

The information in this publication provides a condensed overview of facts and figures about our Nation's highways. It is considered to be of interest to the average citizen. Except where noted, the Federal Highway Administration is the source of the data provided by the States. Unless otherwise stated, we have used 1996 data. For more detailed data on many of the subjects covered, refer to the publication series, Highway Statistics, published annually by the Office of Highway Information Management, Federal Highway Administration.

Data for this booklet, the Highway Statistics series, and many other publications may also be viewed and downloaded at our website:

## http://www.fhwa.dot.gov/ohim

## You can download files with the raw data used to create each of the tables, graphs, charts, etc. in each section of this document by clicking on the pertinent section listed below:

Our Nation's Highways<br>Air Quality<br>The Vehicle Fleet<br>Licensed Drivers<br>The Highway System<br>National Highway System<br>Conditions, Performance, and Safety<br>Motor-Fuel Use<br>Travel<br>Financing Our Highways<br>Selected Statistics by State

## ontents

Our Nation's Highways
The highway system is vital to the Nation's economy. Ninety-three percent of total dollars of freight was transported over our highways in 1993.

## 10 Air Quality

Most of the reduction in atmospheric concentrations of carbon monoxide, volatile organic compound, and nitrogen oxide emissions can be attributed to reduced emissions by motor vehicles.

## 12 The Vehicle Fleet

The cost-per-mile for operating an intermediate-size vehicle in 1996 was 44.3 cents.
16 Licensed Drivers
Of the 180 million licensed drivers in the United States in 1996, the largest number of drivers falls in the age group of 35-39 year-olds (11.7 percent).

The Highway System
The United States has 3.9 million miles of roadway, of which 3.1 million miles are rural roads. The Interstate System accounts for only 1.2 percent of total mileage but carries 23.6 percent of total travel.

## 22 National Highway System

The National Highway System consists of over 158,000 miles which includes the Interstate System and portions of other functional systems.

## 25 Conditions Performance and Safety

The fatality rate on the Interstate System has consistently dropped since 1970 and was at an all-time low in 1996.

Motor-Fuel Use
In 1996, 147 billion gallons of fuel were consumed for highway use, averaging about 711 gallons per motor vehicle or 16.9 miles per gallon.

American's motor vehicle travel in 1996 reached 2.5 trillion vehicle-miles, an average of 11,807 miles per vehicle per year. Automobiles are responsible for 59.1 percent of this travel.

Financing Our Highways
Although expenditures for highways now exceed $\$ 98$ billion a year, this amounts to less than 3.9 cents per vehicle-mile traveled.

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## Notes

## ur Nation's Highways



After housing ( 33.5 percent), transportation ( 20.3 percent) accounts for the largest single household expenditure, and 62 percent of transportation expenditures at the household level are for personal vehicles, gas, and oil.


The personal motor vehicle (automobile, light truck, van, and motorcycle) is the predominant form of personal transportation. Privately owned vehicles are used for 90.8 percent of all personal travel. When school bus (1.3\%), bus/streetcar (1.4\%), and taxi (.09\%) are added to the Private Vehicle portion, we find that almost 94 percent of personal transportation is served by highways.


The Nation's highway system carried 25 percent of the total revenue ton-miles of freight in 1995, compared to 19 percent in 1960. More significant is that almost ninety-three percent of the total dollars of freight in 1993 was transported across these same highways. The amount of total revenue ton-miles of freight carried across highways has increased from 285 billion in 1969 to 921 billion in 1995-a 223 percent increase.


NOTE: The survey excludes establishments classified in the Standard Industrial Classification as farms, forestry, fisheries, oil and gas extraction, governments, construction, transportation, households, and some retail and service businesses.
SOURCE: Transportation - Commodity Flow Survey 1993, Bureau of Transportation Statistics.


Road and street mileage only increased 2.0 percent since 1976, but the number of vehicles using those roads and streets has increased 51.7 percent and vehicle-miles of travel increased by 77.0 percent. Highway capital outlay expressed in constant 1987 dollars has only increased by 56.4 percent while the percent change from 1976 to 1996 for gallons of motor fuel per mile has decreased by 35.1 percent.


NOTE: On August 5, 1997, the President signed the Taxpayer Relief Act (PL 105-34), which dedicates an additional 4.3 cents of motor-fuel taxes to the Highway Trust Fund, providing 3.45 cents to the Highway Account. The 1995 data indicates that State tax rates were virtually unchanged and did not keep pace with inflation.

Despite increases in State motor-fuel tax rates during the 1980's, the weighted average gasoline tax rate expressed in constant 1970 cents decreased by 34 percent from 7.02 cents per gallon in 1970 to 4.62 cents per gallon in 1996. Over the same 1970 to 1996 period, the Federal gasoline tax rate expressed in constant 1970 cents increased by 13 percent, from 4.00 cents per gallon to 4.53 cents per gallon as the rate increased from 4.00 cents per gallon to 18.3 cents per gallon. The Federal tax on gasoline included 6.8 cents for deficit reduction and 0.1 cent for the Leaking Underground Storage Tank (LUST) Trust Fund. In October 1995, the amount for deficit reduction decreased to 4.3 cents per gallon. In January 1996, the LUST Trust Fund tax expired and the Federal tax rate dropped to 18.3 cents. In October 1997, the LUST Trust Fund tax was restored and 18.3 cents was directed entirely to transportation purposes. State tax rates for 1996 were virtually unchanged.


In 1996, highway capital expenditures were 1.87 cents per vehicle-mile of travel (VMT) as compared to 1.04 cents per VMT in 1970 - an 80 percent increase. After accounting for inflation, however, 1996 capital expenditures were only 0.54 cents per VMT, a 48 percent decrease from 1970's capital expenditures. In 1996, total highway expenditures were 3.95 cents per VMT as compared to 1.88 cents per VMT in 1970 - a 110 percent increase. After adjusting for inflation, total 1996 highway expenditures were only 1.06 cents per VMT, a 44-percent decrease from 1970's total highway expenditures. In effect, 1996's highway expenditures by all units of government, with inflation removed, were about 56 percent of what they were 26 years ago for each vehicle-mile of travel.


There is a strong relationship between the Nation's economy and travel on the Nation's highway system. Since the 1960's, growth in the Gross Domestic Product (GDP) and vehicle-miles of travel (VMT) reflect strikingly similar patterns, including the period of energy disruptions during the 1970s.


Average private vehicle occupancy is 1.59 person miles of travel per vehicle-mile. As expected, the highest occupancy rates are for social and recreational activities and the lowest rates are for travel to and from work. The survey participants listed their most common reasons for not carpooling to work: no one to carpool with, working irregular or unusual hours, needing their own car before, during, or after work.


The 1995 Nationwide Personal Transportation Survey (NPTS) data show a continuation of the increase in commute trip length without a corresponding increase in travel time. While commuting trips are 37 percent longer in miles since 1983, travel time increased only by 14 percent. The three reasons most often cited for this situation are the continued decentralization of metropolitan areas, expansion of the peak travel period, and the shift from transit and carpool to single-occupant vehicles. All three factors would contribute to commuters being able to travel longer distances and make those trips at a greater speed than in the past.


Americans own more vehicles and travel far more than the citizens of other countries. Only in the U.S. and Canada is the automobile ownership per capita over 50 percent, with Germany, France, and Sweden close behind at over 40 percent. Annual vehicle-miles for automobiles follow a more pronounced pattern with per capita mileage for the U.S. exceeding 5,800 and for Canada exceeding 4,800. Sweden, Germany, the U.K., and France follow each with between 3,000 and 4,000 per capita miles.

Land area, population and the resulting population density, as well the prosperity of the countries as shown in the gross domestic product (GDP), provide a frame of reference and an explanation for various transportation indicators. The highest vehicle-miles per capita is associated with the large land areas, high GDP, and low gasoline prices of the U.S. and Canada. The amount of roadway per land area is highest for small, populous and prosperous Japan; but gasoline prices are high and vehicle-miles traveled per capita are moderate there. Mexico's low GDP overrides all other factors to create a less developed transportation infrastructure and less travel, but, unfortunately, a very high fatality rate.

International Comparisons of Key Variables - 1995 (Indexed on United States $=100$ )



SOURCE: Environmental Protection Agency's "National Air Pollutant Emission Trends, 1990-1995," Office of Air Quality Planning and Standards, Research Triangle Park, NC, October 1996, Publication No. 454/R-96-007, Tables A-1, A-2, and A-3.

Most of the reduction in emissions can be attributed to reduction from motor vehicles. Emissions controls for cars and trucks have significantly reduced their emissions of CO and volatile organic compounds (VOC, a primary ingredient of ozone) since 1970 even though travel more than doubled over the past 25 years. Emissions of these pollutants from other sources have fallen only slightly. At the same time, motor vehicle NOx emissionswhich contribute to ozone have held at about 1970 levels, while those from all other sources have increased slightly.


SOURCE: Tabulated from Environmental Protection Agency's Aerometric Information Retrieval database. Violation readings for ozone and carbon monoxide include only those recorded at monitors reporting throughout the 20-year period covered by the figure

Residents of the Nation's urban area are breathing easier these days. Atmospheric levels of ozone and carbon monoxide (CO) have declined consistently for two decades. Violations of the National Standards for Carbon Monoxide have been virtually eliminated. Controlling ground-level ozone (or "smog") has proven more challenging, but violations of the Federal 1-hour ozone standard have also been sharply reduced.

The Vehicle Fleet


The number of registered motor vehicles continues to increase steadily. However, automobile registrations have decreased slightly ( -0.2 percent or 0.3 million vehicles) since 1986 while truck registrations have increased significantly ( 68.3 percent of 30.8 million vehicles). Light single-unit trucks have seen a phenomenal growth in popularity and now account for 32.9 percent of total registered motor vehicles. In addition, prior to 1985, automobile registrations included personal passenger vans, passenger minivans, and utility-type vehicles. However, beginning with the 1985 data, these vehicles are included with truck registrations. Reference Highway Statistics Summary to 1995 for corrections or revisions made to previous published data.

${ }^{1}$ Mean age - The sum of the products of units multiplied by age; divided by the total units (units in years). SOURCE: American Automobile Manufacturers Association, AAMA Motor-Vehicle Facts and Figures 1997 (compiled from R.L.Polk and Co., data).

The trend of keeping cars and trucks for longer periods of time has gradually increased since 1988. The average age of a passenger car in use in 1996 was 8.6 years compared to 6.6 in 1980. The same trend holds true with truck use-the average age of a truck in 1996 was 8.3 years compared to 7.1 in 1980.

| Cost of Owning and Operating Automobiles, Vans, and Light Trucks - 1996 |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Cents Per Mile ${ }^{1}$ |  |  |
|  | Size | Cost ${ }^{2}$ | Characteristics ${ }^{3}$ |
| $0-0$ | Subcompact | 32.0 | 4 cylinder Avg MPG-33 |
| $0$ | Compact | 35.8 | 4 cylinder Avg MPG-28 |
| $0$ | Intermediate | 44.3 | 6 cylinder Avg MPG-20 |
| $0$ | Full-size Vehicle | 46.3 | 6 cylinder Avg MPG-19 |
|  | Compact Pickup | 31.3 | 4 cylinder Avg MPG-19 |
|  | Full-size Pickup | 39.9 | 8 cylinder Avg MPG-13 |
|  | Compact Utility | 40.7 | 4 cylinder Avg MPG-22.5 |
|  | Full-size Utility | 45.4 | 8 cylinder Avg MPG-12.8 |
|  | Mini-Van | 40.0 | 6 cylinder Avg MPG-18.5 |
| I | Full-Size Van | 48.9 | 6 cylinder Avg MPG-12.4 |

${ }^{1}$ Includes depreciation, financing, insurance, registration fees, taxes, fuel maintenance, and repairs. ${ }^{2}$ Total costs over 5 years, based on 70,000 miles.
${ }^{3}$ Average MPG reflects city, excluding highway.
SOURCE: Federal Highway Administration estimates based on the 1996 editions of The Complete Small Truck Guide and The Complete Car Cost Guide, from IntelliChoice, Inc., and sales figures from Automotive News.


After a slight drop in 1991, total motor-vehicle retail sales are steadily increasing — $15,457,000$ units for 1996. The all-time high was set in 1986-16,322,000 units. We are still seeing a decline in retail sales of automobiles-55 percent of total sales in 1996 compared to 76 percent in 1976. Popularity of the light trucks as personal vehicles continues to increaseretail sales of trucks for 1996 (6,930,000 units).

Ownership and Operating Costs By Category-Intermediate Size Vehicle—1996 (Based on Average Cost of 44.3 Cents Per Mile)

| Repairs | $1.1 \phi$ |
| :--- | ---: |
| Insurance | $10.1 \phi$ |
| Registration/ | $1.2 \phi$ |
| Taxes |  |
| Maintenance | $4.9 \phi$ |
| Financing | $5.1 \phi$ |
| Fuel Cost | $3.5 \phi$ |
| (No Taxes) |  |
| Fuel Tax | $1.4 \phi$ |
| Depreciation | $17.0 \phi$ |



郎 Small Truck Guide and The Complete Car Cost Guide, from IntelliChoice, Inc., and sales figures from Automotive News.

The Federal Highway Administration estimates that combined Federal and State motor-fuel taxes currently account for only 3.2 percent of the cost per mile of owning and operating an automobile compared to 4.2 percent in 1994 and 5.1 percent in 1991


There were $179,539,340$ licensed drivers in the United States in 1996. That is an increase of 34 percent since 1976 and a 14 -percent increase over 1986. As the average age of the licensed driver shifts upward, we see that 35-39 year-olds contain the largest share of drivers. There are slightly fewer young drivers-under 20-in $1990(9,249,000)$ compared to $1996(9,234,000)$.

The number of age 70 and over drivers holding a valid license has continued to increase7.2 million in 1976 compared to 17.1 million in 1996.

While the number of female drivers increased 45 percent since 1976, the number of male drivers only increased 25 percent.


In 1996, 88 percent of the driving age population was licensed to drive a motor vehicle. Compared to 1950, which was 57 percent, this is an increase of 117 million drivers on our highways in the past 36 years. In 1975, the number of registered vehicles surpassed the number of licensed drivers-that trend has continued to this day. In fact, registered vehicles have now surpassed the driving age population by $2,578,000$ vehicles.


Despite significant increases in women's driving, men still average 6,428 miles more per year than women. The disparity is closing for younger drivers, and it is expected that this gap will close considerably in the future.


Roads and streets are grouped into functional systems according to the type of service they provide. The arterial system (including the Interstate System) accounts for about 11.1 percent of the Nation's total road and street mileage but carries 72.4 percent of total travel.

The Interstate System accounts for only 1.2 percent of the Nation's total miles of roadway; however, 23.6 percent of total travel occurs on this system. Conversely, local functional system roads account for 68.8 percent of the Nation's total road and street mileage but serves only 12.7 percent of total travel.

## Functional Classification

1 Interstate System - The Interstate System consists of all presently designated freeway routes meeting the Interstate geometric and construction standards for future traffic, except for portions in Alaska and Puerto Rico. The Interstate System is the highest classification of arterial roads and streets and provides the highest level of mobility, at the highest speed, for a long uninterrupted distance.

2 Other Arterials - These consist of limited-access freeways, multi-lane highways, and other important highways supplementing the Interstate System that connect, as directly as practicable, the Nation's principal urbanized areas, cities, and industrial centers; serve the national defense; and connect at suitable border points with routes of continental importance.

3 Collectors - The collectors provide both land access service and traffic circulation within residential neighborhoods, commercial and industrial areas, and downtown city centers. Collectors connect local roads and streets with arterials and provide less mobility than arterials at lower speeds and for a shorter distance.

4 Locals - The local roads and streets provide a high level of access to abutting land but limited mobility.


| Jurisdictional Control of U.S. Roads and Streets |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Jurisdiction | Rural <br> Mileage | Percent | Urban <br> Mileage | Percent | Total <br> Mileage | Percent |
| State | 693,141 | 22.4 | 113,199 | 13.6 | 806,340 | 20.5 |
| Local | $2,238,308$ | 72.2 | 718,950 | 86.2 | $2,957,258$ | 75.2 |
| Federal | 168,913 | 5.4 | 1,474 | 0.2 | 170,387 | 4.3 |
| Total | $3,100,362$ | 100.0 | 833,623 | 100.0 | $3,933,985$ | 100.0 |

The vast majority ( 75.2 percent) of the Nation's roadways are under the jurisdiction of local governments (town, city, county). Only 4.3 percent are under the jurisdiction of the Federal Government which includes roads in national forests and parks and on military and Indian reservations. The rest of the roadways (representing 20.5 percent of the total 3,933,985 miles and including the entire Interstate System) are controlled and maintained by the State governments.


Currently, about 60.5 percent of all roads and streets are paved, compared with about 30.4 percent in 1956. The total paved mileage has increased 140 percent since 1956, but the total road and street mileage has increased by only 18 percent. Nearly all of the unpaved mileage is on lightly travelled rural roads.

| Functional Systems Mileage |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Functional System | Rural | \% Change 1986-1996 | Urban | \% Change 1986-1996 | Total | \% Change 1986-1996 | \% of Total Mileage |
| Interstate | 32,920 | 0.2\% | 13,366 | 19.5\% | 46,286 | 5.1\% | 1.2\% |
| Other Freeways/ Expressways | / | -- | 9,070 | 23.3\% | 9,070 | 23.3\% | 0.2\% |
| Other Principal Arterial | 98,232 | 17.2\% | 53,220 | 5.2\% | 151,452 | 14.8\% | 3.8\% |
| Minor Arterial | 137,652 | -7.0\% | 89,523 | 19.6\% | 227,175 | 2.0\% | 5.8\% |
| Major Collector | 432,890 | -0.1\% | -- | -- | 432,890 | -0.1\% | 11.0\% |
| Minor Collector | 273,876 | -7.5\% | -- | -- | 273,876 | -7.5\% | 7.0\% |
| Collector | -- | -- | 88,509 | 17.4\% | 88,509 | 17.4\% | 2.2\% |
| Local | 2,124,792 | -3.0\% | 579,935 | 19.3\% | 2,704,727 | 1.0\% | 68.8\% |
| Total | 3,100,362 | -2.6\% | 833,623 | 18.1\% | 3,933,985 | 1.2\% | 100.0\% |

Roads and streets are grouped into functional systems according to the type of service they provide, and to some extent, on how much traffic the facility carries. Although functional classification may change over time to better describe the changing role that a particular road or street may be playing, the total mileage changes only slightly over time. Except for the other principal arterial system, the rural systems actually decreased in mileage due to the expansion of urban boundaries and functional reclassification.

| Annual Vehicle-Miles of Travel (Millions) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Functional System | Rural | \% Change <br> 1986-1996 | Urban | $\begin{aligned} & \text { \% Change } \\ & \text { 1986-1996 } \end{aligned}$ | Total | $\begin{aligned} & \text { \% Change } \\ & \text { 1986-1996 } \end{aligned}$ | \% of Total Mileage |
| Interstate | 233,593 | 46.5\% | 355,196 | 53.1\% | 588,789 | 50.4\% | 23.6\% |
| Other Freeways/ Expressways | -- | -- | 158,233 | 50.0\% | 158,233 | 50.0\% | 6.3\% |
| Other Principal Arterial | 221,730 | 48.4\% | 380,320 | 32.2\% | 602,050 | 37.7\% | 24.1\% |
| Minor Arterial | 158,245 | 12.5\% | 300,658 | 44.0\% | 458,903 | 31.3\% | 18.4\% |
| Major Collector | 191,654 | 16.3\% | -- | -- | 191,654 | 16.3\% | 7.7\% |
| Minor Collector | 50,577 | 17.3\% | -- | -- | 50,577 | 17.3\% | 2.0\% |
| Collector | -- | -- | 129,972 | 44.5\% | 129,972 | 44.5\% | 5.2\% |
| Local | 108,156 | 19.9\% | 209,567 | 28.4\% | 317,723 | 25.4\% | 12.7\% |
| Total | 963,955 | 28.9\% | 1,533,946 | 41.1\% | 2,497,901 | 36.1\% | 100.0\% |

Total mileage has increased only 1.1 percent since 1986, while travel has increased 36.1 percent during the same time period. The urban travel increase of 41.1 percent has outpaced the rural 28.9 percent increase due to the Nation's continued growth in urbanization and expanded urban boundaries, which involves the transfer of heavily travelled rural facilities to urban. The urban Interstate system has had the greatest travel growth (53.1 percent) during the 1986 to 1996 time period.

| National Highway System |  |  |  |
| :---: | :---: | :---: | :---: |
| NHS Mileage |  |  |  |
|  | Rural | Urban | Total |
| Interstate | 32,920 | 13,366 | 46,286 |
| Other NHS | 84,892 | 27,700 | 112,592 |
| Total NHS | 117,812 | 41,066 | 158,878 |
| NHS Percent of Total Mileage |  |  |  |
|  | Rural | Urban | Total |
| Interstate | 0.8 | 0.3 | 1.2 |
| Other NHS | 2.2 | 0.7 | 2.9 |
| Total NHS | 3.0 | 1.0 | 4.0 |
| NHS Travel (millions) |  |  |  |
|  | Rural | Urban | Total |
| Interstate | 233,593 | 355,196 | 588,789 |
| Other NHS | 198,672 | 297,126 | 495,798 |
| Total NHS | 432,265 | 652,322 | 1,084,587 |
| NHS Percent of Total Travel |  |  |  |
|  | Rural | Urban | Total |
| Interstate | 9.4 | 14.2 | 23.6 |
| Other NHS | 8.0 | 11.9 | 19.8 |
| Total NHS | 17.3 | 26.1 | 43.4 |

The National Highway System (NHS) is the network of nationally significant highways approved by Congress as required by the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991. It includes the Interstate System and over 100,000 miles of arterial and other roads. Designation of the Interstate System was completed on November 28, 1995, when President Clinton signed the National Highway System Designation Act of 1995 (Public Law 104-59).
The NHS represents only about $4 \%$ of the Nation's total public road mileage and $6 \%$ of its lane miles, but carries over $43 \%$ of the travel. Approximately $79 \%$ of the Combination Truck Travel is on the NHS (as represented by the entire Principal Arterial System).

Although there is about three times as much NHS mileage in rural areas than there is in urban, the NHS percentages of the total U.S. mileage in rural and urban areas, respectively, are similar.

A majority of the travel on the NHS takes place in urban areas even though more mileage exists in the rural areas.



* Estimated. The High-Priority Corridors category contains some mileage also found in other categories.

Of the 158,878 NHS miles, 29 percent is made up of the Interstate System (IS). The NHS encompasses all of the Strategic Highway Network (STRAHNET) (about one fourth of which is on the IS), and other highways. As shown on the following page, 2,032 miles of intermodal connectors have been NHS designated.

| Traffic Lanes and Access Control for the NHS <br> (Rural and Urban Miles) |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| Category | Interstate* |  |  |  |

* Includes Alaska and Puerto Rico, which account for much of the non-freeway and less than 4-lane mileage

| Intermodal Facility Connections <br> (Approved and Proposed) |  |  |
| :--- | ---: | ---: |
| Facility Type | Number of Facilities | Associated Mileage |
| Airport | 228 | 401 |
| Intercity Bus | 99 | 63 |
| Ferry | 59 | 293 |
| Truck/Pipeline | 61 | 112 |
| Multipurpose | 43 | 35 |
| Port | 247 | 378 |
| Truck/Rail | 211 | 336 |
| Amtrak | 71 | 80 |
| Public Transit | 388 | 334 |
| TOTALS | 1,407 | 2,032 |

As defined by ISTEA, the NHS includes highways that provide connections to major intermodal terminals. Section 101 of the National Highway System Designation Act of 1995 required the Secretary of Transportation to submit NHS connections to "...major ports, airports, international border crossings, public transportation facilities, interstate bus terminals, and rail and other intermodal transportation facilities."

Public transit facilities have the most NHS connections with high associated mileage while airport facilities have a substantially fewer number of connections but have the most associated mileage.

| Other Characteristics |  |  |
| :---: | :---: | :---: |
| Characteristics | Number | Mileage |
| Bridges | 126,910 |  |
| Railroad Crossings ${ }^{1}$ | 3,004 |  |
| Border Crossings <br> Canada <br> Mexico <br> Full Access Control <br> Interstate ${ }^{2}$ | 32 |  |
| Other | 21 | 44,262 |

${ }^{1}$ The number of NHS railroad crossings in an estimate based on expanded HPMS sample data.
${ }^{2}$ The interstate mileage does not include some mileage subject to full access control - notably designated Interstate mileage in Alaska and Puerto Rico.

The FHWA estimates that the NHS contains the following number of bridges, railroad crossings, major border crossings with Canada and Mexico, and full access control mileage.


The preservation of the Nation's highways is a priority at all levels of government. Although pavement conditions and trends vary significantly among the States, average conditions on the Nation's arterial systems appear to have stabilized, or perhaps even improved, in recent years. This has diminished a continuous downward trend in physical condition that was evident in the 1970's and early 1980's. This is due primarily to increased attention and fiscal resources assigned to the preservation of pavement during the mid to late 1980's.

The International Roughness Index (IRI), an objective instrument-based rating system, has been used as an indicator of pavement surface condition and therefore rideability. Pavements with IRI<170 are considered to have an acceptable ride quality, while those with an IRI<95 are considered to have a good or very good ride quality.

| Bridge Conditions <br> (as of December 31, 1996) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | National Highway System ${ }^{1}$ |  | Other FederalAid Highways ${ }^{2}$ |  | Non-FederalAid Highways ${ }^{3}$ |  | Total Highways |  |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Structurally Deficient | 9,690 | 7.6 | 22,597 | 13.2 | 69,231 | 24.4 | 101,518 | 17.4 |
| Functionally Obsolete | 23,230 | 18.2 | 24,025 | 14.1 | 33,953 | 12.0 | 81,208 | 14.0 |
| All Other Bridges | 94,816 | 74.2 | 124,334 | 72.7 | 179,987 | 63.6 | 399,137 | 68.6 |
| Total Bridges in Inventory | 127,736 | 100.0 | 170,956 | 100.0 | 283,171 | 100.0 | 581,863 | 100.0 |
| ${ }^{1}$ Includes all Interstate and other principal arterials. <br> ${ }^{2}$ Includes all other highways except minor collectors and local roads and streets. <br> ${ }^{3}$ Includes rural minor collectors and local roads and streets. <br> SOURCE: Federal Highway Administration, Office of Engineering, National Bridge Inventory Data. |  |  |  |  |  |  |  |  |

Thirty-one percent of the Nation's estimated 581,863 bridges are structurally deficient or functionally obsolete. Twenty-six percent of the 127,736 bridges on the NHS (Interstate and all other principal arterials) are structurally deficient or functionally obsolete.

A structurally deficient bridge is closed or restricted to light vehicles only because of deteriorated structural components. Structurally deficient bridges are not necessarily unsafe. Strict observance of signs limiting traffic or speed on bridges will generally provide adequate safeguards for those using the bridges.

A functionally obsolete bridge is one that cannot safely service the volume or type of traffic using it. These bridges are not unsafe for all vehicles, but have older design features that prevent them from accommodating current traffic volumes and modern vehicle sizes and weights.


Travel congestion on the urban Interstate System and urban NHS appears to have stabilized at a level of about 54 percent and 45 percent, respectively. The trend for the periods shown reflect the updated HPMS capacity calculation procedures. The measure of congestion used in this analysis is called the Volume/Service Flow (V/SF) Ratio. As this ratio gets larger, traffic slows and eventually stops as the theoretical value of 1.00 is approached (the volume of traffic = service flow capability of the facility). A V/SF ratio of greater than or equal to 0.80 was used here to indicate congestion.


Overall, fatalities decreased from 1976 to a low of 39,230 in 1992. However, over the past 4 years the number of fatalities has risen slightly.
Of the 41,907 1996 fatalities, 5,231 (or 12.5 percent) occurred on the Interstate System. An estimated 40.9 percent of highway fatalities in 1996 were alcohol-related.


The fatality rate - fatalities per 100 million vehicle-miles of travel (VMT) - on all highway systems continues to decline. In 1996, the fatality rate reached 1.69 , a 48 -percent decrease from 1976. The decrease in the fatality rate occurred despite a 77 -percent increase in highway travel and a 48-percent increase in motor-vehicle registrations during the 1976 to 1996 time period. The fatality rate ( 0.90 ) on the Interstate System is about one-half the rate on all highway systems.


In 1996, 59 percent of motor-vehicle deaths occurred in places classified as rural. In urban areas, nearly one-third of the victims were nonoccupants; in rural areas, the victims were mostly occupants of motor vehicles. Fifty-one percent of all deaths occurred in nighttime crashes.


There were 5,126 fatalities in crashes involving medium and heavy trucks in 1996. Occupants in other vehicles accounted for 4,072 or 79 percent of the fatalities involving medium and heavy trucks.

There were 453 less fatalities involving medium and heavy trucks from 1986 to 1996. Occupants in other vehicles showed a decrease of 16 of the fatalities involving medium and heavy trucks while the non-occupant fatalities decreased by 132 over that same period of time.


From 1970 to 1996, highway fuel consumption increased 59 percent to 146.7 billion gallons. The highway use of motor fuel, which includes gasohol, is predominately by automobiles while the highway use of diesel fuel is predominately by trucks.

During this period, the highway use of motor fuel increased 39.6 percent from 85.6 to 119.5 billion gallons. As population and the number of automobiles increased, the highway use of motor fuel increased overall through the 1980's and into the 1990's despite improved automotive fuel economy.

Gasohol was originally defined to be a blend of 90 percent gasoline and 10 percent fuel alcohol. This definition was expanded in 1993 to include blends varying from 5.7 to 10 percent alcohol. The lower-alcohol blends are often used as "clean air fuel" to reduce carbon monoxide emissions.

## T ravel



Indices for vehicle-miles of travel, highway fuel use, and average vehicle fuel economy (miles per gallon) have increased significantly through the last decade. Average fuel economy for all vehicles has increased from 12.0 miles per gallon ( mpg ) in 1970 to 16.9 in 1996, a 41 percent increase. This improved fuel efficiency made it possible to have a 124 percent increase in vehicle-miles of travel with only a 59 percent increase in fuel use.


Annual travel on the Nation's highways reached an estimated 2.5 trillion vehicle-miles in 1996, or about three times the level in 1960. Travel grew about 47 percent during the 1960's, another 38 percent in the 1970's, and another 37 percent in the 1980's.

Annual travel on roads and streets in urban areas accounted for 1.5 trillion vehicle-miles in 1996 or 61 percent of total travel compared to 44 percent in 1960. Compared to the urban travel growth of 45 percent in the 1980 's, rural travel grew 27 percent. Much of the urban travel growth can be attributed to expanding urban boundaries.


Travel by all motor vehicles has increased by 124 percent compared to 1970. Truck travel has increased 194 percent since 1970. This includes travel by combination trucks and singleunit trucks. Combination truck travel is up over 238 percent and now accounts for 4.8 percent of total annual vehicle-miles of travel versus 3.2 percent in 1970. The most dramatic increase in travel has been by other 2-axle, 4-tire vehicles with an increase of 561 percent since 1970. This rapid increase is due to the popularity of minivans, pickups and sport/utility vehicles. The percentage of annual travel by passenger cars in relation to travel by all vehicles has decreased from 82.6 percent in 1970 to 59.1 percent in 1996.

Rural Interstate Travel by Vehicle Type
Distribution of Average Daily Traffic and Loadings ${ }^{1}$ On the Rural Interstate System as a Percent of Total

${ }^{1}$ Equivalent axle loads provide a means of measuring vehicle wear on pavements by relating them to an 80 kilonewton (18,000 pound) single axle load.
${ }^{2}$ All 2-axle, 4-tire trucks. Includes pickup trucks, panel trucks, vans, and other vehicles (such as campers, motor homes, etc.)
${ }^{3}$ All vehicles on a single frame have either 2 axles and 6 tires or 3 or more axles (including camping and recreational vehicles and motor homes).

On rural Interstate routes in 1996, combination trucks with 5 or more axles accounted for 17 percent of average daily traffic but 91 percent of equivalent axle loads. All other vehicles accounted for 83 percent of average daily traffic but only 9 percent of traffic loads. From 1986 to 1996, traffic on rural Interstate routes increased by 47 percent and equivalent axle loads increased by 55 percent.


The 1995 NPTS data provides information on the reasons for travel. Family and personal business, which includes shopping and services such as haircuts, car repair and banking, account for 46 percent of all person trips and about 35 percent of person miles. Social and recreational trips, which include visiting friends and relatives, attending movies and parties, and participating in sports, comprise 25 percent of all trips and account for 31 percent of all miles. Trips to work and for work-related purposes, such as attending a meeting, constitute 20 percent of person trips and 28 percent of person miles. The average person trip length, encompassing all trip purposes is 9.1 miles, and the average commute to work is 11.6 miles.


The data from the 1995 NPTS shows that there are approximately 56 million daily walk trips in the U.S. Shopping and other family and personal business trips, which are usually the shortest trips, account for just over 43 percent of all walk trips. Visiting and other social and recreational activities share another 34 percent, and the remainder are for going to school, church or work.
The majority of bike trips, 60 percent, are for a combination of visiting friends and relatives and other social and recreational activities. Another 12 percent are for shopping and 11 percent for other family and personal business. Only 8 percent are for travel to and from work, which is not surprising given increasing work trip lengths and weather considerations.

| Travel for Work |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Worktrip Length by Mode Average Length in Miles |  |  |  | Worktrip Length by Mode Average Time in Minutes |  |  |  |
|  | Male | Female | All |  | Male | Female | AII |
| POV | 13.49 | 9.58 | 11.84 | POV | 22.09 | 17.40 | 20.10 |
| Public Transportation | 14.10 | 11.47 | 12.88 | Public Transportation | 43.41 | 40.38 | 41.95 |
| Walk | 0.81 | 0.66 | 0.74 | Walk | 10.86 | 10.87 | 10.86 |
| All Modes | 13.28 | 9.35 | 11.60 | All Modes | 22.44 | 18.22 | 20.65 |
| SOURCE: Federal Highway Administration, 1995 Nationwide Personal Transportation Survey. |  |  |  |  |  |  |  |

Although work travel is not the most prevalent travel in our very mobile society, and over the years its share of travel has decreased slightly, its impact on the economy is very important and its predictable concentrations at certain times of the day are important. More than 90 percent of work trips take place in privately owned vehicles (POVs) (increasingly this is in single-occupant vehicles instead of car pooling and transit). Somewhat more than 3 percent take place on transit and another 2 percent are walk trips. They average 12 miles in POVs and 13 miles on transit; walk trips average less than a mile. The preference for the POV is clearly linked to the travel times for these modes. While the average travel time for the POV is 20.1 minutes at an average speed of 35 mph , that for public transit is 42.0 (average speed of 18 mph ). The overall average travel time is 20.7 minutes with an average speed of 33.7 mph .


There is a general perception that most trips during the traditional "rush hour" are for work Data from the 1995 NPTS show that the share of trips for work does not support this perception. Only 36 percent of all trips starting between 6 AM and 9 AM are for work, and this share drops to 20 percent in the $4 \mathrm{PM}-7$ PM time period.

Note that the NPTS defines a trip as travel from one address to another. Those incidental trips we make on the way to work are classified as their own purposes.


Most receipts from the Federal taxation of motor fuel, along with a number of other high-way-related taxes are deposited in the Federal Highway Trust Fund. The Trust Fund is made up of two accounts-highway and mass transit-and is dedicated for the funding of Federal surface transportation programs. In this way, taxes on highway users are used to fund highway facilities. The Trust Fund has provided a stable funding source for highway programs since it was established in 1956.

Motor-fuel tax receipts accounted for $\$ 21.500$ billion in Fiscal Year (FY) 1996 or 87.2 percent of all Trust Fund tax receipts. Other taxes accounted for $\$ 3.151$ billion. The balance in the Trust Fund earned interest income of $\$ 1.323$ billion.


NOTE: The Highway Trust Fund was established July 1, 1956; the Mass Transit Account was established April 1, 1983.

The balance in the Highway Trust Fund has grown from $\$ 9.581$ billion at the end of FY 1983 to $\$ 21.642$ billion at the end of FY 1996. At the end of FY 1996, the Highway Account held a balance of $\$ 12.118$ billion and had unpaid commitments of $\$ 42.452$ billion. Funds for highway projects are committed when the project is initiated and are paid out as the project progresses. Because construction projects are long term in nature, the highway-user tax revenues can be committed to projects in advance of actual tax collection.


Obligations of Federal-aid highway funds totaled $\$ 129.0$ billion for the 7 -year period 1990 through 1996-an average of $\$ 18.4$ billion per year. Reconstruction work represents the largest portion of obligations during the period.


Total highway funding by all units of government reached $\$ 101.5$ billion in 1996-a 218-percent increase compared to 1976. At 62.9 percent, highway-user fees make up the largest share of revenues used to fund highways. When compared to the 65.2 percent in 1976, the present shares has slightly decreased. The General Fund share of highway funding has decreased from 15.2 percent in 1976 to 12.6 percent in 1996. Other taxes, investment income and bond proceeds account for 24.5 percent of the total highway funding as compared to 19.6 percent in 1976.

Capital expenditures currently account for 47.4 percent of highway expenditures compared to 47.5 percent in 1976; maintenance accounts for 26.3 percent compared to 26.4 percent in 1976. Expenditures for administration, highway patrol, and bond interest also account for an increasing share of total expenditures-21.7 percent in 1996 versus 20.7 percent in 1976.


State governments account for the largest shares of highway funding and highway expenditures, but the shares attributed to local units of government have increased significantly since 1976. Local governments now account for 26.4 percent of total highway funding and 37.6 percent of total highway expenditures compared to 20.9 percent and 35.4 percent, respectively, in 1976. Highway funding by the Federal Government has increased 154.3 percent compared to 1976; however, the relative share of Federal funding to total highway funding has decreased from 28.6 percent in 1976 to 22.9 percent in 1996.

Highway Capital Expenditures and Maintenance Expenditures by All Units of Government ${ }^{1}$

${ }^{1}$ Capital Expenditures include construction, engineering, and right-of-way.
Highway capital expenditures increased 302 percent from 1970 to 1996. Adjusted for inflation, 1996 capital expenditures (expressed in constant 1987 dollars) were only 17 percent above the 1970 level. Expenditures for highway maintenance in 1996 increased 447 percent compared to 1970. After accounting for inflation, 1996 maintenance expenditures were 35 percent above the 1970 level.

| Federal Highway-User Fees ${ }^{1}$ |  |
| :---: | :---: |
| User Fee Type | Rate on October 1, 1997 |
| Motor Fuels |  |
| Gasoline | 18.4 cents per gallon |
| Gasohol |  |
| Made with 10\% Ethanol | 13.0 cents per gallon |
| Made with 10\% Methanol | 12.4 cents per gallon |
| Diesel Fuel | 24.4 cents per gallon |
| Liquefied Petroleum Gases | 13.6 cents per gallon |
| Tires | 0-40 pounds, no tax |
|  | Over $40-70$ pounds, 15 cents per pound in excess of 40 <br> Over $70-90$ pounds, $\$ 4.50$ plus 30 cents per pound in excess of 70 |
|  | Over 90 pounds, $\$ 10.50$ plus 50 cents per pound in excess of 90 |
| Truck and Trailer Sales | 12 percent of retailer's sales price for trucks over 33,000 pounds Gross vehicle weight (GVW) and trailers over 26,000 pounds GVW |
| Heavy Vehicle Use | Annual Tax: |
|  | Trucks 55,000-75,000 pounds GVW, $\$ 100$ plus $\$ 22$ for each 1,000 pounds (or fraction thereof) in excess of 55,000 pounds Trucks over 75,000 pounds GVW, $\$ 550$ |
| ${ }^{1}$ See tables FE-101A, FE-101B, and FE-21B in Highway Statistics 1995 for a more complete description of Federal highway-user fees. |  |

Highway Construction Price Trends and the Consumer Price Index


Apportionment of Federal Funds Administered by the Federal Highway Administration ${ }^{1}$ for FY 1995, 1996, and $1997^{2}$
(in Millions of Dollars)

|  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | :---: | :---: |
| Selected Programs | $\mathbf{1 9 9 5}$ | 1996 | 1997 |  |  |
| Interstate Construction ${ }^{3}$ | 1061 | 0 | 0 |  |  |
| Interstate Maintenance | 2775 | 2405 | 2761 |  |  |
| Interstate Substitute (Highway) | 231 | 0 | 0 |  |  |
| Reimbursement for non-Federally aided Interstate Segments | 0 | 1651 | 1896 |  |  |
| National Highway System | 3344 | 2909 | 3345 |  |  |
| Surface Transportation Program | 3869 | 3375 | 3875 |  |  |
| Congestion Mitigation and Air Quality Improvement | 975 | 850 | 975 |  |  |
| Bridge Replacement and Rehabilitation | 2549 | 2200 | 2536 |  |  |
| P.L. 104-59 Restoration Funds | 0 | 267 | 155 |  |  |
| Metropolitan Planning | 139 | 137 | 157 |  |  |
| Donor State Bonus | 495 | 429 | 493 |  |  |
| 90\% of Payment Adjustments | 0 | 138 | 1682 |  |  |
| Apportionment Adjustment | 905 | 811 | 931 |  |  |
| Minimum Allocation | 1427 | 502 | 603 |  |  |
| Highway Safety (FHWA and NHTSA) | 182 | 152 | 157 |  |  |
| Total ${ }^{5}$ | $\mathbf{1 7 , 9 5 2}$ | $\mathbf{1 5 , 8 2 6}$ | $\mathbf{1 9 , 5 6 6}$ |  |  |

Apportioned pursuant to the Intermodal Surface Transportation Efficiency Act of 1991 and the National Highway System Designation Act of 1995. Does not include funds from the Mass Transit Account of the Highway Trust Fund or the National Recreational Trails Trust Fund.
${ }^{2}$ Fiscal year starts October 1 and ends September 30
${ }^{3}$ Interstate construction funds are made available 1 year in advance of the year for which they are apportioned.
${ }^{4}$ Section 203 of the National Highway System (NHS) Designation Act of 1995 rescinded some unobligated balances remaining from the authorizations under previous highway authorization acts. It also made reductions in authorized amounts for several programs. These funds are apportioned to the States based on percentages specified in section 202 of the NHS Designation Act.
${ }^{5}$ Does not include funds from the following programs: emergency relief, Federal lands highway programs, mandated projects, national magnetic levitation development, high-speed ground transportation development, and intelligent vehicle-highway system, among others. These funds are allocated from the Highway Trust Fund.

## Using Data for Comparisons

Even when data are consistently collected and reported, users need to recognize that highway statistical information is not necessarily comparable across all States. For many of the data items reported in Highway Statistics, a user should not expect to find consistency among all States, due to many State-to-State differences. When making State level comparisons, it is inappropriate to use these statistics without recognizing those differences that impact comparability.

Use of reported State maintenance expenditures provides a clear example. Maintenance expenditures per mile can vary between States depending upon a number of factors including differences such as climate and geography, how each State defines maintenance versus capital expenditures, traffic intensity and percent trucks, degree of urbanization, types of pavement being maintained, and the level of system responsibility retained by the State versus that given to other levels of government. It would be inappropriate, therefore, when using data from Highway Statistics to compare per mile maintenance costs across all States to draw any conclusions without taking into account the differences that should be expected in these parameters based upon differing State conditions.

If choosing to compare State data, the user must be prepared to thoughtfully select a set of peer States that have similar characteristics in relationship to the specific comparison being made. Improperly selected peer States are likely to yield invalid data comparisons.

Differences that the user needs to consider in determining suitability of peer States for data comparison purposes include characteristics such as urban/rural similarities, population density, degree of urbanization, climate, geography, differing State laws and practices that influence data definitions, administrative control of the public road system, similarity of the basic State economies, traffic volume similarities, and the degree of State functional centralization.

Beginning in 1994, FHWA provided a two-page "Peer State" table in each edition of Highway Statistics that lists some of these characteristics so that the data user might be made more aware of possible problems that may arise when comparing State-by-State data.

Selected Statistics by State

| State | Resident Population (Thousands) | Driving-Age Population (Thousands) | Highway Motor Fuel Use (Thousands of Gallons) | Total Lane Miles | Total Road and Street Mileage ${ }^{1}$ | Annual Vehicle-Miles of Travel (Millions) | Total Highway Fatalities | Fatalities per 100 Million VMT | Total Highway Injuries | Injuries per 100 Million VMT | State Motor Fuel Taxes And Other Related Receipts | Total High- way Capital Outlay ${ }^{2}$ (Thousands) | Total <br> Disbursements for Highways ${ }^{2}$ (Thousands) | Payments into the Federal HTF (Thousands) | Apportionments from the HTF ${ }^{3}$ (Thousands) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 4,273 | 3,325 | 2,925,306 | 193,245 | 93,340 | 51,433 | 1,143 | 2.22 | 47,963 | 107.23 | 530,399 | 479,737 | 1,266,350 | 486,254 | 327,193 |
| Alaska | 607 | 442 | 335,932 | 26,816 | 13,255 | 4,115 | 80 | 1.94 | 5,851 | 70.33 | 18,756 | 294,109 | 561,284 | 51,114 | 212,776 |
| Arizona | 4,428 | 3,401 | 2,591,315 | 118,005 | 54,895 | 42,123 | 993 | 2.36 | 71,806 | 58.66 | 478,129 | 646,351 | 1,342,003 | 379,343 | 250,050 |
| Arkansas | 2,510 | 1,929 | 1,820,622 | 158,027 | 77,746 | 27,840 | 615 | 2.21 | 19,477 | 142.94 | 340,052 | 414,471 | 868,271 | 317,013 | 243,407 |
| California | 31,878 | 23,862 | 15,425,685 | 381,417 | 170,506 | 278,043 | 3,989 | 1.43 | 300,104 | 92.65 | 2,635,798 | 4,459,389 | 9,222,772 | 2,238,990 | 1,519,635 |
| Colorado | 3,823 | 2,935 | 2,054,594 | 175,391 | 84,797 | 36,141 | 617 | 1.71 | 37,743 | 95.76 | 439,774 | 598,126 | 1,462,425 | 280,038 | 225,580 |
| Connecticut | 3,274 | 2,557 | 1,503,844 | 43,770 | 20,600 | 28,135 | 310 | 1.10 | 48,163 | 58.42 | 498,120 | 667,307 | 1,374,482 | 219,462 | 354,533 |
| Delaware | 725 | 568 | 407,486 | 12,369 | 5,715 | 7,666 | 116 | 1.51 | 10,115 | 75.79 | 93,345 | 257,892 | 476,335 | 63,206 | 76,895 |
| Dist. of Col. | 543 | 444 | 182,030 | 3,444 | 1,413 | 3,316 | 62 | 1.87 | 10,378 | 31.95 | 32,028 | 80,377 | 143,240 | 27,694 | 83,366 |
| Florida | 14,400 | 11,329 | 7,598,846 | 246,545 | 114,422 | 130,004 | 2,753 | 2.12 | 243,320 | 53.43 | 1,300,895 | 2,869,157 | 4,824,183 | 1,124,231 | 762,912 |
| Georgia | 7,353 | 5,617 | 5,391,750 | 234,292 | 111,746 | 89,132 | 1,574 | 1.77 | 145,057 | 61.45 | 412,268 | 1,326,859 | 2,338,758 | 854,673 | 519,944 |
| Hawaii | 1,184 | 909 | 413,750 | 8,927 | 4,142 | 8,030 | 148 | 1.84 | 10,994 | 73.04 | 67,167 | 248,534 | 431,381 | 56,736 | 116,844 |
| Idaho | 1,189 | 885 | 758,436 | 121,500 | 59,674 | 12,961 | 258 | 1.99 | 14,252 | 90.94 | 179,514 | 231,107 | 447,690 | 120,424 | 128,954 |
| Illinois | 11,847 | 9,030 | 5,770,508 | 287,275 | 137,577 | 96,730 | 1,477 | 1.53 | 144,022 | 67.16 | 1,134,506 | 1,964,005 | 3,688,748 | 806,523 | 694,109 |
| Indiana | 5,841 | 4,519 | 3,837,370 | 191,743 | 92,970 | 66,220 | 984 | 1.49 | 80,408 | 82.35 | 664,718 | 806,978 | 1,515,372 | 574,293 | 385,561 |
| Iowa | 2,852 | 2,223 | 1,897,047 | 230,835 | 112,708 | 26,880 | 465 | 1.73 | 30,826 | 87.20 | 374,546 | 697,003 | 1,360,382 | 253,833 | 212,153 |
| Kansas | 2,572 | 1,964 | 1,613,724 | 271,400 | 133,386 | 25,942 | 491 | 1.89 | 31,342 | 82.77 | 296,996 | 703,252 | 1,475,775 | 253,423 | 210,441 |
| Kentucky | 3,884 | 3,035 | 2,374,913 | 151,606 | 73,158 | 42,586 | 841 | 1.97 | 56,023 | 76.02 | 400,698 | 829,558 | 1,482,037 | 422,780 | 266,713 |
| Louisiana | 4,351 | 3,264 | 2,601,051 | 127,338 | 60,667 | 38,095 | 781 | 2.05 | 44,760 | 85.11 | 529,232 | 661,265 | 1,617,204 | 386,638 | 241,237 |
| Maine | 1,243 | 980 | 755,391 | 46,142 | 22,577 | 12,819 | 169 | 1.32 | 16,812 | 76.25 | 145,803 | 176,773 | 531,151 | 114,687 | 118,904 |
| Maryland | 5,072 | 3,916 | 2,518,045 | 65,162 | 29,680 | 46,187 | 608 | 1.32 | 48,806 | 94.63 | 604,614 | 760,282 | 1,692,907 | 367,322 | 268,408 |
| Massachusetts | 6,092 | 4,818 | 2,813,026 | 73,330 | 34,725 | 49,956 | 417 | 0.83 | 47,228 | 105.78 | 591,807 | 1,587,592 | 2,953,348 | 404,958 | 660,902 |
| Michigan | 9,594 | 7,345 | 5,343,599 | 247,195 | 117,620 | 90,215 | 1,505 | 1.67 | 139,695 | 64.58 | 752,129 | 1,198,982 | 2,372,198 | 767,765 | 478,604 |
| Minnesota | 4,658 | 3,554 | 2,745,903 | 267,851 | 130,613 | 44,465 | 576 | 1.30 | 47,963 | 92.71 | 507,770 | 1,189,725 | 2,363,741 | 312,675 | 288,527 |
| Mississippi | 2,716 | 2,052 | 1,811,835 | 151,279 | 73,202 | 30,562 | 811 | 2.65 | 33,144 | 92.21 | 334,857 | 445,621 | 931,440 | 290,764 | 187,609 |
| Missouri | 5,359 | 4,125 | 3,634,320 | 251,337 | 122,748 | 61,162 | 1,149 | 1.88 | 77,803 | 78.61 | 591,526 | 847,848 | 1,705,140 | 566,524 | 374,754 |
| Montana | 879 | 676 | 612,508 | 142,465 | 69,809 | 9,446 | 200 | 2.12 | 10,556 | 89.48 | 167,857 | 207,601 | 429,117 | 105,043 | 163,881 |
| Nebraska | 1,652 | 1,262 | 1,126,001 | 187,914 | 92,805 | 16,238 | 293 | 1.80 | 30,696 | 52.90 | 249,759 | 451,669 | 802,072 | 177,024 | 137,417 |
| Nevada | 1,603 | 1,228 | 1,008,500 | 93,623 | 45,039 | 14,158 | 348 | 2.46 | 24,023 | 58.94 | 233,563 | 340,578 | 583,981 | 140,391 | 132,872 |
| New Hampshire | 1,162 | 898 | 638,024 | 31,093 | 15,106 | 10,987 | 134 | 1.22 | 22,934 | 47.91 | 116,902 | 156,244 | 471,586 | 89,538 | 94,846 |
| New Jersey | 7,988 | 6,206 | 4,182,271 | 77,643 | 35,924 | 62,334 | 818 | 1.31 | 130,308 | 47.84 | 463,664 | 1,337,588 | 2,804,103 | 606,735 | 494,016 |
| New Mexico | 1,713 | 1,269 | 1,141,879 | 123,755 | 59,455 | 21,510 | 481 | 2.24 | 31,315 | 68.69 | 223,780 | 383,432 | 627,234 | 190,339 | 171,383 |
| New York | 18,185 | 14,115 | 6,369,283 | 238,074 | 112,347 | 118,641 | 1,564 | 1.32 | 287,074 | 41.33 | 1,325,956 | 3,286,133 | 7,984,826 | 956,360 | 1,101,551 |
| North Carolina | 7,323 | 5,688 | 4,447,041 | 204,132 | 97,509 | 78,935 | 1,493 | 1.89 | 150,881 | 52.32 | 1,184,149 | 1,123,979 | 2,162,138 | 688,975 | 451,624 |
| North Dakota | 644 | 496 | 477,738 | 175,753 | 86,808 | 6,741 | 85 | 1.26 | 5,889 | 114.47 | 93,112 | 190,250 | 339,716 | 78,866 | 124,534 |
| Ohio | 11,173 | 8,655 | 6,033,308 | 242,051 | 114,642 | 103,090 | 1,395 | 1.35 | 220,105 | 46.84 | 1,341,859 | 1,389,871 | 2,920,770 | 834,049 | 605,926 |
| Oklahoma | 3,301 | 2,523 | 2,329,971 | 232,158 | 112,664 | 39,427 | 772 | 1.96 | 53,378 | 73.86 | 367,146 | 479,727 | 1,002,583 | 369,914 | 242,441 |
| Oregon | 3,204 | 2,490 | 1,839,934 | 169,955 | 83,190 | 30,319 | 524 | 1.73 | 38,554 | 78.64 | 364,425 | 515,132 | 1,098,770 | 290,338 | 339,721 |
| Pennsylvania | 12,056 | 9,488 | 5,921,432 | 247,826 | 118,952 | 96,646 | 1,469 | 1.52 | 136,952 | 70.57 | 1,314,011 | 1,553,646 | 4,102,080 | 911,597 | 830,664 |
| Rhode Island | 990 | 780 | 420,887 | 12,720 | 6,001 | 7,120 | 69 | . 97 | 12,175 | 58.48 | 123,518 | 207,789 | 333,765 | 60,314 | 106,469 |
| South Carolina | 3,699 | 2,870 | 2,430,956 | 134,728 | 64,359 | 39,756 | 930 | 2.34 | 57,387 | 69.28 | 384,942 | 424,608 | 803,907 | 387,354 | 242,584 |
| South Dakota | 732 | 553 | 546,724 | 168,923 | 83,375 | 7,817 | 175 | 2.24 | 8,490 | 92.07 | 91,273 | 225,478 | 419,645 | 78,351 | 130,556 |
| Tennessee | 5,320 | 4,151 | 3,439,352 | 179,547 | 85,795 | 58,435 | 1,239 | 2.12 | 79,658 | 73.36 | 662,619 | 611,213 | 1,290,265 | 551,369 | 328,921 |
| Texas | 19,128 | 14,268 | 11,526,008 | 627,311 | 296,259 | 185,386 | 3,741 | 2.02 | 350,397 | 52.91 | 2,319,576 | 2,390,350 | 6,160,875 | 1,756,156 | 1,038,661 |
| Utah | 2,000 | 1,405 | 1,131,464 | 87,080 | 41,718 | 19,539 | 321 | 1.64 | 49,001 | 39.87 | 214,380 | 312,918 | 554,350 | 187,683 | 134,349 |
| Vermont | 589 | 459 | 400,367 | 29,199 | 14,192 | 6,377 | 88 | 1.38 | 3,568 | 178.73 | 67,405 | 108,849 | 259,196 | 57,168 | 80,238 |
| Virginia | 6,675 | 5,221 | 4,054,168 | 149,964 | 69,384 | 71,302 | 875 | 1.23 | 82,363 | 86.57 | 693,348 | 1,191,026 | 2,980,355 | 623,925 | 397,176 |
| Washington | 5,533 | 4,256 | 3,041,375 | 164,128 | 79,555 | 49,405 | 712 | 1.44 | 83,781 | 58.97 | 668,487 | 1,232,488 | 2,408,953 | 430,273 | 435,157 |
| West Virginia | 1,826 | 1,461 | 957,329 | 72,255 | 35,130 | 17,693 | 345 | 1.95 | 27,590 | 64.13 | 261,612 | 466,062 | 922,754 | 176,743 | 211,482 |
| Wisconsin | 5,160 | 3,976 | 2,920,969 | 228,937 | 111,435 | 52,782 | 761 | 1.44 | 66,069 | 79.89 | 675,345 | 1,005,410 | 2,326,650 | 441,967 | 321,782 |
| Wyoming | 481 | 366 | 551,383 | 70,348 | 34,115 | 7,360 | 143 | 1.94 | 6,605 | 111.43 | 53,461 | 193,668 | 344,604 | 102,031 | 125,248 |
| U.S. TOTAL | 265,284 | 203,787 | 146,675,200 | 8,177,823 | 3,919,450 | 2,482,202 | 41,907 | 1.69 | 3,733,804 | 66.48 | 27,617,596 | 44,228,009 | 92,582,912 | 22,033,866 | 17,653,510 |

This mileage data does not include Puerto Rico.
All units of government, 1995 data. Fiscal Year (October 1 - September 30)
Includes allocations.

Population, Drivers, Vehicles, Fuel and Travel by State ${ }^{1}$

| State | Total Registered Vehicles | Total Licensed Drivers | Licensed Drivers per 1,000 DrivingAge Population | Registered Motor Vehicles per 1000 Population | Motor Vehicles per Licensed Driver | Persons per Registered Motor Vehicle | Gallons of Fuel per Vehicle | Miles per Gallon | Annual Miles per Vehicle | Vehicle-Miles per Capita | Vehicle-Miles per Licensed Driver |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 3,323,683 | 3,138,237 | 944 | 778 | 1.06 | 1.29 | 880 | 17.58 | 15,475 | 12,037 | 16,389 |
| Alaska | 531,017 | 439,855 | 995 | 875 | 1.21 | 1.14 | 633 | 12.25 | 7,749 | 6,779 | 9,355 |
| Arizona | 2,982,523 | 2,727,312 | 802 | 674 | 1.09 | 1.48 | 869 | 16.26 | 14,123 | 9,513 | 15,445 |
| Arkansas | 1,633,343 | 1,752,229 | 909 | 651 | 0.93 | 1.54 | 1,115 | 15.29 | 17,045 | 11,093 | 15,888 |
| California | 25,213,707 | 20,249,200 | 849 | 791 | 1.25 | 1.26 | 612 | 18.02 | 11,027 | 8,722 | 13,731 |
| Colorado | 3,433,287 | 2,756,807 | 939 | 898 | 1.25 | 1.11 | 598 | 17.59 | 10,527 | 9,454 | 13,110 |
| Connecticut | 2,608,831 | 2,343,779 | 916 | 797 | 1.11 | 1.26 | 576 | 18.71 | 10,785 | 8,593 | 12,004 |
| Deleware | 593,007 | 529,291 | 932 | 818 | 1.12 | 1.22 | 687 | 18.81 | 12,927 | 10,576 | 14,484 |
| Dist. of Col. | 237,415 | 333,445 | 751 | 437 | 0.71 | 2.29 | 767 | 18.22 | 13,967 | 6,104 | 9,945 |
| Florida | 10,888,596 | 11,399,593 | 1,006 | 756 | 0.96 | 1.32 | 698 | 17.11 | 11,939 | 9,028 | 11,404 |
| Georgia | 6,282,672 | 4,966,348 | 884 | 854 | 1.27 | 1.17 | 858 | 16.53 | 14,187 | 12,121 | 17,947 |
| Hawaii | 785,917 | 733,486 | 807 | 664 | 1.07 | 1.51 | 526 | 19.41 | 10,217 | 6,784 | 10,948 |
| Idaho | 1,061,125 | 819,713 | 927 | 892 | 1.29 | 1.12 | 715 | 17.09 | 12,214 | 10,898 | 15,812 |
| Illinois | 8,816,876 | 7,609,618 | 843 | 744 | 1.16 | 1.34 | 654 | 16.76 | 10,971 | 8,165 | 12,712 |
| Indiana | 5,215,572 | 3,704,156 | 820 | 893 | 1.41 | 1.12 | 736 | 17.26 | 12,697 | 11,338 | 17,877 |
| Iowa | 2,869,445 | 1,955,601 | 880 | 1,006 | 1.47 | 0.99 | 661 | 14.17 | 9,368 | 9,426 | 13,745 |
| Kansas | 2,109,814 | 1,788,259 | 910 | 820 | 1.18 | 1.22 | 765 | 16.08 | 12,296 | 10,086 | 14,507 |
| Kentucky | 2,695,985 | 2,566,545 | 846 | 694 | 1.05 | 1.44 | 881 | 17.93 | 15,796 | 10,965 | 16,593 |
| Louisiana | 3,318,205 | 2,624,131 | 804 | 763 | 1.26 | 1.31 | 784 | 14.65 | 11,481 | 8,756 | 14,517 |
| Maine | 958,659 | 873,713 | 892 | 771 | 1.10 | 1.30 | 788 | 16.97 | 13,372 | 10,310 | 14,672 |
| Maryland | 3,634,579 | 3,377,470 | 863 | 717 | 1.08 | 1.40 | 693 | 18.34 | 12,708 | 9,107 | 13,675 |
| Massachusetts | 4,702,389 | 4,355,014 | 904 | 772 | 1.08 | 1.30 | 598 | 17.76 | 10,624 | 8,200 | 11,471 |
| Michigan | 8,010,396 | 6,716,789 | 914 | 835 | 1.19 | 1.20 | 667 | 16.88 | 11,262 | 9,403 | 13,431 |
| Minnesota | 3,860,894 | 2,830,232 | 796 | 829 | 1.36 | 1.21 | 711 | 16.19 | 11,517 | 9,546 | 15,711 |
| Mississippi | 2,181,727 | 1,700,132 | 828 | 803 | 1.28 | 1.24 | 830 | 16.87 | 14,008 | 11,252 | 17,976 |
| Missouri | 4,350,440 | 3,749,348 | 909 | 812 | 1.16 | 1.23 | 835 | 16.83 | 14,059 | 11,414 | 16,313 |
| Montana | 973,074 | 573,754 | 849 | 1,107 | 1.70 | 0.90 | 629 | 15.42 | 9,707 | 10,742 | 16,464 |
| Nebraska | 1,478,558 | 1,159,831 | 919 | 895 | 1.27 | 1.12 | 762 | 14.42 | 10,982 | 9,829 | 14,000 |
| Nevada | 1,095,676 | 1,116,795 | 910 | 683 | 0.98 | 1.46 | 920 | 14.04 | 12,922 | 8,831 | 12,677 |
| New Hampshire | 1,112,113 | 915,451 | 1,019 | 957 | 1.21 | 1.05 | 574 | 17.22 | 9,879 | 9,451 | 12,002 |
| New Jersey | 5,821,536 | 5,485,980 | 884 | 729 | 1.06 | 1.37 | 718 | 14.90 | 10,707 | 7,804 | 11,362 |
| New Mexico | 1,544,633 | 1,179,256 | 929 | 901 | 1.31 | 1.11 | 739 | 18.84 | 13,926 | 12,554 | 18,240 |
| New York | 10,635,602 | 10,483,665 | 743 | 585 | 1.01 | 1.71 | 599 | 18.63 | 11,155 | 6,524 | 11,317 |
| North Carolina | 5,759,234 | 5,187,288 | 912 | 786 | 1.11 | 1.27 | 772 | 17.75 | 13,706 | 10,779 | 15,217 |
| North Dakota | 679,047 | 449,225 | 906 | 1,055 | 1.51 | 0.95 | 704 | 14.11 | 9,927 | 10,475 | 15,006 |
| Ohio | 9,770,484 | 7,852,548 | 907 | 874 | 1.24 | 1.14 | 618 | 17.09 | 10,551 | 9,227 | 13,128 |
| Oklahoma | 3,081,723 | 2,395,825 | 950 | 934 | 1.29 | 1.07 | 756 | 16.92 | 12,794 | 11,944 | 16,457 |
| Oregon | 2,851,048 | 2,612,659 | 1,049 | 890 | 1.09 | 1.12 | 645 | 16.48 | 10,634 | 9,464 | 11,605 |
| Pennsylvania | 8,640,238 | 8,221,143 | 866 | 717 | 1.05 | 1.40 | 685 | 16.32 | 11,186 | 8,016 | 11,756 |
| Rhode Island | 695,928 | 668,940 | 858 | 703 | 1.04 | 1.42 | 605 | 16.92 | 10,231 | 7,190 | 10,644 |
| South Carolina | 2,790,575 | 2,574,575 | 897 | 754 | 1.08 | 1.33 | 871 | 16.35 | 14,247 | 10,749 | 15,442 |
| South Dakota | 751,071 | 518,592 | 937 | 1,025 | 1.45 | 0.98 | 728 | 14.30 | 10,408 | 10,673 | 15,074 |
| Tennessee | 4,830,482 | 3,805,600 | 917 | 908 | 1.27 | 1.10 | 712 | 16.99 | 12,097 | 10,985 | 15,355 |
| Texas | 13,486,868 | 12,568,265 | 881 | 705 | 1.07 | 1.42 | 855 | 16.08 | 13,746 | 9,692 | 14,750 |
| Utah | 1,445,088 | 1,319,263 | 939 | 722 | 1.10 | 1.38 | 783 | 17.27 | 13,521 | 9,767 | 14,811 |
| Vermont | 503,139 | 468,863 | 1,022 | 855 | 1.07 | 1.17 | 796 | 15.93 | 12,674 | 10,833 | 13,601 |
| Virginia | 5,576,132 | 4,692,071 | 899 | 835 | 1.19 | 1.20 | 727 | 17.59 | 12,787 | 10,681 | 15,196 |
| Washington | 4,602,920 | 3,908,217 | 918 | 832 | 1.18 | 1.20 | 661 | 16.24 | 10,733 | 8,929 | 12,641 |
| West Virginia | 1,406,285 | 1,274,453 | 873 | 770 | 1.10 | 1.30 | 681 | 18.48 | 12,581 | 9,691 | 13,883 |
| Wisconsin | 3,971,550 | 3,723,685 | 936 | 770 | 1.07 | 1.30 | 735 | 18.07 | 13,290 | 10,229 | 14,175 |
| Wyoming | 562,048 | 343,093 | 938 | 1,168 | 1.64 | 0.86 | 981 | 13.35 | 13,095 | 15,289 | 21,452 |
| U.S. TOTAL | 206,365,156 | 179,539,340 | 881 | 778 | 1.15 | 1.29 | 711 | 16.92 | 12,028 | 9,357 | 13,825 |

Urbanized Areas with Populations Above 750,000

| Urbanized Area | Location |  | Estimated Urbanized Population $(1,000)$ | Federal-Aid Urbanized Land Area (Sq. Miles) | Persons per Square Mile | Total Highway Mileage | Total Freeway/ Expressway Mileage | Total Freeway Miles Per Urbanized Population | Total DailyHighwayVehicle-Miles$(1,000)$ | Total DailyFreewayVehicle-Miles$(1,000)$ | Daily <br> Vehicle- <br> Miles per Capita | Average AADT* Total | \% of Travel <br> Served by <br> Freeways | Average AADT on Freeways |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prime State | Other <br> State(s) |  |  |  |  |  |  |  |  |  |  |  |  |
| New York-Northeastern NJ | NY | NJ | 16,320 | 3,962 | 4,119 | 37,513 | 1,143 | 70.0 | 246,964 | 95,035 | 15.1 | 6,583 | 38.4 | 83,145 |
| Los Angeles | CA |  | 12,222 | 2,226 | 5,490 | 26,663 | 630 | 51.5 | 264,941 | 117,798 | 21.6 | 9,937 | 44.4 | 186,980 |
| Chicago-Northwestern IN ${ }^{1}$ | IL | IN | 7,961 | 2,731 | 2,915 | 23,642 | 475 | 59.7 | 152,256 | 46,943 | 19.1 | 6,440 | 30.8 | 98,827 |
| Philadelphia ${ }^{1}$ | PA | NJ | 4,538 | 1,350 | 3,361 | 13,234 | 345 | 76.0 | 73,690 | 21,383 | 16.2 | 5,568 | 29.0 | 61,979 |
| San Francisco-Oakland | CA |  | 3,890 | 1,152 | 3,376 | 9,295 | 331 | 85.1 | 81,023 | 42,795 | 20.8 | 8,717 | 52.8 | 129,290 |
| Detroit | MI |  | 3,768 | 1,304 | 2,889 | 12,915 | 281 | 74.6 | 86,811 | 29,262 | 23.0 | 6,722 | 33.7 | 104,135 |
| Washington ${ }^{23}$ | DC | MD, VA | 3,449 | 999 | 3,452 | 9,959 | 308 | 89.3 | 79,506 | 32,687 | 23.0 | 7,983 | 41.1 | 106,126 |
| Dallas-Forth Worth | TX |  | 3,363 | 1,712 | 1,964 | 17,839 | 567 | 168.6 | 100,272 | 41,069 | 29.8 | 5,621 | 40.9 | 72,432 |
| Houston | TX |  | 3,059 | 1,538 | 1,988 | 15,443 | 424 | 138.6 | 78,735 | 35,151 | 25.7 | 5,098 | 44.6 | 82,903 |
| Boston | MA |  | 2,878 | 1,139 | 2,526 | 9,930 | 215 | 74.7 | 57,605 | 21,375 | 20.0 | 5,801 | 37.1 | 99,418 |
| San Diego | CA |  | 2,561 | 727 | 3,522 | 5,939 | 240 | 93.7 | 55,622 | 28,983 | 21.7 | 9,366 | 52.1 | 120,762 |
| Atlanta | GA |  | 2,449 | 1,757 | 1,393 | 12,117 | 298 | 121.7 | 89,530 | 35,086 | 36.5 | 7,389 | 39.1 | 117,738 |
| Phoenix | AZ |  | 2,340 | 1,054 | 2,220 | 9,233 | 132 | 56.4 | 50,430 | 13,344 | 21.5 | 5,462 | 26.4 | 101,090 |
| Minneapolis-St. Paul | MN |  | 2,263 | 1,192 | 1,898 | 10,397 | 306 | 135.2 | 51,946 | 22,932 | 22.9 | 4,996 | 44.1 | 74,941 |
| Baltimore ${ }^{3}$ | MD |  | 2,107 | 712 | 2,959 | 6,420 | 270 | 128.1 | 42,214 | 19,772 | 20.0 | 6,575 | 46.8 | 73,229 |
| Miami-Hialeah | FL |  | 2,058 | 546 | 3,769 | 5,607 | 118 | 57.3 | 36,233 | 11,548 | 17.6 | 6,462 | 31.8 | 97,864 |
| St. Louis | MO | IL | 1,968 | 1,057 | 1,861 | 8,069 | 295 | 149.9 | 56,082 | 23,764 | 28.4 | 6,950 | 42.3 | 80,555 |
| Seattle | WA |  | 1,948 | 844 | 2,308 | 6,937 | 250 | 128.3 | 47,735 | 22,098 | 24.5 | 6,881 | 46.2 | 88,392 |
| Tampa-St Petersburg-Clearwater | FL |  | 1,862 | 1,294 | 1,438 | 7,406 | 121 | 65.0 | 38,720 | 7,843 | 20.7 | 5,228 | 20.2 | 64,818 |
| Denver | CO |  | 1,770 | 720 | 2,458 | 6,681 | 201 | 113.6 | 37,262 | 14,882 | 21.0 | 5,577 | 39.9 | 74,039 |
| Pittsburgh | PA |  | 1,768 | 1,112 | 1,589 | 8,433 | 283 | 160.1 | 35,557 | 10,309 | 20.1 | 4,216 | 28.9 | 36,427 |
| Cleveland | OH |  | 1,767 | 838 | 2,108 | 5,562 | 224 | 126.8 | 38,349 | 16,019 | 21.7 | 6,895 | 41.7 | 71,513 |
| San Jose | CA |  | 1,593 | 358 | 4,449 | 4,081 | 126 | 79.1 | 35,425 | 14,930 | 22.2 | 8,680 | 42.1 | 118,492 |
| Fort Lauderdale-HollywoodPompano Beach | FL |  | 1,485 | 489 | 3,036 | 4,208 | 109 | 73.4 | 31,397 | 10,497 | 21.1 | 7,461 | 33.4 | 96,302 |
| Norfolk-VA Beach-Newport News | VA |  | 1,429 | 952 | 1,501 | 5,390 | 167 | 116.9 | 32,004 | 10,664 | 22.3 | 5,938 | 33.3 | 63,856 |
| Portland-Vancouver | OR | WA | 1,355 | 469 | 2,889 | 5,545 | 136 | 100.4 | 29,305 | 11,610 | 21.6 | 5,285 | 39.6 | 85,367 |
| Kansas City | MO | KS | 1,339 | 1,034 | 1,294 | 7,411 | 364 | 271.8 | 37,329 | 16,937 | 27.8 | 5,037 | 45.3 | 46,530 |
| Riverside-San Bernardino | CA |  | 1,325 | 513 | 2,582 | 4,738 | 138 | 104.2 | 29,388 | 14,986 | 22.1 | 6,203 | 50.9 | 108,594 |
| Milwaukee | WI |  | 1,250 | 512 | 2,441 | 4,966 | 114 | 91.2 | 30,681 | 8,803 | 24.5 | 6,178 | 28.6 | 77,219 |
| Sacramento | CA |  | 1,217 | 382 | 3,185 | 4,059 | 105 | 86.3 | 26,583 | 10,755 | 21.8 | 6,549 | 40.4 | 102,428 |
| San Antonio | TX |  | 1,193 | 485 | 2,459 | 5,139 | 211 | 176.9 | 29,581 | 13,279 | 24.7 | 5,756 | 44.8 | 62,993 |
| Cincinnati | OH | KY | 1,161 | 630 | 1,842 | 5,217 | 169 | 145.6 | 30,974 | 13,871 | 26.6 | 5,937 | 44.7 | 82,076 |
| Orlando ${ }^{1}$ | FL |  | 1,084 | 667 | 1,625 | 3,578 | 149 | 137.5 | 26,777 | 7,694 | 24.7 | 7,484 | 28.7 | 51,637 |
| Las Vegas | NV |  | 1,074 | 270 | 3,977 | 2,894 | 72 | 67.0 | 16,779 | 5,504 | 15.6 | 5,798 | 32.8 | 76,444 |
| Buffalo-Niagara Falls | NY |  | 1,073 | 564 | 1,902 | 3,946 | 139 | 129.5 | 19,729 | 5,647 | 18.3 | 5,000 | 28.6 | 40,625 |
| New Orleans | LA |  | 1,070 | 270 | 3,962 | 3,288 | 76 | 71.0 | 14,387 | 5,358 | 13.4 | 4,376 | 37.2 | 70,500 |
| Oklahoma City | OK |  | 1,027 | 711 | 1,444 | 4,657 | 146 | 142.2 | 25,683 | 8,498 | 25.0 | 5,515 | 33.0 | 58,205 |
| Indianapolis | IN |  | 993 | 422 | 2,353 | 4,106 | 130 | 130.9 | 27,653 | 10,896 | 27.8 | 6,735 | 39.4 | 83,815 |
| West Palm Beach-Boca RatonDelray Beach | FL |  | 967 | 556 | 1,739 | 2,595 | 86 | 88.9 | 18,510 | 6,814 | 19.1 | 7,133 | 36.8 | 79,232 |
| Memphis | TN | AR, MS | 964 | 409 | 2,356 | 3,205 | 87 | 90.2 | 20,940 | 5,725 | 21.7 | 6,534 | 27.3 | 65,804 |
| Providence-Pawtucket | RI | MA | 900 | 516 | 1,744 | 4,324 | 117 | 130.0 | 17,705 | 7,331 | 19.6 | 4,095 | 41.4 | 62,658 |
| Columbus | OH |  | 898 | 476 | 1,886 | 3,400 | 149 | 165.9 | 23,947 | 10,980 | 26.6 | 7,043 | 45.8 | 73,691 |
| Salt Lake City | UT |  | 862 | 353 | 2,441 | 2,946 | 81 | 94.0 | 18,558 | 6,947 | 21.5 | 6,299 | 37.4 | 85,765 |
| Jacksonville | FL |  | 819 | 727 | 1,126 | 3,649 | 139 | 169.7 | 21,522 | 8,150 | 26.2 | 5,898 | 37.8 | 58,633 |
| Louisville | KY | IN | 782 | 384 | 2,036 | 3,362 | 138 | 176.5 | 23,327 | 9,310 | 29.8 | 6,938 | 39.9 | 67,463 |
| Tulsa | OK |  | 757 | 395 | 1,916 | 2,749 | 113 | 149.3 | 16,729 | 5,631 | 22.0 | 6,085 | 33.6 | 49,831 |

- Annual average daily traffic
 Florida is reported with Orlando; and the Illinois portions of Aurora, Danville, Elgin, Crystal Lake, Joliet and Round Lake Beach are reported with Chicago. Other anomalies may exist.
FHWA estimates used for District of Columbia portion of the Washington urbanized area
1995 data used for the District of Columbia and Maryland portions of the Washington, D. C. urbanized area and for all Maryland urbanized areas
SOURCE: All data reported by States through the Highway Performance Monitoring System. Numbers may differ from subsequently published 1990 Census data.

The following Office of Highway Information Management printed publications may be obtained by contacting Federal Highway Administration, R\&T Report Center, FAX number (301) 577-1421, telephone number (301) 577-0818. If you have questions concerning the contents of any of these reports, please call (202) 366-0180. The reports with an '**' can be found on the Office of Highway Information website at: http://www.fhwa.dot.gov/ohim

1. Highway Statistics Summary to 1995, FHWA-PL-97-009**
2. Highway Statistics 1996, (Annual), FHWA-PL-98-003**
3. Highway Taxes and Fees, How They Are Collected and Distributed, 1995 (Biennial), FHWA PL-95-036
4. Traffic Monitoring Guide, February 1995, FHWA PL-95-031**
5. Nationwide Personal Transportation Survey Reports:

1990 NPTS:
5.1 Data Volume Books I FHWA PL-94-010A**
5.2 Data Volume Book II FHWA PL-94-010B**
5.3 Urban Travel Patterns FHWA PL-94-018
5.4 Travel Mode Special Reports FHWA PL-94-019
5.5 Demographic Special Reports FHWA PL-95-032
5.6 Special Report on Trip \& Vehicle Attributes FHWA PL-95-033
5.7 Summary of Travel Trends FHWA-PL-92-027
5.8 Travel Behavior Issues in the 90's FHWA-PL-93-012

## 1995 NPTS:

5.9 Our Nation's Travel - 1995 NPTS Early Results Report FHWA-PL-97-028** 5.10 Transportation User's View of Quality FHWA-PL-98-013**

Nationwide Personal Transportation Survey Electronic Media:
1983-1990 NPTS CD-ROM (For copies: FAX (202) 366-3640)
1995 NPTS CD-ROM (FHWA-PL-97-034) (For copies: (301) 577-0818, or FAX (301) 577-1421)
1990 NPTS Website: http://www-cta.ornl.gov/npts/1990/index.html 1995 NPTS Website: http://www-cta.ornl.gov/npts
6. Driver License Administration Requirements and Fees, 1996, FHWA PL-96-011**
7. Journey-to-Work Trends in the United States and its Major Metropolitan Areas 1960-1990, FHWA PL-94-012**
8. New Perspectives in Commuting, 1992, FHWA PL-92-026
9. A Customer's Guide to Using Highway Statistics, 1996, FHWA-PL-96-028

These reports may be obtained from the Office of Highway Information Management, Federal Highway Administration, FAX number (202) 366-7742, telephone number (202) 366-0180.

1. Monthly Motor Fuel Reported by States, (Monthly), FHWA PL-97-005**
2. Toll Facilities in the United States, 1995, FHWA-PL-95-034**
3. Traffic Volume Trends (Monthly)**
4. The Highway Performance Monitoring System (Brochure), FHWA PL-94-031**
5. Bulletin-Highway Funding 1992-1995, FHWA**

| AADT | Average Annual Daily Traffic |
| :---: | :---: |
| AAMA | American Automobile Manufacturers Association |
| AV/SF | Average Volume/Service Flow |
| BTS | Bureau of Transportation Statistics |
| CAAA | Clean Air Act Amendments |
| CO | Carbon Monoxide |
| DOT | Department of Transportation |
| EPA | Environmental Protection Agency |
| FHWA | Federal Highway Administration |
| FY | Fiscal Year |
| GDP | Gross Domestic Product |
| HS95 | Highway Statistics 1995 |
| HTF | Highway Trust Fund |
| POV | Privately Owned Vehicle |
| IRI | International Roughness Index |
| IS | Interstate System |
| ISTEA | Intermodal Surface Transportation Efficiency Act of 1991 |
| MF | Motor Fuel |
| MPG | Miles Per Gallon |
| NAAQS | National Ambient Air Quality Standard |
| NHS | National Highway System |
| NHTSA | National Highway Traffic Safety Administration |
| NPTS | Nationwide Personal Transportation Survey |
| $\mathrm{O}_{3}$ | Ozone |
| PM-10 | Particulate Matter less than 10 Microns |
| PSI | Pollutant Standards Index |
| STRAHNET | Strategic Highway Network |
| US | United States |
| VMT | Vehicle-Miles of Travel |

Notes

