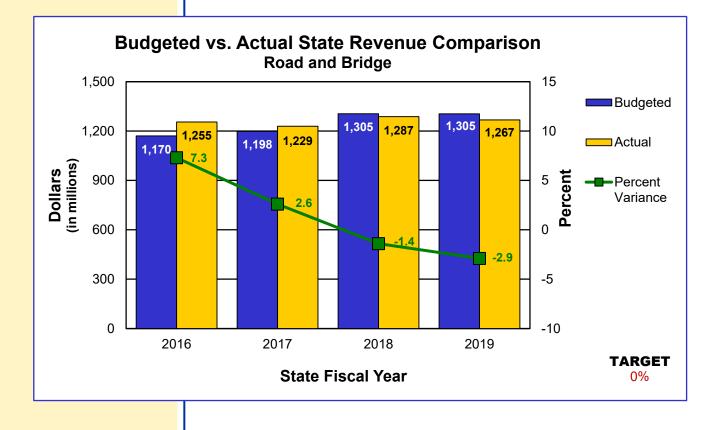
State and federal revenue budgets help MoDOT staff do a better job of budgeting limited funds for its operations and capital program. The desired trend is for actual revenue to match budgets with no variance.

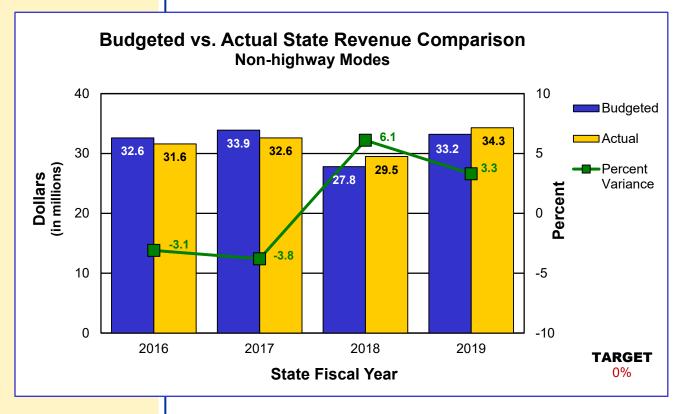
The actual state revenue for roads and bridges from motor fuel taxes, motor vehicle sales taxes, motor vehicle, driver's licensing fees and miscellaneous fees was 2.9 percent less than budgeted through the fourth quarter of fiscal year 2019. The majority of the variance is related to the timing of miscellaneous revenue deposits from local entities for partnering projects and lower than projected revenue from motor vehicle sales taxes. The positive variance of 3.3 percent for non-highway modes is mostly attributed to higher than projected revenue from jet fuel sales taxes.

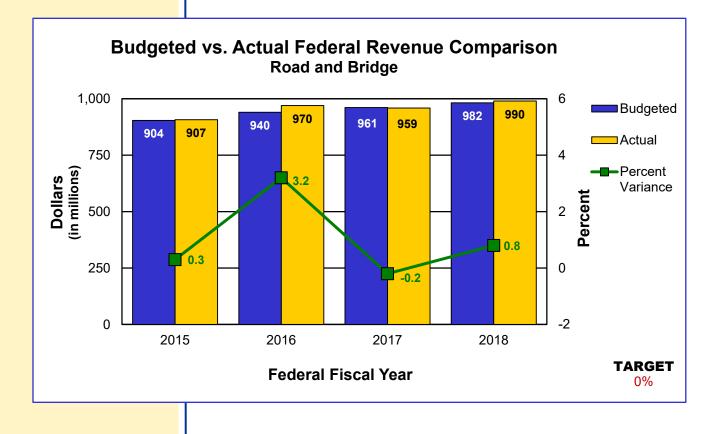
The actual federal revenue for roads and bridges was 0.8 percent more than budgeted for federal FY 2018. The negative variance of 31.2 percent for non-highway modes is attributable to the timing of project expenditures.

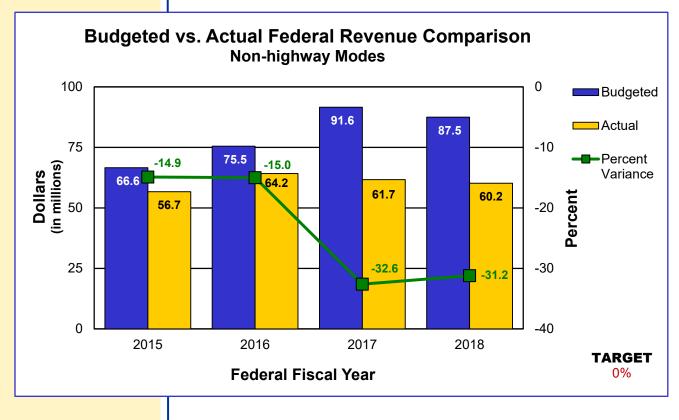
The largest source of transportation revenue is from the federal government. Funding is received through various federal transportation agencies including Federal Highway, Transit, Aviation and Railroad Administrations. In December 2015, Congress passed a five-year federal transportation reauthorization act entitled Fixing America's Surface Transportation Act. The FAST Act increases the amount of road and bridge funding for all state transportation departments. Federal revenue for other modes is reliant on the timing of project expenditures.

The primary source of federal and state revenue is motor fuel tax. The motor fuel tax rates have not changed in more than 20 years, while the costs for materials and labor have doubled or even tripled in the same time frame.









Missouri Department of Transportation 6d3

Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Frank Miller District Planning Manager

PURPOSE OF THE MEASURE:

This measurement monitors the effectiveness of MoDOT's cost-sharing and partnering programs.

MEASUREMENT AND DATA COLLECTION:

MoDOT collects this data from the Statewide Transportation Improvement Program and the permits database. The dollars are shown in the fiscal year in which construction contracts are awarded and permit jobs are issued. The percent is the number of cost-sharing projects divided by the total number of projects per year in the STIP.

The target for this measure is set by internal policy and will not change unless policy changes.

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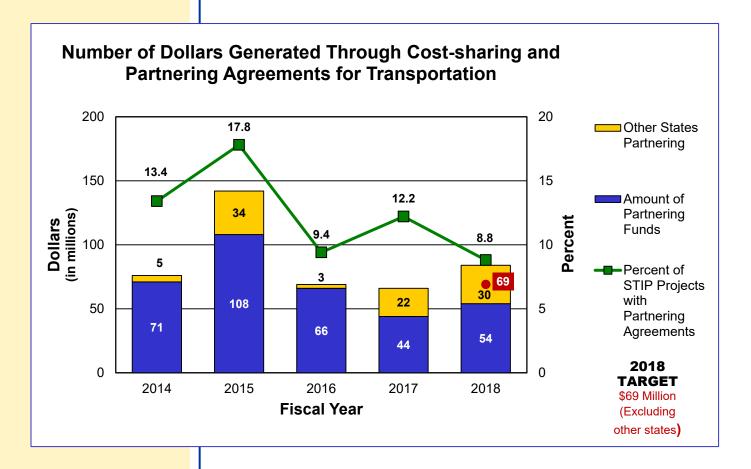
Number of dollars generated through cost-sharing and partnering agreements for transportation – 6e

MoDOT works with public agencies to leverage its limited resources to implement projects that might not otherwise be built. Cost-share projects are transportation improvements in which costs are shared by MoDOT and other public agencies such as cities and counties. After a temporary suspension of the Cost Share Program through fiscal year 2017, the Missouri Highways and Transportation Commission reactivated the Cost Share Program with the adoption of the 2018-2022 Statewide Transportation Improvement Program, with the size of the program increasing annually from \$10 million in FY 2018 to \$45 million by FY 2024.

In addition, MoDOT partners with cities and counties for projects not part of the formal Cost Share Program with other states for projects of mutual interest such as border bridges and with federal agencies through competitive discretionary programs. MoDOT also partners with developers and other private entities to make improvements to the state transportation system through the permitting process. As a part of MoDOT's strategic initiatives, the department plans to research and deploy alternative funding solutions through cross-cabinet collaboration.

The number of dollars generated through cost-sharing and partnering agreements for transportation increased in FY 2018, with \$54 million in partnerships on the MoDOT system and \$30 million in partnerships with other states for jointly-owned facilities. This reflects the reinstatement of the Cost Share Program in FY 2018. Because funding allocated to the program will increase annually through 2024, more partnering opportunities will be available. MoDOT is on track to achieve the target of \$69 million in partnering funding by FY 2020.

Even though there were fewer partnership projects in FY 2018, the projects brought a higher average partner contribution. The percentage of partnering projects in the STIP for FY 2018 was only 8.8 percent, the lowest percentage since FY 2013. In FY 2018, 41 projects involved partnerships, with 53 projects in FY 2017. However, the average partner contribution was \$1.31 million, the highest average contribution in the past five years.



Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Joni Roeseler Administrator of Transit

PURPOSE OF THE MEASURE:

This measurement provides the percent of state funds invested in non-highway modes of transportation. Modes include aviation, rail, transit, waterways, freight and bike/pedestrian.

MEASUREMENT AND DATA COLLECTION:

Investments in non-highway modes of transportation represent the state and federal dollars spent on aviation, rail, transit, waterways, freight and bike/pedestrian. Federal investments represent the amount spent on MoDOTadministered programs only. Investments are limited to the amounts appropriated by the state legislature each year.

The target for this measure was set by management directive.

USE RESOURCES WISELY

Percent of state funds invested in non-highway modes of transportation – 6f

During the long-range transportation planning process, *A Citizen's Guide to Missouri Transportation – Long Range Plan Update*, Missourians chose more transportation choices as a top priority. MoDOT works closely with its multimodal partners to provide more choices within the available funding amounts. In fiscal year 2018, state and federal expenditures for non-highway modes of transportation decreased \$1 million and \$1.7 million, respectively.

Aviation – FY 2018 state expenditures of \$9.3 million represent 24 percent of funds invested. Federal Aviation Administration and State Aviation Trust funds require a minimum local match of 10 percent.

Rail – FY 2018 state expenditures of \$10.7 million represent 78 percent of funds invested.

Transit – FY 2018 state expenditures of \$7.7 million represent 22 percent of funds invested.

Waterways – FY 2018 state expenditures of \$2.2 million represent 100 percent of funds invested.

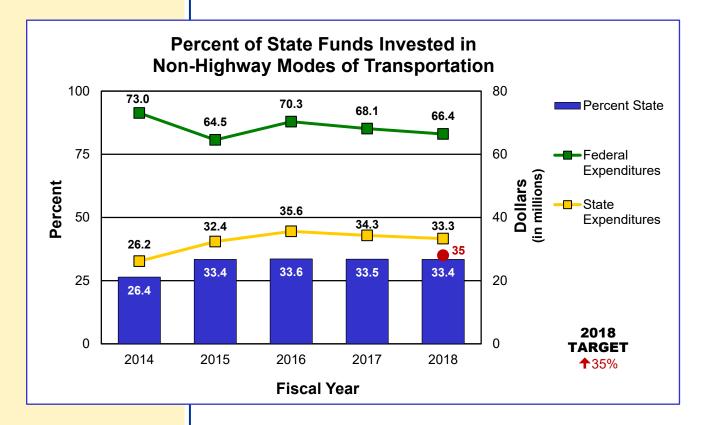
Freight – FY 2018 state expenditures of \$1 million represent 100 percent of funds invested.

Statewide Transportation Assistance Revolving Fund – FY 2018 state expenditures of \$0.8 million represent 100 percent of funds invested.

Bike/Pedestrian – FY 2018 state expenditures of \$1.6 million represent 20 percent of funds invested.



Missouri Department of Transportation 6f



Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Julie Stotlemeyer Assistant State Design Engineer

PURPOSE OF THE MEASURE:

This measure tracks the percent of available local program funds committed to projects.

MEASUREMENT AND DATA COLLECTION:

The data is obtained from the Federal Highway Administration's Fiscal Management Information System and based on the federal fiscal year from Oct. 1 through Sept. 30. The committed amounts represent FHWA reimbursement for the project. The available amounts represent the federal program funds distributed to local sponsors. The desire is to invest all federal funds available to local public projects each year.

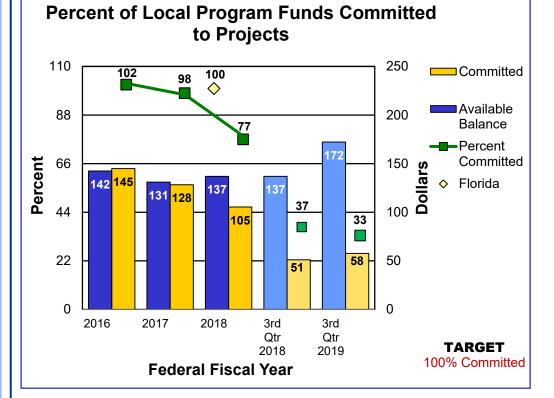
The target for this measure is set by internal policy and will not change unless policy changes, regardless of performance.

USE RESOURCES WISELY

Percent of local program funds committed to projects – 6g

Just as MoDOT receives federal funds for state projects, MoDOT is also required to pass through federal funds to local agencies, such as cities and counties, for local agency projects. MoDOT works with local agencies to invest the funds they receive each year in a compliant manner with a goal of investing all the funds received each year. MoDOT receives \$122 million annually in federal funds to pass through to local agencies. Available funds for local entity projects include those allocated in the current year as well as any funds not committed in prior years. When local entities use federal funds, they provide the matching funds. Matching funds provided by local entities help MoDOT use all the transportation federal funding available to Missouri.

For the third quarter of federal fiscal year 2019, 33 percent (\$57.6 million) of the \$172 million in available funds has been committed to local projects. This is a 4 percent decrease in commitments compared to third quarter FFY 2018.



Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Kevin James Assistant District Engineer

PURPOSE OF THE MEASURE:

This measure tracks progress of our fleet age for light duty, dump trucks and other fleet. The measure also tracks fuel efficiency for five vehicle classes: cars, pickups, lightduty trucks, heavy duty trucks and extra-heavy duty trucks. These classes represent the majority of fleet expenditures and miles driven.

MEASUREMENT AND DATA COLLECTION:

Data reflects average age of units. The goal is for the average age to be half the department's age threshold. The data is obtained from MoDOT's fleet management system, FASTER. This measure also reports MoDOT's total fuel consumed and shows how fleet choices can affect fuel economy. The fuel data is collected in the statewide financial system. Mileage data is obtained from MoDOT's fleet management system, FASTER.

The fleet average age targets are set by internal policy and will not change unless policy changes. The fuel efficiency target was established by projecting a 3 percent improvement over a five-year average.

USE RESOURCES WISELY

Fleet age and fuel efficiency – 6h

MoDOT must keep a dependable fleet to meet customers' needs. Fleet age is the best indication of fleet condition. The large investment in fleet, with a replacement value over \$467 million, emphasizes the importance of maintaining a dependable fleet. Optimization of fleet is identified as one of MoDOT's strategic initiatives. MoDOT is moving toward an asset management approach for fleet using data to plan fleet purchases over the next several years. MoDOT also strives to use resources wisely by improving fuel efficiency. This is critical since MoDOT budgeted more than \$25 million for fuel in fiscal year 2019.

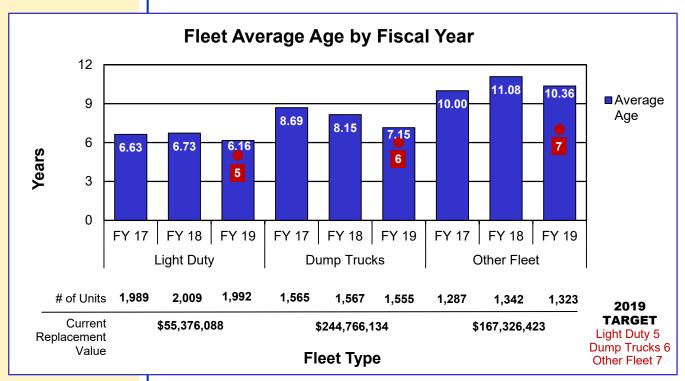
In FY 2019, the average age for light-duty fleet, dump truck fleet and other fleet (includes equipment such as backhoes, loaders, tractors and specialty items such as under-bridge inspection units and stripers) showed gradual decreases. This is attributed to purchasing equipment based on the asset management approach. The goal is for the average age to be half the department's age threshold.

Fuel efficiency decreased in FY 2019 compared to FY 2018, while the fuel consumption increased 277,247 gallons compared to FY 2018. During FY 2019, fewer gallons were used for asphalt pavement repairs compared to FY 2018. Increases in gallons used for snow and ice prevention/removal and flood restoration were recorded in FY 2019 compared to FY 2018. Changes in fuel use by activity resulted in a decrease in fuel efficiency of 0.30 miles per gallon compared to the prior fiscal year.

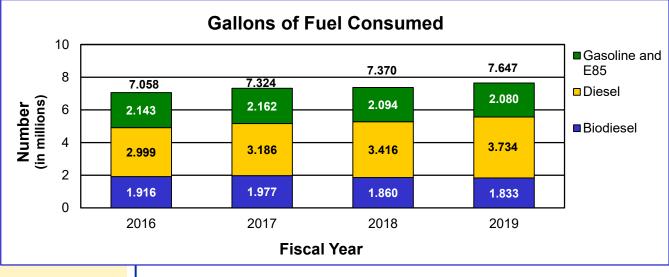
MoDOT has set a target of 8.73 average miles per gallon based on the fiveyear average of 8.48 mpg plus 3 percent. The usage trends by activity and vehicle type (dump trucks versus pickup trucks) resulted in miles per gallon lower than the target. Strategies to maintain results at target level include encouraging more carpooling and using more fuel-efficient light-duty vehicles when able.



Missouri Department of Transportation 6h



Average Miles Per Gallon Cars, Pickups, Light Duty Trucks, Heavy Duty Trucks and **Extra Heavy Duty Trucks** 10 8.73 **Miles Per Gallon** 8 8.54 8.31 8.20 7.90 6 4 2 0 2018 2016 2017 2018 2019 TARGET **1**8.73 **Fiscal Year**



Missouri Department of Transportation 6h

Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Jonathan Varner Field Materials Engineer

PURPOSE OF THE MEASURE:

This measure tracks MoDOT's recycling efforts in construction projects and internal operations.

MEASUREMENT AND DATA COLLECTION:

The recycled material used in construction projects is measured through MoDOT's SiteManager database, which tracks material incorporated into projects. Data is collected on an annual basis due to the seasonal nature of construction. Recycled material from internal MoDOT operations are captured from the annual Missouri State Recycling Program report and from other internal records.

USE RESOURCES WISELY

Number of tons of recycled material – 6i

For more than a decade, MoDOT has incorporated recycled asphalt pavements and roof shingles into new asphalt pavements to help offset increasing costs. While the cost of rock, sand, liquid asphalt, labor, fuel and equipment have increased, recycling efforts have helped offset the cost increases. In 2018, 30 percent of the 3.2 million tons of new asphalt pavement constructed came from recycled components. Based on tonnage bids in 2018, this saved taxpayers about \$5.17 per ton, or \$16.4 million overall. The \$16.4 million savings is equivalent to improving more than 331 miles of a two-lane roadway with a thin overlay.

By comparison, 18 percent of new asphalt pavement constructed by the Illinois DOT in 2017 came from slag, recycled pavement and shingles. In 2017, 20 percent of new asphalt pavement constructed by MoDOT came from slag, recycled pavement and shingles.

MoDOT also engages in internal recycling efforts. In 2018, the amount of recycled material increased by 230 tons. The majority of the recycled tonnage comes from scrap metal and scrap rubber/tires. More than 2,161 tons of scrap metal and 176 tons of scrap rubber/tires (equivalent to about 15,600 passenger car tires) were recycled. The cost to recycle some items, such as scrap rubber/tires and oil, was just over \$297,000. Other recycling efforts returned more than \$576,000. The net revenue was slightly more than \$279,000.

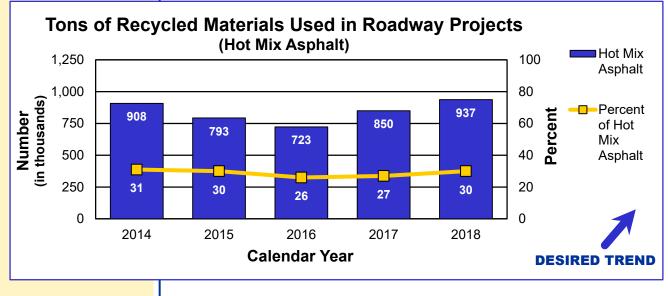
Recycling is good for the environment and helps continue to stretch available funds.

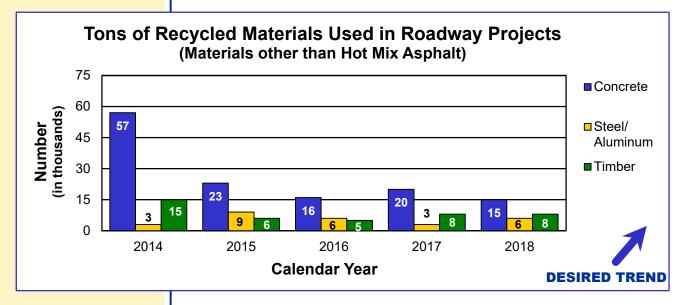


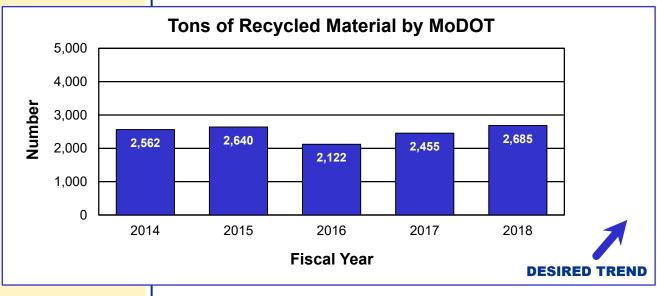


Roofs to Roads

MoDOT is among the first state agencies in the nation to recycle shingles to resurface or rebuild highways.







Missouri Department of Transportation 6i2

Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Melissa Scheperle Environmental Compliance Manager

PURPOSE OF THE MEASURE:

This measure tracks the annual trend of compliance with environmental laws and regulations, which includes obtaining and abiding by specific requirements contained in various permits.

MEASUREMENT AND DATA COLLECTION:

Notices of Violation are similar to a traffic ticket as they are written to indicate you are operating outside of legal limits. A Letter of Warning indicates that there are problems and, if not corrected, could lead to a notice of violation. Issued by environmental regulatory agencies, NOVs, LOWs and letters of satisfactory inspections are collected and tracked by location and/or project. The measure reports by calendar year the number of NOVs, LOWs and satisfactory inspections received by the department for any activity.

The target for this measure is set by internal policy and will not change unless policy changes, regardless of performance.

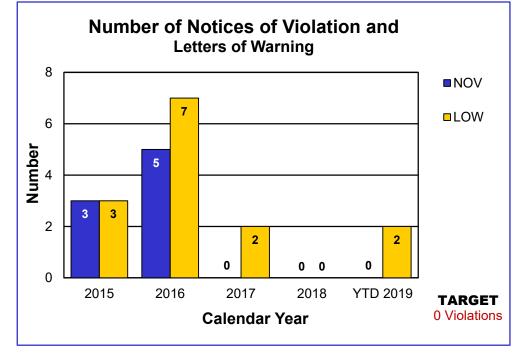
USE RESOURCES WISELY

Number of environmental warnings and violations – 6j

MoDOT seeks to reduce its impact on Missouri's natural resources by complying with environmental laws and regulations. The department is serious about protecting human health, air, water, wildlife and ecosystems. Compliance with environmental laws and regulations helps to prevent and counteract possible damage from MoDOT activities.

MoDOT has a zero-tolerance policy toward any Notices of Violation from regulating agencies, such as the Department of Natural Resources or the Environmental Protection Agency. Department employees study situations that lead to NOVs and Letters of Warning and then take action to prevent future occurrences.

For the second quarter of calendar year 2019, MoDOT received no NOVs or LOWs. Two LOWs were received in the first quarter of calendar year 2019 – one each from the U.S. Army Corps of Engineers and the DNR.



Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Amy Wilson Assistant Information Systems Director

PURPOSE OF THE MEASURE:

This measure reports how MoDOT ranks in cybersecurity incidents per employee compared to other state agencies. An incident is defined as any threat that standard anti-virus protection software can't detect.

MEASUREMENT AND DATA COLLECTION:

Data for this measure is captured from the Office of Administration reporting and individual agency websites.

A target for this measure is in the process of being determined.

The reporting period for this measure is a rolling 12 months.

USE RESOURCES WISELY

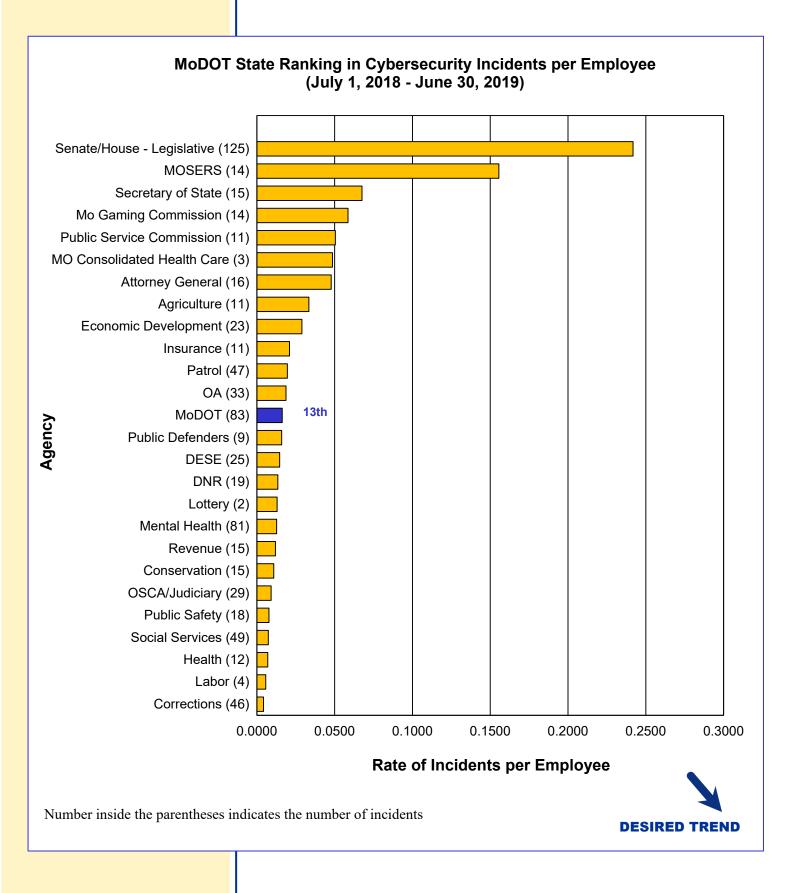
MoDOT state ranking in cybersecurity incidents per employee – 6k

MoDOT uses thousands of computer devices to get work completed from thousands of locations around the state. Keeping those computers safe from outside computer threats is a 24-hour job using the latest security measures. Still, it's a responsibility all department computer users must share.

During this past reporting period, MoDOT continues to rank 13th compared to all other state agencies in terms of cybersecurity incidents per employee. MoDOT's total of 83 cybersecurity incidents equated to a rate of 0.0163 incidents per employee. There was an increase of six incidents in comparison to the previous quarter, with an overall increase of 10 incidents for the 12month reporting period. Incidents included users accessing or attempting to access sites with malicious content, infected phishing emails and other targeted technology exploits.

MoDOT continues to emphasize cybersecurity with users and provides cybersecurity training for all department computer users. The department's cybersecurity oversight team works to define areas of vulnerability and deploy solutions to address those risks. In addition, MoDOT utilizes the Office of Administration's network firewall service, as well as OA's endpoint cybersecurity detection and remediation services to provide increased cyber protection.





Brenda Morris Chief Financial Officer

MEASUREMENT DRIVER:

Sunny Wilde Financial Services Administrator

PURPOSE OF THE MEASURE:

This measure tracks local entity cash leveraged from the Cost Share Program.

MEASUREMENT AND DATA COLLECTION:

Data for this measure is collected from a partnership database. This measure is based on the state fiscal year.

The target for this measure was set by management directive.

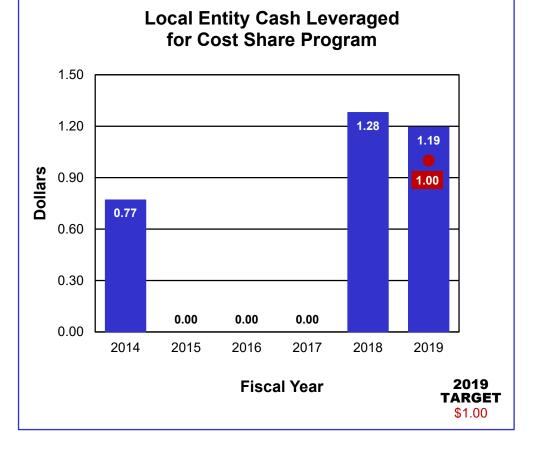
USE RESOURCES WISELY

Local entity cash leveraged for cost share program – 61

The Cost Share Program builds partnerships with local entities to pool efforts and resources to deliver state highway and bridge projects. When local entities are willing to partner with MoDOT, MoDOT matches their investment up to 50 percent of the project cost. MoDOT works in cooperation with the Missouri Department of Economic Development and local entities to determine when targeted investments can be made to create jobs and may also provide up to 100 percent of the project cost.

On Jan. 8, 2014, the Missouri Highways and Transportation Commission suspended the Cost Share Program due to declining transportation funding. On Jan. 4, 2017, the Missouri Highways and Transportation Commission reactivated the Cost Share Program for fiscal year 2018.

During the fourth quarter FY 2019, Cost Share Program funds of \$12.9 million were approved for seven projects and additional funding for an existing project. A total of 16 projects were approved for \$25.3 million of Cost Share Program funds during FY 2019. For every \$1 of Cost Share Program funds, local entities provided \$1.19 of cash, which is \$0.19 above the target.



Missouri Department of Transportation 6I