

MOVING KANSAS FORWARD / TRANSPORTATION IN KANSAS

# ANNUAL 2015



AD ASTRA PER ASPERA  
**Kansas**  
Department of Transportation

<b>Letter from Mike King</b> .....	<b>2</b>
<b>T-WORKS</b> .....	<b>3</b>
<b>Moving the Economy</b> .....	<b>4</b>
<b>KTA / KDOT Partnership</b> .....	<b>5</b>
<b>Aviation / Rail / Transit</b> .....	<b>6-7</b>
<b>Serving Kansans</b> .....	<b>7</b>
<b>Performance Measures</b> .....	<b>8-9</b>
<b>Safety</b> .....	<b>10</b>
<b>Maintenance</b> .....	<b>11</b>
<b>Budget/Financials Snapshot</b> .....	<b>12</b>

## A letter from **SECRETARY MIKE KING**



The success of Kansas depends in large part on a strong, multimodal transportation system. I'm proud to say the people at the Kansas Department of Transportation who plan, build and maintain our system had a special year in 2014.

Our formalized partnership with the Kansas Turnpike Authority continued to grow and produce efficiencies. New initiatives, such as the Kansas Freight Advisory Committee and the Export Summit, explored ways in which improved transportation can give Kansas farmers and manufacturers a competitive advantage in the global market.

Local transportation providers received a boost through the expansion of KDOT's Geometric Improvement Program and the new Kansas Local Bridge Improvement Program. Important projects that will improve travel in east Wichita and on U.S. 69 between Kansas City and Pittsburg were announced.

KDOT/KTA staff listened to hundreds of Kansans as they talked about their transportation priorities at Local Consultation meetings throughout the state. And the maintenance crews of both transportation agencies kept the road systems maintained, safe and open for travel in some very challenging winter conditions.

I'm proud of how our workers met the challenges of 2014 and, without a doubt, the new year will bring its own challenges. Kansans can be confident that the dedicated KDOT and KTA staffs who have always met the unique challenges each new year brings will again deliver the world-class transportation system they have come to expect.

**Mike King**

*Transportation Secretary & Director of the Kansas Turnpike Authority*

### **Governor Sam Brownback**

*Chairman of the Senate Transportation Committee*

**Senator Mike Petersen**  
Wichita, District 28

*Chairman of the House Transportation Committee*

**Representative Richard Proehl**  
Parsons, District 7

### **KDOT EXECUTIVE STAFF**

#### **Mike King**

Transportation Secretary and Director of the Kansas Turnpike Authority

#### **Jerry Younger**

Deputy Secretary and State Transportation Engineer

#### **Barb Rankin**

Chief Counsel

#### **Jim Kowach**

Director of Engineering and Design

#### **Kent Olson**

Director of Fiscal and Asset Management

#### **Catherine Patrick**

Director of Operations

#### **Wade Wiebe**

Director of Partner Relations

#### **Chris Herrick**

Director of Planning and Development

#### **Peggy Hansen-Nagy**

Executive Office Administrator

**ON THE COVER:** Work on the South Lawrence Trafficway, one of the largest T-WORKS projects, progresses during the first full year of construction in 2014. The approximately \$130 million project, which is scheduled to be complete in 2016, includes a number of bridges such as the one shown in this photo.

# TRANSPORTATION WORKS

The 10-year T-WORKS (Transportation Works for Kansas) program is now at the midway point and in its biggest construction years. The program creates jobs, preserves highway infrastructure and provides multimodal economic development opportunities across the state.



The \$26 million U.S. 24 and Menoken Road interchange project in northwest Topeka was opened to traffic in late 2014.

## T-WORKS through 2014

PROJECTS COMPLETED	1,165
MILES COMPLETED	8,608
BRIDGES REPAIRED / REPLACED	653
MODAL PROJECTS COMPLETED	104 / \$101.2 million

- Kansas' state highway system is the nation's fifth best in overall performance and efficiency, according to the Reason Foundation's 2014 rankings.
- T-WORKS is Kansas' third consecutive, long-term transportation program since 1989.
- Kansas has the nation's fourth highest number of public road miles (more than 140,000) behind Texas, California and Illinois.
- Kansas has the nation's fourth highest number of bridges (more than 25,000) behind Texas, Ohio and Illinois.
- Construction began in 2014 on the Johnson County Gateway, the state's biggest-ever project let for construction and Kansas' first design-build project.

via US-75 N **2 h 23 min**  
134 miles



# MOVING THE ECONOMY

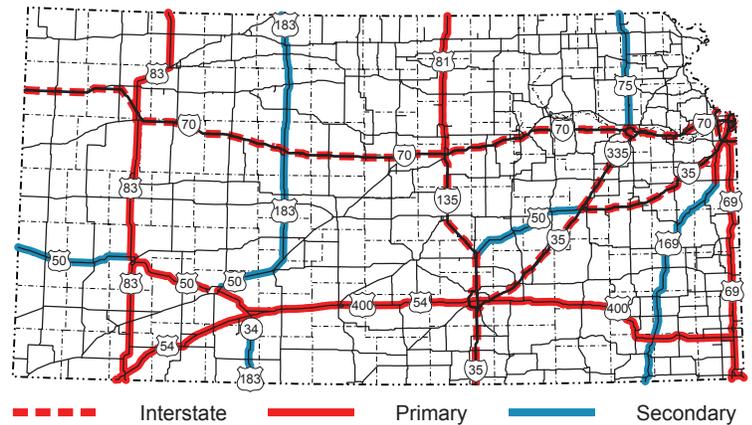
Tens of millions of dollars in commerce moves through Kansas every day. Maintaining and improving the state's freight networks spurs economic growth and creates jobs.

## Kansas Freight Advisory Committee

The 40-member Kansas Freight Advisory Committee was formed in 2014 to advise and assist KDOT and KTA in identifying freight transportation issues. Some of the group's recommendations include:

- ▶ Build more passing lanes
- ▶ Improve rail crossings
- ▶ Conduct a truck parking analysis
- ▶ Conduct a transload facility location analysis
- ▶ Identify freight corridors of significance

## FREIGHT CORRIDORS OF SIGNIFICANCE



A freight train passes through Shawnee County.

## Rail and Freight in Kansas

- ▶ 13 freight railroads (four Class 1 and nine short line)
- ▶ 4,721 miles of track (Class 1- 2,790; short line 1,931)
- ▶ 6,683,122 Class 1 carloads
- ▶ 148,509 short line carloads
- ▶ Top commodities hauled: farm products, food products, coal, sealed ocean containers (intermodal) and oil/LPG/chemicals
- ▶ 3.18 million truck miles traveled (10.5 percent of all traffic)

# K-TRIPS

On Jan. 27, 2014, KDOT opened K-TRIPS (Kansas Truck Routing and Intelligent Permitting System) to the public. Trucking carriers can now apply for permits, generate the safest route, pay fees, and get an issued permit, all online, 24/7. Along with the permit, the system generates a custom route with turn-by-turn directions that include total mileage.



A 428-foot demethanizer weighing 1.2 million pounds entered Kansas on Oct. 24, 2014, from Oklahoma en route to Colorado. It is the heaviest, longest superload to travel in Kansas and its route was charted through K-TRIPS.

# KTA / KDOT PARTNERSHIP

Formalization of the long-time relationship between KDOT and the KTA creates a single voice for Kansas transportation and provides consistency, operational efficiency and resource-sharing.

## KTA BY THE NUMBERS

236 miles

47% tolls

400,000 +

\$94.2 million

35.5 million

6 service areas

12.9 million

Tolls collected electronically in 2013

K-TAGs (electronic toll collection device) in use

Net toll revenue in 2013

Vehicle count in 2013

Vehicle count during summer of 2014 – **an all-time record**

KTA and KDOT opened the first co-location field complex at Emporia in October. By combining offices, shops and storage domes on the formerly KTA-only property, the state can sell the old KDOT facility and put that property back onto the local tax rolls.



## Benefits of KTA / KDOT Partnership

- ▶ \$17 million in savings in first 1½ years
- ▶ Inclusion of KTA in bi-annual Local Consult meetings
- ▶ Sharing of best practices
- ▶ Resource sharing



## East Kellogg Project

Over-budget bids for the Webb Road/U.S. 54 interchange created an opportunity for KDOT, KTA and the city of Wichita to rethink the proposed improvements for the entire East Kellogg corridor. Out of that collaboration came modified projects at Webb Road and Greenwich Road and the addition of new KTA/U.S. 54 ramps. The new design features will provide even better results in reducing congestion, increasing capacity and improving traffic flow on the city's east side.

[www.eastkelloggexpansion.com](http://www.eastkelloggexpansion.com)



The Kansas Turnpike stretches from the Oklahoma border to Kansas City and includes a segment through the scenic Flint Hills.

# AVIATION / RAIL / TRANSIT

## Aviation

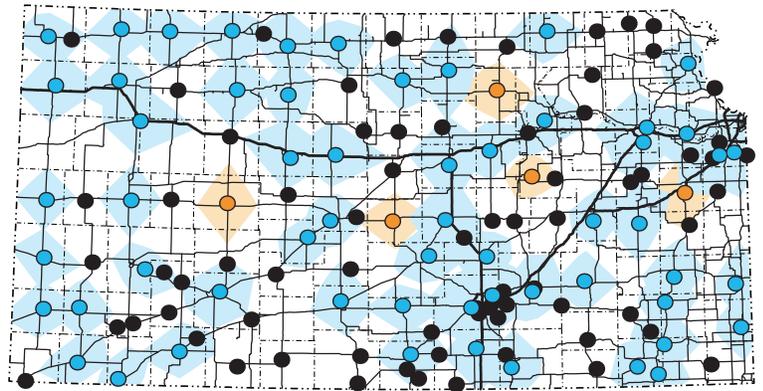
Aviation serves a critical role in providing communities, especially those in rural areas, access to medical services.

138	Public use airports
47,651	Jobs
\$2.3 billion	Payroll
\$10.4 billion	Economic output



Hundreds of Kansas students participated in the second annual Kansas Aviation Expo to learn about aviation careers, visit with pilots and watch air shows. The week-long event included the Fly Kansas Air Tour, national speakers and meetings designed for those in the aviation industry.

## AIR AMBULANCE MAP



- Air ambulance ready with 30-minute drive time
- Air ambulance ready within 2-3 years with 30-minute drive time
- Airport

This map shows the state's public-use airports and depicts drive times around those that can accommodate air ambulance service in inclement weather. Eighty-eight percent of Kansans are within 30 minutes of an air ambulance airport.

## Rail

A strong, interconnected rail system is one of the keys to the success of Kansas' agriculture and manufacturing sectors.

### State Rail Service Improvement Program

\$5 million is invested annually in the State Rail Service Improvement Program. The program provides loans, grants and matching funds for major rehabilitation projects, capacity improvements and economic development opportunities. Qualified entities that may apply for funds include railroads operating in Kansas, port authorities formed under Kansas statute, shippers and local units of government.



An example of the improvements funded under the Rail Service Improvement Program is work done at the Fredonia grain elevator. The project includes a spur to the grain elevator, new track, crossing rehabilitations, bridge repairs and more.

Costs Approximate	\$750,000	Rail program grant
	\$750,000	Recipient match
	\$1 million	Loan
	\$2.5 million	Total cost

Kansas is required by statute to have Coordinated Transit Districts, or CTDs, which serve as the administrative structure that allows KDOT to contract with and reimburse the transit providers in KDOT programs. This map shows new CTD boundaries that will take effect in July 2015.



## Transit

*Public transportation in Kansas connects employees to employers, patients with doctors and people to their communities.*

In Fiscal Year 2014, transit agencies in Kansas provided more than 11 million rides across the state. And after a two-year planning effort, KDOT's Office of Public Transportation will begin 2015 by implementing regionally coordinated transit strategies to increase access to public transportation for all Kansans. This new approach to transit program management came from the T-WORKS program in 2010, which provided the financial opportunity to advance

coordination strategies beyond those occurring at the local level.

By strengthening the interconnectivity of the statewide transit network, KDOT seeks to improve the efficiency

and cost-effectiveness of public and private investments in transit and reduce the gaps and redundancies in existing service, while also adding regional routes to get more riders across greater distances.

TRANSIT RIDERSHIP	FY10	FY11	FY12	FY13	FY14
<b>URBAN</b>	6,445,625	7,172,677	8,728,685	8,228,965	8,288,775
<b>RURAL</b>	2,910,615	2,815,125	2,891,650	2,947,031	3,072,212
<b>TOTAL</b>	9,356,240	9,987,802	11,620,335	11,175,996	11,371,987
<b>% INCREASE</b>		7%	16%	-4%	2%

## SERVING KANSANS

KDOT has a host of ways to communicate with and receive feedback from Kansans.



KDOT conducts Local Consultation meetings throughout the state every two years to discuss the transportation priorities of Kansans. In the fall of 2014, KDOT and KTA cohosted the meetings and about 550 people attended eight meetings, including a session in Kansas City, Kan., above, where Metropolitan Planning Manager Davonna Moore leads a discussion.

### SOCIAL MEDIA

Jan. 1 - Nov. 20, 2014

- 9,331 fans / 10 pages
- 36,340 followers / 13 accounts
- Kansas Transportation blog**  
212 posts / 37,000 views
- KSDOT.org** 757,797 visits



### TRAVELER INFORMATION

- 511:** 152,115 calls; 2.7 million visits online
- Electronic message signs:** 99
- Traffic cameras:** 201

# PERFORMANCE MEASURES

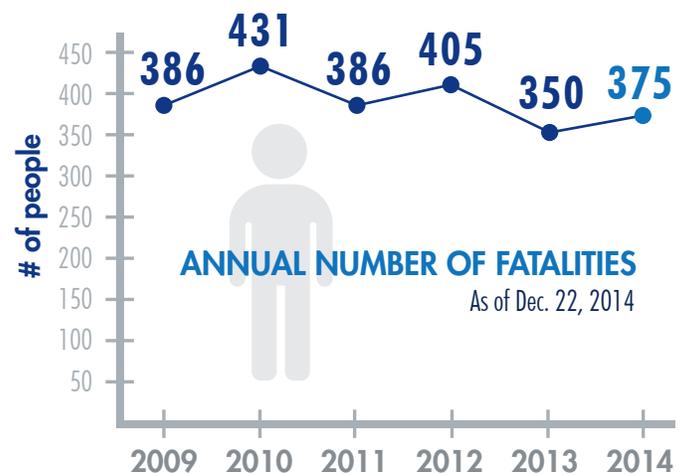
To help KDOT leaders provide a statewide transportation system to meet the needs of Kansas, the agency has a well-defined set of performance measures that apply to areas including safety, system condition, operations, program delivery and modes. And because the agency is committed to delivering a transportation program in an accountable, collaborative and transparent manner, it has a performance measures website. Kansans can see how their state is performing in these key areas.

Launched in 2011, the website provides the basis for citizens to tell the agency how it can improve performances as well as the way performance is communicated. On these two pages are example measures from each of the critical areas that are measured. To see the full set of measures, visit the KDOT website – [ksdot.org](http://ksdot.org) – and scroll down to Performance Measures on the right side.

[ksdot.org](http://ksdot.org)

## SAFETY

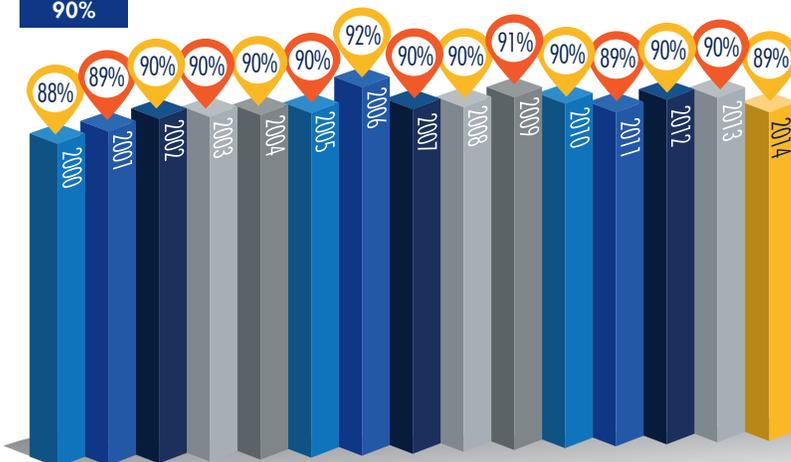
The Strategic Highway Safety Plan is a statewide coordinated safety plan providing a comprehensive framework for reducing fatalities and serious injuries on all public roads. It focuses on the 4 E's of public safety: engineering, education, enforcement and emergency medical services. Crash data and research are used to develop safety counter-measures and guide investments.



## MAINTENANCE QUALITY ASSURANCE PERCENTAGE

Percent of samples meeting maintenance standards

TARGET  
90%



## OPERATIONS

The Maintenance Quality Assurance program measures the value of KDOT's maintenance efforts in the categories of travel way, traffic guidance, shoulders, drainage and roadside.

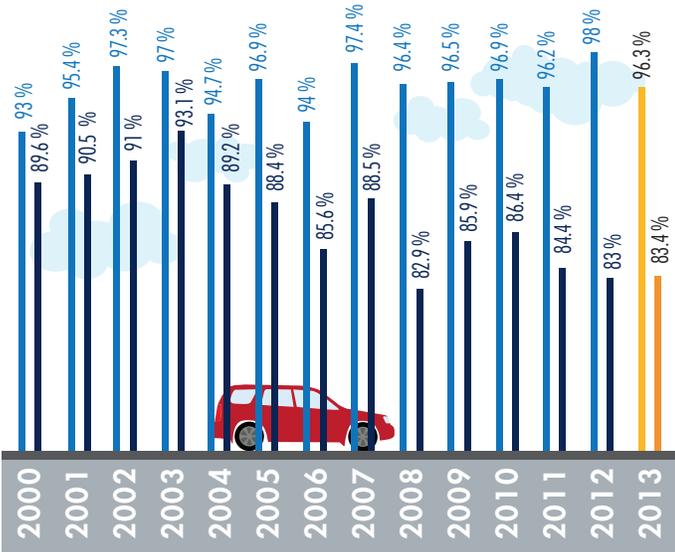
The MQA program involves a physical inspection of randomly selected, tenth-of-a-mile sample segments. Thirty of these samples are analyzed in each KDOT subarea throughout the state. This translates to more than 3,000 MQA inspections a year.

# SYSTEM CONDITION

## % OF INTERSTATE & NON-INTERSTATE PAVEMENT IN GOOD CONDITION

INTERSTATE TARGET = 85%

NON-INTERSTATE TARGET = 80%

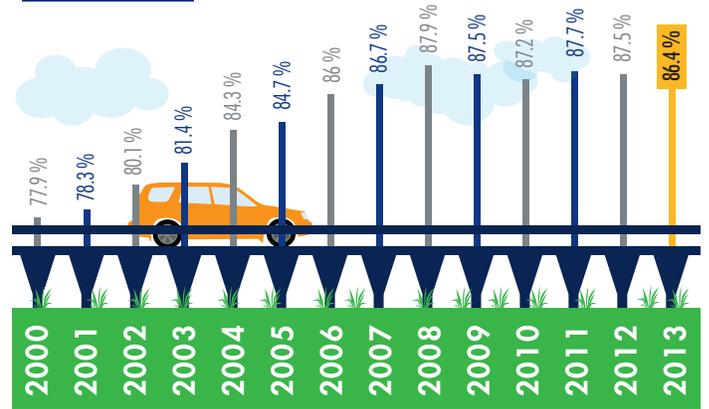


Bridge conditions are calculated using the Bridge Health Index, which uses data gathered during the bridge inspections. Pavement conditions are scored on three factors:

- roughness
- joint distress in concrete or transverse cracking in asphalt
- faulting in concrete or rutting in asphalt

## % OF BRIDGES IN GOOD CONDITION

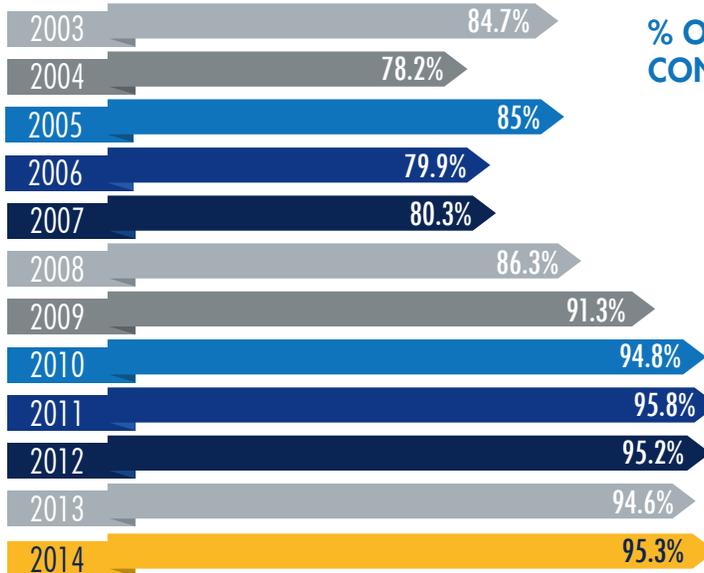
TARGET = 85%



# PROGRAM DELIVERY

KDOT aims to continually improve the accuracy of project estimation, both in time and cost. Factors such as flooding, drought and severe freeze/thaw cycles can affect both. KDOT's top priorities are the safety of the construction workers and travelers and providing quality projects.

## % OF PROJECTS EARLY/ON-TIME



## % OVER/UNDER CONSTRUCTION BUDGET



# SAFETY

At its core, KDOT is about safety. The agency has many programs and initiatives to proactively promote the safety of travelers and the people who work on and alongside roadways.

## Seat Belts

KDOT's education and enforcement efforts, such as 'Click it. Or ticket.', inform travelers of Kansas' seat belt law and encourage usage. Through education and enforcement, seat belt usage is steadily improving.



**i** When a driver wears a seatbelt, 96 percent of the time the children in the vehicle also buckle up.

**i** In a crash, a person is 40 to 60 percent more likely to survive or sustain a less severe injury if properly restrained.

### SEAT BELT USAGE

	2010	2011	2012	2013	2014
<b>ADULTS</b>	82 %	83 %	80 %	81 %	86 %
<b>TEENS</b> (Age 15 to 17)	65 %	71 %	78 %	81 %	83 %



## Work Zones

The 10-year T-WORKS transportation program is now in its biggest construction years. Through its nationally-recognized Work Zone Safety Awareness Week campaign, KDOT strives to educate travelers about the risks of work zones.

### WORK ZONE CRASHES

	CRASHES	FATALITIES	INJURIES
2009	1,296	1	513
2010	1,554	4	593
2011	1,609	11	596
2012	1,742	8	608
2013	1,114	6	383

## Distracted Driving

There are many distractions that contribute to crashes, but the most talked about in recent years is texting. KDOT supported legislation that led to a ban on texting while driving and has initiated a national award-winning awareness initiative.

In April of 2014, KDOT partnered with local and state law enforcement agencies in a distracted driving education and enforcement campaign. Utilizing federal funding, the campaign included \$100,000 in paid media and more than \$25,000 in overtime enforcement from more than 20 local and state law enforcement agencies.



**i** In 2013, 26 percent of fatalities (90 people), were a result of distracted driving.

# MAINTAINING THE SYSTEM

Whether it's keeping lanes open in a snowstorm, performing traffic control after a crash or checking on the welfare of a stranded motorist, KDOT's orange-clad maintenance crews are a welcome sight to travelers.



KDOT maintenance workers repaired or replaced about 62,000 feet of guardrail in 2014 and striped about 10,000 miles.



KDOT maintains the state's system of 81 communications towers that cover the entire state. The system is essential to the daily health and well-being of Kansans and plays a vital role in the response to disasters.

## Communication

- ▶ More than 1,000 agencies hosted on KDOT's towers
- ▶ More than 28,000 users
- ▶ Local user groups include police departments, sheriff's offices, hospitals, fire departments, ambulances, county emergency managers and public works
- ▶ State groups include Kansas Highway Patrol, National Guard, Kansas Bureau of Investigation, Kansas Wildlife, Parks and Tourism, Kansas Department of Corrections, State Fire Marshal, KDOT and KTA



Clearing roads of snow isn't just a safety activity, it's vital to the state's economy. On any given day in winter, thousands of workers and tens of millions of dollars in goods move through Kansas, making it essential that roads remain open even in the worst of conditions.

## WINTER 2014 BY THE NUMBERS

591	<i>Dump trucks</i>
2.7 million	<i>Miles treated/plowed</i>
550,000	<i>Labor hours</i>
125,000	<i>Tons of salt</i>
90,000	<i>Tons of sand</i>
5.2 million	<i>Gal. of brine</i>
33,500	<i>Gal. of magnesium chloride</i>
<b>\$8.50</b>	Estimated winter expense per registered vehicle

 Daniel Weston Smith | November 22 at 10:13am

Just wanted to say thanks to the two anonymous KDOT employees who showed the utmost kindness. I had a blowout on I-70 W. These two gentlemen helped me change my tire, followed me to a repair shop, called local tire shops to find me a replacement and made sure I arrived at the tire shop safely. They then refused any kind of reimbursement for their time. Way to go KDOT! - CPT Dan Smith, US Army

# FY 2014 >>>

Summary of revenues and expenditures for all funds for FY 2014.



The 2015 Annual Report Appendix contains additional transportation information including:

- ▶ Financial compliance
- ▶ Project selection criteria
- ▶ List detailing the announced FY 2015-16 projects, projects completed in FY 2014 and projects under construction as of October 2014; also, list of aviation, rail and public transit projects
- ▶ Transportation Revolving Fund
- ▶ Modal information
- ▶ Federal Fund Exchange Program

The 2015 Annual Report and the appendix are available at [www.ksdot.org/publications.asp](http://www.ksdot.org/publications.asp) under Project/Publications.

AMOUNTS IN THOUSANDS

## REVENUES

	2014	PERCENTAGE OF TOTAL
Motor fuel taxes	\$441,699	26%
Vehicle registrations & permits	211,644	13%
Intergovernmental	523,241	31%
Sales & use taxes	501,291	30%
Investment earnings	3,276	0%
Other	8,065	0%
Transfers from other state funds	2,595	0%

**TOTAL REVENUES** \$1,691,811 100%

## EXPENDITURES

	2014	PERCENTAGE OF TOTAL
Current operating		
Maintenance	\$125,934	8%
Preservation	378,348	24%
Modernization	27,850	2%
Expansion & enhancement	272,014	17%
Communications system	7,221	0%
Local support	284,949	18%
Rail, air & public transportation	19,452	1%
Management	55,712	4%
Debt service		
Principal	\$80,790	5%
Interest & fees	65,395	4%
Transfers to other state funds	\$270,382	17%

**TOTAL EXPENDITURES** \$1,588,047 100%

**Excess (deficiency) of revenues and other sources over expenditures** \$103,764 100%

