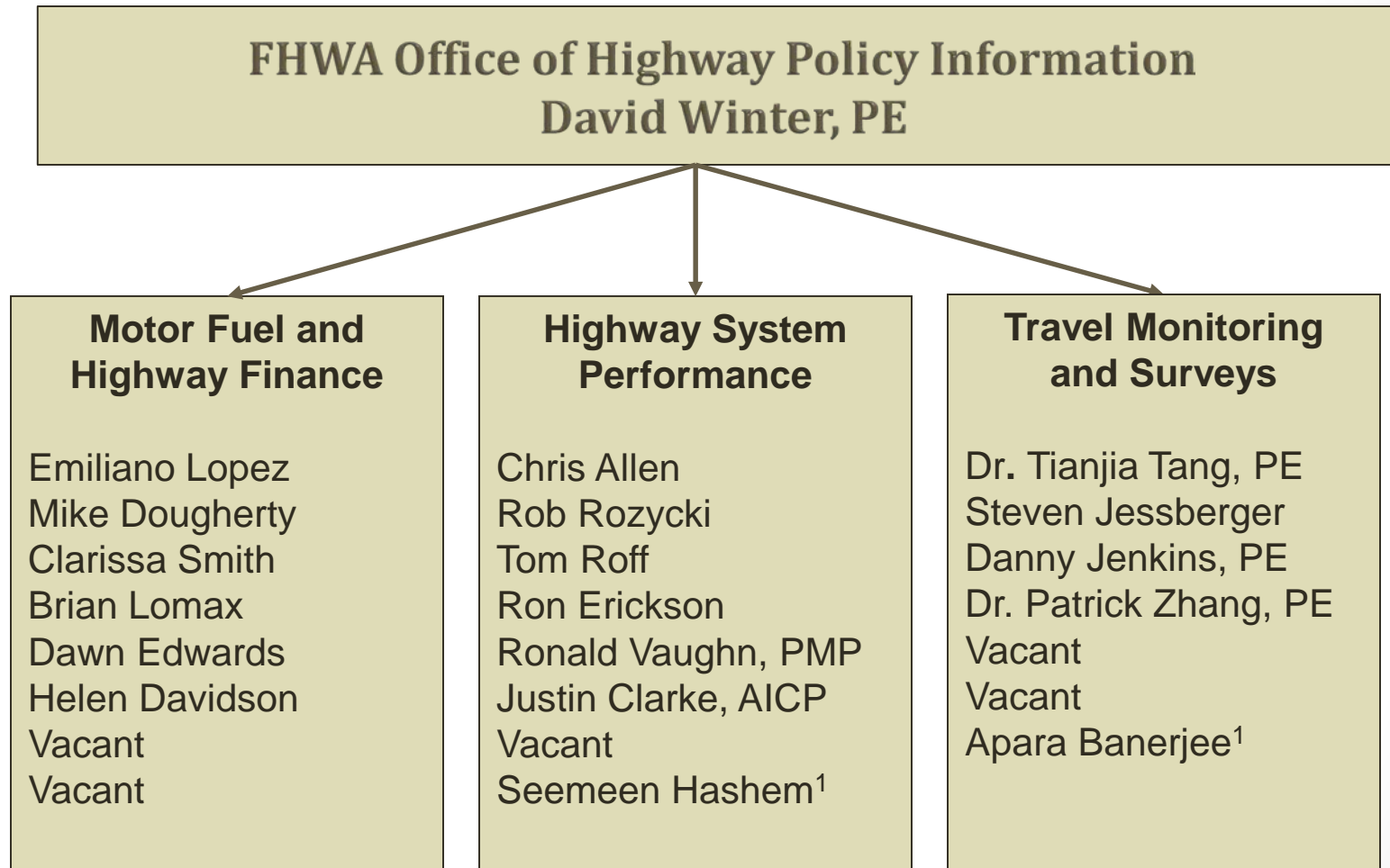


The Office of Highway Policy Information

Highway Information Seminar

September 2018

Office Organizational Chart



1 – Indicates contractor

Our Mission

- 1) To serve as the national source of surface transportation data.
- 2) Provide the U.S. DOT, Congress, and transportation community with accurate information products in a timely manner.
- 3) To inform the development and implementation of, and serve as the foundation for decisions, policies, legislation, programs, and performance goals.
- 4) Constantly strive to improve the quality, efficiency, and effectiveness of highway data collection and analysis on travelers and the physical, operational and financial condition of our transportation system.

Our Data Programs

- National Performance Management Research Data System
- Highway Performance Monitoring System
- National Household Travel Survey
- Certified Public Road Mileage
- Motor Vehicle Registration
- Heavy Vehicle Use Tax
- Traffic Monitoring
- Weigh-in-Motion
- Highway Finance
- Licensed Drivers
- Recovery Act
- Toll Facilities
- Tax Evasion
- Motor Fuel

Our Data Systems

- Fuels and Financial Analysis System-Highways (Fuels and FASH)
- Integrated Transportation Information System (ITIP)
- Highway Performance Monitoring System (HPMS)
- Travel Monitoring and Analysis System (TMAS)
- Vehicle Travel Information System (VTRIS)
- National Household Travel Survey (NHTS)
- Policy Information Data Portal (PIDP)
- Recovery Act Data System (RADS)

Key FHWA Business Uses

- Apportionment of Federal-aid Funds
- Performance Measurement
- FHWA Reports
- Development of new programs and initiatives
- Wide variety of information products

Apportionment

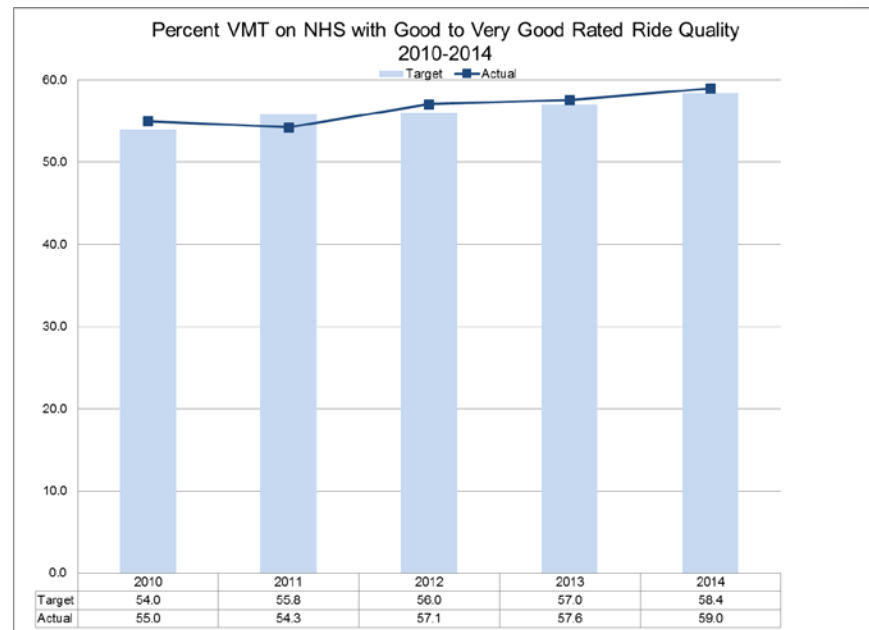
- Process for Distributing Highway Trust Fund (HTF) dollars to States
- Legislated by formula
- Driven by data submitted by State data providers, specifically:
 - Lane-miles
 - Annual VMT
 - Highway Trust Fund contributions

Performance Measures

- FHWA program offices are the “goal champions” responsible for determining performance measures
- OHPI role is to help determine availability, quality, and suitability of existing data for use
- For some measures OHPI analyzes the data
- Want to avoid multiple data collections of same data
- Our emphasis is “collect once, use often”

Agency Performance Measures

- Highway-Related Fatalities per 100 Million VMT
- Highway-Related Injuries per 100 Million VMT
- % of VMT on NHS with IRI \leq 170
- % of STRAHNET Miles with IRI \leq 170
- Annual Hours of Delay
- Congested Travel



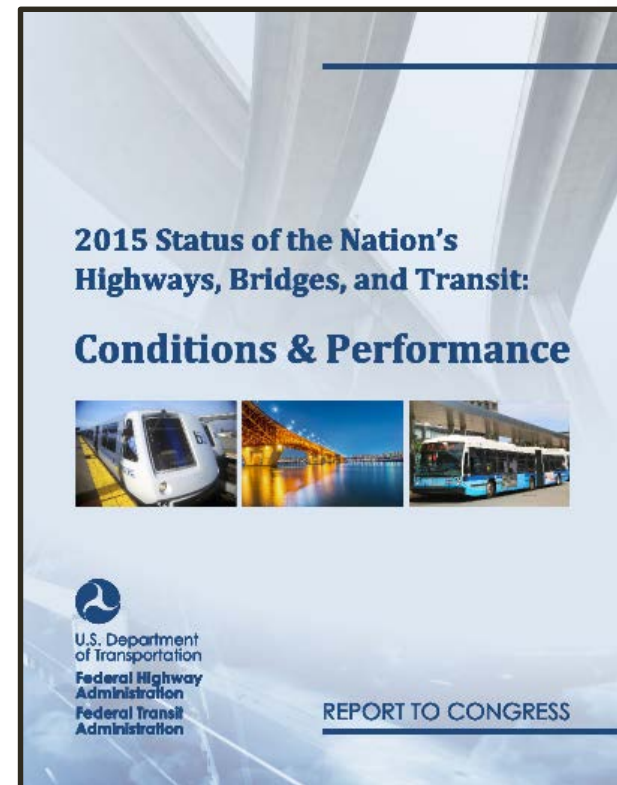
FHWA Reports

- To Congress
- To U.S. DOT
- Office publications
- Monthly trend reports
- Special reports, briefs, and analysis

Reports to Congress

Conditions & Performance Report

- Extent of System
- Roadway Condition
- System Performance
- Funding Sources
 - Federal, State, Local, Other
- Expenditures by:
 - Improvement Type & Funding Source



Office Publications

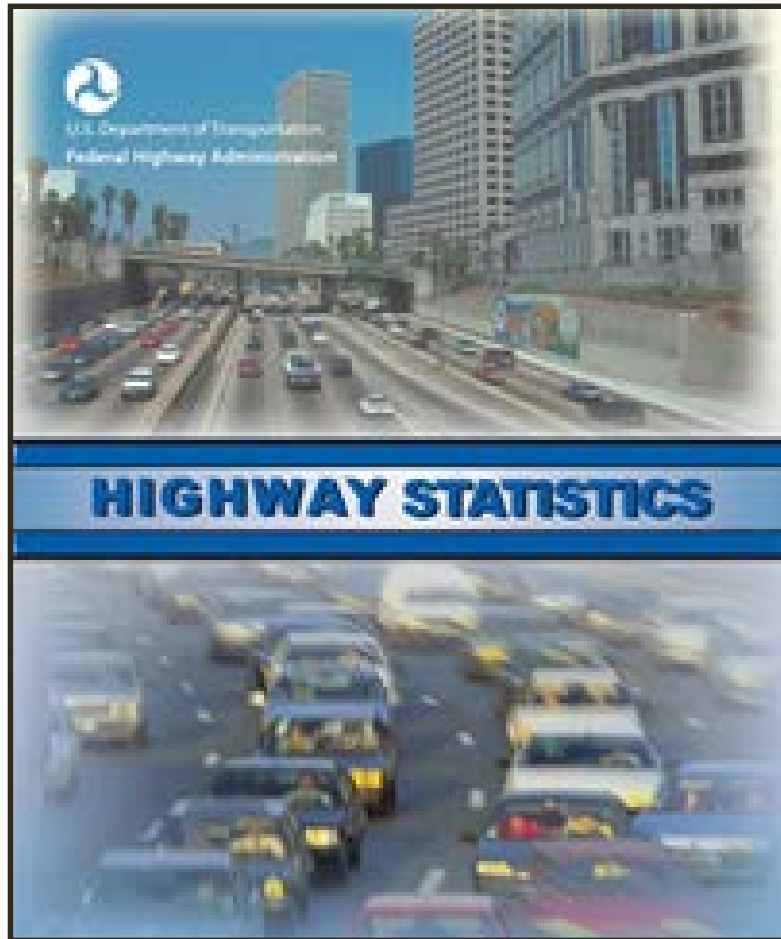


Summary of Travel Trends

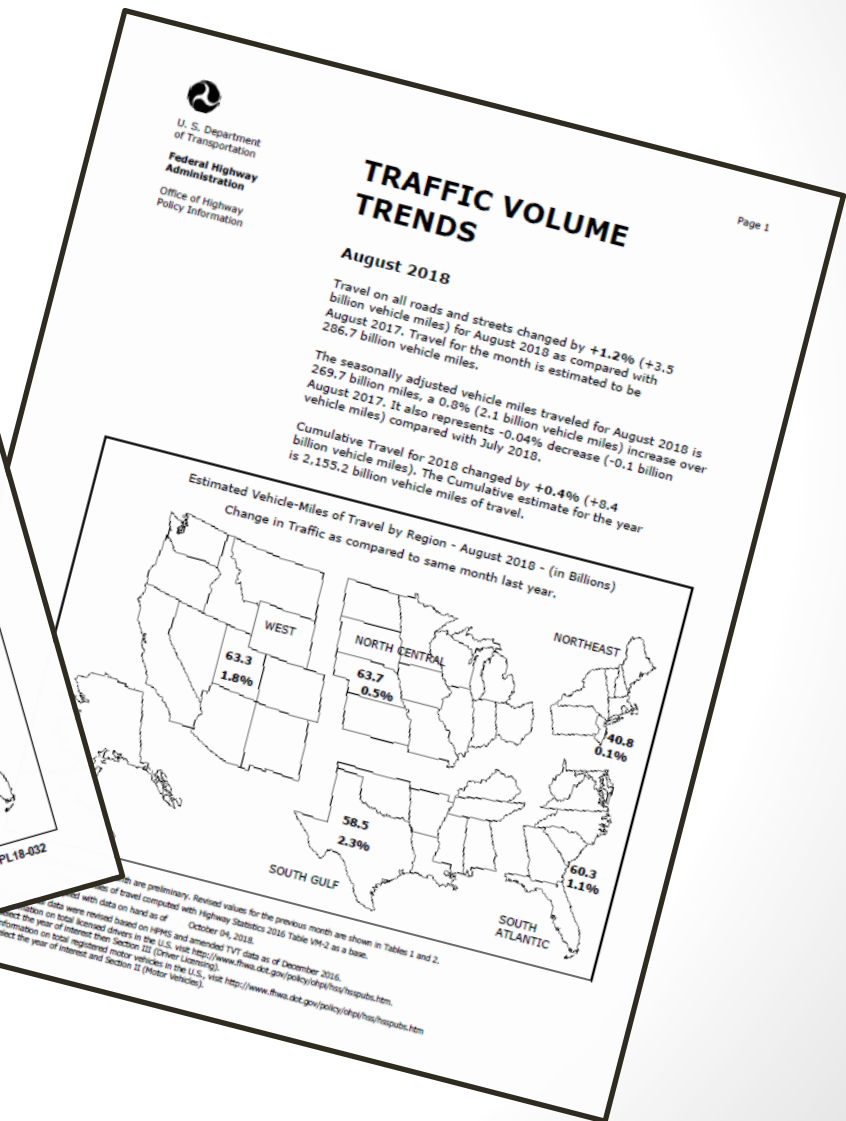
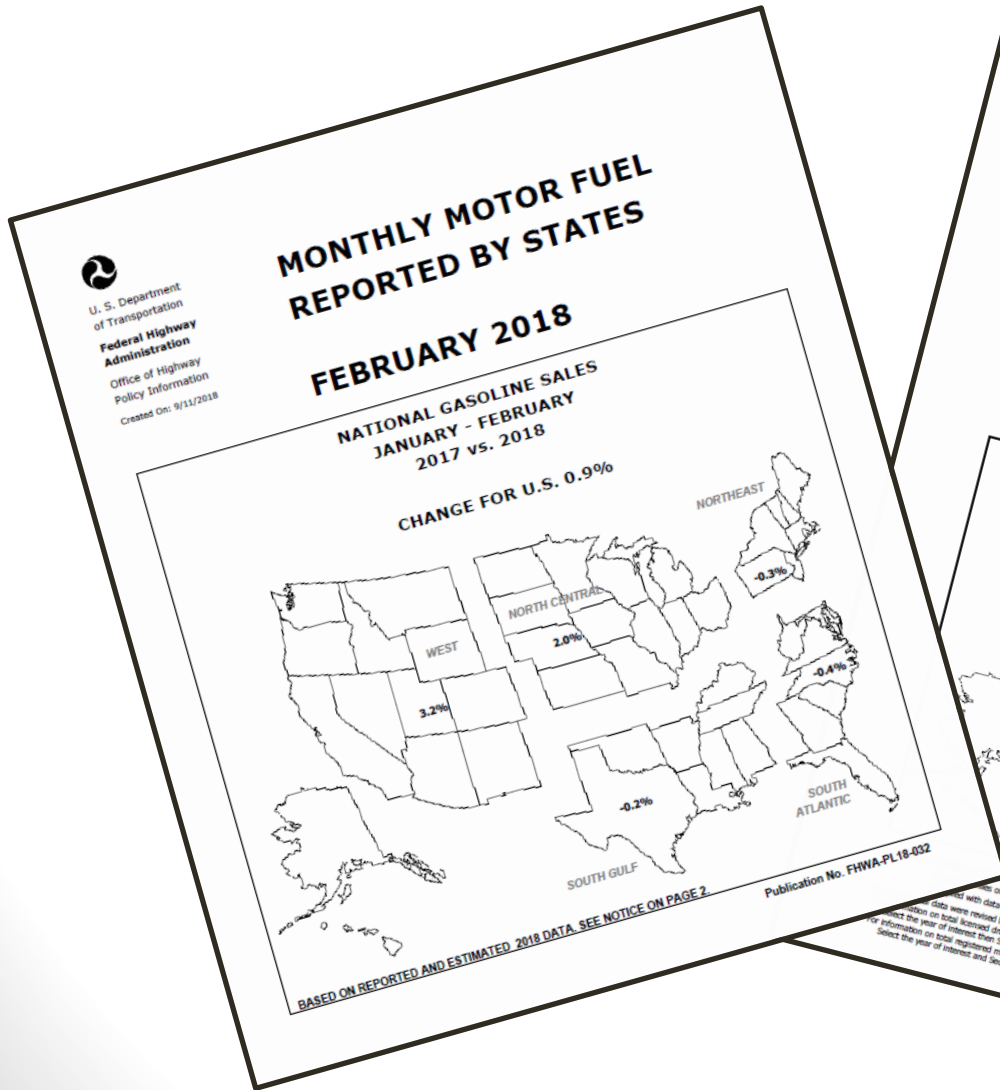
2017 National Household
Travel Survey



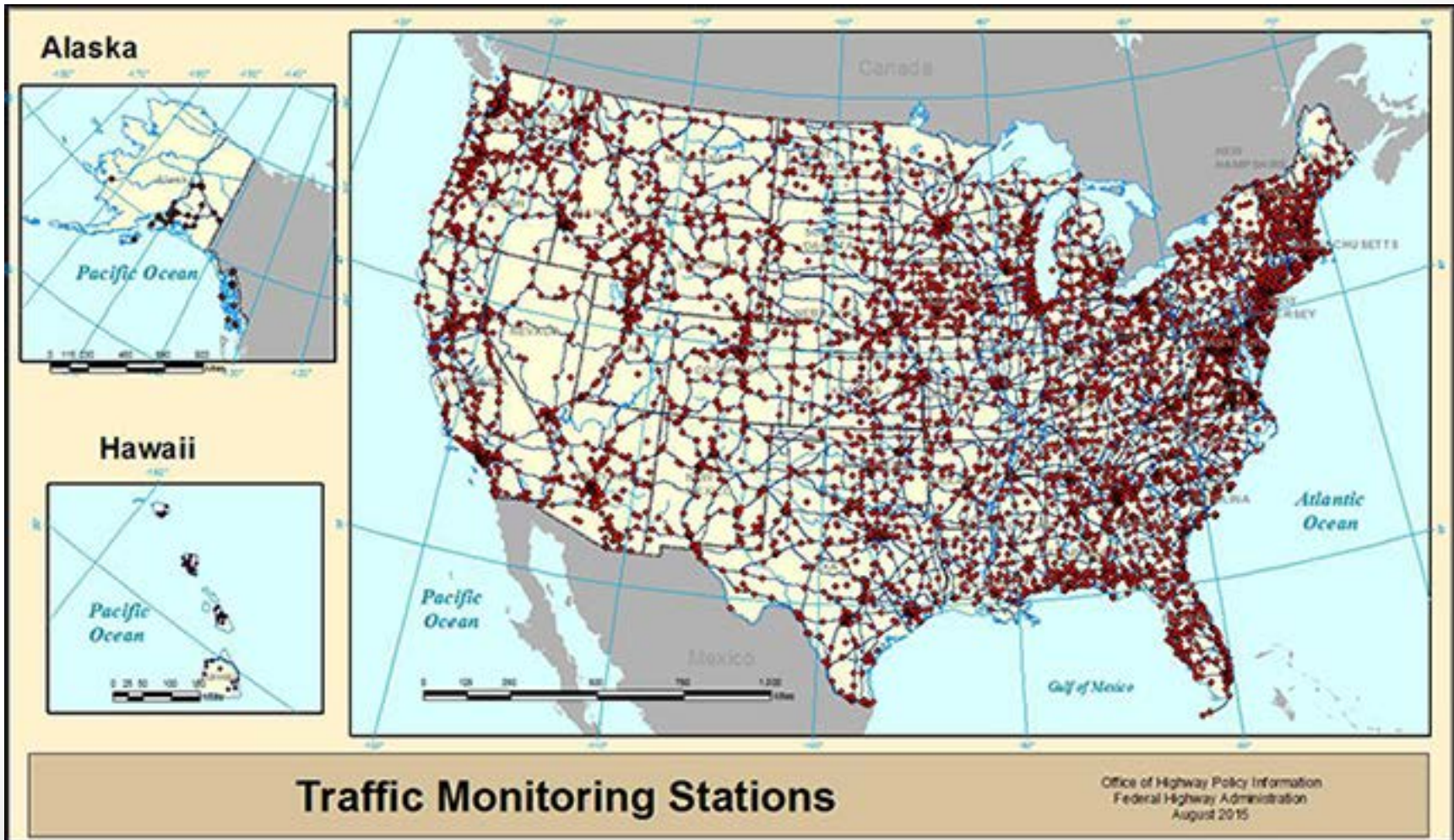
U.S. Department
of Transportation
Federal Highway
Administration



Monthly Reports



Traffic Volume Trends (TVT) Report



TVT Report

- Routinely covers over 6,500 counting sites around the US.
- Thanks to more states reporting on time and states continuing to add locations.
- Over 2,800 people that have subscribed to the TVT page in GovDelivery.
- All subscribers automatically get an e-mail once a new report has been posted.
- In August 2018
 - 2nd highest number of hits (over 52,700)
 - 7th highest number of visitors (over 6,300)Of all FHWA web pages, not including FHWA home page.
- 2016 Highway Statistics 62nd w/ 1,840 visitors and 1,400 hits

Focus on Data...

- Data Quality
- Open Data
 - <https://data.transportation.gov/>
 - Data Dictionary
 - Data Visualizations
- National initiatives
 - Performance Measures
 - Safety Data
 - Data Quality
 - Data Integration
- National Data Groups
 - Federal Geographic Data Committee
 - DOT Open Data Working Group
 - AASHTO/SCOP Data Subcommittee
 - TRB Data Section
- FHWA Data Governance: <https://www.fhwa.dot.gov/datagov/>

Characteristics of Quality Data

- Accurate
- Timely
- Complete
- Meets expectations
- Consistent across States

Why is Timeliness Important?

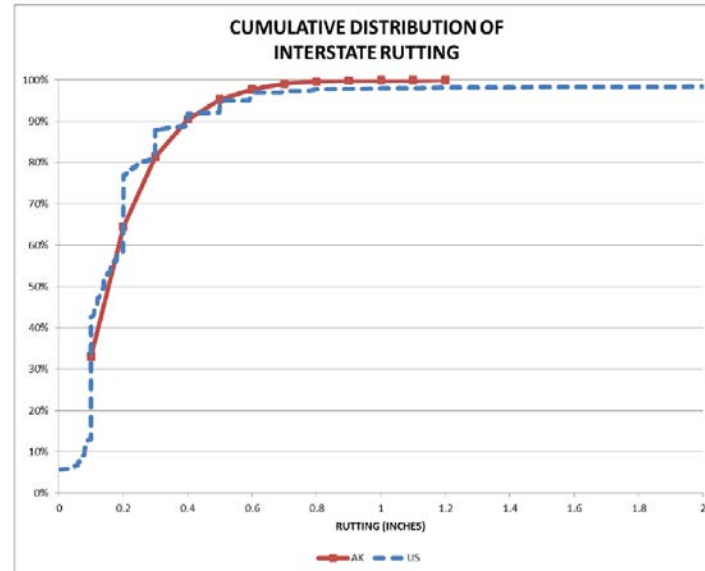
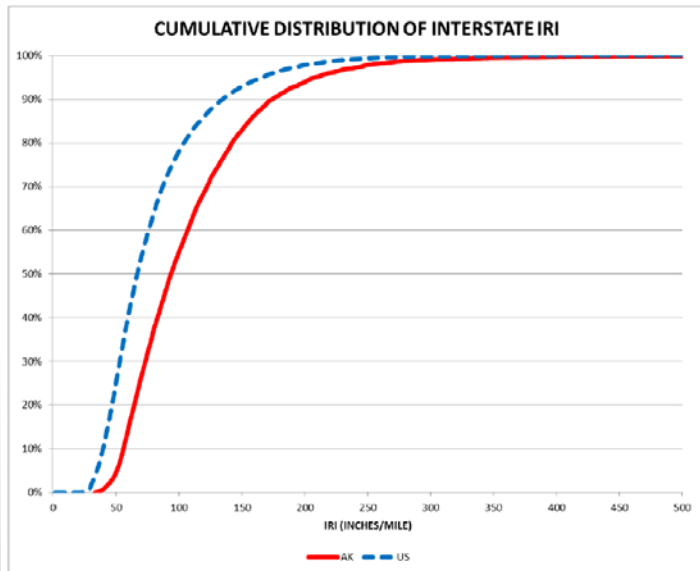
- Data users require timely data
- Earlier is better
- Commitments to release data and data products:
- August 15
 - Driver License tables
 - Motor Fuel data (MF-21)
 - Travel data (VM-3)
 - HPMS GIS files
- October 1
 - ARNOLD network for FMIS
 - Travel data for Safety and NHTSA
 - Remaining tables

How do we improve data quality?

- Provide reporting guidance
 - Guide to Reporting Highway Statistics
 - Traffic Monitoring Guide
 - HPMS Field Manual
 - Federal Register
 - Notice of Proposed Rule Making
- Provide training and technical support
 - Onsite
 - Regional workshops
 - Remote
 - NHI Courses
- National Data QA Team
- New tools and resources

Data Quality - HPMS Pavement Report Cards

	FIPS CODE
	STATE
	DFS
	W
HPMS DATA QUANTITY - PAVEMENT	
HM-60 TOTAL INTERSTATE LANE MILES	2192.382
TOTAL INTERSTATE LANE MILES BASED ON EXPANDED SAMPLES MISSING CRACKING PERCENT DATA	2176.374
TOTAL INTERSTATE LANE MILES BASED ON EXPANDED SAMPLES MISSING FAULTING DATA	0.000
TOTAL INTERSTATE LANE MILES BASED ON EXPANDED SAMPLES MISSING IRI DATA	0.000
TOTAL INTERSTATE LANE MILES BASED ON FULL EXTENT MISSING IRI DATA	0.442
TOTAL INTERSTATE LANE MILES BASED ON EXPANDED SAMPLES MISSING RUTTING DATA	27.892
TOTAL INTERSTATE LANE MILES BASED ON EXPANDED SAMPLES WHERE SURFACE TYPE IS NOT PROPERLY CODED. A CODING OF 1 FOR UNSURFACED OR BLANK IS NOT ACCEPTABLE ON THE INTERSTATE.	0.000
TOTAL INTERSTATE LANE MILES WHERE THROUGH LANES IS CODED AS A 1, 2, OR 3. ALTHOUGH THIS IS POSSIBLE AT INTERSTATE TERMINAL SECTION OR SOME INTERCHANGES THESE SECTIONS SHOULD BE VERIFIED.	0.000



Data Quality - HPMS Scorecard



Score

36.9
out of 50

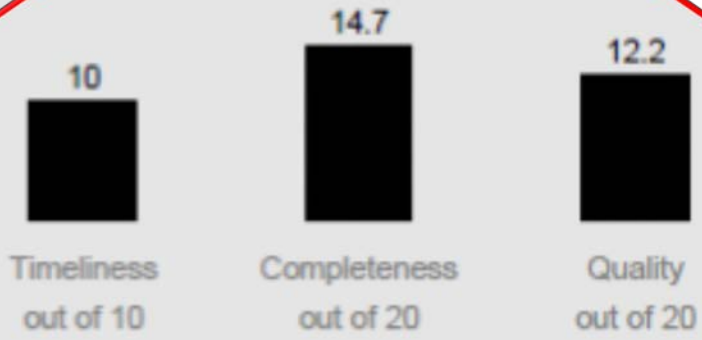
The Score is the sum of points received from timeliness, completeness, and quality.



Data Summary

	2016	2015
Number of Data Items	77.00	77.00
Number of Routes	2,654.00	2,673.00
Pct. Unmatched Routes	1.81	2.51
Number of Sections	3,669.00	3,724.00
Pct. Unmatched Sections	2.21	2.51
Total Center Line Miles*	13,432.18	13,300.24
Total Lane Miles*	17,283.02	17,981.21

*Does not include non-NHS locals.



Legend for data item quality:

- PSR: High (Dark Blue)
- RUTTING: Medium (Light Blue)
- SURFACE_TYPE: Low (Lightest Blue)

HPMS

The Scorecard is intended to highlight areas of concern, but is not an exhaustive error finding. The Scorecard reflects data from 1) the 'Analysis Year', which is typically the most recent data year and 2) a previous 'Comparison Year', which is required to accommodate many of the Scorecard's temporal calculations. The Scorecard also evaluates the National patterns for the year prior to the Analysis Year. Elements of the Scorecard are 1) statewide data timeliness, quality and completeness summary, 2) information on the interpretation of scorecard elements, 3) pavement and travel items detailed reviews, 4) ramp data details and 5) HPMS Data Item statistical review.

Data Quality - HPMS Scorecard

2016 Summary Statistics

Current year summaries by Functional System

Functional System	10 - Peak Lanes (SP)				N	Min	Median	Max
	Total Centerline MI	Tot. Expanded Centerline MI	Total Lane MI	Tot. Expanded Lane MI				
Interstate	1,103.92	0.00	909.23	0.00	46	1	4	7
Non-Interstate NHS	1,321.96	101.85	1,990.17	511.98	252	1	2	6
Other/Minor Arterials	2,851.32	951.92	5,477.87	3,738.42	917	1	2	6
Collectors + Locals	2,067.16	1,271.42	3,991.20	2,856.67	706	1	1	4

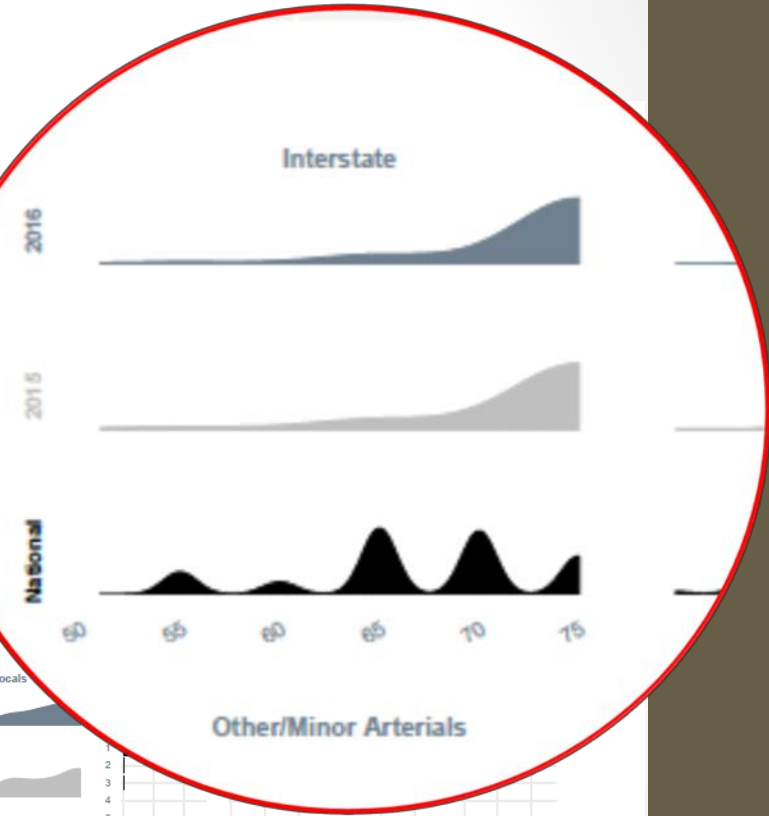
Functional System	14 - Speed Limit (SP)			
	Total Centerline MI	Tot. Expanded Centerline MI	Total Lane MI	Tot. Expanded Lane MI
Interstate	1,168.51	0.00	2,623.79	0.00
Non-Interstate NHS	1,671.82	77.33	2,567.03	426.5
Other/Minor Arterials	3,723.99	882.52	6,693.24	3,520
Collectors + Locals	3,053.69	1,338.68	5,615.85	2,948

Distributions

Plotting data distributions for current year, previous year, and national

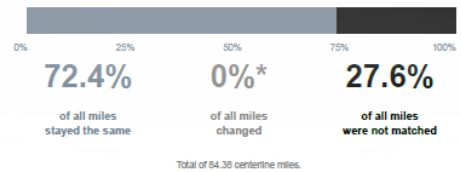
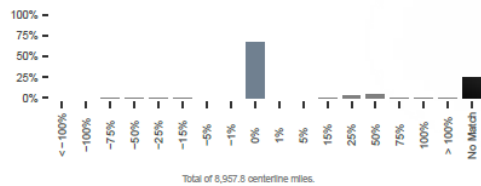
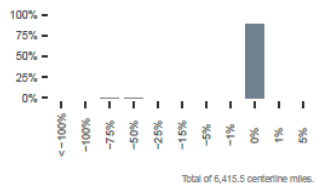
2016
2015
National (2015)

Sample panel data are unexpanded.
National is scaled to state data.

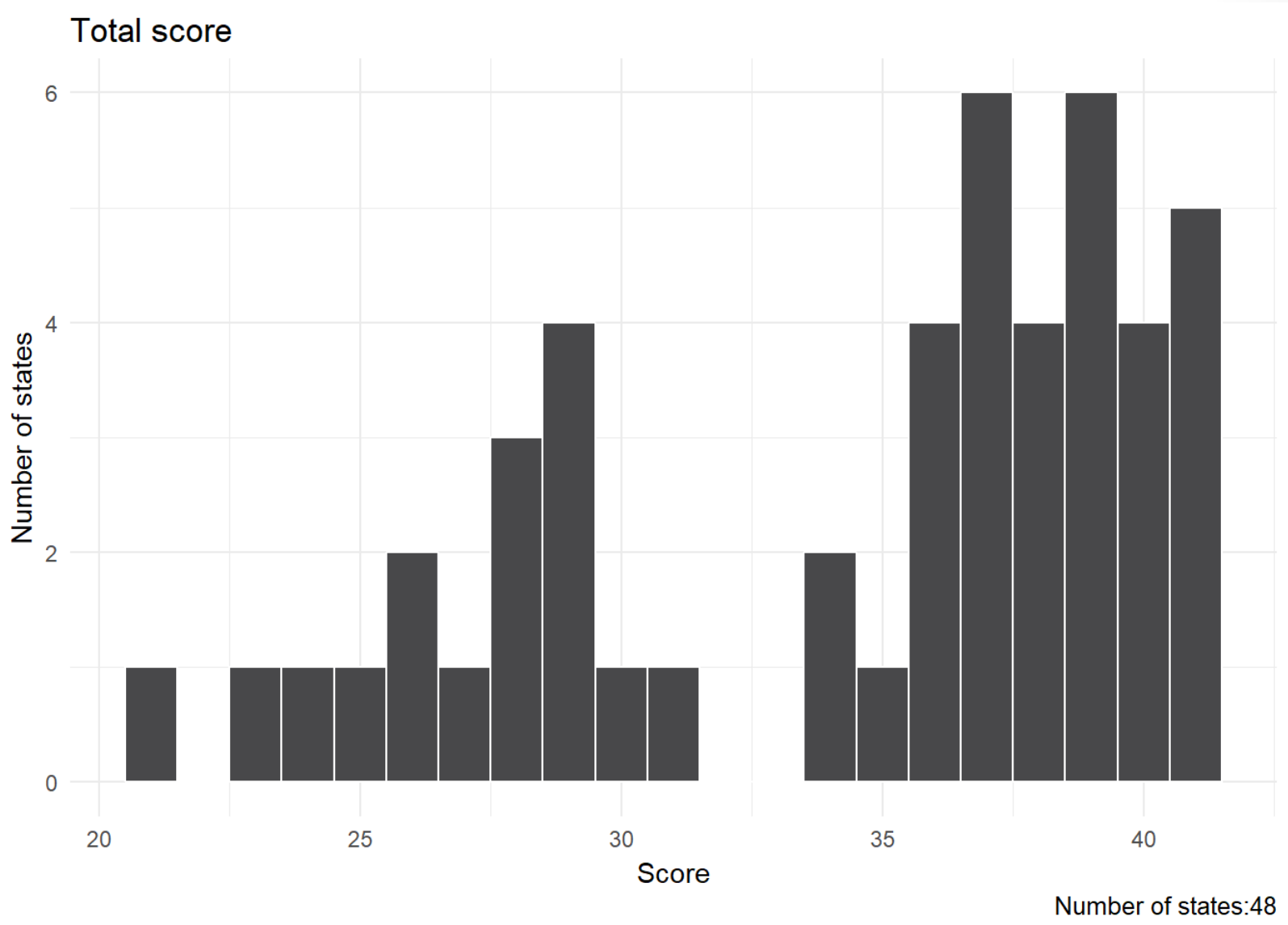


Relative Changes at the Section Level

Summarize how data changed year over year at the section level
*Indicates where a low % is expected

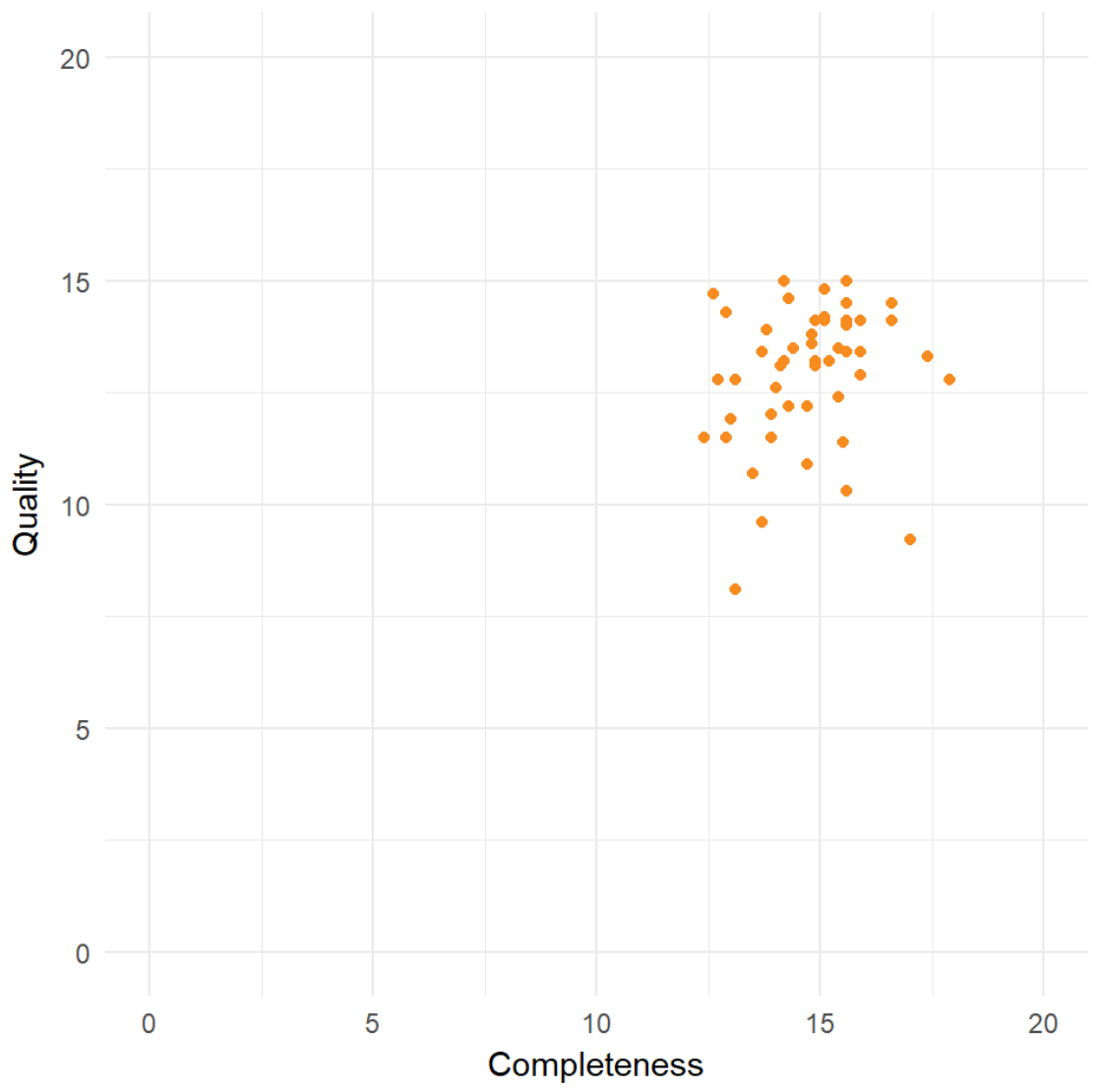


Data Quality - HPMS Scorecard



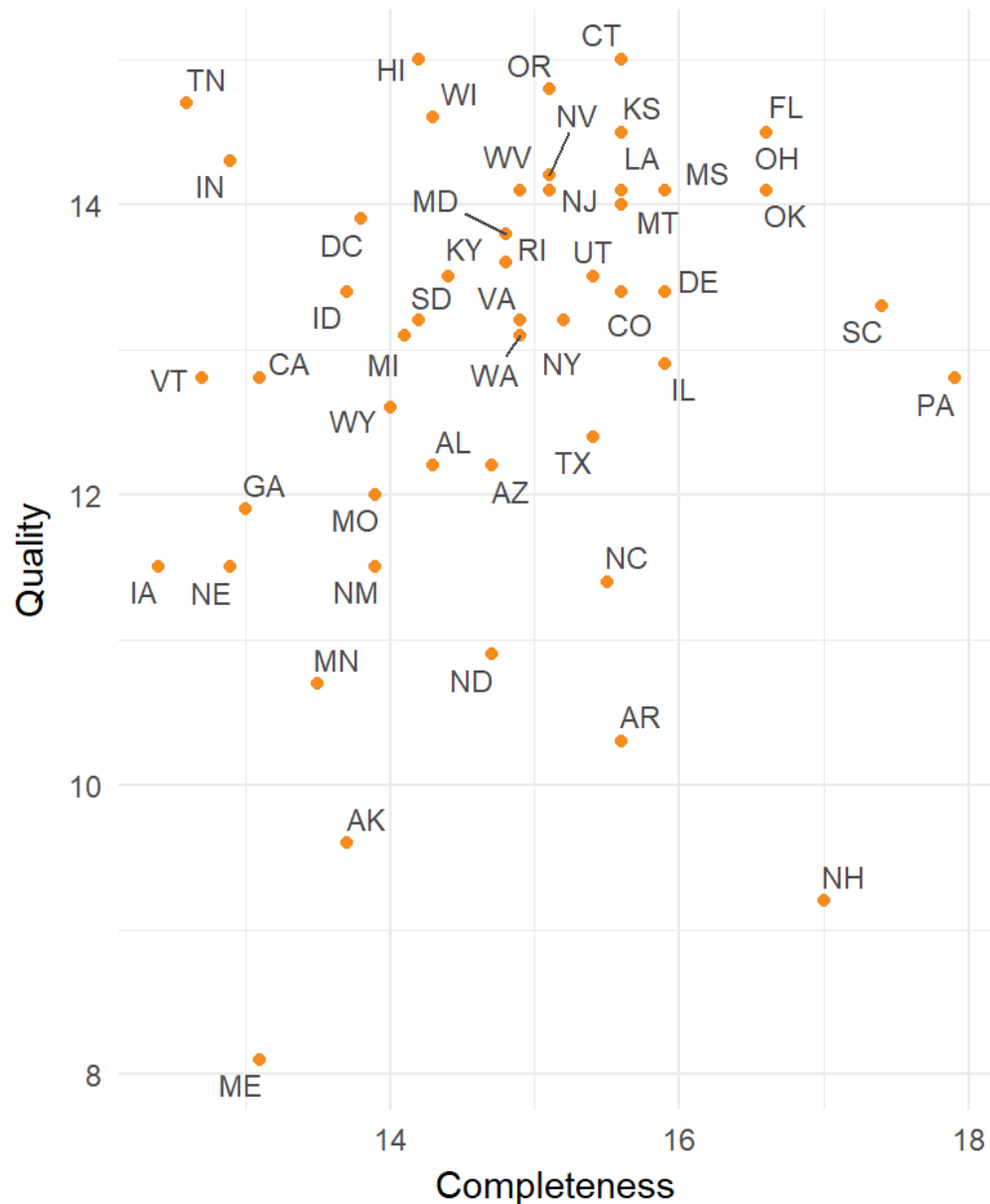


Data Quality - HPMS Scorecard



Focus Areas

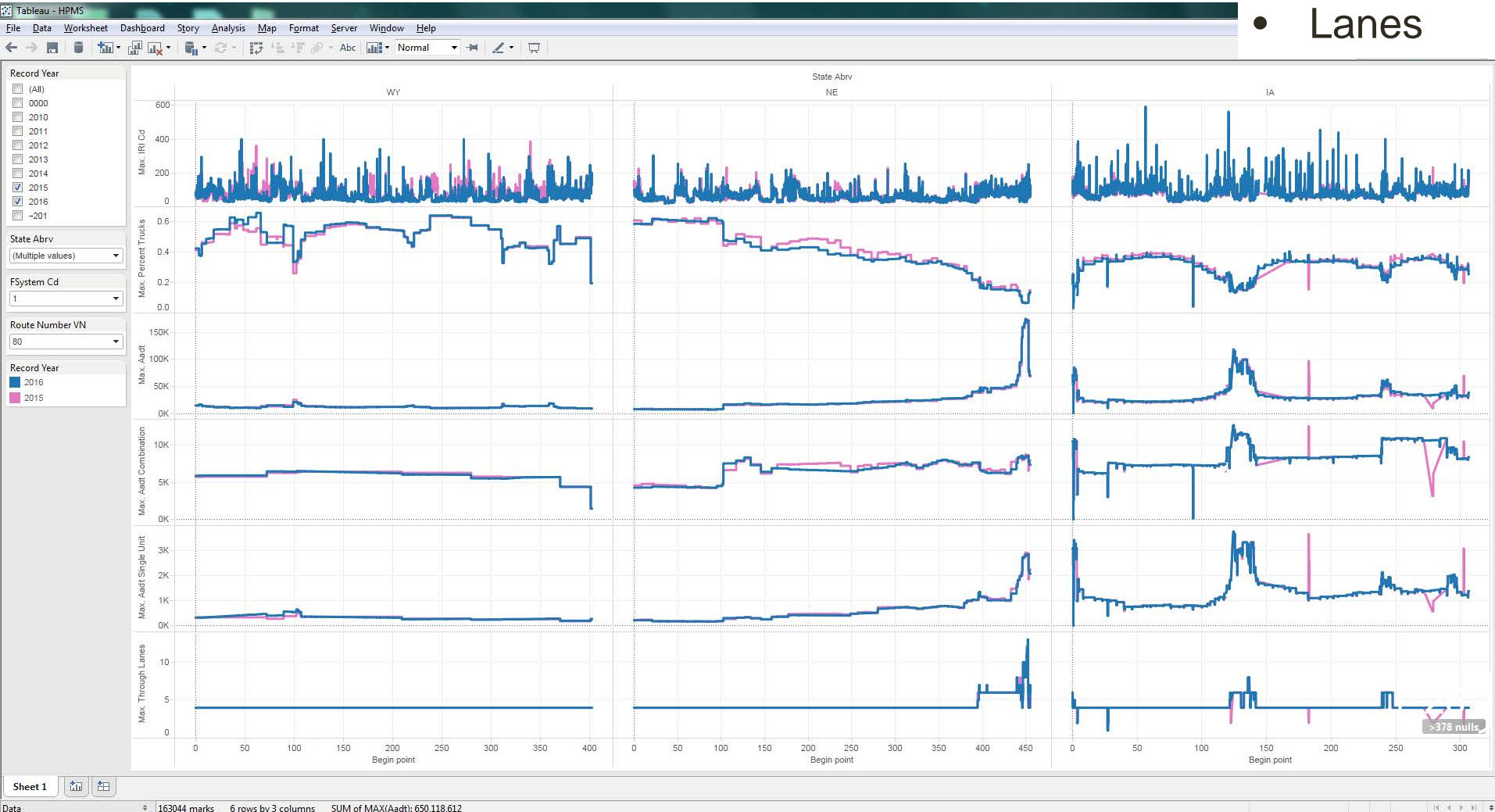
Data Quality - HPMS Scorecard



Focus Areas

I-80 (WY-NE-IA)

- IRI
- % Trucks
- AADT
- Combo.
- Single
- Lanes



I-10 (CA-AZ-NM-TX)

- IRI
- % Trucks
- AADT
- Combo.
- Single
- Lanes



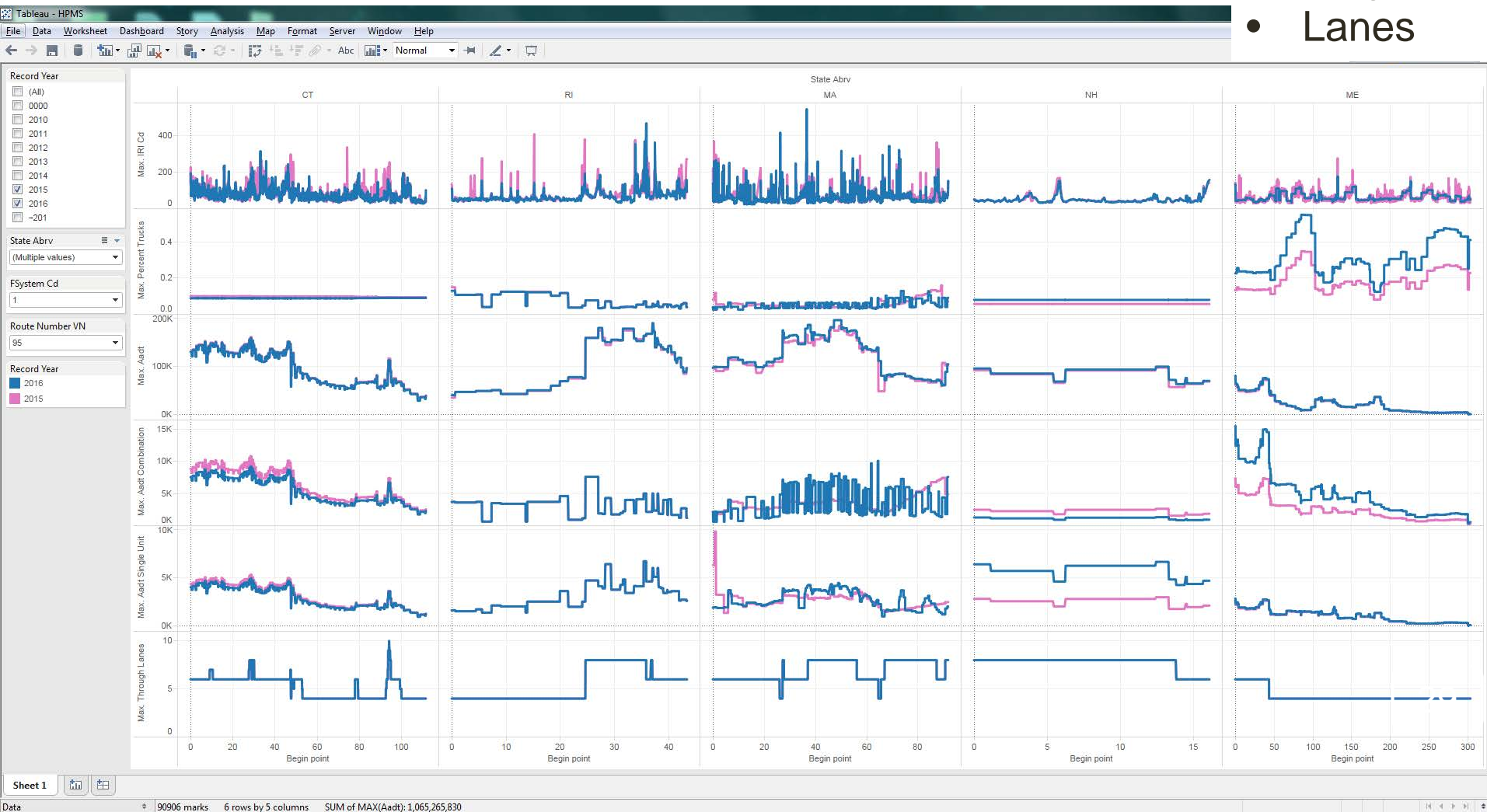
I-25 (NM-CO-WY)

- IRI
- % Trucks
- AADT
- Combo.
- Single
- Lanes



I-95(CT-RI-MA-NH-ME)

- IRI
- % Trucks
- AADT
- Combo.
- Single
- Lanes



Open Data

- Access to:
 - Data systems
 - Documentation
 - Visualizations/Analysis
 - Resources
- Coming soon:
 - Online FHWA Data Dictionary
 - Select data
 - Data visualizations

The screenshot shows the homepage of Data.Transportation.gov. At the top, there is a navigation bar with the Transportation.gov logo, a search bar, and links for Home, Catalog, User Guide, and Developer. Below the navigation bar is a large banner image of a train with the text "Data.Transportation.gov" and "Welcome to Data.Transportation.gov, the U.S. Department of Transportation's public data portal". The main content area is a grid of 10 blue tiles, each representing a different data category: Railroads, Roadways & Bridges, Pipelines & HAZMAT, Trucking & Motorcoaches, Aviation, Public Transit, Automobiles, Maritime & Waterways, Research & Statistics, and Bicycles & Pedestrians. Below the grid are five featured data visualizations: "Accidents by Type of Track" (a pie chart), "Railway Miles Traveled" (a bar chart), "Rail-related Casualties" (a map of the US), "Highway-Rail Crossing Heatmap" (a map of the US with colored dots), and "Rail Accident Damage Summary" (a bar chart).

Data Dictionary

data.transportation.gov | Data Catalog | Create ▾

Highway Data Element Dictionary ✔ Published Edit ... Manage Collaborators

Highway Data Element Dictionary

This is list of data elements and their attributes that are used by data assets at the Federal Highway Administration

Find in this Dataset

Manage | More Views | Filter | Visualize | Export | Discuss | Embed | About

Data Ele...	Preferre...	Subject...	Descript...	Data Ty...	Maximu...	Precisio...	Pattern...	Unit of...	Value D...	Business...	Data Ass...	Data Ass
100 Gram Lo...	LOAD_100_S...		Shear rate w...	Decimal	4	3		1/s	0.001 - 0.1	HRDI	LTPP	Long-Terr
100 Gram Lo...	LOAD_100_VI...		Viscosity of t...	Decimal	7	3		Megapoise	0 - 9999	HRDI	LTPP	Long-Terr
1000 Gram L...	LOAD_1000_...		Shear rate w...	Decimal	4	3		1/s	0.001 - 0.1	HRDI	LTPP	Long-Terr
1000 Gram L...	LOAD_1000_...		Viscosity of t...	Decimal	7	3		Megapoise	0 - 9999	HRDI	LTPP	Long-Terr
10000 Gram...	LOAD_10000...		Shear rate w...	Decimal	4	3		1/s		HRDI	LTPP	Long-Terr
10000 Gram...	LOAD_10000...		Viscosity of t...	Decimal	7	3		Megapoise		HRDI	LTPP	Long-Terr
102 Expendit...	EXPEND_102...		Right of Way...	Money	15	2				HCF	FMIS 4.0	FMIS 4.0

2014 HPMS A... HPMS14_CRA...

2014 HPMS A... HPMS14_CRA...

< Previous Next >

Highway Data Element Dictionary

Data Asset Name	Data Element Name	Data Type Code	Description Text
Fiscal	AC Conv Amount	Money	The amount of Advance Construction funds that has been converted to Federal Funds
Management	AC Funds	Money	The amount of Advance Construction funds used on this detail item.
Information	Approver Signature (Division)	Character	The name of the FHWA division signer that authorizes the obligation of funds.
System (FMIS)	Approver Signature (Recipient)	Character	This is the name (associated with the electronic signature) of the recipient signer that approves the
5.0	Approver Signature Date (Division)	Timestamp	This indicates the date and time that the FHWA division authorization signature was applied.
	Approver Signature Date (Recipient)	Timestamp	This indicates the date and time that the recipient's approver signature was applied.
	Certifier Signature	Character	This is the name (associated with the electronic signature) of the recipient signer that certifies that
	Certifier Signature Date	Timestamp	This indicates the date and time that the recipient's certifier signature was applied.
	Completion Date	Timestamp	Indicates the date that all work and inspections were completed on the project.
	Congressional District Id	Integer	Indicates the congressional district identifier.
	Construction Date	Date	Indicates when construction was authorized.
	Created By	Character	This indicates who created the project.
	Created On	Timestamp	This indicates the date and time that the project was created.
	Delphi Transmitted	Boolean	Indicates whether the project's federal fund modifications have been transmitted to Delphi.
	Delphi Transmitted Date	Timestamp	Indicates the date and time of the Delphi transmission.
	Demo ID	Character	A unique five-character ID used to identify a demonstration (demo) project.
	Detail Status	Integer	Indicates the status of the detail line.
	Disaster FY	Integer	The Fiscal year of the disaster
	Disaster Sequence	Integer	A unique numeric sequential identifier for a specific disaster within a state.
	Division Remarks	Character	Division remarks for the project.
	DUNS	Character	A unique account used by the states for credit reporting
	ER Code	Character	Eight character Emergency Relief code.
	Expenditures	Money	The amount of expenditures on this project.
	FAIN	Character	The Federal Award Identification Number.
	Federal Funds	Money	The amount of Federal funds used on this detail item.

Online Data

What's in this Dataset?

Rows **572** Columns **5** Each row is a **Year, Rural/Urban, Ownership, State, Length**

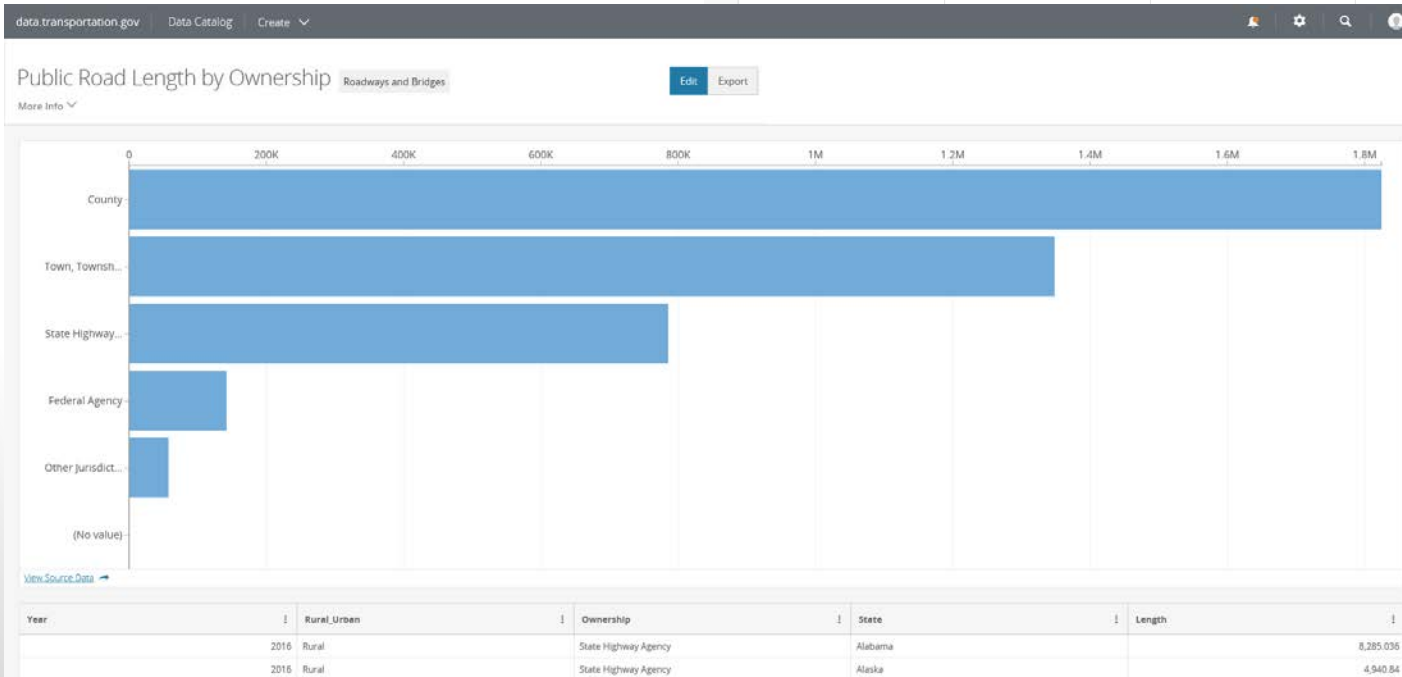
Columns in this Dataset

Column Name	Description	Type
Year		Number #
Rural_Urban		Plain Text T
Ownership		Plain Text T
State		Plain Text T
Length		Number #

Table Preview

[View Data](#) [Create Visualization](#)

Year	Rural_Urban	Ownership	State	Length
2016	Rural	State Highway Agency	Alabama	8,285.036
2016	Rural	State Highway Agency	Alaska	4,940.84
				5,530.07
				14,087.449
				10,258.829
				7,535.321
				1,169.5



Visualizations & Dashboards

2016 FEDERAL-AID & FEDERALLY OWNED HIGHWAYS

Highway Miles: 1,267,730
 73% Rural 27% Urban

Lane Miles: 2,823,739
 65% Rural 35% Urban

Vehicle Miles: 7,367,543,370
 29% Rural 71% Urban

Choose your settings

Measurement Type: Highway Miles

State Name: (All)

Ownership: (All)

Rural or Urban: (All) Rural Urban

Highway Miles by State - Click a state to filter the other charts (Hold Ctrl for multiple)

Highway Miles by Functional Class - Click a label to filter by that class

Functional Class	Rural	Urban
Interstate	~100K	~100K
PA - Other Freeways and Expressways	~100K	~100K
PA - Other	~100K	~100K
Minor Arterial	~100K	~100K
Major Collector	~100K	~100K
Minor Collector	~100K	~100K
Local	~100K	~100K
Null	0	0

Source: 2016 Highway Performance Monitoring System (HPMS), Office of Policy Information, FHWA

Mileage by Ownership - Click an owner to filter the charts above

	Highway Miles	Lane Miles	Vehicle Miles
Grand Total	1,267,730	2,823,739	7,367,543,370
State Highway Agency	616,513	1,502,568	5,323,558,204
County Highway Agency	410,183	791,719	675,154,004
City or Municipal Highway Agency	131,338	334,794	1,050,017,966
U.S. Forest Service	44,078	64,937	1,844,192
Town or Township Highway Agency	27,324	53,579	107,870,390
Indian Tribe Nation	7,709	14,390	527,291
Bureau of Indian Affairs	5,302	10,305	2,711,483

Source: 2016 Highway Performance Monitoring System (HPMS) FHWA, Office of Highway Policy Information

2016 NHS PAVEMENT CONDITIONS

Measurement Type: Highway Miles

REGIONAL TOTALS: Mid-America (78,365), North (35,506), South (54,695), West (53,350)

Choose your settings

Region: (All)

State Name: (All)

Ownership: (All)

Functional Class: (All)

Rural or Urban: (All) Rural Urban

Highway Miles by State - Click a state to filter other charts

Compare Conditions - Click a condition label to filter

IRI

Good	41%	19%	42%
Fair	24%	15%	20%
Poor	9%	11%	11%

Rutting

Good	54%	29%	17%
Fair	16%	9%	23%
Poor	2%	2%	2%

Faulting

Good	41%	30%	30%
Fair	5%	5%	2%
Poor	7%	13%	13%

Legend: Rural Good, Urban Good, Rural Fair, Urban Fair, Rural Poor, Urban Poor

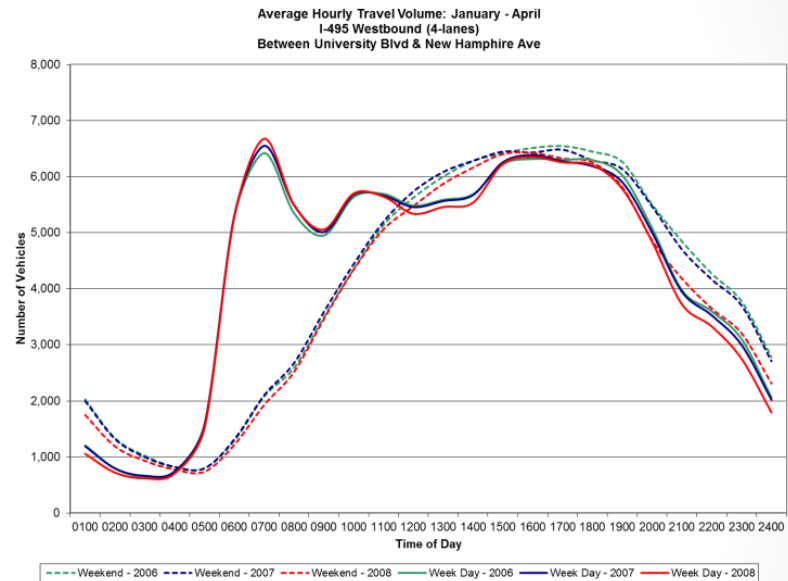
Source: 2016 Highway Performance Monitoring System (HPMS), Office of Policy Information, FHWA

NHS Totals by Ownership and Functional System - Click a column or row header to filter other charts

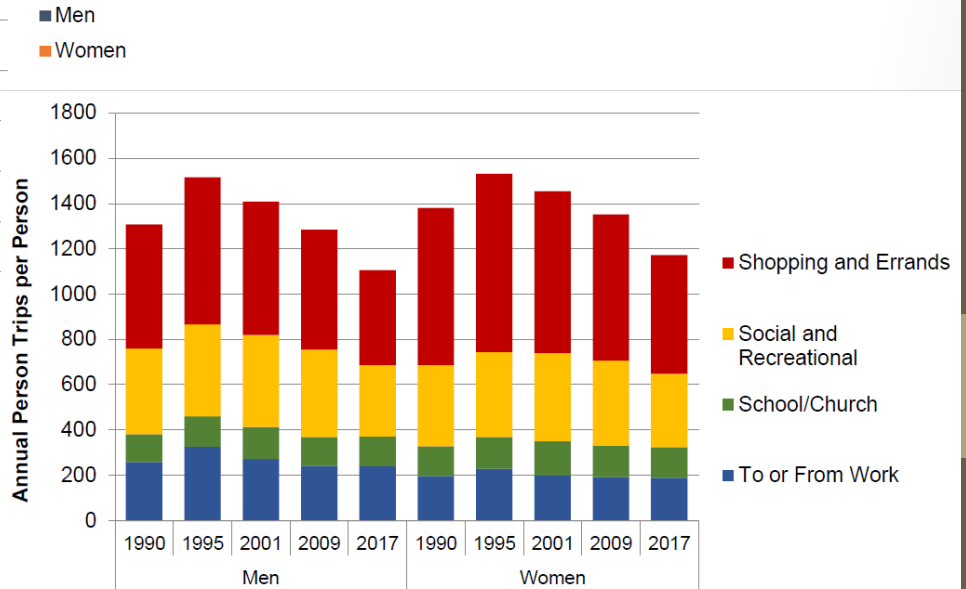
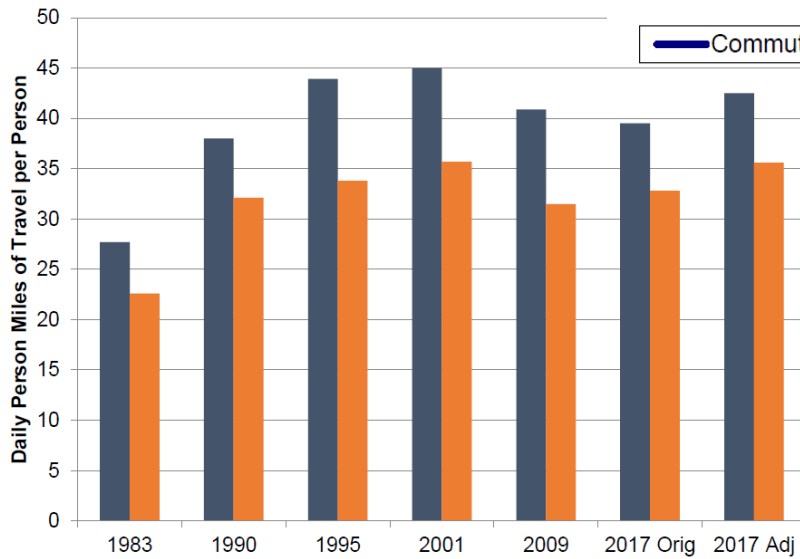
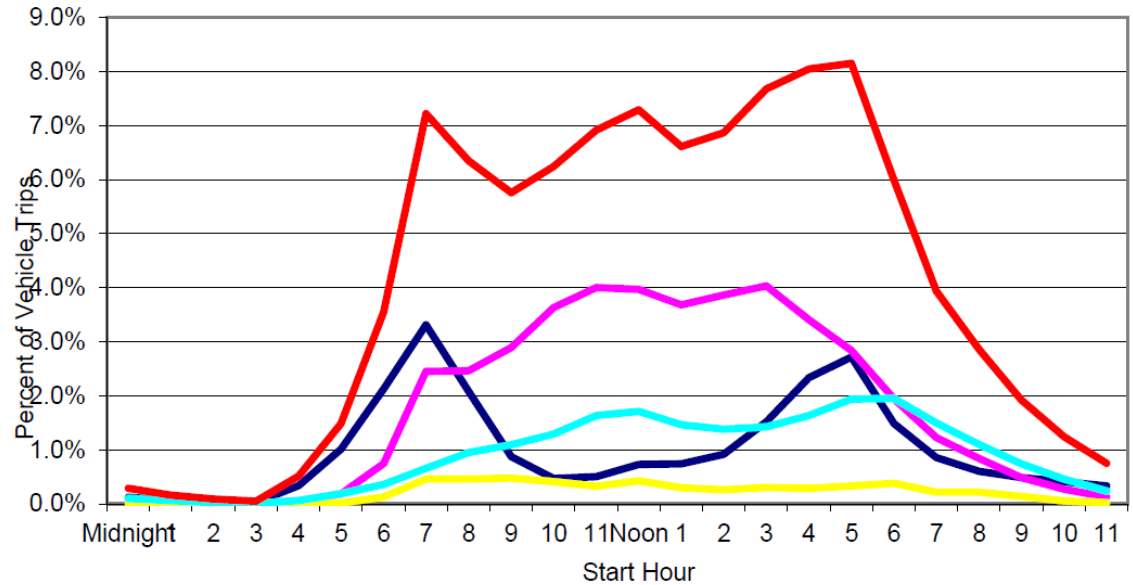
Ownership Desc	Grand Total	Interstate	PA - Other Freeways and Expressways	PA - Other	Minor Arterial	Major Collector	Minor Collector	Local	Null
Grand Total	221,915	48,188	18,829	148,917	5,420	1,316	52	143	3
State Highway Agency	197,879	45,503	17,221	129,838	4,456	807	14	20	0
City or Municipal Highway Agency	13,862	17	178	12,643	646	270	31	77	0
County Highway Agency	4,875	0	90	4,732	203	360	6	15	0
State Toll Road	3,399	2,403	690	306	0	0	0	0	0
Town or Township Highway Agency	1,018	1	1	876	106	27	1	6	0
Other State Agency	300	238	3	55	3	0	0	1	0

Major Initiatives

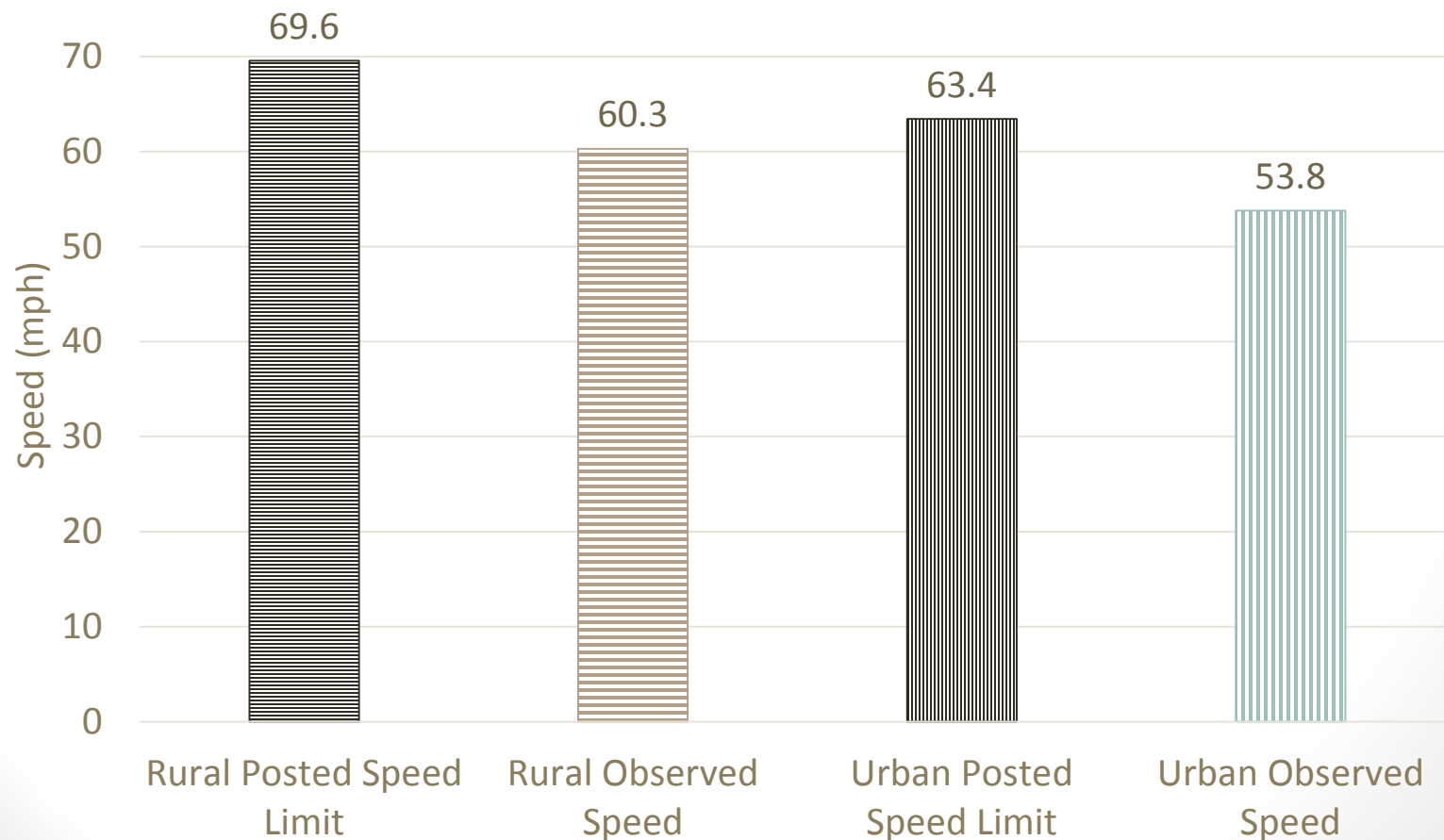
- National Household Travel Survey (NHTS)
- HPMS Reassessment
- Highway Finance Reassessment
- Performance Management (TPM)
- Safety Data Initiative (SDI)
- NPMRDS
- Special Tabulations
 - VMT Forecasts
 - Transportation Analysis Framework
 - TMAS Data
 - Performance Network
- Integrated Transportation Information System (ITIP)
- Policy Information Data Portal (PIDP)
- Data Visualization Center (DVC)
- Factoids
- Knowledge Center



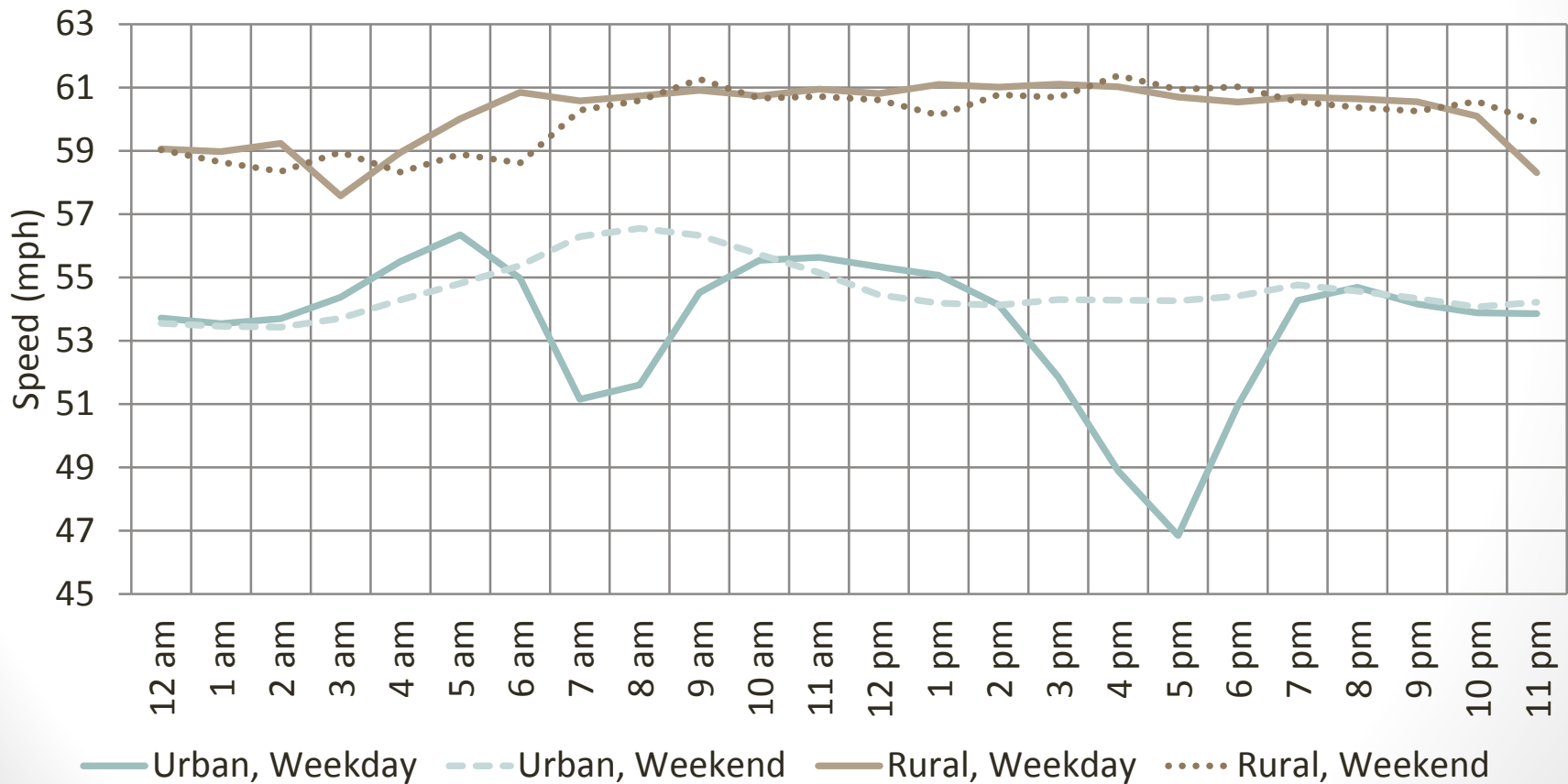
NHTS



Observed Speed – National Average on Rural and Urban Interstate System

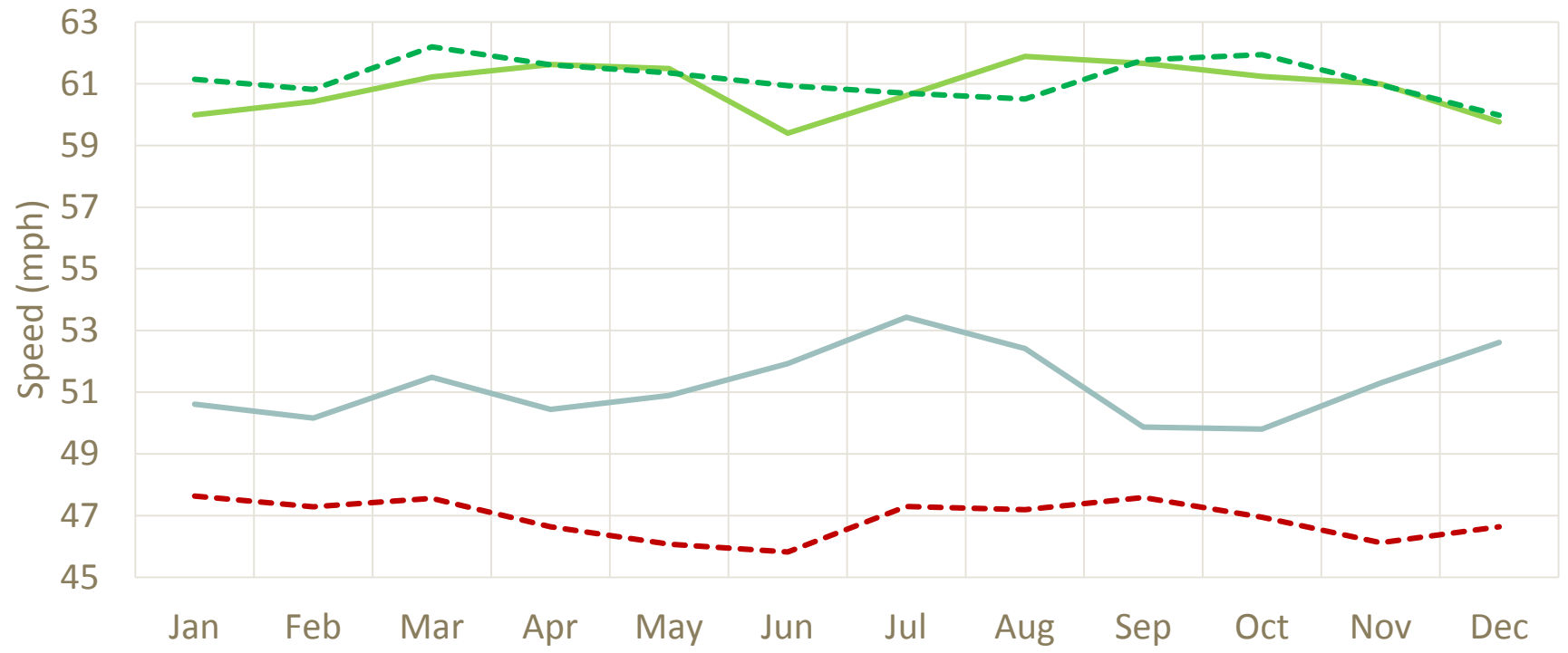


Observed Speed by Hour of the Day





Observed Peak Hour Speed by Month



- Rural, AM Peak Hour
- - - Rural, PM Peak Hour
- Urban, AM Peak Hour
- - - Urban, PM Peak Hour

Annual Average Speed on Interstate during PM Peak Hour 5:00 pm – 6:00 pm

Annual Average Speed on Interstate during PM Peak Hour 5:00-6:00 PM (Virginia)



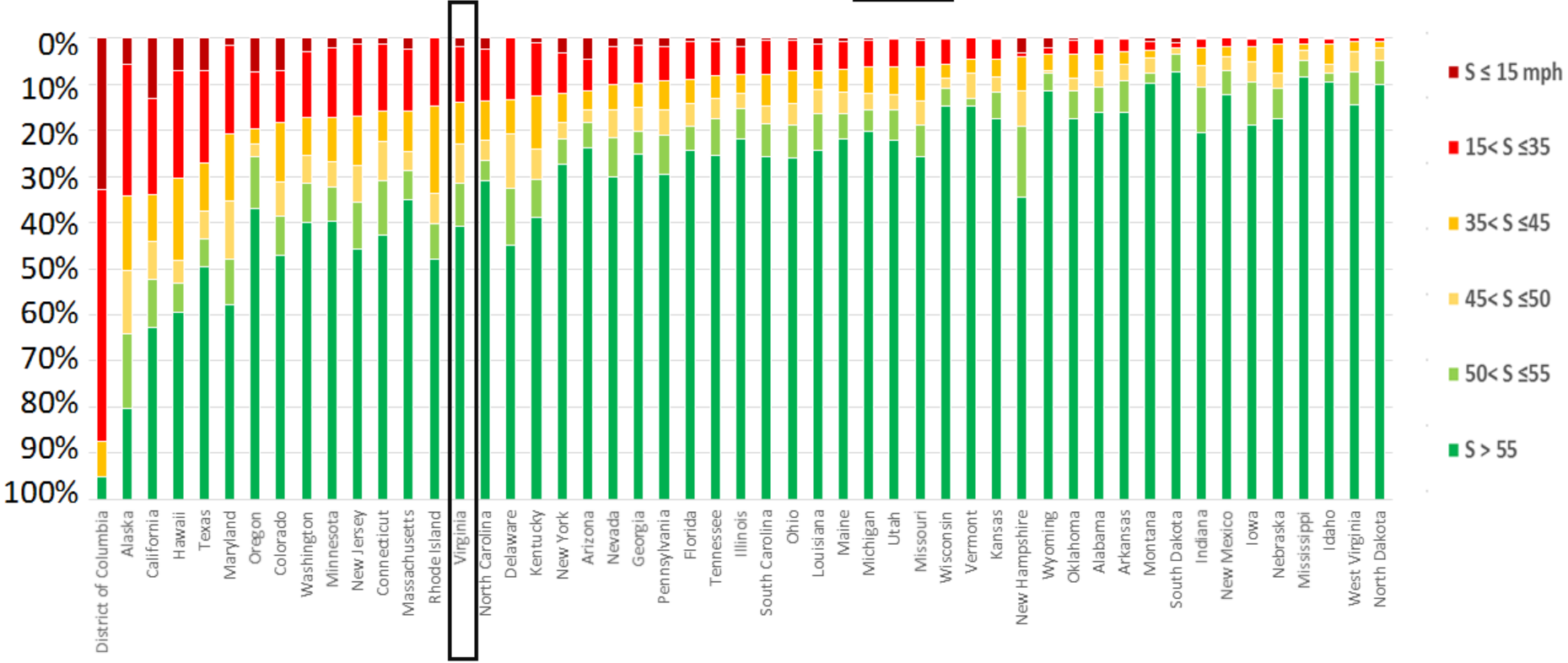
Speed

- < 35 mph
- 35-50
- 50-60
- >60



Percent of Interstate Miles within Various Speed Bins

Urban Interstate in PM Peak Hour



VMT Forecasts

- Updated earlier this year

http://www.fhwa.dot.gov/policyinformation/tables/vmt/vmt_forecast_sum.cfm

Table 1. Projected Growth in Vehicle Miles Traveled (VMT): Spring 2018

Vehicle Class	Compound Annual Growth Rates					
	Low Economic Growth Outlook*		Baseline Economic Growth Outlook*		High Economic Growth Outlook*	
	2016 - 2036 (20 Year)	2016 - 2046 (30 Year)	2016 - 2036 (20 Year)	2016 - 2046 (30 Year)	2016 - 2036 (20 Year)	2016 - 2046 (30 Year)
<i>Light-Duty Vehicles</i>	0.9%	0.7%	1.1%	0.8%	1.3%	1.0%
<i>Single-Unit Trucks</i>	1.4%	1.5%	1.8%	1.9%	2.3%	2.4%
<i>Combination Trucks</i>	1.2%	1.2%	1.6%	1.6%	1.9%	1.9%
<i>Total</i>	0.9%	0.8%	1.2%	0.9%	1.3%	1.1%

Long Distance Travel

<http://www.fhwa.dot.gov/policyinformation/analysisframework/>

Website includes:

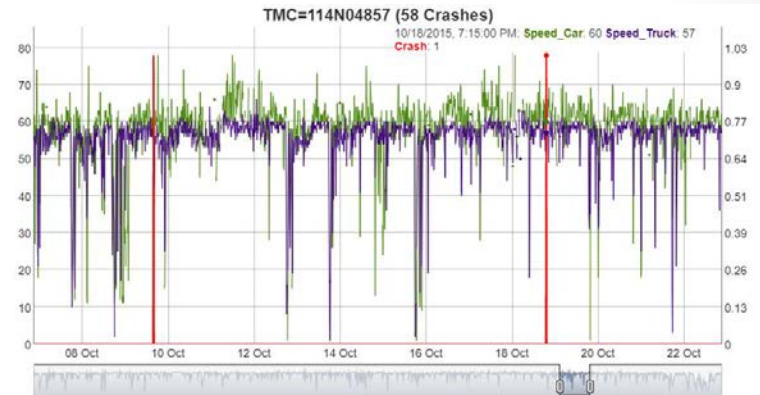
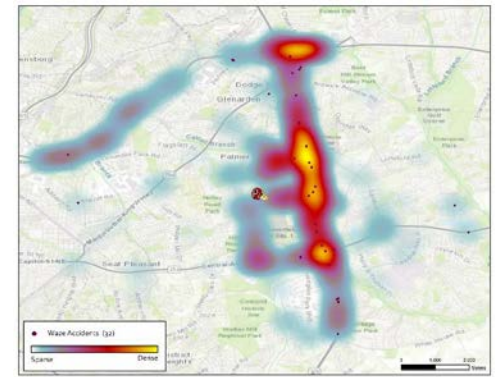
- Traffic Analysis Framework – Final Report
- 2008 and 2040 Trip Tables for:
 - Bus
 - Rail
 - Air
 - Auto (business)
 - Auto (non-business)
- Trips greater than 100 miles
- County (or equivalent) to county level

Data Integration

- Most FHWA data systems are moving to the MS Azure cloud
- Including the FHWA data warehouse (ITIP)
- Expanding integration with other FHWA and US DOT data systems
- SQL Server based, includes :
 - Informatica
 - 1Spatial
 - ArcGIS
 - Alteryx
 - Power BI
 - Tableau
 - R
 - SQL
- Forthcoming web portal for accessing, analyzing, and visualizing data
- Possibly use Socrata to make data available through data.transportation.gov website

Safety Data Initiative

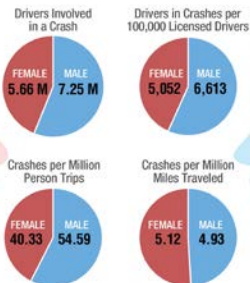
- Solving for Safety Data Visualization Challenge
- Rural Speed Pilot Project
- Waze Data Pilot
- FARS Visualization
- SDI Social Media Factoids
- Rural Non-Occupants Pilot



Focus Areas

WHO ARE SAFER DRIVERS?

Far more male drivers are involved in police-reported crashes than female drivers. Female drivers also have lower crash rates, based on both the number of trips taken and the number of licensed drivers. However, male drivers have a slightly lower crash rate than female drivers based on miles traveled.



Traffic Fatalities in Crashes Involving Speed, 2016

Filtering the Data
Hover over this box for more information

Person Type Filter

Occupant Non-Occupant

Month Filter

Feb Mar Apr May Jun
Aug Sep Oct Nov Dec

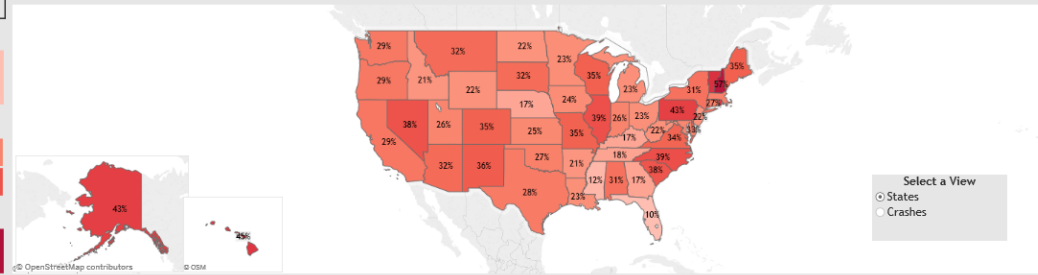
Day Filter

Mon Tue Wed Thu Fri Sat

Hour of Day Filter

a.m. p.m.

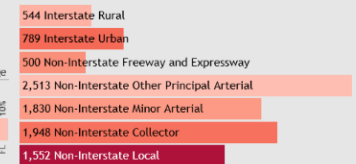
Percentage of Traffic Fatalities that were Speeding-Related, by State



10,111 (27.0%) of 37,461 Total Fatalities were Speeding-Related



Speeding-Related Fatalities by Roadway Type



Remove Filters

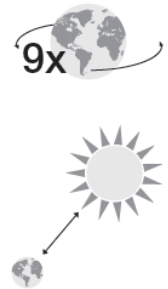
Data Source: Fatality Analysis Reporting System (FARS) - 2016 Annual Report File

Give Us Your Feedback

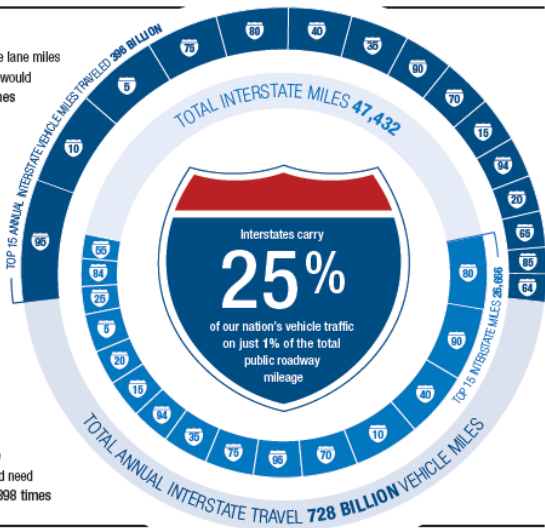
Data Visualization Center (DVC)

Top U.S. Interstates By Length and Travel

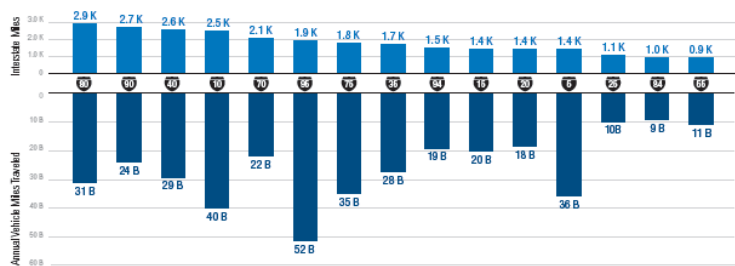
DISTANCE CONTEXT:
If you stretched all the Interstate lane miles along the equator, the distance would almost circle the Earth nine times



TRAFFIC CONTEXT:
To equal the total annual vehicle miles traveled, one person would need to travel to the sun and back 3,998 times



TOP 15 INTERSTATES



SAFER PEOPLE, SAFER STREETS

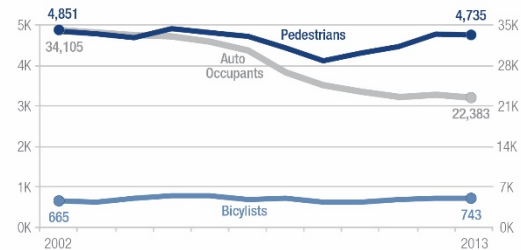
USDOT Pedestrian and Bicycle Safety Initiative

The DOT policy is to incorporate safe and convenient walking and bicycling facilities into transportation projects. Every transportation agency, including DOT, has the responsibility to improve conditions and opportunities for walking and bicycling and to integrate walking and bicycling into their transportation systems. Transportation agencies are encouraged to go beyond minimum standards to provide safe and convenient facilities for these modes.



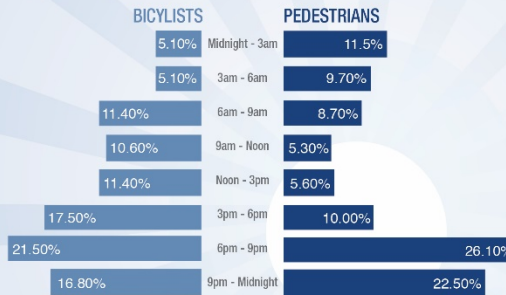
Source: USDOT Policy Statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations (2010)

Pedestrian and bicyclist fatalities have increased in recent years, as auto occupant deaths declined



Source: 2013 Motor Vehicle Crash Data from FARS and GES

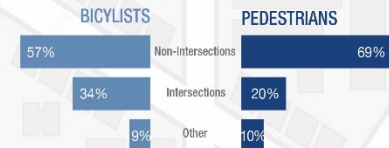
Fatalities and time of day



Source: FARS 2012 Final File, 2013 APF.

Fatalities at intersections vs non-intersections

A large percentage of pedestrian and bicycle fatalities occur in mid-block locations.



Source: FARS 2013 APF. Note: Unknown values were removed before calculating percentages. * Other includes parking lane/zone, bicycle lane, shoulder/roadside, sidewalk, median/crossing island, driveway access, shared-use path/trail, non-trafficway area, and other.

Case Study: Implementing a Road Diet To Improve Safety for Everyone, including Pedestrians and Bicyclists

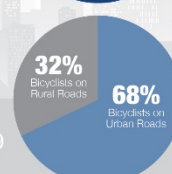
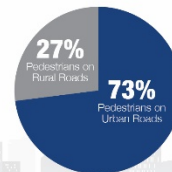
After implementing a road diet that added a turn lane and bike lanes on Lawyers Road in Fairfax County, the Virginia Department of Transportation documented a 69% reduction in overall crashes.



For more information on road diets, visit: http://safety.fhwa.dot.gov/road_diets. Source: Virginia Department of Transportation

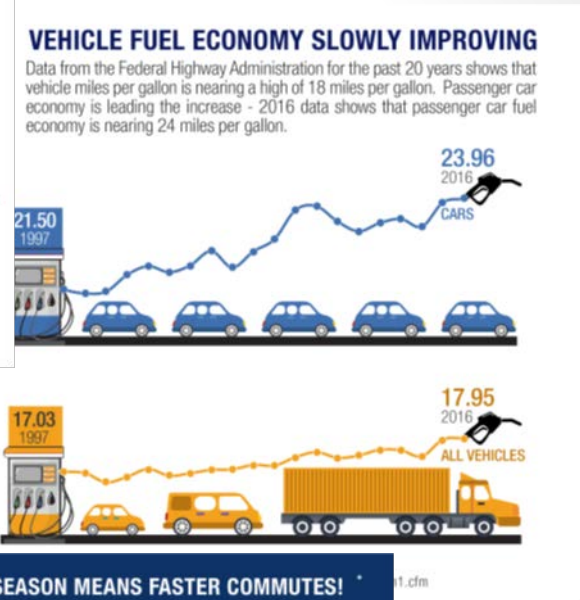
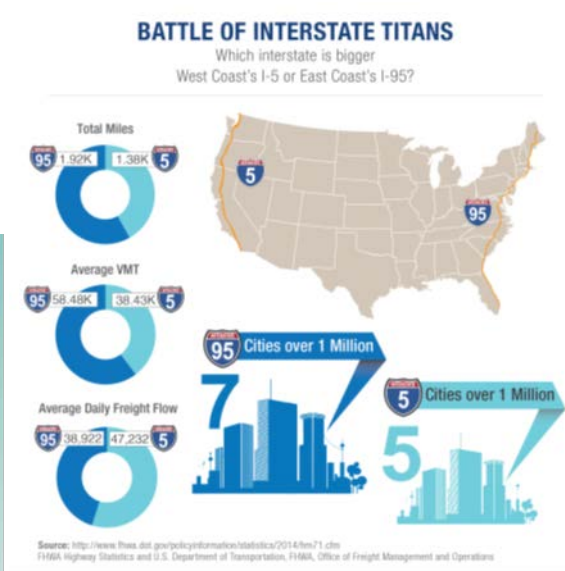
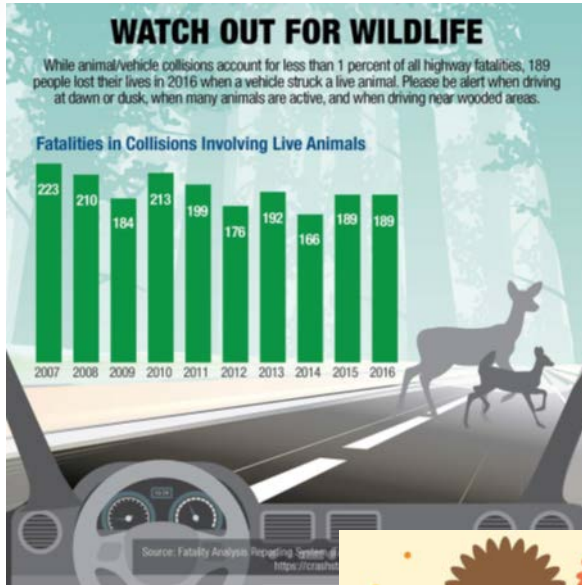
Fatalities in rural vs urban areas

The majority of pedestrian and bicyclist fatalities occur in urban areas.



Source: 2013 Motor Vehicle Crash Data from FARS and GES

Factoids



Knowledge Center

<http://www.fhwa.dot.gov/policyinformation/knowledgecenter/>

- Staff created reference and training videos
 - Motor Fuel Reporting (1)
 - Vehicle Registrations (3)
 - Highway Travel (6)
 - Heavy Vehicle Use Tax (1)
- Coming Soon
 - Highway Finance
 - Driver Registration
 - HPMS
 - Talking Traffic

Office Website

<http://www.fhwa.dot.gov/policyinformation/>

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Federal Highway Administration

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Publications

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Events, Seminars and Special Interest

- [Data Governance](#) **NEW!**
- [2015 Datapalooza](#) (includes Presentations)
- [Highway Information Seminar](#)
- [Interactive Highway Data Explorer](#) **NEW!**
- [Knowledge Center](#) **NEW!**

Publications

- [Highway Statistics Series](#)
- [Monthly Motor Fuel Reported by States](#)
- [Our Nation's Highways](#)
- [Publications Library](#) (alphabetical)
- [Status of Highway Trust Fund](#)
- [Traffic Volume Trends](#)
- [Special Tabulations](#)



Program Areas

- [American Recovery and Reinvestment](#)
- [Heavy Vehicle Use Tax](#)
- [Highway Finance Data](#)
- [Highway Performance Monitoring System](#)
- [Motor Fuel and Highway Trust Fund](#)
- [National Highway Construction Cost Index](#)
- [National Household Travel Survey](#)
- [Travel Monitoring](#)

State Statistical Abstracts

The abstracts contain state-specific data on population, land area, mileage, fuel use, drivers, vehicles, travel, and other related data.



- 2014 State Statistical Abstracts
- 2013 State Statistical Abstracts
- 2012 State Statistical Abstracts
- 2011 State Statistical Abstracts
- 2010 State Statistical Abstracts
- 2009 State Statistical Abstracts
- 2008 State Statistical Abstracts

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Thank You!