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STATISTICS
ANNUAL
REPORT

2007



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2007

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Preface

Congress requires the Bureau of Transportation Statistics (BTS) of the Research and Innovative Technology Administration (RITA) to report on transportation statistics to the President and Congress. This *Transportation Statistics Annual Report* is the 13th such report prepared in response to this congressional mandate, laid out in 49 U.S.C. 111 (1). In addition to presenting the state of transportation statistics, the report focuses on transportation indicators pertinent to the Strategic Plan of the U.S. Department of Transportation; the RITA report, *Transportation Vision for 2030*; and the 13 topics specified in the Safe, Accountability, Flexible, Efficient Transportation Equity Act: a Legacy for Users, under 49 U.S.C. III(c)(5).

The BTS publication, *National Transportation Statistics* (NTS), a companion to this annual report, has more comprehensive and longer time-series data than could be accommodated here. NTS, which is updated regularly, is available online at www.bts.gov.

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Chapter 1

Summary

Summary

This edition of the *Transportation Statistics Annual Report* (TSAR) presents selected transportation data on topics specified in the legislative mandate of the U.S. Department of Transportation's Research and Innovative Technology Administration, Bureau of Transportation Statistics (RITA/BTS). The data, presented in chapter 2 and summarized here, are grouped under headings that correspond to the U.S. Department of Transportation's strategic goals and the *Transportation Vision for 2030*¹. The discussion begins with context information about the extent and condition of the transportation system, vehicle characteristics, and traffic flows. In most cases, the data cover the 10 most recent years for which data are available. An appendix provides information on U.S. population, labor force, and economic conditions—variables that influence travel behavior and goods movement. Maps showing safety belt laws and use, per capita transportation revenues, and vehicle miles of travel (VMT) are also included in the appendix.

The legislative mandate, SAFETEA-LU², also requires RITA/BTS to make recommendations for improving transportation statistical information and to document methods used to obtain and ensure the quality of the report's statistics. These two subjects are discussed in chapter 3. The focus for improvements is on data gaps, including gaps that may arise because of suspension of several data collection efforts. The chapter also discusses methodological guidelines that apply to federal data quality; documentation on specific data accompanies each table in chapter 2.

For the reader's convenience, the following table lists each of the topics covered by this report in the order of their appearance in the law. Congress modified and expanded this list in its 2005 establishment of RITA and the reauthorization of BTS.

¹ U.S. Department of Transportation, Research and Innovative Technology Administration, *Transportation Vision for 2030*, Washington DC, January 2008.

² Safe, Accountable, Flexible, Efficient Transportation Equity Act: a Legacy for Users. 49 U-S-C-111.

Data Reporting Requirements in 49 U.S.C. 111(c)(5)

| Subsection | Topic |
|-------------------|--|
| A | Productivity in various parts of the transportation sector |
| B | Traffic flows for all modes of transportation |
| C | Other elements of the Intermodal Transportation Database established under subsection (e) of 49 U.S.C. 111 |
| D | Travel times and measures of congestion |
| E | Vehicle weights and other vehicle characteristics |
| F | Demographic, economic, and other variables influencing traveling behavior, (including choice of transportation mode) and goods movement |
| G | Transportation costs for passenger travel and goods movement |
| H | Availability and use of mass transit (including number of passengers served by each mass transit authority) and other forms of for-hire passenger travel |
| I | Frequency of vehicle and transportation facility repairs and other interruptions of transportation service |
| J | Safety and security for travelers, vehicles, and transportation systems |
| K | Consequences of transportation for the human and natural environment |
| L | The extent, connectivity, and condition of the transportation system, building on the National Transportation Atlas Database developed under subsection (g) of 49 U.S.C. 111 |
| M | Transportation-related variables that influence the domestic economy and global competitiveness. |

The Transportation System

The United States, the fourth largest country in the world by land area, has developed an extensive transportation system to serve its 300 million residents and 7 million business establishments. Americans travel extensively as they go to and from work, run errands and shop, transport children, visit their family and friends, take vacations, enjoy leisure time pursuits, and engage in other activities. U.S. businesses depend on the transportation system as they move their goods to markets here and abroad, set up supply chains and distribution networks, and send employees throughout the country and the world to conduct business. Trucks are the most widely used means of transporting freight in domestic transportation, but rail, water, and pipeline together account for a majority of ton-miles. Both passenger travel and freight shipments require an interconnected system of transportation modes to function effectively.

Table 1
Key Elements of the U.S. Transportation System*

Air

Extent

5,233 public use airports (2006)
14,757 private use airports (2006)

Aircraft and use

8,024 certificated air carrier aircraft (2007), 6.6 billion airplane-miles traveled (2007), 592.4 billion passenger-miles traveled; 11.2 billion revenue ton-miles of freight (domestic, scheduled)

Passenger and freight companies

17 major air carriers, 85 companies total, 501 thousand employees

Highways

Extent

2,601,490 miles of paved roads; 8,371,704 lane miles of paved roads
1,408,757 miles of unpaved roads
599,893 highway bridges (2007)

Personal vehicles and light trucks

136,568,083 passenger cars; 1,689,965 million vehicle-miles traveled;
2,670,145 million person-miles traveled
95,336,839 light trucks; 1,059,590 million vehicle-miles traveled;
1,836,988 person-miles traveled
6,227,146 motorcycles; 10,770 million vehicle-miles traveled;
13,677 million person-miles traveled

Heavy truck vehicles and use

8,481,999 heavy trucks; 222,836 million vehicle-miles traveled

Pipeline

Extent

159,512 miles of hazardous liquid pipeline
296,400 miles of natural gas gathering and transmission pipeline
1,117,800 miles of natural gas distribution pipeline

Pipeline operators

292 hazardous liquid pipeline operators

* 2005 (unless otherwise noted)

(continued)

(Table 1 continued)

945 natural gas transmission pipeline operators
 1,291 natural gas distribution pipeline operators

38 thousand employees

Rail

Extent

95,830-miles operated by Class I railroads
 15,388-miles operated by Regional railroads
 29,197-miles operated by Local railroads
 22,007-miles operated by Amtrak

505 Amtrak stations (2006)

Equipment and use

474,839 thousand Class I freight cars; 1,696,425 million revenue ton-miles of freight
 22,779 Class I locomotives

1,186 Amtrak-owned passenger cars in service; 25,076,496 revenue passengers carried
 258 Amtrak-owned locomotives in service

Freight rail

7 Class I companies with 162,438 employees
 30 Regional companies with 7,322 employees
 523 Local companies with 12,047 employees

Passenger rail (Amtrak)

19,234 employees (average)

Transit

Extent

165,854 directional route-miles of bus (2004)
 8,076 directional route-miles of commuter rail
 1,622 directional route-miles of heavy rail
 1,188 directional route-miles of light rail

Vehicles and use

82 thousand buses; 21,825 million passenger-miles; 5,855 million unlinked trips
 11 thousand heavy rail cars; 14,418 million passenger-miles; 2,808 million unlinked trips
 6 thousand commuter rail cars and locomotives; 9,473 million passenger-miles; 423 million unlinked trips

(continued)

(Table 1 continued)

1.4 thousand light rail cars; 1,700 million passenger-miles; 381 million unlinked trips
42 thousand demand response vehicles

Transit agencies

6,429 transit agencies, 366.8 thousand employees

Water

Extent

26 thousand miles of navigable waterways

Vessels

32,052 nonself propelled vessels; 8,976 self-propelled vessels; 357 oceangoing steam and motor ships in the U.S.-flag domestic fleet

Marine vessel operators

773 marine vessels operators; 61 thousand employees

SOURCES:

Air: Airports—U.S. Department of Transportation, Federal Aviation Administration, *Administrator's Factbook* (Washington, DC: March 2006). Number of Aircraft—Aerospace Industries Association, *Aerospace Facts and Figures 2005/6* (Washington, DC: 2006), p. 90. VMT, PMT, ton-miles—U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Office of Airline Information, *Air Carrier Traffic Statistics* (Washington, DC: Annual December issues). Passenger and Freight Companies—U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics*, table 1-2, available at <http://www.bts.gov/>. Employees—U.S. Department of Labor, Bureau of Labor Statistics Data, *National Employment Hours and Earnings*, table B-1.

Highways: Public Roads—U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics 2005* (Washington, DC: 2006), table HM-12. Lane Miles—*ibid*, table HM-48. Vehicles, VMT, PMT—*ibid*, table VM-1. Bridges—U.S. Department of Transportation, Federal Highway Administration, Office of Bridge Technology, National Bridge Inventory Database, available at <http://www.fhwa.dot.gov/bridge/brtab.htm>.

Pipeline: Mileage—Oil: U.S. Department of Transportation, Pipeline and Hazardous Materials Administration, Office of Pipeline Safety, Pipeline Statistics, Internet site <http://ops.dot.gov/stats.htm>. Natural Gas: American Gas Association, *Gas Facts, 2005* (Arlington, VA: 2006), table 5-1. Pipeline Operators—U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics*, table 1-2, available at <http://www.bts.gov/>.

Rail: Miles of track, Equipment, Passenger and Freight Companies, Amtrak pmt, Employees—Association of American Railroads, *Railroad Facts 2006* (Washington, DC: 2006). Stations—Amtrak, State Fact Sheets, available at <http://www.amtrak.com/>.

Transit: American Public Transit Association, *Public Transportation Fact Book* (Washington, DC: various years).

Water: Navigable Waterways—U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics*, table 1-1, available at <http://www.bts.gov/>. Vessels—U.S. Department of Transportation, Maritime Administration, *Top 20 Merchant Fleet of the World* (Washington, DC: 2006). Operators—U.S. Army Corps of Engineers, *Waterborne Transportation Lines of the United States, Volume 1, National Summaries* (New Orleans, LA: Annual issues). Employees—U.S. Department of Labor, Bureau of Labor Statistics Data, *National Employment Hours and Earnings*, table B-1.

Extent, connectivity, and condition of the transportation system

Extent (chapter 2, section A)

- The United States has about 4 million miles of highways, 117,837 miles of railroad, about 1.6 million miles of oil and gas pipelines, and approximately 26,000 miles of navigable waterways. [A-1] If laid end to end, the nation's waterways would circle the Earth once, its railroads would circle the Earth nearly 5 times; its pipelines 64 times, and its roads 160 times.
- It has 5,233 public use airports, 9,399 waterway facilities, 2,936 rail transit stations, and 505 Amtrak railway stations. [A-3, A-4, A-5]
- Transportation capital stock, a measure of the amount of productive assets (buildings, structures, machinery, and equipment) in use at a particular time, reached \$5.5 trillion in 2005, \$2.5 trillion more than in 1995. Although highways and consumer motor vehicles constitute over \$3.4 trillion of the total, all components have grown—with air growing fastest (more than doubling) between 1995 and 2005. [A-7]
- In 2005, there were over 247 million highway motor vehicles (42 million more than in 1995), nearly 13 million recreational boats and vessels, 1.3 million rail-cars and locomotives, and 232,577 general aviation and commercial airplanes in the United States. [A-6]
- Freight was hauled in over 9 million trucks (not including pickup trucks and other light trucks), rail cars, water vessels, and airplanes in 2005. [A-6]

Condition (chapter 2, section A)

- The condition of interstates generally improved between 1995 and 2005, although some road categories (rural and urban collectors and urban minor arterials) showed a higher percentage of roads in poor or mediocre condition. [A-8]
- The number of structurally deficient highway bridges declined between 1995 and 2006 while the total number of bridges increased; however, the percent of functionally deficient bridges increased between 1997 and 2006. [A-9]
- Seventy-seven percent of airports identified in the National Plan of Integrated Airport Systems (NPIAS) as significant to national air transportation were in “good” condition in 2006; only 4 percent were in poor condition. [A-10]

Vehicle weights and other vehicle characteristics (chapter 2, section A)

- The median age of passenger cars in 2006 was 9.2 years. [A-14]
- The average age of full-size transit buses in 2005 was 7.6 years. [A-15]
- The average age of all commercial aircraft in 2005 was 11.3 years. [A-18]

- Between 1998 and 2005, the average freight loading capacity of oceangoing vessels calling at U.S. ports has increased by nearly 4,800 deadweight tons. [A-12]
- Average loaded railcar weights have declined from the high point during the period of 1995 to 2005 (65.3 tons in 1995 to 61 tons in 2005). [A-13]

Box 1

Personal Travel

- In 2006, 8.8 percent of U.S. households were without a vehicle. [A-19]
- 76 percent of people commuting drive themselves to work, while only 4.8 percent use mass transportation. [A-20]
- The largest percent (15.1 percent in 2003 and 14.9 percent in 2006) of households depart to work between 7:00 am and 7:29 am. [A-21]

Safety and Security

Safety and security for travelers, vehicles, and transportation systems

Safety (chapter 2, section B)

- There were 45,346 fatalities in transportation accidents in the United States in 2006, of which 94 percent involved highway motor vehicles [B-1].
- In 2006, more than 42 thousand motorists and nonmotorists were killed in crashes involving motor vehicles, down 2 percent compared with 2005; and about 2.6 million people were injured. [B-1, B-4]
- There were 1.43 fatalities per 100 million vehicle-miles of highway travel in 2006, the lowest rate ever recorded by the U.S. Department of Transportation. [B-1, C-26]
- A total of 30,521 passenger vehicle (including light trucks, i.e., SUV's, vans, etc.) occupants were killed in traffic crashes in 2006, down 0.3 percent since 2005. [B-2]
- There were 5,557 pedestrians and pedalcyclists killed in traffic crashes in 2006. [B-1]
- 4,810 motorcyclists were killed in traffic crashes in 2006, 5 percent more than in 2005. [B-1]
- There were 213 transit related fatalities in 2006, down 9.7 percent from 2005. [B-1]
- 68 people were killed in U.S. domestic commercial aviation accidents (including air carriers, commuter carriers, and air taxis) in 2006, while 698 fatalities resulted from general aviation accidents. [B-1]
- There were 48 waterborne commercial vessel-related fatalities and 710 recreational boating fatalities in 2006. [B-1]

- There were 19 gas pipeline fatalities in 2006. [B-1]
- Of the 909 railroad-related fatalities in 2006, 369 fatalities were at highway-rail grade crossings, and the other 540 fatalities were primarily trespasser-related. [B-1]
- An estimated 2.6 million people suffered some kind of transportation-related injury in 2006. About 99 percent of these injuries resulted from highway crashes. [B-4]

Security (chapter 2, section F)

- The transportation sector used 19 percent more energy in 2006 (28.4 quadrillion British thermal units—Btu) than it did in 1995 (23.85 quadrillion Btu). [F-1]
- Transportation consumed 67.9 percent of U.S. petroleum usage in 2006. [F-3]
- Travel in passenger cars was 7.1 percent more energy efficient in 2005 than in 1995. [F-4]
- The total number of prohibited items intercepted at airport screening checkpoints more than doubled between 2004 and 2005; the large increase was primarily due to the prohibition of lighters on board beginning in April 2005. [F-5]
- The number of firearms intercepted at airport screening checkpoints jumped from 650 in 2004 to 2,217 in 2005. [F-5]
- The number of international piracy and armed robberies at sea steadily declined from 452 in 2003 to 241 in 2006. [F-6]

Congestion and other impediments to use of the transportation system

Travel times and measures of congestion (chapter 2, section C)

- Highway travel times increased between 1995 and 2005 in all but 15 of the 85 urban areas (82 percent) studied by the Texas Transportation Institute. [C-1]
- It took 30 percent longer, on average, in 2005 to make a peak period trip in these 85 urban areas compared with the time it would take if traffic were flowing freely. [C-1]
- About 75 percent of domestic air flights or reporting carriers arrived on time in 2006, compared with 79 percent in 1995. In 2007, the percentage of on time operations dropped to 73 percent. [C-3]
- Sixty-eight percent of Amtrak trains arrived at their final destination on-time in 2006. Short-distance trains—those with runs of less than 400 miles—consistently registered better on-time performance than long-distance trains. [C-4]
- Average line-haul speed of Class I freight railroads has been generally decreasing since a peak in early 2002. Between the second quarter 2002 and the fourth quarter 2006 line-haul speed decreased 14 percent. [C-6]
- The average wait time in 2004 for passenger vehicles crossing the border between the United States and Canada was 5.9 minutes and 14.6 minutes for those between the United States and Mexico. The average wait time in 2004 for commercial vehicles entering the United States from Canada was 8.5 minutes and 7.3 minutes for those entering from Mexico. [C-8, C-7]

Frequency of vehicle and transportation facility repairs and other interruptions of transportation service (chapter 2, section C)

- There were over 2.4 million roadside truck inspections in 2006, with 552 thousand out-of-service orders issued for serious violations. [C-9]
- In 2005, rail companies replaced 424,000 tons of rail (36 percent fewer than in 1995 and 42 percent fewer than in 2000) and 13.4 million crossties (11 percent more than in 1995 and 24 percent more than in 2000). Railroads also periodically replace or rebuild locomotives and freight cars. On average, new and rebuilt locomotives made up almost 4.3 percent of Class I railroad fleets between 1995 and 2005. [C-10, C-11, C-12]
- Transit service interruptions per 100,000 vehicle-miles for all types of transit decreased 19.9 percent between 1995 and 2000 and 6.9 percent between 2001 and 2005. [C-13]
- Fifty-five percent of downtime at St. Lawrence Seaway locks in 2006 was a result of vessel incidents; the next largest cause of downtime was weather. [C-14]

Availability and use of mass transit and other forms of for-hire passenger transportation (chapter 2, section C)

- U.S. domestic commercial airlines carried 692.1 million passengers in 2006. [C-16]
- Total domestic enplanements in the U.S. increased 31 percent between 1995 and 2006. [C-16]
- Amtrak carried 24.5 million riders in fiscal year 2006. Ridership increased 21 percent between 1995 and 2006. [C-18]
- Approximately 66 percent of all unlinked transit passenger trips (6.5 billion of 9.8 billion trips in 2005) were within the service area of only 20 transit agencies. New York City alone accounted for 28 percent of all transit trips in 2005. [C-19]
- There were 49.7 billion transit passenger-miles traveled (PMT) in 2005 compared with 39.8 billion PMT in 1995, an increase of 25 percent. As they have historically, transit buses had the largest PMT share in 2005, generating 22 billion PMT or 44 percent of all transit PMT. [C-21]
- Measured in unlinked trips, transit ridership has grown 22 percent since 1995 to 9.2 billion unlinked trips in 2005. Bus ridership comprised the majority of unlinked trips (5.2 billion) in 2005. However, rail transit ridership, with 3.6 billion trips in 2005, posted stronger growth (37.5 percent) between 1995 and 2005. [C-22]
- As of 2005, 59.5 percent of transit rail stations had complied with the Americans with Disabilities Act (ADA) accessibility requirements, up from 28.3 percent in 1995. Ninety-nine (99) percent of transit buses, also subject to ADA requirements, were equipped with lifts or ramps by 2006. [C-23, C-24]

Traffic flows for all modes of transportation (chapter 2, section C)

- U.S. vehicle-miles of travel (VMT) for all modes of transportation reached 3 trillion in 2005, compared to 2.4 trillion in 1995. Vehicle-miles grew for all modes, but the most rapid VMT growth was for air carriers, which increased by 45.3 percent. [C-26]
- Passenger-miles of travel (PMT) in the United States exceeded 5.0 trillion in 2005, or about 17,800 miles for the average person. [C-27]
- 86 percent of PMT in 2005 was in personal vehicles (passenger cars and light trucks, which include sport utility vehicles, pickup trucks, and minivans). Air carriers accounted for another 11 percent of PMT. [C-27]
- Vehicle-miles of transit grew by 25.9 percent between 1995 and 2004, to almost 4.5 billion miles, while passenger-miles on transit grew 23.3 percent to over 49 billion. [C-26, C-27]
- Freight ton-miles within the United States amounted to over 4.5 trillion in 2005, compared to about 4.1 trillion in 1995. [C-28]

Global Connectivity

Transportation-related variables that influence the domestic economy and global competitiveness (chapter 2, section D)

- The United States traded \$401.2 billion worth (in current dollars) of transportation-related goods (e.g., cars, trains, boats, and airplanes and their related parts) in 2006 with its partners. As is the case with its overall international trade, the United States had a merchandise trade deficit in transportation-related goods (with an excess of imports over exports) totaling \$71.4 billion in 2006. [D-1]
- U.S. trade in transportation services in 2006 totaled \$163.2 billion (in current dollars). The United States had a surplus in transportation services from 1995 through 1997. The trade surplus in 1995 was \$3.3 billion. By 2006, however, 57 percent of trade was imports (payments to foreign countries), resulting in trade deficit of \$22.6 billion. [D-3]
- Truck remains the dominant mode for transporting U.S.-North American freight followed by rail, pipeline, maritime, air, and other unknown modes. Between 1996 and 2006, trucks accounted for most of the growth in the value of U.S.-North American freight. [D-4]
- In 2006, the ports of Los Angeles and Long Beach, CA, handled 38 percent of U.S. maritime container volume. This represents a 9.4 percent average annual growth rate since 2001. Savannah, GA, has grown the most between 2001 and 2006 (with an annual average growth rate of 14.2 percent). [D-5]
- In 2006, the United States ranked second in the world in terms of maritime container volume and first in terms of U.S. Gross Domestic Product (GDP). In 2006, U.S. share of world volumes and GDP were 11.1 and 27.3 percent, respectively. [D-7]

International vehicle and passenger traffic (chapter 2, section D)

- In 2006, over 242 million people (both U.S. residents and residents of other countries) crossed into the United States from Canada and Mexico in personal vehicles, compared to nearly 266 million in 1995 and almost 331 million in 1999, the high point. The number of pedestrians crossing into the country in 2006 was 46.8 million, compared to 33.5 million in 1995, and down from a high of 52.3 million in 2001. [D-12, D-15]
- In 2006, 11.4 million trucks crossed into the United States from Mexico and Canada, and 1.8 million full rail containers crossed into the United States. [D-8, D-11]

Energy and Environment

Consequences of transportation for the human and natural environment (chapter 2, section E)

- Highway vehicles emitted 82% of all transportation carbon dioxide emissions in 2005. [E-2]
- Transportation emitted 54% of the nation's pollution from carbon monoxide, 36% of nitrogen oxides, 22% of volatile organic compounds, and 1.4% of sulfur dioxide in 2006. All of these emissions have declined in the last decade despite a rise in vehicle-miles of travel. [E-3]

Transportation and the Economy

Productivity in various parts of the transportation sector (chapter 2, section G)

- Labor productivity for the rail sector increased 50 percent from 1995 to 2005. Despite a decline of 6 percent between 2000 and 2001, air transportation labor productivity grew 43.2 percent over the entire period. [G-1]
- Multifactor productivity of all business sectors combined increased 17 percent, while multifactor productivity in rail and air transportation increased by 50.5 and 42.4 percent, respectively, from 1995 to 2005. [G-2]
- Transportation-related demand accounted for over 10.3 percent of U.S. Gross Domestic Product (GDP) in 2005. This broad measure includes consumer and government purchases of goods and services ranging from vehicles, fuels, and insurance to road building and public transportation. [G-5]
- The contribution of for-hire transportation services to the U.S. economy, as measured by their value added (or net output), increased (in chained 2000 dollars) from \$242.7 billion in 1995 to \$335.2 billion in 2005. In the same time period, this segment's share in the GDP fluctuated slightly, at around 3 percent. [G-4]
- Over 13 million people worked in a transportation-related job in the United States in 2006. That is equal to approximately 1 out of every 10 workers. [G-6]

Transportation costs for passenger travel and goods movement (chapter 2, section G)

- U.S. households spent \$8,344, on average, on transportation in 2005 – second in spending behind housing. [G-15]
- Driving an automobile 15,000 miles per year cost \$0.52 per mile in 2005, or 24 percent more than it did in 1995, when total costs per mile were \$0.42. [G-18]
- The average transit fare increased from 88¢ to \$1.02 between 1995 and 2005. [G-16]
- On average, intercity trips via Amtrak cost \$56.45 in 2006, up 30 percent from \$43.31 in 1996. Meanwhile, average intercity Class I bus fares rose 32 percent, from \$22.9 to \$30.1, between 1996 and 2002. [G-16]
- The RITA/BTS “U.S. origin only” Air Travel Price Index (ATPI) increased 14 percent between the first quarter of 1995 and the fourth quarter of 2006. During the same period, the ATPI “Foreign origin only” index decreased 5 percent. [G-17]

Box 2

Government Transportation Revenues and Expenditures

The Research and Innovative Technology Administration's Bureau of Transportation Statistics gathers Government Transportation Financial Statistics (GTFS) data from various sources — including the Office of Management and Budget, the U.S. Census Bureau, the Federal Highway Administration, the Federal Aviation Administration, the United States Army Corps of Engineers, the Saint Lawrence Seaway Development Corporation, the National Aeronautics and Space Administration, and other federal government agencies — that provide statistics on transportation-related revenues and expenditures of the federal, state and local governments for all modes of transportation. GTFS also contains federal budget authority and obligations, and grants to state and local governments. Statistics on federal expenditures, budget authority and obligations are provided at the agency and program level.

- Federal, state, and local government transportation revenues targeted to finance transportation programs increased 8.5 percent from \$114.2 billion in 1995 to \$123.9 billion in 2003 (in chained 2000 dollars). [G-19]
- Spending on building, maintaining, operating, and administering the nation's transportation system by all levels of government totaled \$219.7 billion in 2003 (chained 2000 dollars). [G-21]

State of Transportation Statistics

Data gaps in several transportation areas have emerged because of resource constraints. Some surveys providing long term benchmark data have been reduced in scope, postponed, delayed or discontinued. BTS will be unable to carryout a previously planned long distance travel survey because of funding constraints, making 2001/2002 the last year for which this survey data are available. The long distance travel surveys, also undertaken in 1995, and 1977, provided data on the number, length, origins and destinations, modes of transportation, purpose, and traveler characteristics of U.S. residents making long distance trips.

Also, the Census Bureau has discontinued its Vehicle Inventory and Use Survey (VIUS), making 2002 the last VIUS. The survey is the most in depth inventory of the characteristics of the nation's highway truck fleet, covering all categories from lightweight pickups and utility vehicles through large trucks. Previous editions of this survey, and its earlier counterpart, the Truck Inventory and Use Survey, were conducted as part of Economic Census twice a decade extending back to 1963.

In addition, the U.S. Army Corps of Engineers (USACE) has discontinued one of its international maritime statistics data sets - the U.S. foreign trade-based data series. Preliminary and monthly cargo summary reports previously available on the Navigation Data Center and U.S. Department of Transportation, Maritime Administration web sites (type service, dollar value, weight) and the monthly and annual waterborne databanks were discontinued. Monthly foreign trade and transportation data will no longer be publicly available from the USACE. The foreign waterborne commerce annual data set will be publicly available but will not include cargo value.

Transportation data needs continue to be an important matter for the transportation community. The Transportation Research Board, part of the National Academy of Sciences, has enlisted its numerous committees of transportation experts and officials to identify key needs. It has suggested that TRB committees annually review data needs, priorities, and costs. In August 2007, TRB released results of discussions by State transportation officials on actions to ensure availability of data for effective transportation decision-making and opportunities for national efforts to advance transportation data systems. These opportunities are:

- to conduct "...synthesis studies to document innovative data practices, including data business plan development; protocols and management systems for sharing data within and between agencies; data reporting strategies and technologies; and studies of the uses and importance of national data bases..."

- to develop “...new data tools, such as analysis and forecasting methods to support transportation decisions; practical methods to calculate return on investments (ROI) for all transportation investments; techniques to identify and quantify the risks and benefits of alternative investment scenarios; and advanced tools for integrating real-time traffic data with transportation management and planning functions.”
- to identify “... effective designs for cooperative and collaborative interagency decisions on selection, sharing, and application of multiple data sources for decision making.”¹

¹ Transportation Research Board, Transportation Circular E-C121, *Information Assets to Support Transportation Decision-Making* (Washington, DC: Transportation Research Board of the National Academy of Sciences), December 2006, p. 2

Chapter 2

Transportation Indicators

The Extent, Connectivity, and Condition of the Transportation System

TABLE A-1 System Mileage Within the United States: 1995–2005
Miles

| | Highway | Rail | | Transit rail | | | Navigable waterways | Pipeline | |
|------|-----------|---------|--------|---------------|------------|------------|---------------------|------------------|-----------|
| | | Class I | Amtrak | Commuter rail | Heavy rail | Light rail | | Hazardous liquid | Gas |
| 1995 | 3,912,226 | 108,264 | 24,000 | 4,160 | 1,458 | 568 | 26,000 | 181,912 | 1,277,600 |
| 1996 | 3,919,652 | 105,779 | 25,000 | 3,682 | 1,478 | 638 | 26,000 | 177,535 | 1,323,600 |
| 1997 | 3,945,872 | 102,128 | 25,000 | 4,417 | 1,527 | 659 | 26,000 | 179,873 | 1,331,800 |
| 1998 | 3,906,290 | 100,570 | 22,000 | 5,172 | 1,527 | 676 | 26,000 | 178,648 | 1,351,200 |
| 1999 | 3,917,243 | 99,430 | 23,000 | 5,191 | 1,540 | 802 | 26,000 | 177,463 | 1,340,300 |
| 2000 | 3,936,222 | 99,250 | 23,000 | 5,209 | 1,558 | 834 | 26,000 | 176,996 | 1,369,300 |
| 2001 | 3,948,335 | 97,817 | 23,000 | 5,209 | 1,572 | 897 | 26,000 | 158,248 | 1,373,500 |
| 2002 | 3,966,485 | 100,125 | 23,000 | 6,831 | 1,572 | 960 | 26,000 | 160,990 | 1,411,400 |
| 2003 | 3,974,107 | 99,126 | 22,675 | 6,809 | 1,597 | 996 | 26,000 | 159,889 | 1,424,200 |
| 2004 | 3,981,512 | 97,662 | 22,256 | 6,875 | 1,596 | 1,187 | 26,000 | 161,670 | 1,462,300 |
| 2005 | 3,995,635 | 95,830 | 22,007 | 7,118 | 1,622 | 1,188 | 26,000 | 159,512 | 1,437,500 |

NOTES: *Highway* includes all public road and street mileage in the 50 states and the District of Columbia. Beginning in 1998, approximately 43,000 miles of Bureau of Land Management Roads are excluded. *Class I* rail data represent miles of road owned (aggregate length of road, excluding yard tracks, sidings, and parallel lines). Portions of Class I freight railroads, Amtrak, and commuter rail networks share common trackage. *Amtrak* data represent miles of road operated. *Transit* system length is measured in directional route-miles. Directional route-miles is the distance in each direction over which public transportation vehicles travel while in revenue service. Directional route-miles are computed with regard to direction of service, but without regard to the number of traffic lanes or rail tracks existing in the right-of-way. Beginning in 2002, directional route-mileage data for the commuter and light rail modes include purchased transportation.

Navigable waterways are estimated sums of all domestic waterways, which include rivers, bays, channels, and the inner route of the Southeast Alaskan Islands, but does not include the Great Lakes or deep ocean traffic. The Waterborne Commerce Statistics Center monitored 12,612 miles as commercially significant inland shallow-draft waterways in 2001. *Hazardous liquid pipeline* includes trunk and gathering lines for crude-oil pipeline. *Gas pipeline* mileage includes transmission, gathering, and distribution.

SOURCES: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2007*, table 1-1, available at <http://www.bts.gov/> as of April 2007.

TABLE A-2 Number of Air Carriers, Railroads, Interstate Motor Carriers, Marine Vessel Operators, and Pipeline Operators: 1995–2005

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Air carriers | 96 | 96 | 96 | 96 | 94 | 91 | 87 | 83 | 80 | 83 | 85 |
| Major air carriers | 11 | 12 | 13 | 13 | 13 | 15 | 15 | 15 | 14 | 14 | 17 |
| Other air carriers | 85 | 84 | 83 | 83 | 81 | 76 | 72 | 68 | 66 | 69 | 68 |
| Railroads | 541 | 553 | 550 | 559 | 555 | 560 | 571 | 552 | 549 | 556 | 560 |
| Class I railroads | 11 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 7 |
| Other railroads | 530 | 543 | 541 | 550 | 546 | 552 | 563 | 545 | 542 | 549 | 553 |
| Interstate motor carriers | 346,000 | 379,000 | 417,000 | 477,486 | 517,297 | 560,393 | 592,909 | 600,104 | 674,314 | 677,317 | 679,744 |
| Marine vessel operators | 1,381 | 1,348 | 1,311 | 1,235 | 1,174 | 1,114 | 1,063 | 877 | 798 | 767 | 773 |
| Pipeline operators | 2,387 | 2,346 | 2,301 | 2,260 | 2,260 | 2,172 | 2,128 | 2,171 | 2,196 | 2,216 | 2,166 |
| Hazardous gas transmission | 217 | 225 | 237 | 243 | 239 | 237 | 232 | 222 | 235 | 275 | 292 |
| Natural gas transmission | 975 | 971 | 957 | 889 | 885 | 844 | 816 | 900 | 925 | 913 | 945 |
| Natural gas distribution | 1,444 | 1,397 | 1,365 | 1,375 | 1,393 | 1,363 | 1,341 | 1,331 | 1,309 | 1,318 | 1,291 |

KEY: U = Data are unavailable.

NOTES: *Air carrier* groups are categorized based on their annual operating revenues as major, national, large regional, and medium regional. The thresholds were last adjusted July 1, 1999, and the threshold for major air carriers is currently \$1 billion. The other air carrier category contains all national, large regional, and medium regional air carriers. *Interstate motor carrier* figures are for the fiscal year, October through September. The Federal Motor Carrier Safety Administration deletes motor carriers from the Motor Carrier Management Information System (MCMIS) when they receive an official notice of a change in status. This most often occurs when a safety audit or compliance review is attempted. As a result, inactive carriers may be included in the MCMIS. There is some overlap among the operators for the pipeline modes so the total number of pipeline operators is lower than the sum for the three pipeline modes.

SOURCE: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2007*, table 1-2, available at <http://www.bts.gov/> as of April 2007.

TABLE A-3 Number of U.S. Airports: 1995–2006

| | Airports, total | Public use, total | Runways (percent) | | Private use, total | Runways (percent) | | Certificated, total | Civil | Military |
|------|--------------------|----------------------|-------------------|-------|-----------------------|-------------------|-------|------------------------|-------|----------|
| | | | Lighted | Paved | | Lighted | Paved | | | |
| 1995 | 18,224 | 5,415 | 74.3 | 73.3 | 12,809 | 6.4 | 33.0 | 667 | 572 | 95 |
| 1996 | 18,292 | 5,389 | 74.5 | 73.7 | 12,903 | 6.4 | 32.9 | 671 | 577 | 94 |
| 1997 | 18,345 | 5,357 | 74.6 | 74.0 | 12,988 | 6.4 | 33.0 | 660 | 566 | 94 |
| 1998 | 18,770 | 5,352 | 74.8 | 74.2 | 13,418 | 6.3 | 33.2 | 660 | 566 | 94 |
| 1999 | 19,098 | 5,324 | 76.1 | 74.2 | 13,774 | 6.7 | 31.8 | 655 | 565 | 90 |
| 2000 | 19,281 | 5,317 | 75.9 | 74.3 | 13,964 | 7.2 | 32.0 | 651 | 563 | 88 |
| 2001 | 19,356 | 5,294 | 76.2 | 74.6 | 14,062 | 8.0 | 32.4 | 635 | 560 | 75 |
| 2002 | 19,572 | 5,286 | 76.1 | 74.5 | 14,286 | 8.3 | 32.4 | 633 | 558 | 75 |
| 2003 | 19,581 | 5,286 | 76.2 | 74.5 | 14,295 | 8.6 | 32.7 | 628 | 555 | 73 |
| 2004 | 19,820 | 5,288 | 76.3 | 74.5 | 14,532 | 9.0 | 32.8 | 599 | 542 | 57 |
| 2005 | 19,854 | 5,270 | 76.7 | 74.8 | 14,584 | 9.2 | 33.1 | 575 | U | U |
| 2006 | 19,983 | 5,233 | 77.1 | 75.2 | 14,757 | 9.5 | 33.2 | 604 | U | U |

KEY: U = Data are unavailable.

NOTES: Includes civil and joint-use civil-military airports, heliports, STOL (short takeoff and landing) ports, and seaplane bases in the United States and its territories. Publicly owned facilities are open for public use with no prior authorization or permission. *Certificated* airports serve air-carrier operations with aircraft seating more than 9 passengers.

SOURCE: U.S. Department of Transportation, Federal Aviation Administration, *Administrator's Fact Book* (various editions), available at <http://www.faa.gov/> as of April 2007.

TABLE A-4 Number of Stations Served by Amtrak and Rail Transit: FY 1995–2006

| Fiscal years | Amtrak | Rail transit |
|--------------|--------|--------------|
| 1995 | 530 | 2,382 |
| 1996 | 542 | 2,325 |
| 1997 | 516 | 2,391 |
| 1998 | 508 | 2,524 |
| 1999 | 510 | 2,567 |
| 2000 | 515 | 2,595 |
| 2001 | 512 | 2,621 |
| 2002 | 515 | 2,784 |
| 2003 | 526 | 2,797 |
| 2004 | 526 | 2,909 |
| 2005 | 527 | 2,936 |
| 2006 | 505 | U |

KEY: U = Data are unavailable.

NOTES: Rail transit is the sum of commuter rail, heavy rail, and light rail. In several large urban areas, Amtrak and commuter rail stations are shared. Starting in 2001, stations serving the Alaska Railroad are included in the rail transit total. Rail transit data for 2002 and later years include service both directly operated and purchased. Prior to 2002, data only include directly operated service.

SOURCES: **Amtrak: 1995-2002**—Amtrak, Amtrak Annual Report, Statistical Appendix (Washington, DC: annual issues). **2003-2004**—Ibid, State Fact Sheets, available at <http://www.amtrak.com/> as of Nov. 11, 2005. **2005–2006:** Ibid, State Fact Sheets, available at <http://www.amtrak.com/> as of June 2007. **Rail transit:** U.S. Department of Transportation, Federal Transit Administration, *National Transit Database 2005* (Washington, DC: 2006), table 21 and similar tables in earlier editions.

TABLE A-5 U.S. Waterway Facilities: 2000–2005

| | Commercial facilities | Great lakes | Inland | Ocean | Locks |
|------|-----------------------|-------------|--------|-------|-------|
| 2000 | 9,307 | 763 | 2,376 | 6,171 | 230 |
| 2001 | 9,309 | 754 | 2,367 | 6,188 | 230 |
| 2002 | 9,188 | 754 | 2,367 | 6,067 | 230 |
| 2003 | 9,164 | 754 | 2,361 | 6,049 | 230 |
| 2004 | 9,172 | 754 | 2,361 | 6,057 | 212 |
| 2005 | 9,399 | 754 | 2,320 | 6,059 | 212 |

SOURCE: U.S. Army Corps of Engineers, The U.S. Waterway System—Transportation Facts (Alexandria, VA: annual releases), Geographic Distribution of U.S. Waterway Facilities.

TABLE A-6 Number of U.S. Aircraft, Vehicles, and Other Conveyances: 1995-2005

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Air | | | | | | | | | | | |
| Air carrier | 7,411 | 7,478 | 7,616 | 8,111 | 8,228 | 8,055 | 8,497 | 8,194 | 8,176 | 8,186 | 8,225 |
| General aviation (active fleet) | 188,089 | 191,129 | 192,414 | 204,710 | 219,464 | 217,533 | 211,535 | 211,345 | 209,788 | 219,426 | 224,352 |
| Highway, total (registered vehicles) | 205,427,212 | 210,441,249 | 211,580,033 | 215,496,003 | 220,461,056 | 225,821,241 | 235,331,382 | 234,624,135 | 236,760,033 | 243,010,549 | 247,421,120 |
| Passenger car | 128,386,775 | 129,728,341 | 129,748,704 | 131,838,538 | 132,432,044 | 133,621,420 | 137,633,467 | 135,920,677 | 135,669,897 | 136,430,651 | 136,588,083 |
| Motorcycle | 3,897,191 | 3,871,599 | 3,826,373 | 3,879,450 | 4,152,433 | 4,346,068 | 4,903,056 | 5,004,156 | 5,370,035 | 5,767,934 | 6,227,146 |
| Other 2-axle 4-tire vehicle | 65,738,322 | 69,133,913 | 70,224,082 | 71,330,205 | 75,356,376 | 79,084,979 | 84,187,636 | 85,011,305 | 87,186,663 | 91,845,327 | 95,336,839 |
| Truck, single-unit 2-axle | | | | | | | | | | | |
| 6-tire or more | 5,023,670 | 5,266,029 | 5,293,358 | 5,734,925 | 5,762,864 | 5,926,030 | 5,703,501 | 5,650,619 | 5,848,523 | 6,161,028 | 6,395,240 |
| Truck, combination | 1,695,751 | 1,746,586 | 1,789,968 | 1,997,345 | 2,028,562 | 2,096,619 | 2,154,174 | 2,276,661 | 1,908,365 | 2,010,335 | 2,086,759 |
| Bus | 685,503 | 694,781 | 697,548 | 715,540 | 728,777 | 746,125 | 749,548 | 760,717 | 776,550 | 795,274 | 807,053 |
| Transit | | | | | | | | | | | |
| Motor bus | 67,107 | 71,678 | 72,770 | 72,142 | 74,228 | 75,013 | 76,075 | 76,190 | 77,328 | 81,033 | 82,027 |
| Light rail cars | 1,048 | 1,140 | 1,229 | 1,220 | 1,297 | 1,577 | 1,366 | 1,445 | 1,482 | 1,622 | 1,645 |
| Heavy rail cars | 10,166 | 10,201 | 10,242 | 10,301 | 10,306 | 10,591 | 10,718 | 10,718 | 10,754 | 10,858 | 11,110 |
| Trolley bus | 695 | 871 | 859 | 880 | 859 | 951 | 600 | 600 | 672 | 597 | 615 |
| Commuter rail cars and locomotives | 5,164 | 4,665 | 4,943 | 4,963 | 4,883 | 5,073 | 5,124 | 5,300 | 5,959 | 6,228 | 6,392 |
| Demand response | 29,352 | 30,804 | 32,509 | 29,646 | 31,884 | 33,080 | 34,661 | 34,699 | 35,954 | 37,078 | 41,958 |
| Other | 2,809 | 3,003 | 3,808 | 4,703 | 5,059 | 5,208 | 5,727 | 6,330 | 6,990 | 6,566 | 7,251 |
| Rail | | | | | | | | | | | |
| Class I, freight cars | 583,486 | 570,865 | 568,493 | 575,604 | 579,140 | 560,154 | 499,860 | 477,751 | 467,063 | 473,773 | 474,839 |
| Class I, locomotive | 18,812 | 19,269 | 19,684 | 20,261 | 20,256 | 20,028 | 19,745 | 20,506 | 20,774 | 22,015 | 22,779 |
| Nonclass I freight cars | 84,724 | 87,364 | 116,108 | 121,659 | 126,762 | 132,448 | 125,470 | 130,590 | 124,580 | 120,169 | 120,195 |
| Car companies and shippers freight cars | 550,717 | 582,344 | 585,818 | 618,404 | 662,934 | 688,194 | 688,806 | 691,329 | 687,337 | 693,978 | 717,211 |
| Amtrak, passenger train car | 1,722 | 1,730 | 1,728 | 1,962 | 1,992 | 1,894 | 2,084 | 2,896 | 1,623 | 1,211 | 1,186 |
| Amtrak, locomotive | 313 | 299 | 332 | 345 | 329 | 378 | 401 | 372 | 442 | 276 | 258 |
| Water | | | | | | | | | | | |
| Nonself-propelled vessels | 31,360 | 32,811 | 33,011 | 33,509 | 33,387 | 33,152 | 33,042 | 32,381 | 31,335 | 31,296 | 32,052 |
| Self-propelled vessels | 8,281 | 8,293 | 8,408 | 8,523 | 8,379 | 8,202 | 8,546 | 8,621 | 8,648 | 8,994 | 8,976 |
| Oceangoing steam and motor ships (1,000 gross tons and over) | 512 | 509 | 495 | 473 | 470 | 461 | 454 | 443 | 416 | 412 | 357 |
| Recreational boats | 11,734,710 | 11,877,938 | 12,312,982 | 12,565,930 | 12,738,271 | 12,782,143 | 12,876,346 | 12,854,054 | 12,794,616 | 12,781,476 | 12,942,414 |

KEY: U = Data are unavailable.

NOTES: Air carrier are those aircraft carrying passengers or cargo for hire under 14 CFR 121 and 14 CFR 135. The number of aircraft is the monthly average of the number of aircraft reported in use for the last three months of the year. General aviation data includes air taxi aircraft. Other transit includes aerial tramway, automated guideway transit, cablecar, ferry boat, inclined plane, monorail, and vanpool. Nonself-propelled vessels include dry-cargo barges, tank barges, and railroad-car floats.

Self-propelled vessels include dry-cargo and/or passenger, offshore supply vessels, railroad-car ferries, tankers, and towboats. Recreational boats include those that are required to be numbered in accordance with Chapter 123 of Title 46 U.S.C.

SOURCE: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, National Transportation Statistics 2007, table 1-11, available at <http://www.bts.gov/> as of July 2007.

TABLE A-7 Transportation Capital Stock by Mode: 1995–2005
Current dollars (billions)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Public highways and streets | 1,074.1 | 1,127.4 | 1,211.1 | 1,254.9 | 1,337.2 | 1,437.3 | 1,500.4 | 1,568.5 | 1,595.5 | 1,834.1 | 2,077.4 |
| Consumer motor vehicles | 842.2 | 875.1 | 899.4 | 950.4 | 1,020.8 | 1,092.2 | 1,156.0 | 1,213.5 | 1,256.1 | 1,326.9 | 1,375.8 |
| In-house transportation | 391.2 | 428.2 | 459.2 | 496.1 | 547.8 | 587.6 | 603.6 | 612.3 | 638.2 | 659.5 | 683.2 |
| Other publicly owned transportation | U | U | 215.0 | 229.5 | 245.2 | 266.5 | 280.4 | 305.7 | 325.4 | 379.3 | 429.0 |
| Railroad transportation | 246.8 | 254.3 | 254.8 | 260.1 | 262.7 | 266.9 | 272.3 | 273.4 | 279.6 | 284.2 | 292.0 |
| Air transportation | 118.0 | 128.6 | 140.8 | 157.6 | 173.4 | 195.7 | 215.6 | 223.5 | 229.6 | 238.2 | 245.2 |
| Other privately owned transportation | 97.1 | 97.8 | 98.4 | 100.5 | 102.2 | 105.2 | 106.2 | 103.9 | 102.5 | 104.4 | 105.8 |
| Pipeline transportation | 57.8 | 60.1 | 62.9 | 65.0 | 69.2 | 73.7 | 76.7 | 81.8 | 83.4 | 94.4 | 100.7 |
| Commercial truck transportation | 52.2 | 54.7 | 59.9 | 63.6 | 66.4 | 68.1 | 66.4 | 65.8 | 65.5 | 68.6 | 73.2 |
| Water transportation | 32.3 | 33.6 | 35.7 | 37.1 | 38.3 | 39.4 | 40.0 | 42.3 | 44.5 | 48.9 | 53.6 |
| Private ground passenger transportation | 25.1 | 26.7 | 27.4 | 29.0 | 31.7 | 33.9 | 35.1 | 34.8 | 35.8 | 37.2 | 38.3 |
| Total | 2,936.8 | 3,086.5 | 3,464.6 | 3,643.8 | 3,894.9 | 4,166.5 | 4,352.7 | 4,525.5 | 4,656.1 | 5,075.7 | 5,474.2 |

KEY: U = Data are unavailable.

NOTES: Capital stock is a commonly used economic measure of the capacity of the transportation system. It combines the capabilities of modes, components, and owners into a single measure of capacity in dollar value. This measure takes into account both the quantity of each component (through initial investment) and its condition (through depreciation and retirements). Data include only privately owned capital stock unless otherwise noted. Capital stock data are reported after deducting depreciation. *Consumer motor vehicles* are considered consumer durable goods. *In-house transportation* includes transportation services provided within a firm whose main business is not transportation. For example, grocery companies often use their own truck fleets to move goods from their warehouses to their retail outlets. *Other publicly owned transportation* includes publicly owned airway, waterway, and transit structures but does not include associated equipment. *Other privately owned transportation* includes sightseeing, couriers and messengers, and transportation support activities, such as freight transportation brokers. Data may not add to total because of independent rounding.

SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis, *Fixed Assets and Consumer Durable Goods in the United States*, tables 3.1ES, 7.1B, and 8.1, available at <http://www.bea.gov> as of June 2007.

TABLE A-8 Rural and Urban Roads in Poor or Mediocre Condition by Functional Class: 1995–2005
 Percentage of mileage in roadway class

| | Rural | | | | Urban | | | | |
|------|-------------|---------------------------|-----------------|------------|-------------|--------------------------------|---------------------------|-----------------|------------|
| | Interstates | Other principal arterials | Minor arterials | Collectors | Interstates | Other freeways and expressways | Other principal arterials | Minor arterials | Collectors |
| 1995 | 27.0 | 12.0 | 12.7 | 18.0 | 37.2 | 14.6 | 27.1 | 20.3 | 26.5 |
| 1996 | 23.0 | 7.3 | 10.5 | 17.0 | 36.9 | 12.1 | 25.9 | 19.9 | 26.3 |
| 1997 | 22.7 | 6.5 | 9.0 | 20.1 | 36.0 | 12.0 | 26.7 | 20.2 | 26.6 |
| 1998 | 20.6 | 6.1 | 7.9 | 21.8 | 34.9 | 12.0 | 31.3 | 17.9 | 20.9 |
| 1999 | 16.4 | 4.5 | 6.9 | 31.2 | 30.4 | 10.6 | 30.6 | 36.8 | 39.6 |
| 2000 | 14.3 | 4.0 | 7.0 | 21.2 | 28.2 | 10.9 | 30.0 | 26.0 | 32.1 |
| 2001 | 13.6 | 3.7 | 6.9 | 20.4 | 28.2 | 10.2 | 29.3 | 26.4 | 31.9 |
| 2002 | 12.3 | 3.4 | 5.8 | 19.5 | 28.2 | 10.3 | 29.7 | 26.6 | 32.8 |
| 2003 | 11.4 | 3.5 | 6.1 | 19.1 | 26.8 | 10.7 | 29.1 | 27.9 | 34.0 |
| 2004 | 12.4 | 4.2 | 6.5 | 18.8 | 24.9 | 9.7 | 27.8 | 28.8 | 34.8 |
| 2005 | 11.2 | 3.6 | 5.4 | 18.5 | 22.8 | 7.8 | 27.4 | 27.5 | 33.5 |

NOTES: Data are for the 50 states and the District of Columbia. The terms *poor* and *mediocre* as used here are Federal Highway Administration (FHWA) pavement condition criteria term categories for quantitative International Roughness Index and Present Serviceability Ratings. For further information, see U.S. Department of Transportation, FHWA, *Status of the Nation's Highways, Bridges, and Transit: 2002 Conditions and Performance Report*, Exhibit 3-3, available at <http://www.fhwa.dot.gov/policy> as of August 2005.

SOURCE: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* (Washington, DC: Annual issues), table HM-63.

Table A-9 Households Without a Vehicle: 2006

| | All households | 65 or older |
|---|----------------|-------------|
| Number of households with out a vehicle (thousands) | 9,804 | 3,381 |
| Percentage of all households | 8.8% | 14.9% |

SOURCE: U.S. Department of Commerce, U.S. Census Bureau, American Community Survey, (Washington, DC: Annual issues), available at <http://www.census.gov/acs/www/index.html> as of September 2007.

TABLE A-10 U.S. Airport Runway Pavement Conditions: 1999–2006

| | NPIAS airports (number) | Condition (percent) | | | Commercial service airports (number) | Condition (percent) | | |
|------|-------------------------|---------------------|------|------|--------------------------------------|---------------------|------|------|
| | | Good | Fair | Poor | | Good | Fair | Poor |
| 1999 | 3,344 | 72 | 23 | 5 | 547 | 78 | 20 | 2 |
| 2000 | 3,361 | 73 | 22 | 5 | 546 | 79 | 19 | 2 |
| 2001 | 3,364 | 73 | 22 | 5 | 546 | 79 | 19 | 2 |
| 2002 | 3,358 | 71 | 24 | 5 | 536 | 79 | 19 | 2 |
| 2003 | 3,346 | 75 | 21 | 4 | 510 | 80 | 18 | 2 |
| 2004 | 3,356 | 75 | 21 | 4 | 513 | 82 | 16 | 2 |
| 2005 | 3,357 | 75 | 21 | 4 | 517 | 79 | 19 | 2 |
| 2006 | 3,365 | 77 | 19 | 4 | 517 | 79 | 18 | 3 |

KEY: NPIAS = National Plan Integrated Airport Systems.

NOTES: The U.S. Department of Transportation, Federal Aviation Administration's (FAA's) *National Plan of Integrated Airport Systems* is composed of all commercial service airports, all reliever airports, and selected general aviation airports. It does not include over 1,000 publicly owned public-use landing areas, privately owned public-use airports, and other civil landing areas not open to the general public. NPIAS airports account for almost all enplanements. In 2005, there were 16,500 non-NPIAS airports. *Commercial service airports* are defined as public airports receiving scheduled passenger service, and having at least 2,500 enplaned passengers per year.

SOURCES: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, National Transportation Statistics 2007, table 1-24, available at <http://www.bts.gov/> as of September 2007.

Table A-11 U.S. Ferry Transportation: 2006

| State/Territory | Operators | Vessels |
|---------------------------------------|------------|------------|
| Alaska | 6 | 22 |
| Alabama | 2 | 2 |
| Arkansas | 1 | 4 |
| Arizona | 1 | 10 |
| California | 18 | 62 |
| Connecticut | 5 | 22 |
| Delaware | 1 | 1 |
| Florida | 11 | 23 |
| Georgia | 3 | 8 |
| Hawaii | 1 | 3 |
| Illinois | 5 | 19 |
| Kentucky | 8 | 16 |
| Louisiana | 8 | 24 |
| Massachusetts | 15 | 61 |
| Maryland | 7 | 6 |
| Maine | 10 | 24 |
| Michigan | 16 | 46 |
| Minnesota | 1 | 2 |
| Missouri | 4 | 6 |
| Northern Mariana Islands, Tinian | 1 | 2 |
| Mississippi | 2 | 4 |
| Montana | 2 | 3 |
| New Brunswick, Canada | 1 | * |
| North Carolina | 7 | 33 |
| New Hampshire | 1 | 1 |
| New Jersey | 4 | 44 |
| New York | 15 | 69 |
| Ohio | 5 | 9 |
| Ontario, Canada | 2 | 4 |
| Oregon | 2 | 3 |
| Pennsylvania | 2 | 3 |
| Prince Edward Island (Canada) | 1 | 1 |
| Puerto Rico | 2 | 5 |
| Rhode Island | 3 | 3 |
| South Carolina | 5 | 10 |
| Tennessee | 1 | 2 |
| Texas | 5 | 15 |
| Utah | 1 | 2 |
| Virginia | 8 | 12 |
| U.S. Virgin Islands | 9 | 21 |
| Vermont | 2 | 13 |
| Virgin Gorda (British Virgin Islands) | 1 | 2 |
| Washington | 17 | 51 |
| Wisconsin | 7 | 15 |
| West Virginia | 1 | 2 |
| Total | 230 | 690 |

* Vessels carry freight only.

NOTES: 2006 Survey collected data for calendar year 2005. The vessel data includes carrying passengers and freight or passengers only.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *Ferry - National Census of Ferry Operators*, available at <http://www.bts.gov/>.

TABLE A-12 Average Capacity of Vessels Calling at U.S. Ports by Type: 1998–2005
Deadweight tons (DWT) per call

| | Combination | Tanker | Dry bulk | Container | Roll-on, roll-off vessels | Gas carriers | General cargo | All vessels |
|------|-------------|--------|----------|-----------|------------------------------|-----------------|------------------|-------------|
| 1998 | 82,895 | 68,670 | 41,740 | 36,243 | 19,898 | 29,954 | 21,409 | 45,289 |
| 1999 | 88,433 | 67,723 | 41,833 | 36,586 | 18,662 | 31,402 | 22,331 | 45,117 |
| 2000 | 89,462 | 67,551 | 41,694 | 37,784 | 18,456 | 31,397 | 22,857 | 45,646 |
| 2001 | 87,873 | 69,313 | 42,142 | 39,656 | 20,445 | 33,438 | 23,416 | 47,034 |
| 2002 | 84,459 | 69,412 | 42,876 | 42,158 | 20,376 | 32,099 | 23,496 | 47,625 |
| 2003 | 84,016 | 72,387 | 42,685 | 43,168 | 20,270 | 37,818 | 23,655 | 49,557 |
| 2004 | 84,699 | 70,690 | 42,972 | 43,610 | 20,190 | 39,145 | 24,542 | 49,125 |
| 2005 | 87,151 | 72,056 | 43,276 | 44,593 | 19,838 | 41,411 | 25,101 | 50,083 |

NOTES: Calls are by oceangoing vessels of 10,000 dwt or greater at U.S. ports, excluding Great Lakes ports. 1998 is the first year for which data are available. Beginning in 2002, chemical tanker data are no longer reported separately and are, instead, included in tanker data; historical data were adjusted for consistency. *Combination* includes ore/bulk/oil carriers, and bulk/oil carriers. *Gas carriers* includes liquefied natural gas carriers (LNG), liquefied petroleum gas (LPG) carriers, and LNG/LPG carriers. *General cargo* includes general cargo carriers, partial containerships, refrigerated ships, barge carriers, and livestock carriers. *Roll-on, roll-off* vessels are especially designed to carry wheeled container trailers or other wheeled cargo and use the roll-on, roll-off method for loading and unloading.

SOURCE: U.S. Department of Transportation, Maritime Administration, Office of Statistical and Economic Analysis, *Vessel Calls at U.S. Ports (annual releases)*, table S-1, available at http://www.marad.dot.gov/marad_statistics/ as of June 2006.

TABLE A-13 Average Loaded U.S. Railcar Weight: 1995–2005

| | Tons per carload |
|------|------------------|
| 1995 | 65.3 |
| 1996 | 66.6 |
| 1997 | 63.4 |
| 1998 | 64.1 |
| 1999 | 63.4 |
| 2000 | 62.6 |
| 2001 | 64.0 |
| 2002 | 63.3 |
| 2003 | 62.3 |
| 2004 | 61.3 |
| 2005 | 61.0 |

NOTE: Average railcar weight is total tons transported divided by total carloads transported.

SOURCE: Association of American *Railroads, Railroad Facts 2006* (Washington, DC: 2006), pp. 37.

TABLE A-14 Median Age of Automobiles and Trucks in Operation in the United States: 1995–2006
Years

| | Cars | Light trucks | All trucks |
|------|------|--------------|------------|
| 1995 | 7.7 | 7.4 | 7.6 |
| 1996 | 7.9 | 7.5 | 7.7 |
| 1997 | 8.1 | 7.3 | 7.8 |
| 1998 | 8.3 | 7.1 | 7.6 |
| 1999 | 8.3 | 6.9 | 7.2 |
| 2000 | 8.3 | 6.7 | 6.9 |
| 2001 | 8.3 | 6.1 | 6.8 |
| 2002 | 8.4 | 6.6 | 6.8 |
| 2003 | 8.6 | 6.5 | 6.7 |
| 2004 | 8.9 | 6.4 | 6.6 |
| 2005 | 9.0 | 6.6 | 6.8 |
| 2006 | 9.2 | 6.8 | 6.9 |

NOTE: *Light Trucks* are 14,000 lb. and under (gross vehicle weight classes 1-3).

SOURCE: The R.L. Polk Co., available at <http://www.polk.com/> as of February 2007.

TABLE A-15 Average Age of Urban Transit Vehicles: 1995–2005
Years

| | Heavy-rail passenger cars | Commuter- rail passenger coaches | Light-rail vehicles | Full-size transit buses | Vans | Ferryboats |
|------|---------------------------------|---|------------------------|-------------------------------|------|------------|
| 1995 | 19.3 | 21.4 | 16.8 | 8.6 | 3.1 | 23.4 |
| 1996 | 20.2 | 24.1 | 16.0 | 8.7 | 3.1 | 25.3 |
| 1997 | 21.1 | 21.6 | 15.9 | 8.5 | 3.0 | 25.4 |
| 1998 | 22.0 | 19.4 | 15.7 | 8.5 | 2.9 | 25.8 |
| 1999 | 22.5 | 17.5 | 15.7 | 8.4 | 3.1 | 25.1 |
| 2000 | 22.9 | 16.9 | 16.1 | 8.1 | 3.1 | 25.6 |
| 2001 | 21.7 | 18.1 | 16.4 | 7.8 | 3.3 | 24.7 |
| 2002 | 20.0 | 20.1 | 16.3 | 7.5 | 4.9 | 26.8 |
| 2003 | 19.0 | 20.5 | 15.6 | 7.3 | 3.4 | 27.1 |
| 2004 | 19.8 | 17.9 | 15.5 | 7.2 | 3.4 | 25.6 |
| 2005 | 20.8 | 18.6 | 14.5 | 7.6 | 3.4 | 25.6 |

NOTES: *Full-size transit buses* have more than 35 seats. Data are for directly operated service vehicles only.

SOURCES: All data except full-size transit buses—U.S. Department of Transportation, Federal Transit Administration, *National Transit Database 2005* (Washington, DC: 2006). Full-size transit buses—U.S. Department of Transportation, Federal Transit Administration, *National Transit Summaries and Trends 2005* (Washington, DC: 2007).

TABLE A-16 Average Age of Amtrak Locomotive and Train Car Fleets: FY 1995–2006

| Fiscal years | Locomotives | Passenger and other train cars |
|--------------|-------------|--------------------------------|
| 1995 | 13.9 | 21.8 |
| 1996 | 14.4 | 20.7 |
| 1997 | 12.0 | 19.8 |
| 1998 | 12.6 | 21.1 |
| 1999 | 12.8 | 22.2 |
| 2000 | 11.2 | 19.4 |
| 2001 | 13.9 | 18.5 |
| 2002 | 13.7 | 20.4 |
| 2003 | 14.8 | 21.4 |
| 2004 | 15.7 | 22.4 |
| 2005 | 16.4 | 23.3 |
| 2006 | 17.5 | 22.5 |

SOURCES: 1995-2000—U.S. Department of Transportation (USDOT), Research and Innovative Technology Administration, Bureau of Transportation Statistics (BTS), *National Transportation Statistics 2003*, table 1-30, available at <http://www.bts.gov/> as of March 2004. **2001**—USDOT, BTS, calculation based on data provided by Amtrak, personal communication, March 2004. **2002-2006**—USDOT, BTS, calculations based on data provided by Amtrak, personal communication, June 2007.

TABLE A-17 U.S. Flag Vessels by Type and Age: 2005
Number

| Vessel types | Age group (years) | | | | | |
|----------------------------|-------------------|--------|-------|-------|-------|-------|
| | < 6 | 6–10 | 11–15 | 16–20 | 21–25 | > 25 |
| Dry cargo | 115 | 106 | 74 | 137 | 116 | 419 |
| Tanker | 11 | 13 | 4 | 3 | 30 | 39 |
| Towboat | 336 | 321 | 157 | 155 | 907 | 3,406 |
| Passenger | 62 | 96 | 114 | 150 | 98 | 321 |
| Offshore support/crewboats | 244 | 26,247 | 107 | 59 | 464 | 629 |
| Dry barge | 4,140 | 5,611 | 3,120 | 1,507 | 5,174 | 8,113 |
| Tank/liquid barge | 743 | 512 | 333 | 43 | 535 | 1,985 |

NOTES: Data includes vessels available for operation. Age is based on the year vessels were built or rebuilt. *Passenger* includes passenger excursion/sightseeing, combination passenger and dry-cargo vessels, and ferries.

SOURCE: U.S. Army Corps of Engineers, *Waterborne Transportation Lines of the United States, Volume 1, National Summaries* (New Orleans, LA: annual issues).

TABLE A-18 Average Age of U.S. Commercial Aircraft: 1995–2005

Years, unless noted

| | All commercial aircraft | Major airlines aircraft | Major airlines share of commercial aircraft (percent) |
|------|-------------------------|-------------------------|---|
| 1995 | 12.4 | 11.3 | 76.1% |
| 1996 | 13.2 | 12.3 | 72.5% |
| 1997 | 13.5 | 12.4 | 78.7% |
| 1998 | 13.6 | 12.3 | 77.8% |
| 1999 | 12.9 | 11.8 | 78.5% |
| 2000 | 12.8 | 11.8 | 78.8% |
| 2001 | 12.3 | 11.6 | 82.9% |
| 2002 | 11.7 | 11.7 | 77.8% |
| 2003 | 11.0 | 11.7 | 72.9% |
| 2004 | 10.8 | 11.1 | 74.9% |
| 2005 | 11.3 | 11.3 | 81.5% |

NOTES: Average aircraft age is based on the year that an aircraft was delivered to the original owner from the manufacturer and does not reflect the age of the engines or other parts that may have been replaced more recently. *Commercial aircraft* are aircraft of air carriers providing scheduled or nonscheduled passenger or freight service, including commuter and air taxi on-demand services. *Major airlines* includes only commercial airlines with operating revenues greater than \$1 billion annually. In 2005 they were: Abx Air, AirTran Airways, Alaska Airlines, American Airlines, America West Airlines, American Eagle Airlines, ATA Airlines, Atlantic Southeast Airlines, Comair, Continental Air Lines, Delta Air Lines, Expressjet Airlines, Federal Express, JetBlue Airways, Mesa Airlines, Northwest Airlines, Skywest Airlines, Southwest Airlines, United Air Lines, United Parcel Service, and US Airways.

SOURCE: U.S. Department of Transportation (USDOT), Research and Innovative Technology Administration (RITA), Bureau of Transportation Statistics (BTS), calculations using data from USDOT, RITA, BTS, Form 41, Schedule B-43, 1995–2006.

TABLE A-19 Condition of U.S. Highway Bridges: 1990-2007
Number of Bridges

| | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total all bridges | 572,205 | 574,036 | 572,197 | 573,716 | 576,460 | 581,135 | 581,863 | 582,751 | 582,976 | 585,542 | 589,674 | 589,685 | 590,887 | 591,940 | 593,813 | 595,363 | 597,340 | 599,766 |
| Urban | 108,770 | 112,363 | 115,312 | 117,488 | 121,141 | 122,537 | 124,950 | 127,633 | 128,312 | 130,339 | 133,384 | 133,401 | 135,339 | 135,415 | 137,598 | 142,408 | 146,041 | 151,171 |
| Rural | 463,435 | 461,673 | 456,885 | 456,228 | 455,319 | 458,598 | 456,913 | 455,118 | 454,664 | 455,203 | 456,290 | 456,284 | 455,548 | 456,525 | 456,215 | 452,955 | 451,299 | 448,595 |
| Structurally deficient bridges, total | 137,865 | 134,534 | 118,698 | 111,980 | 107,683 | 104,317 | 101,518 | 98,475 | 93,072 | 88,150 | 86,678 | 83,595 | 81,261 | 79,775 | 77,752 | 75,923 | 73,784 | 72,520 |
| Urban | 16,847 | 17,032 | 16,323 | 15,932 | 15,692 | 15,205 | 15,094 | 14,846 | 14,073 | 12,967 | 13,079 | 12,705 | 12,503 | 12,316 | 12,175 | 12,600 | 12,585 | 12,951 |
| Rural | 121,018 | 117,502 | 102,375 | 96,048 | 91,991 | 89,112 | 86,424 | 83,629 | 78,999 | 75,183 | 73,599 | 70,890 | 68,758 | 67,459 | 65,577 | 63,323 | 61,199 | 59,569 |
| Functionally obsolete bridges, total | 100,355 | 97,593 | 80,393 | 80,000 | 79,832 | 80,950 | 81,208 | 77,410 | 79,500 | 81,900 | 81,510 | 81,439 | 81,537 | 80,990 | 80,567 | 80,412 | 80,317 | 79,804 |
| Urban | 30,266 | 30,842 | 26,243 | 26,511 | 27,024 | 27,487 | 28,087 | 26,865 | 27,588 | 29,065 | 29,398 | 29,383 | 29,675 | 29,886 | 30,298 | 31,391 | 32,292 | 33,139 |
| Rural | 70,089 | 66,751 | 54,150 | 53,489 | 52,808 | 53,463 | 53,121 | 50,545 | 51,912 | 52,835 | 52,112 | 52,056 | 51,862 | 51,104 | 50,269 | 49,021 | 48,025 | 46,665 |

KEY: U = Data are not available

NOTES: Explanation Data for 1990, 1992, 1997-99, and 2001 are as of December of those years; data for 1991 and 1994-96 are as of June of those years; data for 1993 are as of September of that year; data for 2000 are as of August of that year; data for 2002-06 are as of July of those years. Data for 2007 is as of December for the terms Structurally Deficient and Functionally Obsolete can be found on pages 14 and 15 in Chapter 3 of the Federal Highway Administration, 2006 Conditions and Performance Report; the following is a link to Chapter 3 of the report: <http://www.fhwa.dot.gov/policy/2006cpr/pdfs/chap3.pdf>. U.S. totals include the 50 states, the District of Columbia, and Puerto Rico. Table includes: Rural-Interstate, principal arterial, minor arterial, major collector, minor collector and local roads; Urban-Interstate, other freeways or expressways, other principal arterial, minor arterial, collector, and local roads.

Data for 1990, 1992, 1997-99, and 2001 are as of December of those years; data for 1991 and 1994-96 are as of June of those years; data for 1993 are as of September of that year; data for 2000 are as of August of that year; data for 2002-06 are as of July of those years. Data for 2007 is as of December.

SOURCES: 1990-2000: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics; based on data from Federal Highway Administration, Office of Bridge Technology, National Bridge Inventory Database, personal communication, Aug. 14, 2001.
2001-06: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics; based on data from Federal Highway Administration, Office of Bridge Technology, National Bridge Inventory Database, Count of Bridges by Highway System, Internet site <http://www.fhwa.dot.gov/bridge/britab.htm> as of Mar. 30, 2007.
2007: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics; based on data from Federal Highway Administration, Office of Bridge Technology, National Bridge Inventory Database, special tabulation. Data as of Feb. 17, 2008.

TABLE A-20 How People Get to Work: 2006

| | Percentage of workers | Number of workers (thousands) |
|--------------------------------------|-----------------------|-------------------------------|
| Drives self | 76.0 | 105,046 |
| Carpool | 10.7 | 14,852 |
| Mass transportation | 4.8 | 6,684 |
| Works at home | 3.9 | 5,411 |
| Walks only | 2.9 | 3,952 |
| Taxicab, motorcycle, and other means | 1.2 | 1,638 |
| Bicycle | 0.5 | 683 |
| Total | 100.0 | 138,266 |

SOURCE: U.S. Department of Commerce, U.S. Census Bureau, American Community Survey (Washington, DC: Annual issues), available at <http://www.census.gov/acs/www/index.html> as of September 2007.

TABLE A-21 Departure Time to Work

| | 2003 | | 2006 | |
|--------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Number of households (thousands) | Percentage of households | Number of households (thousands) | Percentage of households |
| 5:00 a.m. to 5:29 a.m. | 4,164 | 3.3 | 4,790 | 3.6 |
| 5:30 a.m. to 5:59 a.m. | 5,992 | 4.8 | 6,555 | 5.0 |
| 6:00 a.m. to 6:29 a.m. | 10,980 | 8.8 | 12,099 | 9.2 |
| 6:30 a.m. to 6:59 a.m. | 13,484 | 10.8 | 14,020 | 10.6 |
| 7:00 a.m. to 7:29 a.m. | 18,806 | 15.1 | 19,687 | 14.9 |
| 7:30 a.m. to 7:59 a.m. | 17,577 | 14.1 | 17,651 | 13.4 |
| 8:00 a.m. to 8:29 a.m. | 13,658 | 11.0 | 14,313 | 10.8 |
| 8:30 a.m. to 8:59 a.m. | 6,830 | 5.5 | 7,206 | 5.5 |
| 9:00 a.m. to 9:59 a.m. | 7,284 | 5.8 | 7,992 | 6.1 |
| 10:00 a.m. to 10:59 a.m. | 3,097 | 2.5 | 3,535 | 2.7 |
| 11:00 a.m. to 11:59 a.m. | 1,502 | 1.2 | 1,617 | 1.2 |
| 12:00 p.m. to 3:59 p.m. | 8,551 | 6.9 | 9,197 | 7.0 |
| 4:00 p.m. to 11:59 p.m. | 8,233 | 6.6 | 8,854 | 6.7 |
| 12:00 a.m. to 4:59 a.m. | 4,466 | 3.6 | 4,490 | 3.4 |
| Total | 124,624 | 100 | 132,008 | 100 |

SOURCE: U.S. Department of Commerce, U.S. Census Bureau, American Community Survey (Washington, DC: Annual issues), available at <http://www.census.gov/acs/www/index.html> as of September 2007.

Safety

TABLE B-1 Transportation Fatalities by Mode: 1995-2006

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Air | 964 | 1,093 | 724 | 671 | 681 | 764 | 1,166 | 616 | 699 | 637 | 603 | 766 |
| U.S. air carrier | 168 | 380 | 8 | 1 | 12 | 92 | 531 | 0 | 22 | 14 | 22 | 50 |
| Commuter carrier | 9 | 14 | 46 | 0 | 12 | 5 | 13 | 0 | 2 | 0 | 0 | 2 |
| On-demand air taxi | 52 | 63 | 39 | 45 | 38 | 71 | 60 | 35 | 42 | 64 | 18 | 16 |
| General aviation | 735 | 636 | 631 | 625 | 619 | 596 | 562 | 581 | 633 | 559 | 563 | 698 |
| Highway | 41,817 | 42,065 | 42,013 | 41,501 | 41,717 | 41,945 | 42,196 | 43,005 | 42,884 | 42,836 | 43,510 | 42,642 |
| Passenger car occupants | 22,423 | 22,505 | 22,199 | 21,194 | 20,862 | 20,699 | 20,320 | 20,569 | 19,725 | 19,192 | 18,512 | 17,800 |
| Motorcyclists | 2,227 | 2,161 | 2,116 | 2,294 | 2,483 | 2,897 | 3,197 | 3,270 | 3,714 | 4,028 | 4,576 | 4,810 |
| Truck occupants, light | 9,568 | 9,932 | 10,249 | 10,705 | 11,265 | 11,526 | 11,723 | 12,274 | 12,546 | 12,674 | 13,037 | 12,721 |
| Truck occupants, large | 648 | 621 | 723 | 742 | 759 | 754 | 708 | 689 | 726 | 766 | 804 | 805 |
| Bus occupants | 33 | 21 | 18 | 38 | 59 | 22 | 34 | 45 | 41 | 42 | 58 | 27 |
| Pedestrians | 5,584 | 5,449 | 5,321 | 5,228 | 4,939 | 4,763 | 4,901 | 4,851 | 4,774 | 4,675 | 4,892 | 4,784 |
| Pedalcyclists | 833 | 765 | 814 | 760 | 754 | 693 | 732 | 665 | 629 | 727 | 786 | 773 |
| Other | 501 | 609 | 573 | 540 | 596 | 591 | 581 | 642 | 729 | 732 | 845 | 922 |
| Pipeline | 21 | 53 | 10 | 21 | 22 | 38 | 7 | 12 | 12 | 23 | 16 | 19 |
| Hazardous liquid pipeline | 3 | 5 | 0 | 2 | 4 | 1 | 0 | 1 | 0 | 5 | 2 | 0 |
| Gas pipeline | 18 | 48 | 10 | 19 | 18 | 37 | 7 | 11 | 12 | 18 | 14 | 19 |
| Railroad | 1,146 | 1,039 | 1,063 | 1,008 | 932 | 937 | 971 | 951 | 868 | 895 | 887 | 909 |
| Highway-rail grade crossing | 579 | 488 | 461 | 431 | 402 | 425 | 421 | 357 | 334 | 372 | 358 | 369 |
| Railroad* | 567 | 551 | 602 | 577 | 530 | 512 | 550 | 594 | 534 | 523 | 529 | 540 |
| Transit | 274 | 264 | 275 | 286 | 299 | 295 | 267 | 280 | 234 | 248 | 236 | 213 |
| Highway-rail grade crossing | 17 | 7 | 12 | 26 | 21 | 20 | 13 | 24 | 21 | 29 | 23 | 21 |
| Transit | 257 | 257 | 263 | 260 | 278 | 275 | 254 | 256 | 213 | 219 | 213 | 192 |
| Waterborne | 1,016 | 906 | 989 | 1,033 | 928 | 888 | 828 | 886 | 830 | 769 | 777 | 797 |
| Commercial vessel-related | 53 | 55 | 48 | 69 | 58 | 53 | 53 | 62 | 53 | 36 | 45 | 48 |
| Not related to vessel | 134 | 142 | 120 | 149 | 136 | 134 | 94 | 74 | 74 | 57 | 35 | 39 |
| Recreational boating | 829 | 709 | 821 | 815 | 734 | 701 | 681 | 750 | 703 | 676 | 697 | 710 |

* **Mainly trespassor related.**

NOTES: The actual number of deaths for passengers on trains from 1996-2006 was: 1996 (12), 1997 (6), 1998 (4), 1999 (14), 2000 (4), 2001 (3), 2002 (7), 2003 (3), 2004 (3), 2005 (16), 2006 (2).

Caution is needed in comparing fatalities across modes because of different definitions. For example, rail and transit fatalities include incident-related (not just moving-vehicle related) fatalities, such as fatalities from falls in transit stations or railroad employee fatalities from a fire in a workshop, while fatalities at airports not caused by moving aircraft or fatalities from accidents in automobile repair shops are not counted.

The Federal Railroad Administration defines a grade crossing as a location where a public highway, road, street, or private roadway, including associated sidewalks and pathways, crosses one or more railroad tracks at grade. The Federal Transit Administration defines two types of grade crossings: (1) At grade, mixed, and cross traffic crossings, meaning railway right-of-way over which other traffic moving in the same direction or other cross directions may pass. This includes city street right-of-way; (2) At grade with cross traffic crossings, meaning railway right-of-way over which no other traffic may pass, except to cross at grade-level crossings. This can include median strip rights-of-way with grade level crossings at intersecting streets.

SOURCES: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics*, table 2-1 and table 2-35, available at <http://www.bts.gov/> as of September 2007.

TABLE B-2 Distribution of Transportation Fatalities: 2006

| Category | Number | Percent |
|--|---------------|------------|
| Passenger car occupants | 17,800 | 39.6 |
| Light-truck occupants | 12,721 | 28.3 |
| Motorcycle riders | 4,810 | 10.7 |
| Pedestrians struck by motor vehicles | 4,784 | 10.7 |
| Large-truck occupants | 805 | 1.79 |
| Pedalcyclists struck by motor vehicles | 773 | 1.72 |
| Other and unknown motor vehicle occupants | 739 | 1.65 |
| Recreational boating | 710 | 1.58 |
| General aviation ^a | 698 | 1.55 |
| Railroad trespassers (excl. grade crossings) ^b | 520 | 1.16 |
| Other nonoccupants struck by motor vehicles ^c | 183 | 0.41 |
| Grade crossings, not involving motor vehicles ^{b,d} | 64 | 0.14 |
| Air carriers | 50 | 0.11 |
| Waterborne transportation (vessel-related) | 48 | 0.11 |
| Waterborne transportation (nonvessel-related) | 39 | 0.09 |
| Private grade crossings, with motor vehicles ^b | 38 | 0.08 |
| Heavy-rail transit (e.g., rail subway) | 32 | 0.07 |
| Bus occupants (school, intercity, transit) | 27 | 0.06 |
| Rail employees on duty and contractors ^b | 19 | 0.04 |
| Air taxi | 16 | 0.04 |
| Gas distribution pipelines | 16 | 0.04 |
| Light-rail transit | 13 | 0.03 |
| Gas transmission pipelines | 3 | 0.01 |
| Passengers on railroad trains | 2 | 0.004 |
| Commuter air | 2 | 0.004 |
| Hazardous liquid pipelines | 0 | 0.000 |
| Total, all modes^e | 44,912 | 100 |
| Other counts, redundant with above | | |
| Crashes involving large trucks ^f | 4,995 | |
| Public grade crossings, with motor vehicles ^b | 266 | |

^a Includes 154 persons aboard a Brazilian air carrier killed in a crash with a U.S. registered corporate jet over Brazil. ^b Includes fatalities outside trains. ^c Includes all nonoccupant fatalities in motor vehicle (MV) crashes, except pedalcyclists and pedestrians. ^d Public grade crossing fatalities involving motor vehicles are included in MV counts. ^e Unless otherwise noted, includes fatalities outside vehicles. ^f Includes large truck occupants, other vehicle occupants, and nonoccupants.

SOURCES: Various sources as cited in USDOT, RITA, BTS, National Transportation Statistics, table 2-4, available at <http://www.bts.gov>.

TABLE B-3 Transportation-Related Occupational Fatalities: 1995–2006

| | All occupation- al fatalities | Transportation- related fatalities, total | Highway | Nonhighway | Aircraft | Pedestrian struck by vehicle | Water vehicle | Railway |
|------|-------------------------------------|---|---------|------------|----------|------------------------------------|------------------|---------|
| 1995 | 6,275 | 2,587 | 1,346 | 387 | 283 | 388 | 87 | 82 |
| 1996 | 6,202 | 2,601 | 1,346 | 374 | 324 | 353 | 119 | 74 |
| 1997 | 6,238 | 2,605 | 1,393 | 377 | 261 | 367 | 109 | 93 |
| 1998 | 6,055 | 2,645 | 1,442 | 388 | 224 | 413 | 112 | 60 |
| 1999 | 6,054 | 2,618 | 1,496 | 352 | 228 | 377 | 102 | 56 |
| 2000 | 5,920 | 2,573 | 1,365 | 399 | 280 | 370 | 84 | 71 |
| 2001 | 5,915 | 2,524 | 1,409 | 326 | 247 | 383 | 90 | 62 |
| 2002 | 5,534 | 2,385 | 1,373 | 323 | 194 | 356 | 71 | 64 |
| 2003 | 5,575 | 2,364 | 1,353 | 347 | 211 | 337 | 69 | 43 |
| 2004 | 5,764 | 2,490 | 1,398 | 338 | 231 | 378 | 91 | 50 |
| 2005 | 5,734 | 2,493 | 1,437 | 340 | 149 | 391 | 88 | 83 |
| 2006 | 5,703 | 2,413 | 1,329 | 342 | 215 | 372 | 89 | 65 |

NOTES: Numbers may not add to totals because transportation categories may include subcategories not shown separately. *Highway* includes collisions between vehicles/mobile equipment moving in the same or opposite directions, such as in an intersection; between moving and standing vehicles/mobile equipment at the side of a roadway; or a vehicle striking a stationary object. Also includes noncollisions, e.g., jack-knifed or overturned vehicle/mobile equipment—no collision; ran off highway—no collision; struck by shifting load; sudden start or stop; not elsewhere classified. *Nonhighway* refers to farms and industrial premises. Includes collisions between vehicles/mobile equipment; vehicles/mobile equipment striking a stationary object. Also includes non-collisions such as a fall from a moving vehicle/mobile equipment, fall from and struck by vehicle/mobile equipment, overturned vehicle/mobile equipment, and loss of control of vehicle/mobile equipment. *Pedestrian struck by vehicle* includes worker struck by vehicle/mobile equipment in roadway, on side of road, in a parking lot, or nonroad area.

Water vehicle includes collisions, explosions, fires, fall from or on ship/boat, and sinking/capsized water vehicles involved in transportation. Does not include fishing boats. *Railway* includes collisions between railway vehicles, railway vehicle and other vehicle, railway vehicle and other object, and derailment.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, Internet site <http://www.bls.gov/> as of August 2007.

TABLE B-4 Injured Persons by Transportation Mode: 1995–2006

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Air | 452 | 467 | 417 | 369 | 406 | 357 | 368 | 335 | 365 | 304 | 302 | 287 |
| U.S. air carrier | 25 | 77 | 43 | 30 | 67 | 29 | 19 | 22 | 29 | 21 | 13 | 9 |
| Commuter carrier | 17 | 2 | 1 | 2 | 2 | 7 | 4 | 0 | 1 | 0 | 0 | 1 |
| On-demand air taxi | 14 | 22 | 23 | 10 | 15 | 12 | 24 | 16 | 12 | 17 | 20 | 16 |
| General aviation | 396 | 366 | 350 | 327 | 322 | 309 | 321 | 297 | 323 | 266 | 269 | 261 |
| Highway | 3,465,000 | 3,483,000 | 3,348,000 | 3,192,000 | 3,236,000 | 3,189,000 | 3,033,000 | 2,926,000 | 2,889,000 | 2,788,000 | 2,699,000 | 2,575,000 |
| Passenger car occupants | 2,469,000 | 2,458,000 | 2,341,000 | 2,201,000 | 2,138,000 | 2,052,000 | 1,927,000 | 1,805,000 | 1,756,000 | 1,643,000 | 1,573,000 | 1,475,000 |
| Motorcyclists | 57,000 | 55,000 | 53,000 | 49,000 | 50,000 | 58,000 | 60,000 | 65,000 | 67,000 | 76,000 | 87,000 | 88,000 |
| Truck occupants, light | 722,000 | 761,000 | 755,000 | 763,000 | 847,000 | 887,000 | 861,000 | 879,000 | 889,000 | 900,000 | 872,000 | 857,000 |
| Truck occupants, large | 30,000 | 33,000 | 31,000 | 29,000 | 33,000 | 31,000 | 29,000 | 26,000 | 27,000 | 27,000 | 27,000 | 23,000 |
| Bus occupants | 19,000 | 20,000 | 17,000 | 16,000 | 22,000 | 18,000 | 15,000 | 19,000 | 18,000 | 16,000 | 11,000 | 10,000 |
| Pedestrians | 86,000 | 82,000 | 77,000 | 69,000 | 85,000 | 78,000 | 78,000 | 71,000 | 70,000 | 68,000 | 64,000 | 61,000 |
| Pedalcyclists | 67,000 | 58,000 | 58,000 | 53,000 | 51,000 | 51,000 | 45,000 | 48,000 | 46,000 | 41,000 | 45,000 | 44,000 |
| Other | 14,000 | 15,000 | 17,000 | 12,000 | 10,000 | 15,000 | 17,000 | 13,000 | 15,000 | 17,000 | 18,000 | 18,000 |
| Pipeline | 64 | 127 | 77 | 81 | 108 | 81 | 61 | 49 | 71 | 60 | 47 | 32 |
| Hazardous liquid pipeline | 11 | 13 | 5 | 6 | 20 | 4 | 10 | 0 | 5 | 16 | 2 | 2 |
| Gas pipeline | 53 | 114 | 72 | 75 | 88 | 77 | 51 | 49 | 66 | 44 | 45 | 30 |
| Railroad | 14,440 | 12,558 | 11,767 | 11,459 | 11,700 | 11,643 | 10,985 | 11,103 | 9,245 | 9,157 | 9,402 | 8,189 |
| Highway-rail grade crossing | 1,894 | 1,610 | 1,540 | 1,303 | 1,396 | 1,219 | 1,157 | 999 | 1,035 | 1,091 | 1,020 | 1,030 |
| Railroad | 12,546 | 10,948 | 10,227 | 10,156 | 10,304 | 10,424 | 9,828 | 10,104 | 8,210 | 8,066 | 8,406 | 7,168 |
| Transit | 57,196 | 55,288 | 56,132 | 55,990 | 55,325 | 56,697 | 53,945 | 19,260 | 18,235 | 18,982 | 18,131 | 18,327 |
| Highway-rail grade crossing | 195 | 184 | 126 | 58 | 159 | 123 | 74 | 108 | 117 | 153 | 194 | 172 |
| Transit | 57,001 | 55,104 | 56,006 | 55,932 | 55,166 | 56,574 | 53,871 | 19,152 | 18,118 | 18,829 | 17,937 | 18,155 |
| Waterborne | 6,165 | 6,064 | 5,737 | 5,321 | 4,992 | 5,112 | 5,008 | 4,856 | 4,666 | 4,066 | 4,095 | 5,245 |
| Vessel-related | 154 | 254 | 120 | 130 | 152 | 150 | 210 | 192 | 227 | 198 | 140 | 177 |
| Not related to vessel casualties | 1,870 | 1,368 | 1,062 | 579 | 525 | 607 | 524 | 602 | 551 | 505 | 504 | 594 |
| Recreational boating | 4,141 | 4,442 | 4,555 | 4,612 | 4,315 | 4,355 | 4,274 | 4,062 | 3,888 | 3,363 | 3,451 | 4,474 |

NOTES: Air injuries include all injuries classified as serious. U.S. air carriers includes all carriers who operate under 14 CFR 121, all scheduled and nonscheduled service. Since Mar. 20, 1997, 14 CFR 121 includes only aircraft with 10 or more seats formerly operated under 14 CFR 135. This change makes it difficult to compare pre-1997 data for 14 CFR 121 and 14 CFR 135 with more recent years' data. Commuter carriers include all scheduled service operating under 14 CFR 135. Since Mar. 20, 1997, 14 CFR 121 includes only aircraft with 10 or more seats formerly operated under 14 CFR 135. This change makes it difficult to compare pre-1997 data for 14 CFR 121 and 14 CFR 135 with more recent years' data. On-demand air taxi includes all nonscheduled service operating under 14 CFR 135. General aviation includes all operations other than those operating under 14 CFR 121 and 14 CFR 135.

(continued on next page)

TABLE B-4 Injured Persons by Transportation Mode: 1995–2006 (continued)

The motor vehicle injury data in this table come from the U.S. Department of Transportation, National Highway Traffic Safety Administration's General Estimates System (GES). The data from GES are obtained from a nationally representative probability sample selected from all police-reported crashes. The GES sample includes only crashes where a police accident report was completed and the crash resulted in property damage, injury, or death. The resulting figures do not take into account crashes that were not reported to the police or did not result in property damage.

Large trucks are defined as trucks over 10,000 pounds gross vehicle weight rating, including single-unit trucks and truck tractors. *Light trucks* are defined as trucks of 10,000 pounds gross vehicle weight rating or less, including pickups, vans, truck-based station wagons, and utility vehicles.

Other highway includes occupants of other unknown vehicle types and other nonmotorists.

Railroad includes Amtrak. Figures include those injuries resulting from train accidents, train incidents, and nontrain incidents. Injury figures also include occupational illness.

Injuries occurring at highway-rail crossings, listed under railroad, result from freight and passenger rail operations including commuter rail. Highway-rail grade crossing injuries, except train occupants, are counted under highway.

The Federal Railroad Administration defines a grade crossing as a location where a public highway, road, street, or private roadway, including associated sidewalks and pathways, crosses one or more railroad tracks at grade. The Federal Transit Administration defines two types of grade crossings: (1) At grade, mixed, and cross traffic crossings, meaning railway right-of-way over which other traffic moving in the same direction or other cross directions may pass. This includes city street right-of-way; (2) At grade with cross traffic crossings, meaning railway right-of-way over which no other traffic may pass, except to cross at grade-level crossings. This can include median strip rights-of-way with grade level crossings at intersecting streets.

Transit includes motor bus, commuter rail, heavy rail, light rail, demand response, van pool, and automated guideway. Transit injuries include those resulting from all reportable incidents, not just from accidents. Directly Operated (DO) modes only. The drop in the number of injuries in 2002 is due largely to a change in definitions by the Federal Transit Administration. Only injuries requiring immediate medical treatment away from the scene now qualify as reportable. Previously, any injury was reportable.

Injuries occurring at *highway-rail crossings*, listed under transit, result from operations of public transit rail modes including commuter rail. Data for injuries at light rail crossings are: 1995 (179); 1996 (171); 1997 (92); 1998 (42); 1999 (148); 2000 (111); 2001 (54); 2002 (76); 2003 (68); 2004 (76); 2005 (80); 2006 (119).

Vessel-related injuries include those involving damage to vessels, such as collisions or groundings. Injuries *not related to vessel casualties* include those from falls overboard or from accidents involving onboard equipment.

Vessel-related and *Not related to vessel casualties* data for 1995-1997 come from the Marine Safety Management Information System. Between 1998 and 2001 the U.S. Coast Guard phased in a new computer system to track safety data, the Marine Information for Safety and Law Enforcement System. During that period data come from combining entries in the Marine Safety Management Information System with entries in the Marine Information for Safety and Law Enforcement System. Data for 2002 and later come from the Marine Information for Safety and Law Enforcement System. Data for prior years come from other sources and may not be directly comparable.

SOURCES: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2006*, table 2-2, available at <http://www.bts.gov/> as of September 2007.

TABLE B-5 Transportation Accidents by Mode: 1995–2006

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Air | 2,179 | 2,046 | 1,991 | 2,040 | 2,043 | 1,985 | 1,852 | 1,823 | 1,869 | 1,719 | 1,781 | 1,603 |
| U.S. air carrier | 36 | 37 | 49 | 50 | 51 | 56 | 46 | 41 | 54 | 30 | 40 | 31 |
| Commuter carrier | 12 | 11 | 16 | 8 | 13 | 12 | 7 | 7 | 2 | 4 | 6 | 3 |
| On-demand air taxi | 75 | 90 | 82 | 77 | 74 | 80 | 72 | 60 | 74 | 66 | 66 | 54 |
| General aviation | 2,056 | 1,908 | 1,844 | 1,905 | 1,905 | 1,837 | 1,727 | 1,715 | 1,739 | 1,617 | 1,669 | 1,515 |
| Highway | 6,699,000 | 6,770,000 | 6,624,000 | 6,335,000 | 6,279,000 | 6,394,000 | 6,323,000 | 6,316,000 | 6,328,000 | 6,181,000 | 6,159,000 | 5,973,000 |
| Passenger car | 5,593,685 | 5,598,699 | 5,423,286 | 5,146,124 | 4,915,794 | 4,926,243 | 4,831,842 | 4,802,056 | 4,746,620 | 4,557,453 | 4,498,869 | 4,341,688 |
| Motorcycle | 66,354 | 66,224 | 61,451 | 54,477 | 57,322 | 68,783 | 73,342 | 76,004 | 79,131 | 85,557 | 100,686 | 101,474 |
| Truck, light | 2,749,596 | 2,880,782 | 2,900,896 | 2,866,729 | 3,079,617 | 3,207,738 | 3,254,105 | 3,272,326 | 3,345,367 | 3,370,062 | 3,381,985 | 3,355,291 |
| Truck, large | 362,883 | 378,335 | 421,377 | 391,807 | 452,444 | 437,861 | 409,372 | 416,477 | 436,161 | 399,156 | 423,016 | 367,920 |
| Bus | 58,847 | 57,185 | 53,376 | 53,385 | 62,591 | 55,594 | 54,264 | 57,958 | 57,674 | 52,148 | 50,427 | 51,554 |
| Pipeline | 349 | 381 | 346 | 389 | 339 | 380 | 341 | 331 | 370 | 490 | 490 | 386 |
| Hazardous liquid pipeline | 188 | 194 | 171 | 153 | 167 | 146 | 130 | 147 | 131 | 139 | 139 | 110 |
| Gas pipeline | 161 | 187 | 175 | 236 | 172 | 234 | 211 | 184 | 239 | 299 | 351 | 276 |
| Railroad | 7,092 | 6,700 | 6,262 | 6,083 | 6,257 | 6,485 | 6,260 | 5,815 | 5,991 | 6,454 | 6,299 | 5,823 |
| Highway-rail grade crossing | 4,633 | 4,257 | 3,865 | 3,508 | 3,489 | 3,502 | 3,237 | 3,077 | 2,977 | 3,076 | 3,053 | 2,920 |
| Railroad | 2,459 | 2,443 | 2,397 | 2,575 | 2,768 | 2,983 | 3,023 | 2,738 | 3,014 | 3,378 | 3,246 | 2,903 |
| Transit | 25,683 | 25,166 | 24,924 | 23,937 | 23,310 | 24,261 | 23,891 | 13,968 | 7,793 | 7,842 | 8,151 | 8,851 |
| Highway-rail grade crossing | 127 | 134 | 119 | 106 | 140 | 148 | 101 | 190 | 125 | 178 | 148 | 141 |
| Transit | 25,556 | 25,032 | 24,805 | 23,831 | 23,170 | 24,113 | 23,790 | 13,778 | 7,668 | 7,664 | 8,003 | 8,710 |
| Waterborne | 13,368 | 13,286 | 13,551 | 13,828 | 13,457 | 13,143 | 11,377 | 11,713 | 10,601 | 9,866 | 9,946 | 10,367 |
| Vessel-related | 5,349 | 5,260 | 5,504 | 5,767 | 5,526 | 5,403 | 4,958 | 6,008 | 5,163 | 4,962 | 4,977 | 5,400 |
| Recreational boating | 8,019 | 8,026 | 8,047 | 8,061 | 7,931 | 7,740 | 6,419 | 5,705 | 5,438 | 4,904 | 4,969 | 4,967 |

KEY: U = Data are unavailable.

NOTES: U.S. air carriers includes all carriers who operate under 14 CFR 121, all scheduled and nonscheduled service. Since Mar. 20, 1997, 14 CFR 121 includes only aircraft with 10 or more seats formerly operated under 14 CFR 135. This change makes it difficult to compare pre-1997 data for 14 CFR 121 and 14 CFR 135 with more recent years' data. Commuter carriers include all scheduled service operating under 14 CFR 135. Since Mar. 20, 1997, 14 CFR 121 includes only aircraft with 10 or more seats formerly operated under 14 CFR 135. This change makes it difficult to compare pre-1997 data for 14 CFR 121 and 14 CFR 135 with more recent years' data. On-demand air taxi includes all nonscheduled service operating under 14 CFR 135. General aviation includes all operations other than those operating under 14 CFR 121 and 14 CFR 135.

For Highway totals the U.S. Department of Transportation, National Highway Traffic Safety Administration uses the term "crash" instead of accident in its highway safety data. Highway crashes often involve more than one motor vehicle, hence "total highway crashes" is smaller than the sum of the components. Estimates of highway crashes are rounded to the nearest thousand in the source document.

(continued on next page)

TABLE B-5 Transportation Accidents by Mode: 1995–2006 (continued)

The motor vehicle crash data in this table come from the U.S. Department of Transportation, National Highway Traffic Safety Administrations' General Estimates System (GES). GES data are obtained from a nationally representative probability sample selected from all police-reported crashes. The GES sample includes only crashes where a police accident report was completed and the crash resulted in property damage, injury, or death. The resulting figures do not take into account crashes that were not reported to the police or did not result in property damage.

Large trucks are defined as trucks over 10,000 pounds gross vehicle weight rating, including single-unit trucks and truck tractors. Light trucks are defined as trucks of 10,000 pounds gross vehicle weight rating or less, including pickups, vans, truck-based station wagons, and utility vehicles.

Railroad total includes Amtrak. Accidents and incidents resulting from freight and passenger rail operations including commuter rail. *Highway-rail* grade crossing total includes accidents and incidents occurring at highway-rail crossings resulting from freight and passenger rail operations including commuter rail. *Railroad* includes only train accidents.

The Federal Railroad Administration defines a grade crossing as a location where a public highway, road, street, or private roadway, including associated sidewalks and pathways, crosses one or more railroad tracks at grade. The Federal Transit Administration defines two types of grade crossings: (1) At grade, mixed, and cross traffic crossings, meaning railway right-of-way over which other traffic moving in the same direction or other cross directions may pass. This includes city street right-of-way; (2) At grade with cross traffic crossings, meaning railway right-of-way over which no other traffic may pass, except to cross at grade-level crossings. This can include median strip rights-of-way with grade level crossings at intersecting streets.

Transit accident figures include collisions with vehicles, objects, and people, derailments / vehicles going off the road. Accident figures do not include fires and personal casualties. The drop in the number of accidents in 2002 is due largely to a change in definitions by the Federal Transit Administration, particularly the definition of injuries. Only injuries requiring immediate medical treatment away from the scene now qualify as reportable. Previously, any injury was reportable. Directly Operated (DO) modes only. Highway-rail grade crossing for transit includes accidents occurring at highway-rail grade crossings resulting from operations of public transit rail modes including commuter rail. Data for light rail crossings are: 1995 (98); 1996 (97); 1997 (66); 1998 (66); 1999 (103); 2000 (106); 2001 (54); 2002 (112); 2003 (66); 2004 (107); 2005 (81); 2006 (74). *Transit only* includes accidents occurring at highway-rail grade crossings resulting from operations of public transit rail modes excluding commuter rail.

SOURCES: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, National Transportation Statistics 2007, table 2-3, available at <http://www.bts.gov/> as of September 2007.

Congestion and Other Impediments to Use of the Transportation System

The Travel Time Index (TTI) is the ratio of peak period travel time to free-flow travel time. It expresses the average amount of extra time it takes to travel in the peak period relative to free-flow travel.

TABLE C-1 Travel Time Index by Metro Area: 1982–2005

| Urban areas | Travel time index | | | |
|--------------------------------------|-------------------|------|------|------|
| | 1982 | 1995 | 2004 | 2005 |
| Chicago, IL-IN | 1.12 | 1.31 | 1.44 | 1.47 |
| San Diego, CA | 1.07 | 1.22 | 1.41 | 1.40 |
| Riverside-San Bernardino, CA | 1.03 | 1.19 | 1.35 | 1.35 |
| Dallas-Fort Worth-Arlington, TX | 1.05 | 1.16 | 1.31 | 1.35 |
| New York-Newark, NY-NJ-CT | 1.10 | 1.24 | 1.36 | 1.39 |
| Miami, FL | 1.11 | 1.26 | 1.37 | 1.38 |
| Sacramento, CA | 1.06 | 1.21 | 1.32 | 1.32 |
| San Francisco-Oakland, CA | 1.15 | 1.35 | 1.38 | 1.41 |
| Los Angeles-Long Beach-Santa Ana, CA | 1.25 | 1.44 | 1.48 | 1.50 |
| Washington, DC-VA-MD | 1.12 | 1.32 | 1.37 | 1.37 |
| Atlanta, GA | 1.10 | 1.25 | 1.32 | 1.34 |
| Austin, TX | 1.07 | 1.18 | 1.29 | 1.31 |
| Denver-Aurora, CO | 1.09 | 1.22 | 1.30 | 1.33 |
| Las Vegas, NV | 1.06 | 1.25 | 1.31 | 1.30 |
| Baltimore, MD | 1.07 | 1.20 | 1.29 | 1.30 |
| Seattle, WA | 1.07 | 1.30 | 1.28 | 1.30 |
| Minneapolis-St. Paul, MN | 1.04 | 1.18 | 1.24 | 1.26 |
| Portland, OR-WA | 1.07 | 1.20 | 1.27 | 1.29 |
| Charlotte, NC-SC | 1.07 | 1.13 | 1.25 | 1.23 |
| Oxnard-Ventura, CA | 1.03 | 1.12 | 1.22 | 1.24 |
| San Jose, CA | 1.13 | 1.25 | 1.32 | 1.34 |
| Orlando, FL | 1.10 | 1.27 | 1.30 | 1.30 |
| Boston, MA-NH-RI | 1.08 | 1.20 | 1.27 | 1.27 |
| San Antonio, TX | 1.04 | 1.10 | 1.23 | 1.23 |
| Houston, TX | 1.19 | 1.19 | 1.32 | 1.36 |
| Bridgeport-Stamford, CT-NY | 1.06 | 1.16 | 1.21 | 1.22 |
| Columbus, OH | 1.03 | 1.15 | 1.20 | 1.19 |
| Detroit, MI | 1.13 | 1.26 | 1.30 | 1.29 |
| Philadelphia, PA-NJ-DE-MD | 1.12 | 1.18 | 1.27 | 1.28 |
| Phoenix, AZ | 1.15 | 1.17 | 1.27 | 1.31 |

(continued on next page)

TABLE C-1 Travel Time Index by Metro Area: 1982–2005 *(continued)*

| Urban areas | Travel time index | | | |
|---------------------------------|-------------------|------|------|------|
| | 1982 | 1995 | 2004 | 2005 |
| El Paso, TX-NM | 1.02 | 1.07 | 1.16 | 1.17 |
| Cincinnati, OH-KY-IN | 1.04 | 1.06 | 1.18 | 1.18 |
| Indianapolis, IN | 1.08 | 1.24 | 1.23 | 1.22 |
| Jacksonville, FL | 1.07 | 1.20 | 1.22 | 1.21 |
| Raleigh-Durham, NC | 1.01 | 1.11 | 1.17 | 1.18 |
| Salt Lake City, UT | 1.05 | 1.19 | 1.21 | 1.19 |
| Providence, RI-MA | 1.03 | 1.08 | 1.17 | 1.16 |
| Tucson, AZ | 1.10 | 1.13 | 1.22 | 1.23 |
| Albuquerque, NM | 1.05 | 1.16 | 1.16 | 1.17 |
| Colorado Springs, CO | 1.02 | 1.07 | 1.12 | 1.14 |
| Louisville, KY-IN | 1.11 | 1.17 | 1.23 | 1.23 |
| Omaha, NE-IA | 1.04 | 1.11 | 1.16 | 1.16 |
| Birmingham, AL | 1.04 | 1.09 | 1.15 | 1.15 |
| Honolulu, HI | 1.11 | 1.21 | 1.20 | 1.22 |
| Virginia Beach, VA | 1.07 | 1.16 | 1.18 | 1.18 |
| Charleston-North Charleston, SC | 1.08 | 1.14 | 1.18 | 1.17 |
| Memphis, TN-MS-AR | 1.04 | 1.11 | 1.14 | 1.13 |
| Sarasota-Bradenton, FL | 1.10 | 1.15 | 1.19 | 1.19 |
| St. Louis, MO-IL | 1.07 | 1.18 | 1.16 | 1.16 |
| Allentown-Bethlehem, PA-NJ | 1.06 | 1.14 | 1.14 | 1.14 |
| Bakersfield, CA | 1.01 | 1.04 | 1.08 | 1.09 |
| Hartford, CT | 1.03 | 1.08 | 1.11 | 1.11 |
| Milwaukee, WI | 1.05 | 1.13 | 1.13 | 1.13 |
| Nashville-Davidson, TN | 1.09 | 1.13 | 1.17 | 1.17 |
| New Haven, CT | 1.03 | 1.08 | 1.10 | 1.11 |
| Pensacola, FL-AL | 1.03 | 1.08 | 1.11 | 1.11 |
| Tampa-St. Petersburg, FL | 1.20 | 1.30 | 1.29 | 1.29 |
| Fresno, CA | 1.05 | 1.11 | 1.12 | 1.12 |
| Grand Rapids, MI | 1.03 | 1.09 | 1.11 | 1.10 |
| Laredo, TX | 1.02 | 1.06 | 1.09 | 1.09 |
| Oklahoma City, OK | 1.02 | 1.07 | 1.09 | 1.09 |
| Salem, OR | 1.02 | 1.07 | 1.09 | 1.19 |
| Toledo, OH-MI | 1.02 | 1.07 | 1.10 | 1.09 |
| Albany-Schenectady, NY | 1.02 | 1.04 | 1.08 | 1.08 |
| Boulder, CO | 1.04 | 1.09 | 1.09 | 1.10 |
| Cleveland, OH | 1.03 | 1.11 | 1.10 | 1.09 |
| Eugene, OR | 1.04 | 1.04 | 1.08 | 1.10 |

(continued on next page)

TABLE C-1 Travel Time Index by Metro Area: 1982–2005 *(continued)*

| Urban areas | Travel time index | | | |
|--------------------------------|-------------------|-------------|-------------|-------------|
| | 1982 | 1995 | 2004 | 2005 |
| Kansas City, MO-KS | 1.02 | 1.07 | 1.08 | 1.08 |
| Tulsa, OK | 1.03 | 1.07 | 1.09 | 1.09 |
| Akron, OH | 1.02 | 1.06 | 1.08 | 1.07 |
| Buffalo, NY | 1.03 | 1.04 | 1.08 | 1.08 |
| Cape Coral, FL | 1.07 | 1.15 | 1.12 | 1.12 |
| Columbia, SC | 1.02 | 1.04 | 1.07 | 1.07 |
| Little Rock, AK | 1.02 | 1.04 | 1.07 | 1.07 |
| Richmond, VA | 1.04 | 1.09 | 1.09 | 1.09 |
| Rochester, NY | 1.02 | 1.05 | 1.07 | 1.07 |
| Brownsville, TX | 1.02 | 1.04 | 1.07 | 1.06 |
| New Orleans, LA | 1.11 | 1.16 | 1.15 | 1.15 |
| Beaumont, TX | 1.02 | 1.03 | 1.05 | 1.05 |
| Corpus Christi, TX | 1.03 | 1.04 | 1.05 | 1.06 |
| Dayton, OH | 1.07 | 1.12 | 1.11 | 1.10 |
| Pittsburgh, PA | 1.06 | 1.10 | 1.10 | 1.09 |
| Spokane, WA | 1.02 | 1.05 | 1.05 | 1.04 |
| Springfield, MA-CT | 1.04 | 1.06 | 1.06 | 1.06 |
| Anchorage, AK | 1.06 | 1.06 | 1.07 | 1.07 |
| 85-Area average | 1.11 | 1.22 | 1.29 | 1.30 |
| Very large area average | 1.14 | 1.29 | 1.36 | 1.38 |
| Large area average | 1.07 | 1.18 | 1.24 | 1.24 |
| Medium area average | 1.05 | 1.12 | 1.16 | 1.16 |
| Small area average | 1.03 | 1.07 | 1.09 | 1.09 |

NOTES: *Travel time index*—The ratio of travel time in the peak period to the travel time at free-flow conditions. A value of 1.35 indicates a 20 minute free-flow trip takes 27 minutes in the peak. Free-flow speeds (60 mph on freeways and 35 mph on principal arterials) are used as comparison thresholds.

Very large urban areas—over 3 million population. *Large urban areas*—over 1 million and less than 3 million population. *Medium urban areas*—over 500,000 and less than 1 million population. *Small urban areas*—less than 500,000 population.

Metropolitan Statistical Areas (MSAs) have changed from the previous releases.

SOURCE: Texas A&M University, Texas Transportation Institute, 2007 Urban Mobility Report (College Station, TX: 2005), also available at <http://tti.tamu.edu/> as of September 2007.

TABLE C-2 Average Hours of Annual Delay per Traveler: 1982–2005

| Urban areas | Hours | | | |
|--------------------------------------|-------|------|------|------|
| | 1982 | 1995 | 2004 | 2005 |
| Dallas-Fort Worth-Arlington, TX | 10 | 34 | 51 | 58 |
| San Diego, CA | 12 | 35 | 59 | 57 |
| Riverside-San Bernardino, CA | 5 | 28 | 47 | 49 |
| Washington, DC-VA-MD | 16 | 53 | 60 | 60 |
| Austin, TX | 12 | 32 | 44 | 49 |
| Minneapolis-St. Paul, MN | 6 | 34 | 40 | 43 |
| Orlando, FL | 18 | 54 | 56 | 54 |
| San Francisco-Oakland, CA | 24 | 56 | 56 | 60 |
| Oxnard-Ventura, CA | 4 | 21 | 35 | 39 |
| Atlanta, GA | 26 | 70 | 63 | 60 |
| Boston, MA-NH-RI | 12 | 30 | 45 | 46 |
| Denver-Aurora, CO | 16 | 37 | 46 | 50 |
| Miami, FL | 16 | 35 | 49 | 50 |
| New York-Newark, NY-NJ-CT | 46 | 42 | 30 | 12 |
| Baltimore, MD | 11 | 33 | 43 | 44 |
| Charlotte, NC-SC | 12 | 23 | 47 | 45 |
| San Antonio, TX | 6 | 19 | 38 | 39 |
| Seattle, WA | 13 | 52 | 42 | 45 |
| Chicago, IL-IN | 15 | 33 | 44 | 46 |
| San Jose, CA | 23 | 51 | 51 | 54 |
| Columbus, OH | 4 | 27 | 34 | 33 |
| Detroit, MI | 25 | 51 | 56 | 54 |
| Las Vegas, NV | 10 | 37 | 39 | 39 |
| Los Angeles-Long Beach-Santa Ana, CA | 45 | 71 | 70 | 72 |
| Raleigh-Durham, NC | 8 | 26 | 35 | 35 |
| Sacramento, CA | 41 | 40 | 35 | 14 |
| Houston, TX | 30 | 32 | 52 | 56 |
| Providence, RI-MA | 3 | 12 | 29 | 29 |
| Birmingham, AL | 8 | 21 | 33 | 33 |
| Portland, OR-WA | 13 | 33 | 37 | 38 |
| Indianapolis, IN | 19 | 53 | 46 | 43 |
| Louisville, KY-IN | 18 | 34 | 44 | 42 |
| Memphis, TN-MS-AR | 6 | 23 | 29 | 30 |
| Colorado Springs, CO | 4 | 12 | 22 | 27 |
| Jacksonville, FL | 16 | 40 | 41 | 39 |
| Albuquerque, NM | 11 | 30 | 30 | 33 |
| Bridgeport-Stamford, CT-NY | 9 | 22 | 28 | 31 |
| Cincinnati, OH-KY-IN | 5 | 26 | 27 | 27 |
| Philadelphia, PA-NJ-DE-MD | 16 | 27 | 37 | 38 |

(continued on next page)

TABLE C-2 Average Hours of Annual Delay per Traveler: 1982–2005 *(continued)*

| Urban areas | Hours | | | |
|---------------------------------|-------|------|------|------|
| | 1982 | 1995 | 2004 | 2005 |
| El Paso, TX-NM | 3 | 10 | 22 | 24 |
| St. Louis, MO-IL | 12 | 38 | 31 | 33 |
| Nashville-Davidson, TN | 20 | 35 | 40 | 40 |
| Omaha, NE-IA | 5 | 19 | 26 | 25 |
| Pensacola, FL-AL | 5 | 16 | 24 | 25 |
| Salt Lake City, UT | 8 | 32 | 29 | 27 |
| Grand Rapids, MI | 6 | 19 | 24 | 24 |
| Tucson, AZ | 24 | 23 | 39 | 42 |
| Charleston-North Charleston, SC | 15 | 28 | 32 | 31 |
| Tampa-St. Petersburg, FL | 24 | 27 | 30 | 30 |
| Virginia Beach, VA | 14 | 27 | 30 | 30 |
| Cape Coral, FL | 9 | 28 | 24 | 24 |
| Hartford, CT | 4 | 13 | 19 | 19 |
| Oklahoma City, OK | 5 | 17 | 22 | 20 |
| Kansas City, MO-KS | 3 | 17 | 16 | 17 |
| New Haven, CT | 5 | 13 | 18 | 19 |
| Richmond, VA | 6 | 22 | 20 | 20 |
| Albany-Schenectady, NY | 3 | 8 | 16 | 16 |
| Allentown-Bethlehem, PA-NJ | 9 | 21 | 22 | 22 |
| Little Rock, AK | 4 | 10 | 17 | 17 |
| Phoenix, AZ | 35 | 33 | 42 | 48 |
| Toledo, OH-MI | 2 | 12 | 17 | 15 |
| Bakersfield, CA | 2 | 7 | 12 | 14 |
| Columbia, SC | 7 | 11 | 16 | 16 |
| Milwaukee, WI | 7 | 22 | 20 | 19 |
| Salem, OR | 3 | 12 | 14 | 14 |
| Tulsa, OK | 8 | 14 | 19 | 19 |
| Cleveland, OH | 3 | 16 | 14 | 13 |
| Honolulu, HI | 14 | 26 | 22 | 24 |
| Laredo, TX | 2 | 7 | 11 | 12 |
| Sarasota-Bradenton, FL | 15 | 19 | 26 | 25 |
| Boulder, CO | 16 | 16 | 16 | 7 |
| Akron, OH | 2 | 9 | 11 | 10 |
| Buffalo, NY | 3 | 6 | 11 | 11 |
| Eugene, OR | 12 | 17 | 19 | 20 |
| Fresno, CA | 6 | 7 | 12 | 14 |
| Beaumont, TX | 4 | 6 | 11 | 11 |
| Dayton, OH | 10 | 22 | 19 | 17 |
| Rochester, NY | 3 | 7 | 10 | 40 |

(continued on next page)

TABLE C-2 Average Hours of Annual Delay per Traveler: 1982–2005 *(continued)*

| Urban areas | Hours | | | |
|--------------------------------|-----------|-----------|-----------|-----------|
| | 1982 | 1995 | 2004 | 2005 |
| Brownsville, TX | 2 | 4 | 8 | 8 |
| Corpus Christi, TX | 5 | 7 | 10 | 10 |
| Pittsburgh, PA | 11 | 19 | 17 | 16 |
| Spokane, WA | 3 | 10 | 8 | 8 |
| Springfield, MA-CT | 7 | 10 | 10 | 11 |
| New Orleans, LA | 16 | 20 | 18 | 18 |
| Anchorage, AK | 10 | 9 | 10 | 10 |
| 85-Area average | 16 | 36 | 42 | 44 |
| Very large area average | 21 | 43 | 51 | 54 |
| Large area average | 11 | 30 | 36 | 37 |
| Medium area average | 9 | 21 | 27 | 28 |
| Small area average | 6 | 13 | 17 | 17 |

NOTES: *Annual delay per traveler*—Extra travel time for peak-period travel during the year divided by the number of travelers who begin a trip during the peak period (6 to 9 a.m. and 4 to 7 p.m.). Free-flow speeds (60 mph on freeways and 35 mph on principal arterials) are used as the comparison threshold.

Very large urban areas—over 3 million population. *Large urban areas*—over 1 million and less than 3 million population. *Medium urban areas*—over 500,000 and less than 1 million population. *Small urban areas*—less than 500,000 population.

Metropolitan Statistical Areas (MSAs) have changed from the previous releases.

SOURCE: Texas A&M University, Texas Transportation Institute, 2007 Urban Mobility Report (College Station, TX: 2005), also available at <http://tti.tamu.edu/> as of September 2007.

FIGURE C-3 Major U.S. Air Carrier On-Time Performance: 1995–2007

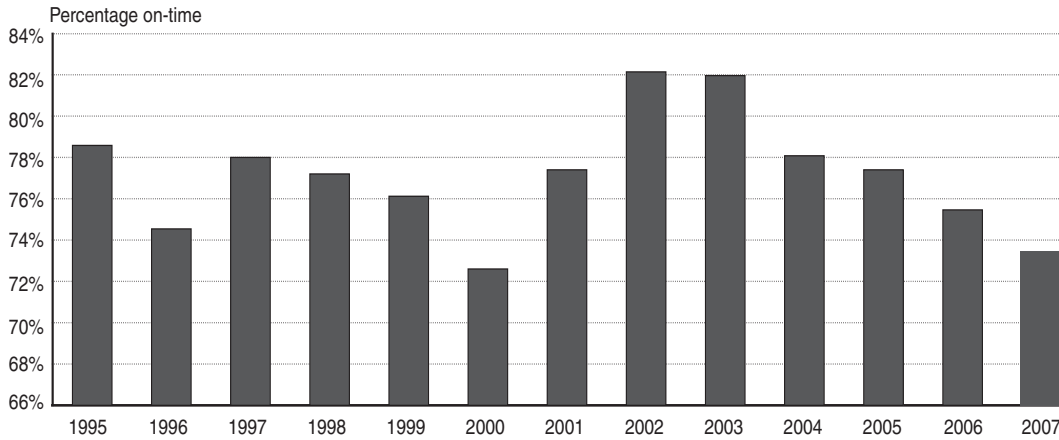


TABLE C-3 Major U.S. Air Carrier On-Time Performance: 1995–2007
Thousands of flights and operations

| | Late departures | Late arrivals | Cancellations | Diversions | On-time arrivals (%) | Total flights |
|------|-----------------|---------------|---------------|------------|----------------------|---------------|
| 1995 | 828 | 1,039 | 92 | 10 | 79% | 5,327 |
| 1996 | 974 | 1,220 | 129 | 14 | 75% | 5,352 |
| 1997 | 847 | 1,084 | 98 | 12 | 78% | 5,412 |
| 1998 | 870 | 1,070 | 145 | 13 | 77% | 5,385 |
| 1999 | 937 | 1,153 | 154 | 14 | 76% | 5,528 |
| 2000 | 1,132 | 1,356 | 187 | 14 | 73% | 5,683 |
| 2001 | 954 | 1,104 | 231 | 13 | 77% | 5,968 |
| 2002 | 717 | 868 | 65 | 8 | 82% | 5,271 |
| 2003 | 834 | 1,058 | 101 | 11 | 82% | 6,489 |
| 2004 | 1,188 | 1,421 | 128 | 14 | 78% | 7,129 |
| 2005 | 1,279 | 1,466 | 134 | 14 | 77% | 7,141 |
| 2006 | 1,425 | 1,616 | 122 | 16 | 75% | 7,142 |
| 2007 | 1,572 | 1,803 | 161 | 17 | 73% | 7,453 |

NOTES: *Late departures* are flights departing 15 minutes or more after the scheduled departure time. *Late arrivals* are flights arriving 15 minutes or more after the scheduled arrival time. Late departures and arrivals are strongly seasonal and are affected by weather and heavy demand in winter and summer months. *Cancellations* are flights that were not operated, but were listed in a carrier's computer reservation system within 7 calendar days of the scheduled departure. *Diversions* are flights that left from the scheduled departure airport, but flew to a destination point other than the scheduled destination point.

In 2007, 20 air carriers reported on-time performance data, including all major U.S. carriers (carriers with at least one percent of total domestic scheduled-service passenger revenues) and other carriers that reported voluntarily. The number of carriers reporting in previous years is as follows: 2006 (20); 2005 (20); 2004 (19); 2003 (18); 2002 (10); 2001 (12); 2000 (11); 1999 (10); 1998 (10); 1997 (10); 1996 (10); and 1995 (10).

SOURCES: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Airline On-Time Tables, Table 1 - *Summary of Airline On-Time Performance Year-to-date through December 2007*, available at <http://www.bts.gov/> as of March 28, 2007.

Figure C-4 Amtrak Trains Arriving On Time: FY1995–2006

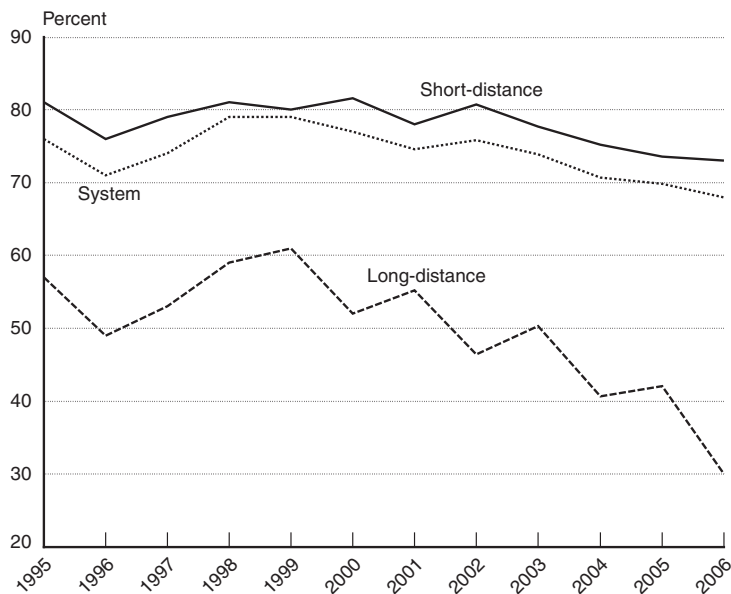


TABLE C-4 Amtrak Trains Arriving On Time: FY1995–2006

Percent

| Fiscal years | System on-time performance | Short distance (<400 miles) | Long distance (≥400 miles) |
|--------------|----------------------------|-----------------------------|----------------------------|
| 1995 | 76 | 81 | 57 |
| 1996 | 71 | 76 | 49 |
| 1997 | 74 | 79 | 53 |
| 1998 | 79 | 81 | 59 |
| 1999 | 79 | 80 | 61 |
| 2000 | 77 | 82 | 52 |
| 2001 | 75 | 78 | 55 |
| 2002 | 76 | 81 | 46 |
| 2003 | 74 | 78 | 50 |
| 2004 | 71 | 75 | 41 |
| 2005 | 70 | 74 | 42 |
| 2006 | 68 | 73 | 30 |

NOTES: *Short distance* includes all Amtrak Northeast Corridor and Empire Service (New York State) trains. Amtrak provides on-time performance data in percentages. Amtrak revised its methodology for collecting and calculating on-time performance data in 2001. This resulted in minor changes in short-distance, long-distance, and system on-time performance percentages starting in 2001 compared with previous years.

SOURCES: **1995–1999:** National Railroad Passenger Corp. (Amtrak), *Amtrak Annual Report* (Washington, DC: annual issues). **2000–2006:** Amtrak, personal communication, June 2007.

TABLE C-5 Amtrak Hours of Delay by Cause: 2000–2006

| | Amtrak | Host railroad | Other | Total |
|------|---------------|----------------------|--------------|--------------|
| 2000 | 23,337 | 43,881 | 3,176 | 70,396 |
| 2001 | 27,822 | 52,273 | 3,741 | 83,837 |
| 2002 | 26,575 | 55,090 | 4,266 | 85,932 |
| 2003 | 25,711 | 57,346 | 5,355 | 88,413 |
| 2004 | 28,328 | 61,256 | 5,577 | 95,162 |
| 2005 | 25,549 | 64,097 | 5,613 | 95,259 |
| 2006 | 23,968 | 71,387 | 6,166 | 101,522 |

NOTES: Data may not add to total because of independent rounding. Data not collected prior to 2000. *Amtrak* includes all delays when operating on Amtrak-owned tracks and delays for equipment or engine failure, passenger handling, holding for connections, train servicing, and mail/baggage handling when on tracks of a host railroad.

Host railroad includes all operating delays not attributable to Amtrak when operating on tracks of a host railroad, such as track- and signal-related delays, power failures, freight and commuter train interference, and routing delays. Also includes delays for track repairs/track conditions, freight train interference, and signal delays.

Other includes delays not attributable to Amtrak or host railroads, such as customs and immigrations, law enforcement action, weather, or waiting for scheduled departure time.

SOURCE: 2000–2006—Amtrak, personal communication, June 2007.

Line-haul speed is a shipper-related indicator of the performance of the railroad industry. The average speed is the over-the-road train speed and does not include terminal dwell time, time for local pickup and delivery, and the time shipments spend in storage yards.

**Table C-6 Rail Freight Average Speeds, Revenue Ton-Miles, and Terminal Dwell Times:
Q3 1999–Q4 2006**

| Quarter | Average line-haul speed (mph) | Revenue ton-miles (billions) | Average terminal dwell time (hours) |
|---------|-------------------------------|---------------------------------|--|
| 1999 Q3 | 23.0 | 364.0 | U |
| 1999 Q4 | 23.3 | 372.8 | U |
| 2000 Q1 | 24.2 | 358.6 | U |
| 2000 Q2 | 23.9 | 359.7 | U |
| 2000 Q3 | 23.8 | 376.0 | U |
| 2000 Q4 | 24.0 | 361.3 | U |
| 2001 Q1 | 24.4 | 370.4 | U |
| 2001 Q2 | 24.0 | 364.6 | U |
| 2001 Q3 | 24.3 | 367.7 | U |
| 2001 Q4 | 24.8 | 371.3 | U |
| 2002 Q1 | 25.4 | 352.0 | U |
| 2002 Q2 | 25.6 | 369.1 | U |
| 2002 Q3 | 24.9 | 361.2 | U |
| 2002 Q4 | 25.2 | 364.2 | U |
| 2003 Q1 | 24.7 | 368.4 | U |
| 2003 Q2 | 24.3 | 379.2 | U |
| 2003 Q3 | 23.7 | 387.6 | U |
| 2003 Q4 | 23.6 | 396.0 | U |
| 2004 Q1 | 23.2 | 395.6 | U |
| 2004 Q2 | 22.3 | 409.8 | 27.0 |
| 2004 Q3 | 22.5 | 417.3 | 26.4 |
| 2004 Q4 | 22.1 | 429.3 | 27.3 |
| 2005 Q1 | 21.7 | 416.7 | 27.5 |
| 2005 Q2 | 21.6 | 417.8 | 26.3 |
| 2005 Q3 | 21.7 | 421.0 | 25.9 |
| 2005 Q4 | 20.8 | 420.6 | 27.2 |
| 2006 Q1 | 21.4 | 429.8 | 25.9 |
| 2006 Q2 | 21.4 | 442.7 | 24.6 |
| 2006 Q3 | 21.7 | 443.6 | 23.9 |
| 2006 Q4 | 22.1 | 437.2 | 24.0 |

U = Data are unavailable

SOURCES: Average line-haul speed and terminal dwell time—U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, calculations using data reported by Class I railroads to the Association of American Railroads for posting at <http://www.railroadpm.org/>, and Surface Transportation Board (STB), *Statistics of Class I Railroads in the United States*, table 8, available at <http://www.stb.dot.gov/> as of August 2007. **Revenue ton-miles**—STB, *Quarterly Selected Earnings Report*, available at <http://www.stb.dot.gov/> as of August 2007.

TABLE C-7 Average Daytime Wait Times for Commercial Vehicles at Selected U.S. Surface Border Gateways: 2003 and 2004
Minutes

| | 2003 | 2004 |
|---|------------|------------|
| United States–Canada border | | |
| Port Huron-Bluewater Bridge, MI | 26.8 | 25.2 |
| Blaine-Pacific Highway, WA | 18.7 | 15.0 |
| Detroit-Ambassador Bridge, MI | 16.1 | 14.8 |
| Buffalo/Niagara Falls-Peace Bridge, NY | 10.0 | 12.5 |
| Champlain, NY | 3.7 | 11.6 |
| Sumas, WA | 11.0 | 7.6 |
| Buffalo/Niagara Falls-Lewiston Bridge, NY | 12.1 | 7.2 |
| Sweetgrass, MT | 4.8 | 6.8 |
| Derby Line, VT | 6.1 | 5.6 |
| Pembina, ND | 5.6 | 5.4 |
| Houlton, ME | 3.3 | 5.3 |
| Sault Ste. Marie, MI | 6.7 | 5.1 |
| Highgate Springs, VT | 4.5 | 4.6 |
| Detroit-Windsor Tunnel, MI | 3.6 | 4.0 |
| Calais-Ferry Point, ME | 14.7 | 3.9 |
| Jackman, ME | 1.3 | 1.3 |
| Average | 9.3 | 8.5 |
| United States–Mexico border | | |
| Laredo-World Trade Bridge, TX | 17.2 | 20.5 |
| Nogales-Mariposa, AZ | 10.4 | 18.2 |
| Otay Mesa, CA | 15.9 | 15.5 |
| El Paso-Ysleta, TX | 8.3 | 11.0 |
| Brownsville-Veterans International, TX | 8.8 | 10.0 |
| Hidalgo/Pharr, TX | 7.8 | 8.8 |
| Calexico-East, CA | 7.9 | 6.6 |
| Tecate, CA | 5.0 | 6.1 |
| El Paso-Bridge of the Americas (BOTA), TX | 6.1 | 5.9 |
| Laredo-Colombia Solidarity, TX | 4.9 | 3.7 |
| Del Rio, TX | 3.0 | 2.6 |
| Rio Grande City, TX | 3.1 | 2.5 |
| Brownsville-Los Indios, TX | 1.5 | 1.3 |
| Santa Teresa, NM | 1.4 | 1.1 |
| Progreso, TX | 0.7 | 0.8 |
| Presidio, TX | 1.6 | 0.5 |
| Eagle Pass–Bridge I, TX | 1.6 | U |
| Average | 6.2 | 7.3 |

KEY: U = Data are unavailable.

NOTES: Wait times for commercial vehicles are recorded hourly. Daytime hours (between 8:00 a.m. and 6:00 p.m.) are generally the busiest portion of the day and are representative of typical delays encountered by the majority of vehicles. Wait times can, however, vary considerably by crossing, time of day, and day of the week, and the actual delays that occur on occasion may be substantially longer than the averages represented above.

SOURCE: U.S. Department of Homeland Security, U.S. Customs and Border Protection, personal communication, April 2005.

TABLE C-8 Average Daytime Wait Times for Passenger Vehicles at Selected U.S. Surface Border Gateways: 2003 and 2004
Minutes

| | 2003 | 2004 |
|---|-------------|-------------|
| United States–Canada border | | |
| Blaine–Peace Arch, WA | 21.1 | 13.7 |
| Buffalo/Niagara Falls–Lewiston Bridge, NY | 7.8 | 10.0 |
| Blaine–Pacific Highway, WA | 11.5 | 9.1 |
| Champlain, NY | 4.1 | 7.5 |
| Sumas, WA | 6.4 | 7.0 |
| Port Huron–Bluewater Bridge, MI | 7.7 | 6.7 |
| Buffalo/Niagara Falls–Rainbow Bridge, NY | 3.6 | 6.2 |
| Buffalo/Niagara Falls–Peace Bridge, NY | 5.5 | 5.9 |
| Sault Ste. Marie, MI | 8.0 | 5.8 |
| Sweetgrass, MT | 8.1 | 4.9 |
| Detroit–Windsor Tunnel, MI | 6.8 | 4.9 |
| Calais–Ferry Point, ME | 14.9 | 3.9 |
| Pembina, ND | 2.9 | 3.9 |
| Highgate Springs, VT | 6.8 | 3.5 |
| Detroit–Ambassador Bridge, MI | 4.7 | 3.3 |
| Jackman, ME | 3.4 | 2.2 |
| Derby Line, VT | 3.4 | 1.3 |
| Average | 7.5 | 5.9 |
| United States–Mexico border | | |
| San Ysidro, CA | 42.3 | 36.1 |
| Nogales–Deconcini, AZ | 27.0 | 33.0 |
| Nogales–Mariposa, AZ | 21.2 | 28.6 |
| Calexico–West, CA | 21.9 | 25.1 |
| Otay Mesa, CA | 27.8 | 24.1 |
| El Paso–Bridge of the Americas (BOTA), TX | 35.4 | 23.8 |
| San Luis, AZ | 23.9 | 21.3 |
| Laredo–Bridge II, TX | 16.6 | 19.4 |
| Laredo–Bridge I, TX | 12.8 | 18.4 |
| Tecate, CA | 17.2 | 17.5 |
| Hidalgo/Pharr, TX | 21.6 | 17.2 |
| El Paso–Ysleta, TX | 17.1 | 16.8 |
| El Paso–Paso Del Norte (PDN), TX | 17.2 | 16.0 |
| Calexico–East, CA | 9.1 | 14.0 |
| Douglas, AZ | 10.8 | 13.7 |
| Hidalgo/Pharr, TX | 12.6 | 12.3 |
| Brownsville–Gateway, TX | 12.8 | 11.0 |
| Brownsville–B&M, TX | 13.2 | 11.0 |
| Del Rio, TX | 11.1 | 10.9 |
| Brownsville–Veterans International, TX | 12.0 | 9.5 |
| Eagle Pass–Bridge I, TX | 7.7 | 7.7 |
| Andrade, CA | 3.9 | 7.1 |
| Eagle Pass–Bridge II, TX | 6.8 | 6.1 |
| Progreso, TX | 4.5 | 5.8 |
| Brownsville–Los Indios, TX | 6.0 | 4.7 |
| Roma, TX | 4.5 | 4.3 |
| Rio Grande City, TX | 3.9 | 3.9 |
| Santa Teresa, NM | 4.1 | 2.1 |
| Presidio, TX | 6.0 | 0.9 |
| Average | 14.5 | 14.6 |

NOTES: Wait times for private vehicles are recorded hourly. Daytime hours (between 8:00 a.m. and 6:00 p.m.) are generally the busiest portion of the day and are representative of typical delays encountered by the majority of vehicles. Wait times can, however, vary considerably by crossing, time of day, and day of the week, and the actual delays that occur on occasion may be substantially longer than the averages represented above.

SOURCE: U.S. Department of Homeland Security, U.S. Customs and Border Protection, personal communication, April 2005.

A roadside inspection is an examination of individual commercial motor vehicles and drivers to determine if they are in compliance with the Federal Motor Carrier Safety Regulations or Hazardous Materials Regulations. If a serious violation is detected, the driver is issued an out-of-service order. The violation must then be corrected before the driver or vehicle may return to service.

TABLE C-9 Roadside Truck Inspections: 1995–2006

Thousands

| | Trucks inspected | Trucks taken out of service | Percent of inspected trucks taken out of service |
|------|------------------|-----------------------------|--|
| 1995 | 1,840 | 417 | 23 |
| 1996 | 2,039 | 437 | 21 |
| 1997 | 2,148 | 439 | 20 |
| 1998 | 1,763 | 448 | 25 |
| 1999 | 1,862 | 453 | 24 |
| 2000 | 1,928 | 457 | 24 |
| 2001 | 2,072 | 486 | 23 |
| 2002 | 2,173 | 498 | 23 |
| 2003 | 2,165 | 495 | 23 |
| 2004 | 2,253 | 532 | 24 |
| 2005 | 2,202 | 514 | 23 |
| 2006 | 2,410 | 552 | 23 |

NOTES: Trucks are taken out of service (OOS) when inspectors find serious violations that warrant the issuance of a vehicle OOS order. There may be data inconsistencies across the 1995-2006 time series. The Bureau of Transportation Statistics obtained the data at different times (see Sources) and was unable to verify the consistency of the entire data series prior to publication.

SOURCES: 1995-1998—U.S. Department of Transportation (USDOT), Federal Motor Carrier Safety Administration (FMCSA), Motor Carrier Management Information System, available at <http://www.fmcsa.dot.gov/> as of June 2003. **1999-2000**—USDOT, FMCSA, personal communication, Aug. 11, 2003. **2001-2002**—USDOT, FMCSA, Roadside Inspection Activity Summary by Inspection Type, available at <http://ai.volpe.dot.gov/> as of March 2005. **2003-2006**—USDOT, FMCSA, Roadside Inspection Activity Summary by Inspection Type, available at <http://ai.volpe.dot.gov/> as of June 2007.

TABLE C-10 Rail Replaced or Added by U.S. Class I Railroads: 1995–2005

Thousands of tons

| | Rail replaced | Rail added |
|------|---------------|------------|
| 1995 | 657.6 | 61.3 |
| 1996 | 803.3 | 68.7 |
| 1997 | 642.7 | 113.8 |
| 1998 | 679.0 | 204.8 |
| 1999 | 769.3 | 213.4 |
| 2000 | 726.1 | 196.3 |
| 2001 | 660.1 | 197.0 |
| 2002 | 635.5 | 125.2 |
| 2003 | 632.6 | 139.4 |
| 2004 | 591.4 | 45.1 |
| 2005 | 424.0 | 48.4 |

SOURCES: 1995–1999—Association of American Railroads, *Railroad Ten-Year Trends, 1990–2000* (Washington, DC: 2000); **2000–2005**—Association of American Railroads, *Analysis of Class I Railroads* (Washington, DC: 2001–2006).

TABLE C-11 Crossties Replaced or Added by U.S. Class I Railroads: 1995–2005

Millions of crossties

| | Crossties replaced | Crossties added |
|------|--------------------|-----------------|
| 1995 | 12.1 | 0.7 |
| 1996 | 13.4 | 0.8 |
| 1997 | 11.9 | 1.5 |
| 1998 | 10.4 | 1.8 |
| 1999 | 10.8 | 1.3 |
| 2000 | 10.8 | 0.7 |
| 2001 | 11.4 | 0.5 |
| 2002 | 13.1 | 0.3 |
| 2003 | 13.2 | 0.5 |
| 2004 | 13.3 | 0.5 |
| 2005 | 13.4 | 0.9 |

SOURCES: 1995–1999—Association of American Railroads, *Railroad Ten-Year Trends, 1990–2000* (Washington, DC: 2000); **2000–2005**—Association of American Railroads, *Analysis of Class I Railroads* (Washington, DC: 2001–2006).

TABLE C-12 New and Rebuilt Locomotives and Freight Cars: 1995–2005

| | Locomotives | Percentage of fleet | Freight cars | Percentage of fleet |
|------|-------------|---------------------|--------------|---------------------|
| 1995 | 1,129 | 6.0 | 66,052 | 5.4 |
| 1996 | 821 | 4.3 | 59,993 | 4.8 |
| 1997 | 811 | 4.1 | 51,963 | 4.1 |
| 1998 | 1,061 | 5.2 | 83,076 | 6.3 |
| 1999 | 865 | 4.3 | 77,901 | 5.7 |
| 2000 | 721 | 3.6 | 58,245 | 4.2 |
| 2001 | 755 | 3.8 | 35,475 | 2.7 |
| 2002 | 778 | 3.8 | 18,832 | 1.4 |
| 2003 | 621 | 3.0 | 33,155 | 2.6 |
| 2004 | 1,126 | 5.1 | 47,843 | 3.7 |
| 2005 | 911 | 4.0 | 70,154 | 5.3 |

NOTES: Locomotive data are for Class I railroads only. Freight car data cover Class I railroads, other railroads, and private car owners.

SOURCE: Association of American Railroads, *Railroad Facts 2006* (Washington, DC: 2006), pp. 49, 51, and 55.

TABLE C-13 Interruptions of Service by Type of Transit: 1995–2000 & 2001–2005
 Number per 100,000 revenue vehicle-miles

| | Motor bus | Light rail | Heavy rail | Commuter rail | Demand response |
|------|-----------|------------|------------|---------------|-----------------|
| 1995 | 38 | 33 | 4 | 4 | 4 |
| 1996 | 38 | 27 | 4 | 3 | 4 |
| 1997 | 37 | 21 | 3 | 3 | 5 |
| 1998 | 38 | 15 | 7 | 3 | 5 |
| 1999 | 38 | 17 | 7 | 3 | 5 |
| 2000 | 37 | 15 | 6 | 3 | 5 |
| 2001 | 27 | 14 | 3 | 2 | 4 |
| 2002 | 24 | 14 | 5 | 1 | 3 |
| 2003 | 22 | 14 | 3 | 1 | 4 |
| 2004 | 21 | 13 | 4 | 0 | 3 |
| 2005 | 22 | 15 | 5 | 1 | 3 |

NOTES: Data from 1995–2000 and 2001–2005 are not comparable due to a methodology change. *Interruptions of service* include major and minor mechanical failures. Since 2001, if the vehicle operator was able to fix the problem and return the vehicle to service without assistance, the incident has not been considered an interruption of service. For definitions of service types, see Glossary.

SOURCES: U.S. Department of Transportation (USDOT), Research and Innovative Technology Administration, Bureau of Transportation Statistics, calculations based on various data. **Revenue vehicle-miles**—USDOT, Federal Transit Administration (FTA), National Transit Database, *2005 National Transit Summaries and Trends*, available at <http://www.ntdprogram.com/> as of February 2007. **1996-2005 interruptions of service**—USDOT, FTA, National Transit Database, 2005 Data Tables, Revenue Vehicle Maintenance Performance table, available at <http://www.ntdprogram.com/> as of February 2007.

TABLE C-14 St. Lawrence Seaway U.S. Locks Downtime by Cause: 1995–2006
Hours of downtime, unless otherwise noted

| | Weather related | Vessel incident | All other causes | Total downtime hours | Weather (percentage of total) | System availability (percentage) |
|------|-----------------|-----------------|------------------|----------------------|-------------------------------|----------------------------------|
| 1995 | 88.5 | 32.6 | 16.7 | 137.8 | 64 | 99.0 |
| 1996 | 143.4 | 38.3 | 5.9 | 187.6 | 76 | 97.0 |
| 1997 | 65.2 | 31.2 | 35.6 | 132.0 | 49 | 98.0 |
| 1998 | 43.2 | 43.3 | 12.1 | 98.6 | 44 | 98.5 |
| 1999 | 2.0 | 46.3 | 1.3 | 49.6 | 4 | 99.2 |
| 2000 | 53.7 | 27.8 | 2.6 | 84.1 | 64 | 98.7 |
| 2001 | 56.8 | 45.1 | 8.9 | 110.8 | 51 | 98.3 |
| 2002 | 41.1 | 16.9 | 5.1 | 63.1 | 65 | 99.1 |
| 2003 | 57.6 | 15.9 | 0.0 | 73.5 | 78 | 98.9 |
| 2004 | 43.8 | 15.0 | 7.2 | 66.0 | 66 | 99.0 |
| 2005 | 16.9 | 12.1 | 6.0 | 35.0 | 48 | 99.5 |
| 2006 | 19.1 | 34.5 | 8.8 | 62.4 | 31 | 99.1 |

NOTES: *Weather-related* causes includes poor visibility and high wind/ice; *All other causes* includes lock equipment malfunction, civil interference, pilotage, and water level/flow. These data pertain only to the two U.S. locks (Snell and Eisenhower) on the St. Lawrence Seaway between the Port of Montreal and Lake Ontario. Canada operates another five locks along this portion of the Seaway, as well as other Seaway locks at the Welland Canal.

SOURCES: **1995–2001**—U.S. Department of Transportation, Saint Lawrence Seaway Development Corp. (SLSDC), *Annual Reports* (Washington, DC: Various years). Reports for 1997–2001 available at <http://www.greatlakes-seaway.com/> as of March 2004. **2002, 2003, 2004, 2005, and 2006**—SLDC, personal communication, March and December 2004, February 2005, May 2006, and June 2007.

TABLE C-15 Airline Delays by Cause

| Year at end of period | Number of scheduled operations | Number of delayed flights | Average minutes of delay | Percentage of delay minutes due to: | | | | |
|-----------------------|--------------------------------|---------------------------|--------------------------|-------------------------------------|-----------------|--------------------------|----------|---------------|
| | | | | Carrier | Extreme weather | National aviation system | Security | Late aircraft |
| 2004 | 7,129,270 | 1,421,391 | 51.4 | 25.8 | 6.9 | 33.5 | 0.2 | 33.6 |
| 2005 | 7,140,595 | 1,466,065 | 52.2 | 28.0 | 6.2 | 31.4 | 0.2 | 34.2 |
| 2006 | 7,141,922 | 1,615,537 | 54.0 | 27.8 | 5.6 | 29.4 | 0.3 | 37.0 |
| 2007 | 7,455,458 | 1,804,028 | 56.0 | 28.6 | 5.7 | 27.9 | 0.2 | 37.6 |

NOTES: On-time performance data is currently collected for 19 large carriers.

A flight is considered delayed when it arrived 15 or more minutes later than the schedule arrival (see definitions in Frequently Asked Questions). Average minutes of delay are calculated for delayed flights only. When multiple causes are assigned to one delayed flight, each cause is prorated based on delayed minutes it is responsible for. The displayed numbers are rounded and may not add to the total.

SOURCE: U.S. Department of Transportation (USDOT), Research and Innovative Technology Administration, Bureau of Transportation Statistics, Airline Service Quality Performance 234. For more information, see http://www.transtats.bts.gov/OT_Delay/OT_DelayCause1.asp

TABLE C-16 Domestic Enplanements at U.S. Air Traffic Hubs: 1995–2007
Thousands of Passengers

| | Total enplanements | Large hubs | Medium hubs | Small hubs | Nonhubs |
|----------|--------------------|------------|-------------|------------|---------|
| 1995 | 526,055 | 392,602 | 85,929 | 33,561 | 13,963 |
| 1996 | 558,184 | 417,340 | 89,019 | 37,123 | 14,702 |
| 1997 | 568,616 | 426,246 | 90,780 | 36,299 | 15,291 |
| 1998 | 588,335 | 442,402 | 91,756 | 37,675 | 16,502 |
| 1999 | 610,629 | 458,665 | 96,395 | 38,645 | 16,924 |
| 2000 | 639,754 | 479,570 | 102,082 | 40,121 | 17,980 |
| 2001 | 595,365 | 413,634 | 124,588 | 42,834 | 14,309 |
| 2002 | 575,059 | 401,697 | 119,734 | 40,054 | 13,574 |
| 2003 | 593,132 | 424,621 | 109,493 | 43,546 | 15,473 |
| 2004 | 652,413 | 447,501 | 135,364 | 51,812 | 17,736 |
| 2005 | 690,136 | 473,367 | 143,749 | 53,292 | 19,727 |
| 2006 | 690,766 | 475,208 | 142,139 | 55,008 | 18,410 |
| (P) 2007 | 712,627 | 488,299 | 147,068 | 57,501 | 19,760 |

KEY: P = preliminary

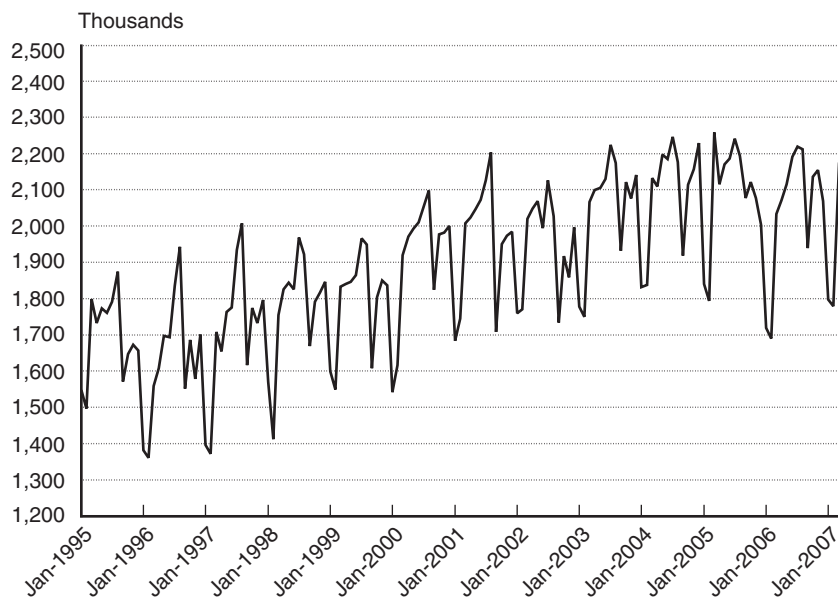
NOTES: Data are for all scheduled and nonscheduled service by large certificated U.S. air carriers at all airports served within the 50 states, the District of Columbia, and other U.S. areas designated by the Federal Aviation Administration. Not all scheduled service is actually performed. Moreover, for several years, total performed departures exceed total scheduled departures because nonscheduled departures are included in the totals. Prior to 1993, all scheduled and some nonscheduled enplanements for certificated air carriers were included; no enplanements were included for air carriers offering charter service only.

Prior to 2000, air traffic hubs are designated as geographical areas based on the percentage of total passengers enplaned in the area. Under this designation, a hub may have more than one airport in it. (This definition of hub should not be confused with the definition used by the airlines in describing their "hub-and-spoke" route structures). Individual communities fall into four hub classifications as determined by each community's percentage of total enplaned revenue passengers in all services and all operations of U.S. certificated route carriers within the 50 states, the District of Columbia, and other U.S. areas. For 2000 and later, hub designation is based on passenger boardings at individual airports as designated by the FAA. Classifications are based on the percentage of total enplaned revenue passengers for each year according to the following: 1 percent or more = large, 0.25 to 0.9999 percent = medium, 0.05 to 0.249 percent = small, less than 0.05 = nonhub.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2008*, table 1-34, available at <http://www.bts.gov/> as of May 2008.

FIGURE C-17 Amtrak Ridership: 1995–2007

Number of passengers (monthly data, not seasonally adjusted)

**TABLE C-17 Amtrak Ridership: January 2006–May 2007**

Number of passengers (thousands)

| Month | Number of passengers (thousands) |
|--------|----------------------------------|
| Jan-06 | 1,719 |
| Feb-06 | 1,690 |
| Mar-06 | 2,034 |
| Apr-06 | 2,072 |
| May-06 | 2,116 |
| Jun-06 | 2,191 |
| Jul-06 | 2,219 |
| Aug-06 | 2,212 |
| Sep-06 | 1,939 |
| Oct-06 | 2,136 |
| Nov-06 | 2,154 |
| Dec-06 | 2,069 |
| Jan-07 | 1,797 |
| Feb-07 | 1,779 |
| Mar-07 | 2,174 |
| Apr-07 | 2,207 |
| May-07 | 2,296 |

NOTES: Amtrak officially began service in May 1971. Amtrak serves more than 500 stations in 46 states and operates over a network of more than 22,000 track miles. Ridership is highly seasonal, with July and August being very high ridership months. In 2000, Amtrak introduced a high-speed rail service in the northeast United States, which helped increase ridership.

SOURCE: U.S. Department of Transportation, Federal Railroad Administration, Office of Safety Analysis, available at <http://safetydata.fra.dot.gov/OfficeofSafety/> as of August 2007.

TABLE C-18 Amtrak Ridership: 1995–2006
Thousands of revenue passengers

| | Passengers |
|------|-------------------|
| 1995 | 20,349 |
| 1996 | 19,700 |
| 1997 | 20,200 |
| 1998 | 21,248 |
| 1999 | 21,544 |
| 2000 | 22,985 |
| 2001 | 23,444 |
| 2002 | 23,269 |
| 2003 | 24,595 |
| 2004 | 25,215 |
| 2005 | 25,076 |
| 2006 | 24,548 |

SOURCE: 1995-2002, 2004—Association of American Railroads, *Railroad Facts* (Washington, DC: annual issues). **2003, 2005, 2006**—U.S. Department of Transportation, Federal Railroad Administration, Office of Safety, Operational Data Tables, available at: <http://safetydata.fra.dot.gov/officeofsafety/> as of June 2007.

TABLE C-19 Top 20 Transit Agencies by Unlinked Passenger Trips: FY 2005

| Agency | Number of unlinked trips (thousands) |
|--|---|
| MTA New York City Transit (NYCT) | 2,758,253 |
| Chicago Transit Authority (CTA) | 492,254 |
| Los Angeles County Metropolitan Trip Authority (LACMTA) | 451,511 |
| Washington Metropolitan Area Transit Authority (WMATA) | 414,076 |
| Massachusetts Bay Transportation Authority (MBTA) | 394,851 |
| Southeastern Pennsylvania Transportation Authority (SEPTA) | 334,546 |
| New Jersey Transit Corp. (NJTransit) | 244,084 |
| San Francisco Municipal Railway (MUNI) | 216,918 |
| Metropolitan Atlanta Rapid Transit Authority (MARTA) | 142,386 |
| Tri-County Metropolitan Transportation District of Oregon (TriMet) | 104,546 |
| Maryland Transit Administration (MTA) | 103,366 |
| Miami-Dade Transit (MDT) | 103,232 |
| San Francisco Bay Area Rapid Transit District (BART) | 99,296 |
| King County Department of Transportation (King County Metro) | 98,609 |
| MTA Long Island Rail Road (MTA-LIRR) | 95,519 |
| Metropolitan Transit Authority of Harris County, Texas (Metro) | 94,555 |
| Denver Regional Transportation District (RTD) | 86,261 |
| Metro-North Commuter Railroad Co. (MTA-MNCR) | 74,653 |
| Dallas Area Rapid Transit (DART) | 72,596 |
| Port Authority Trans-Hudson Corp. (PATH) | 71,305 |
| Total, top 20 agencies | 6,452,817 |
| Total, all agencies | 9,814,683 |
| Top 20 agencies, percent of all agencies | 65.75 |

NOTES: Data may not add to total because of independent rounding. According to the American Public Transportation Association (APTA), an unlinked transit trip is a trip on one transit vehicle. A person riding one vehicle from origin to destination takes one unlinked trip; a person who transfers to a second vehicle takes two unlinked trips; a person who transfers to a third vehicle takes three unlinked trips. A linked trip includes all segments on all vehicles used to travel from origin to destination.

SOURCE: American Public Transportation Association, *2007 Public Transportation Factbook*, tables 3 and 4, available at <http://www.apta.com/> as of July 2007.

FIGURE C-20 Public Transit Ridership: 1995–2007

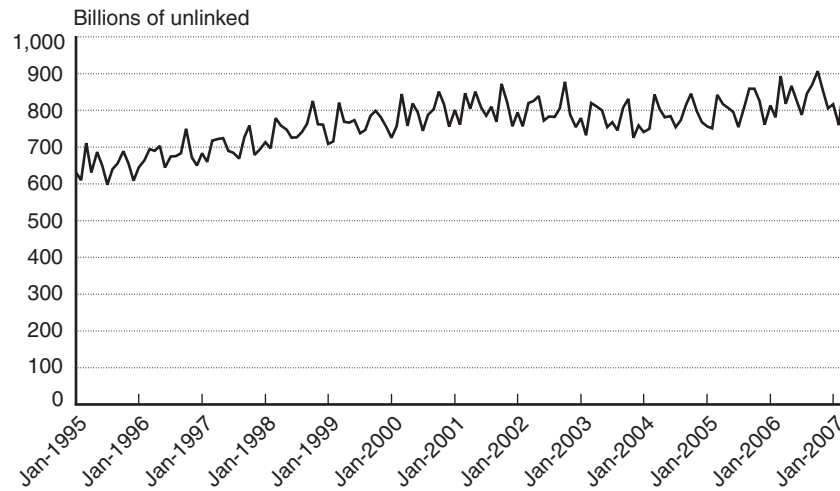


TABLE C-20 Public Transit Ridership: January 2006–March 2007

| Ridership (thousands, unlinked trips) | |
|---------------------------------------|---------|
| Jan-06 | 812,592 |
| Feb-06 | 780,552 |
| Mar-06 | 893,107 |
| Apr-06 | 817,331 |
| May-06 | 865,840 |
| Jun-06 | 826,177 |
| Jul-06 | 787,488 |
| Aug-06 | 845,626 |
| Sep-06 | 868,243 |
| Oct-06 | 906,551 |
| Nov-06 | 854,351 |
| Dec-06 | 805,150 |
| Jan-07 | 816,143 |
| Feb-07 | 759,976 |
| Mar-07 | 880,082 |

NOTES: Public transportation includes transit bus, transit rail, commuter rail, trolleys, and several demand-responsive services. According to the American Public Transportation Association (APTA), an unlinked transit trip is a trip on one transit vehicle. A person riding one vehicle from origin to destination takes one unlinked trip; a person who transfers to a second vehicle takes two unlinked trips; a person who transfers to a third vehicle takes three unlinked trips. A linked trip includes all segments on all vehicles used to travel from origin to destination. APTA estimates that the number of people riding transit on an average weekday is 45 percent of the number of unlinked transit passenger trips.

SOURCE: American Public Transportation Association, APTA Quarterly Transit Ridership Report, available at: <http://www.apta.com/research/stats/ridership/> as of August 2007.

TABLE C-21 Transit Passenger-Miles by Type of Service: 1995–2005
Millions

| | Bus | Transit rail | | | Paratransit | Other | Total |
|-------------------|--------|--------------|----------|-------|-------------|-------|--------|
| | | Heavy | Commuter | Light | | | |
| 1995 | 18,818 | 10,559 | 8,244 | 860 | 607 | 720 | 39,808 |
| 1996 | 19,096 | 11,530 | 8,351 | 957 | 656 | 788 | 41,378 |
| 1997 | 19,604 | 12,056 | 8,038 | 1,035 | 754 | 852 | 42,339 |
| 1998 | 20,360 | 12,284 | 8,704 | 1,128 | 735 | 917 | 44,128 |
| 1999 | 21,205 | 12,902 | 8,766 | 1,206 | 813 | 965 | 45,857 |
| 2000 | 21,241 | 13,844 | 9,402 | 1,356 | 839 | 984 | 47,666 |
| 2001 | 22,022 | 14,178 | 9,548 | 1,437 | 855 | 1,030 | 49,070 |
| 2002 | 21,841 | 13,663 | 9,504 | 1,432 | 853 | 1,031 | 48,324 |
| 2003 | 21,262 | 13,606 | 9,559 | 1,476 | 930 | 1,069 | 47,903 |
| 2004 | 21,377 | 14,354 | 9,719 | 1,576 | 962 | 1,084 | 49,073 |
| 2005 ^P | 21,825 | 14,418 | 9,473 | 1,700 | 1,058 | 1,033 | 49,678 |

P = Preliminary.

NOTES: *Paratransit* (also called demand response or dial-a-ride) is comprised of passenger cars, vans, or small buses operating in response to calls from passengers or their agents to the transit operator, who then dispatches a vehicle to pick up the passengers and transport them to their destinations. *Other* includes modes such as automated guideway, Alaska Railroad, cable car, ferryboat, inclined plane, monorail, trolleybus, and vanpool. Data may not add to total because of independent rounding.

SOURCE: American Public Transportation Association, *2007 Public Transportation Factbook*, Table 7, available at <http://www.apta.com/> as of July 2007.

TABLE C-22 Transit Unlinked Trips by Type of Service: 1995–2005
Millions of unlinked trips

| | Bus | Transit rail | | | Other | Total |
|------|-------|--------------|----------|-------|-------|-------|
| | | Heavy | Commuter | Light | | |
| 1995 | 4,579 | 2,034 | 344 | 249 | 298 | 7,504 |
| 1996 | 4,506 | 2,157 | 352 | 259 | 291 | 7,565 |
| 1997 | 4,602 | 2,430 | 357 | 259 | 306 | 7,954 |
| 1998 | 4,754 | 2,393 | 381 | 273 | 315 | 8,115 |
| 1999 | 4,992 | 2,521 | 396 | 289 | 326 | 8,523 |
| 2000 | 5,040 | 2,632 | 413 | 316 | 319 | 8,720 |
| 2001 | 5,215 | 2,728 | 418 | 334 | 312 | 9,008 |
| 2002 | 5,268 | 2,688 | 414 | 337 | 311 | 9,017 |
| 2003 | 5,147 | 2,667 | 410 | 338 | 315 | 8,876 |
| 2004 | 5,094 | 2,748 | 414 | 350 | 331 | 8,937 |
| 2005 | 5,226 | 2,808 | 423 | 381 | 330 | 9,175 |

NOTE: *Other* includes vanpool, demand response, ferryboats, inclined planes, monorail, jitney, publico, Alaska Railroad, aerial tramway, and trolley buses. Data may not add to total because of independent rounding.

SOURCE: U.S. Department of Transportation, Federal Transit Administration, *National Transit Summaries and Trends*, annual reports, available at <http://www.ntdprogram.com/> as of June 2007.

TABLE C-23 ADA-Compliant Transit Rail Stations by Service Type: 1995–2005
 Number

| | Transit rail | | | | ADA-compliant stations | Total number of stations | ADA-compliant stations (percent) |
|------|--------------|-------|-------|-------|------------------------|--------------------------|----------------------------------|
| | Commuter | Heavy | Light | Other | | | |
| 1995 | 322 | 237 | 168 | 2 | 729 | 2,573 | 28.3 |
| 1996 | 356 | 245 | 233 | 2 | 836 | 2,617 | 31.9 |
| 1997 | 388 | 256 | 265 | 2 | 911 | 2,643 | 34.5 |
| 1998 | 500 | 258 | 290 | 2 | 1,050 | 2,675 | 39.3 |
| 1999 | 533 | 284 | 351 | 2 | 1,170 | 2,728 | 42.9 |
| 2000 | 552 | 340 | 384 | 2 | 1,278 | 2,777 | 46.0 |
| 2001 | 583 | 359 | 408 | 5 | 1,355 | 2,807 | 48.3 |
| 2002 | 624 | 366 | 458 | 9 | 1,457 | 2,786 | 52.3 |
| 2003 | 643 | 416 | 466 | 12 | 1,537 | 2,799 | 54.9 |
| 2004 | 666 | 428 | 589 | 12 | 1,695 | 2,911 | 58.2 |
| 2005 | 686 | 459 | 596 | 12 | 1,753 | 2,948 | 59.5 |

KEY: ADA = Americans with Disabilities Act.

NOTES: *Other rail* includes monorail and (for 2001–2004 only) Alaska Railroad. Table does not include station data for automated guideway, jitney, and inclined plane transit services. Data may not add to total because of independent rounding. ADA-Compliant stations are those rail stations that are fully compliant with the ADA. Under the ADA Acts, many older stations have elevators. These older stations were given time, some to year 2020, to remodel or be replaced and given time to add ramps, the tile strips along the platform, and the communication equipment for full ADA compliant.

SOURCES: 1994–2001: U.S. Department of Transportation (USDOT), Federal Transit Administration (FTA), personal communication, May 2005. **2002–2005:** USDOT, FTA, National Transit Database Data Tables, Annual Reports, table 21, available at <http://www.ntdprogram.com/> as of June 2007.

TABLE C-24 ADA-Compliant Buses: 1995–2006
 Number

| | Total number of buses | ADA-compliant buses | Percentage of compliant buses |
|------|-----------------------|---------------------|-------------------------------|
| 1995 | 57,322 | 35,381 | 61.7 |
| 1996 | 57,369 | 38,316 | 66.8 |
| 1997 | 58,975 | 40,932 | 69.4 |
| 1998 | 60,830 | 46,278 | 76.1 |
| 1999 | 63,618 | 51,213 | 80.5 |
| 2000 | 63,322 | 52,873 | 83.5 |
| 2001 | 65,377 | 57,014 | 87.2 |
| 2002 | 66,382 | 60,000 | 90.4 |
| 2003 | 66,038 | 61,774 | 93.5 |
| 2004 | 66,198 | 63,357 | 95.7 |
| 2005 | 67,273 | 64,742 | 96.2 |
| 2006 | 66,668 | 65,326 | 98.0 |

KEY: ADA = Americans with Disabilities Act.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, National Transportation Statistics 2007, table 1-8, available at <http://www.bts.gov/> as of November 2007.

TABLE C-25 Airport Passenger and Rail Facility Intermodal Connectivity

Number of connections

| | 48 contiguous states | Alaska & Hawaii | Total |
|---|----------------------|-----------------|-------------|
| Airports | 435 | 238 | 673 |
| With intermodal connections | 150 | 9 | 159 |
| Without intermodal connections | 285 | 229 | 514 |
| Percent with connections | 34.5 | 3.8 | 23.6 |
| Intercity rail stations | 505 | 22 | 527 |
| With intermodal connections | 274 | 7 | 281 |
| Without intermodal connections | 231 | 15 | 246 |
| Percent with connections | 54.3 | 31.8 | 53.3 |
| Airports and intercity rail stations | 940 | 260 | 1200 |
| With intermodal connections | 424 | 16 | 440 |
| Without intermodal connections | 516 | 244 | 760 |
| Percent with connections | 45.1 | 6.2 | 36.7 |

NOTES: Data for airports and intercity rail stations was collected during 2006 and 2007. Updating and collection of data for other modes is ongoing.

The airports and intercity rail stations at Anchorage, Baltimore, Burbank, Newark, and Milwaukee are counted separately for purposes of total facilities.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Intermodal Passenger Connectivity Database, September 2007.

FIGURE C-26 Index of U.S. Vehicle-Miles: 1995–2005

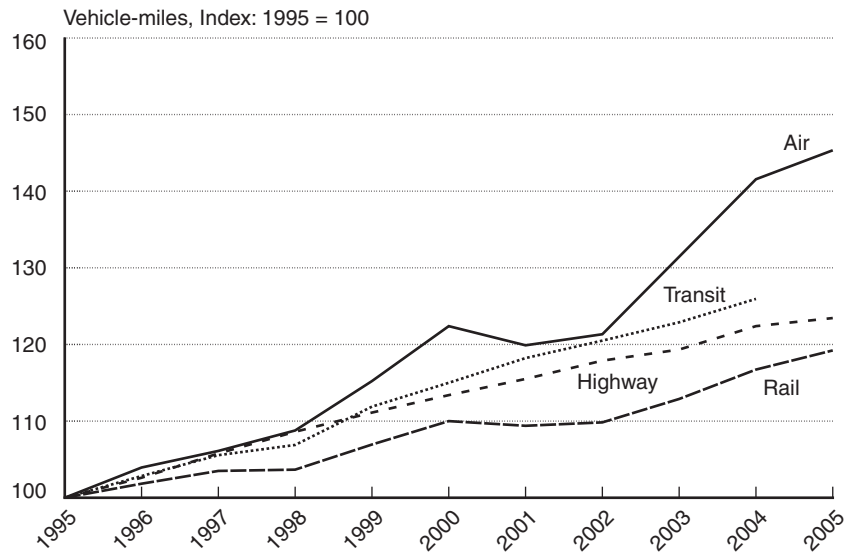


TABLE C-26 U.S. Vehicle-Miles: 1995–2005

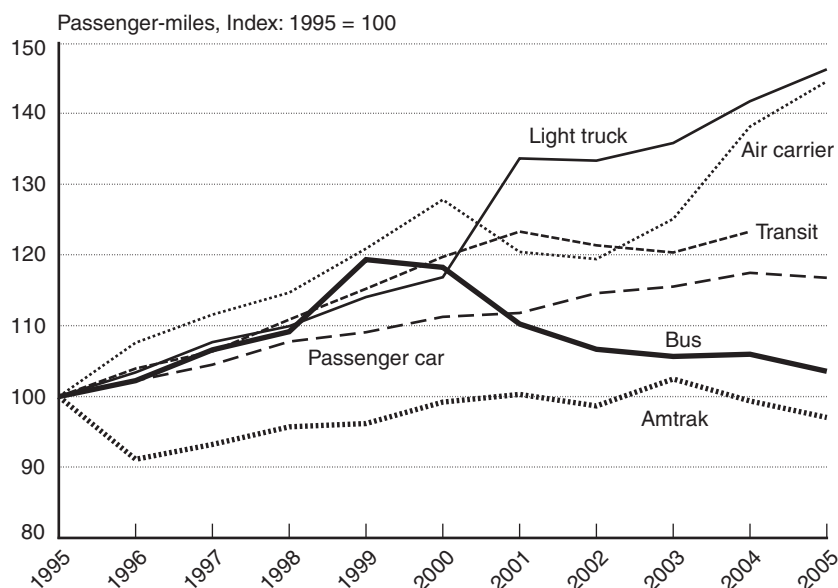
Millions

| | Air carrier, large certificated, domestic, all services | General aviation | Highway | Transit (car-miles) | Rail (train-miles) |
|------|---|------------------|-----------|---------------------|--------------------|
| 1995 | 4,629 | 3,795 | 2,422,696 | 3,550 | 490 |
| 1996 | 4,811 | 3,524 | 2,485,848 | 3,650 | 499 |
| 1997 | 4,911 | 3,877 | 2,561,695 | 3,746 | 507 |
| 1998 | 5,035 | N | 2,631,522 | 3,794 | 508 |
| 1999 | 5,332 | N | 2,691,056 | 3,972 | 524 |
| 2000 | 5,664 | N | 2,746,925 | 4,081 | 539 |
| 2001 | 5,548 | N | 2,797,287 | 4,196 | 536 |
| 2002 | 5,616 | N | 2,855,508 | 4,277 | 538 |
| 2003 | 6,085 | N | 2,890,450 | 4,363 | 553 |
| 2004 | 6,552 | N | 2,964,788 | 4,471 | 572 |
| 2005 | 6,728 | N | 2,989,807 | U | 584 |

KEY: N = Data do not exist; U = Data are unavailable.

NOTES: *General aviation* data include all operations other than those operating under 14 CFR 121 and 14 CFR 135. Transit data for 2003 are preliminary. Data for 1996 are not comparable to earlier years. *Transit* rail modes are measured in car-miles. Car-miles measure individual vehicle-miles in a train. A train-mile is the movement of a train, which can consist of multiple vehicles (cars), over the distance of 1 mile. This differs from a vehicle-mile, which is the movement of 1 vehicle over the distance of 1 mile. Rail train-miles includes Class I freight train-miles and Amtrak /intercity train-miles.

SOURCE: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2007*, table 1-32, available at <http://www.bts.gov/> as of April 2007.

FIGURE C-27 Index of U.S. Passenger-Miles: 1995–2005**TABLE C-27 U.S. Passenger-Miles: 1995–2005**

Millions

| | Air, certificated, domestic, all services | Passenger car | Light truck | Bus | Transit (car-miles) | Amtrak |
|------|--|---------------|-------------|---------|------------------------|--------|
| 1995 | 403,888 | 2,286,887 | 1,256,146 | 136,104 | 39,808 | 5,545 |
| 1996 | 434,652 | 2,337,068 | 1,298,299 | 139,136 | 41,378 | 5,050 |
| 1997 | 450,612 | 2,389,065 | 1,352,675 | 145,060 | 42,339 | 5,166 |
| 1998 | 463,262 | 2,463,828 | 1,380,557 | 148,558 | 44,128 | 5,304 |
| 1999 | 488,357 | 2,494,870 | 1,432,625 | 162,445 | 45,857 | 5,330 |
| 2000 | 516,129 | 2,544,457 | 1,467,664 | 160,919 | 47,666 | 5,498 |
| 2001 | 486,506 | 2,556,481 | 1,678,853 | 150,042 | 49,070 | 5,559 |
| 2002 | 482,310 | 2,620,389 | 1,674,792 | 145,124 | 48,324 | 5,468 |
| 2003 | 505,158 | 2,641,885 | 1,706,103 | 143,801 | 47,903 | 5,503 |
| 2004 | 557,893 | 2,685,827 | 1,780,771 | 144,188 | 49,073 | 5,558 |
| 2005 | 583,689 | 2,670,145 | 1,836,988 | 140,910 | U | 5,391 |

KEY: U = Data are unavailable.

NOTES: *Passenger car* does not include motorcycle data. *Light truck* includes pickup trucks, sport utility vehicles, and vans. Motor bus and demand response are included in both *Bus* and *Transit*, resulting in some double counting. *Amtrak* does not include contract commuter passengers. The data presented here may not be consistent with other sources, particularly data that are revised on an irregular or frequent basis.

SOURCE: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2007*, table 1-37, available at <http://www.bts.gov/> as of April 2007.

FIGURE C-28 Ton-Miles of Freight: 1995–2005

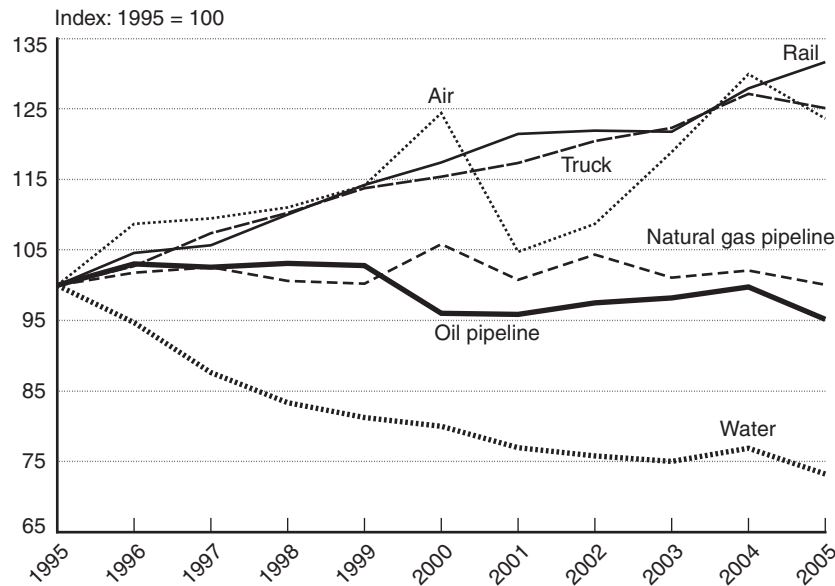


TABLE C-28 Ton-Miles of Freight: 1995–2005

Billions

| | Air | Truck | Railroad | Water | Oil and oil products pipeline | Natural gas pipeline | Total |
|------|-----|-------|----------|-------|-------------------------------|----------------------|-------|
| 1995 | 13 | 1,034 | 1,317 | 808 | 601 | 332 | 4,104 |
| 1996 | 14 | 1,062 | 1,377 | 765 | 619 | 337 | 4,174 |
| 1997 | 14 | 1,111 | 1,391 | 707 | 617 | 340 | 4,179 |
| 1998 | 14 | 1,140 | 1,448 | 673 | 620 | 334 | 4,229 |
| 1999 | 15 | 1,176 | 1,504 | 656 | 618 | 332 | 4,301 |
| 2000 | 16 | 1,193 | 1,546 | 646 | 577 | 351 | 4,329 |
| 2001 | 13 | 1,213 | 1,599 | 622 | 576 | 334 | 4,357 |
| 2002 | 14 | 1,246 | 1,606 | 612 | 586 | 346 | 4,409 |
| 2003 | 15 | 1,265 | 1,604 | 606 | 590 | 335 | 4,415 |
| 2004 | 16 | 1,315 | 1,685 | 621 | 600 | 338 | 4,575 |
| 2005 | 16 | 1,293 | 1,734 | 591 | 572 | 332 | 4,538 |

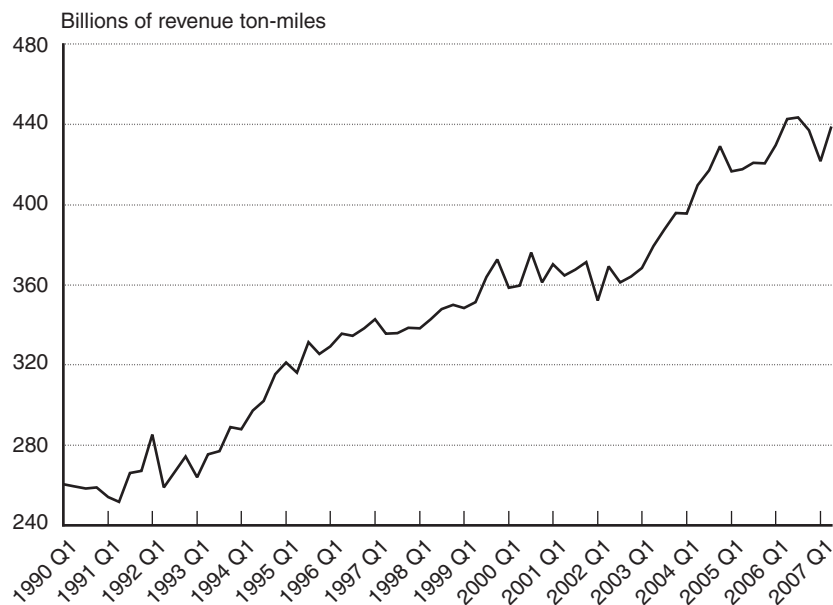
NOTES: Data may not add to total because of independent rounding.

Railroad includes Class I revenue ton-miles.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, special tabulation.

FIGURE C-29 Rail Freight Revenue Ton-Miles: 1990–2007

Quarterly data, not seasonally adjusted

**TABLE C-29 Rail Freight Revenue Ton-Miles: Q1 2006–Q2 2007**

Billions

| | Revenue ton-miles |
|---------|-------------------|
| 2006 Q1 | 429.8 |
| 2006 Q2 | 442.7 |
| 2006 Q3 | 443.6 |
| 2006 Q4 | 437.2 |
| 2007 Q1 | 421.8 |
| 2007 Q2 | 439.1 |

SOURCE: Association of American Railroads, *Railroad Revenues, Expenses, and Income. Class 1 Railroads in the United States*, R&E Series, and Surface Transportation Board, Office of Economics, Environmental Analysis and Administration, Quarterly Selected Earnings Report, available at <http://www.stb.dot.gov/> as of August 2007.

Global Connectivity

TABLE D-1 U.S.-International Trade in Transportation-Related Goods: 1995–2006
Millions of current dollars

| | Imports | Exports | Total | Trade balance |
|------|---------|---------|---------|---------------|
| 1995 | 110,781 | 80,092 | 190,873 | -30,689 |
| 1996 | 115,504 | 89,959 | 205,463 | -25,545 |
| 1997 | 126,927 | 103,818 | 230,745 | -23,109 |
| 1998 | 140,054 | 114,971 | 255,025 | -25,083 |
| 1999 | 166,552 | 111,469 | 278,021 | -55,083 |
| 2000 | 185,027 | 105,430 | 290,457 | -79,597 |
| 2001 | 183,002 | 106,860 | 289,862 | -76,142 |
| 2002 | 190,881 | 108,744 | 299,625 | -82,137 |
| 2003 | 194,863 | 107,796 | 302,659 | -87,067 |
| 2004 | 211,112 | 118,749 | 329,861 | -92,363 |
| 2005 | 219,522 | 137,214 | 356,736 | -82,308 |
| 2006 | 236,300 | 164,870 | 401,170 | -71,430 |

NOTES: *Transportation-related goods* are motor vehicles and parts, aircraft and spacecraft and parts, railway vehicles and parts, and ships and boats. Data may not add to total because of independent rounding. *Trade balance* is equal to exports minus imports. All dollar amounts are in current dollars. These data have not been adjusted for inflation because there is no specific deflator available for transportation-related goods. In addition, it is difficult to control for trading partners' inflation rates as well as currency exchange fluctuations when adjusting the value of internationally traded goods and services for inflation.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, calculations based on data from U.S. Department of Commerce, U.S. International Trade Commission, Interactive Tariff and Trade DataWeb, available at <http://dataweb.usitc.gov/> as of June 2007.

TABLE D-2 U.S.-International Trade in Transportation-Related Goods by Commodity: 2006
Millions of current dollars

| | Overall (exports plus imports) | Balance (exports minus imports) |
|--|---------------------------------------|--|
| Vehicles other than railway | 308,082 | -122,676 |
| Aircraft, spacecraft, and parts | 84,345 | 49,161 |
| Ships, boats, and floating structures | 4,255 | 1,145 |
| Railway locomotives and parts | 4,488 | 940 |
| Total, transportation-related goods | 401,170 | -71,430 |
| Total, all commodities | 2,922,262 | -817,976 |

NOTES: These data have not been adjusted for inflation because there is no specific deflator available for transportation-related goods. In addition, it is difficult to control for trading partners' inflation rates as well as currency exchange fluctuations when adjusting the value of internationally traded goods and services for inflation.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, calculations based on data from U.S. Department of Commerce, U.S. International Trade Commission, Interactive Tariff and Trade DataWeb, available at <http://dataweb.usitc.gov/> as of June 2007.

TABLE D-3 U.S.-International Trade in Transportation-Related Services: 1995–2006
Millions of current dollars

| | Imports | Exports | Total | Trade balance |
|------|---------|---------|---------|---------------|
| 1995 | 41,697 | 44,990 | 86,687 | 3,293 |
| 1996 | 43,212 | 46,496 | 89,708 | 3,284 |
| 1997 | 47,097 | 47,874 | 94,971 | 777 |
| 1998 | 50,334 | 45,702 | 96,036 | -4,632 |
| 1999 | 55,454 | 46,701 | 102,155 | -8,753 |
| 2000 | 65,699 | 50,490 | 116,189 | -15,209 |
| 2001 | 61,315 | 46,368 | 107,683 | -14,947 |
| 2002 | 58,376 | 46,241 | 104,617 | -12,135 |
| 2003 | 65,662 | 47,285 | 112,947 | -18,377 |
| 2004 | 77,884 | 56,287 | 134,171 | -21,597 |
| 2005 | 88,173 | 63,176 | 151,349 | -24,997 |
| 2006 | 92,917 | 70,268 | 163,185 | -22,649 |

NOTE: *Transportation-related services* include passenger fares and freight and port services. It excludes receipts and payments for travel services, which includes purchases of goods and services (e.g., food, lodging, recreation, gifts, entertainment, and any incidental expense on a foreign visit). *Trade balance* is equal to exports minus imports.

These data have not been adjusted for inflation because there is no specific deflator available for transportation-related services. In addition, it is difficult to control for trading partners' inflation rates as well as currency exchange fluctuations when adjusting the value of internationally traded goods and services for inflation.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, calculations based on data from U.S. Department of Commerce, Bureau of Economic Analysis, International Transactions Accounts data, available at <http://www.bea.gov/> as of June 2007.

FIGURE D-4a Value of Surface U.S. - Canada Trade: 1995–2007
 Monthly data, not seasonally adjusted

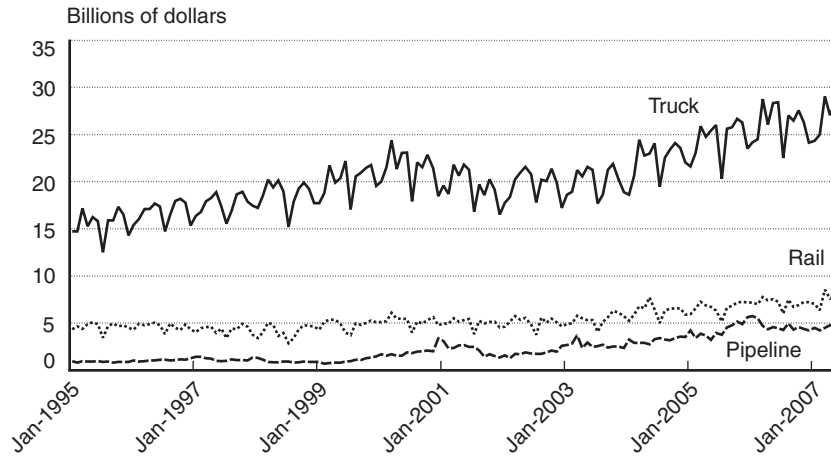


FIGURE D-4b Value of Surface U.S. - Mexico Trade: 1995–2007
 Monthly data, not seasonally adjusted

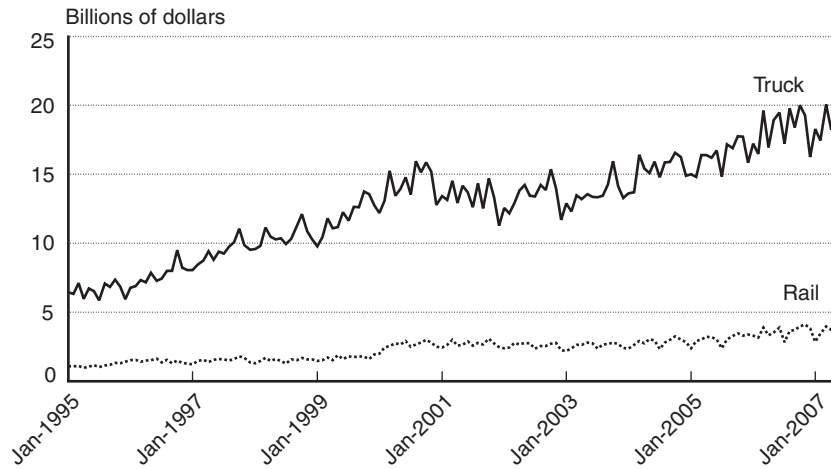


TABLE D-4 U.S. Surface Trade with Canada and Mexico: January 2006–May 2007

| Millions of dollars | U.S.-Canada trade | | | U.S.-Mexico trade | | |
|---------------------|-------------------|-------|----------|-------------------|-------|----------|
| | Truck | Rail | Pipeline | Truck | Rail | Pipeline |
| January 2006 | 24,197 | 7,202 | 5,732 | 17,224 | 3,299 | 58 |
| February 2006 | 24,495 | 6,990 | 5,505 | 16,463 | 3,163 | 59 |
| March 2006 | 28,760 | 7,755 | 4,688 | 19,606 | 3,869 | 58 |
| April 2006 | 26,028 | 7,407 | 4,345 | 16,945 | 3,319 | 69 |
| May 2006 | 28,336 | 7,519 | 4,560 | 18,903 | 3,520 | 67 |
| June 2006 | 28,410 | 7,265 | 4,474 | 19,462 | 3,881 | 56 |
| July 2006 | 22,498 | 6,020 | 4,252 | 17,211 | 2,834 | 46 |
| August 2006 | 26,998 | 7,479 | 4,986 | 19,775 | 3,639 | 70 |
| September 2006 | 26,463 | 6,717 | 4,320 | 18,386 | 3,711 | 68 |
| October 2006 | 27,549 | 6,920 | 4,579 | 19,990 | 3,957 | 70 |
| November 2006 | 26,331 | 7,225 | 4,368 | 19,260 | 4,114 | 63 |
| December 2006 | 24,138 | 7,238 | 4,237 | 16,231 | 3,827 | 78 |
| January 2007 | 24,331 | 7,046 | 4,505 | 18,264 | 2,851 | 88 |
| February 2007 | 24,990 | 6,349 | 4,214 | 17,441 | 3,437 | 39 |
| March 2007 | 29,044 | 8,531 | 4,504 | 20,058 | 3,953 | 80 |
| April 2007 | 27,069 | 7,624 | 4,770 | 18,213 | 3,702 | 59 |
| May 2007 | 28,425 | 7,906 | 4,841 | 20,265 | 4,078 | 58 |

NOTES: Surface freight is useful in monitoring the value and modal patterns of trade with Canada and Mexico, our North American Free Trade Agreement (NAFTA) partners. Canada is our largest trading partner. Mexico now ranks third. Surface modes include not only truck, rail, and pipeline, but also government mail and other miscellaneous modes.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Transborder Surface Freight Dataset; August 2007; available at <http://www.bts.gov/ntda/tbscd/prod.html> as of November 2007. The original data are from U.S. Department of Commerce, U.S. Census Bureau, U.S. Exports of Merchandise data and U.S. Imports of Merchandise data.

TABLE D-5 Top 10 U.S. Maritime Container Ports: 2001–2006

Thousands of TEUs

| Port | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | Percent change, 2001-2006 | Average annual growth rate, 2001-2006 (percent) |
|-------------------------------------|--------|--------|--------|--------|--------|--------|---------------------------|---|
| Los Angeles/Long Beach, CA | 6,624 | 7,243 | 7,755 | 8,639 | 9,242 | 10,390 | 56.9 | 9.4 |
| New York, NY | 2,355 | 2,627 | 2,803 | 3,163 | 3,387 | 3,629 | 54.1 | 9.0 |
| Seattle/Tacoma, WA | 1,436 | 1,619 | 1,746 | 1,990 | 2,494 | 2,304 | 60.4 | 9.9 |
| Savannah, GA | 813 | 1,014 | 1,124 | 1,290 | 1,469 | 1,581 | 94.5 | 14.2 |
| Charleston, SC | 1,159 | 1,197 | 1,250 | 1,421 | 1,509 | 1,493 | 28.8 | 5.2 |
| Norfolk, VA | 885 | 982 | 1,093 | 1,206 | 1,319 | 1,410 | 59.3 | 9.8 |
| Oakland, CA | 963 | 979 | 1,064 | 1,197 | 1,374 | 1,400 | 45.4 | 7.8 |
| Houston, TX | 783 | 851 | 933 | 1,098 | 1,222 | 1,268 | 61.9 | 10.1 |
| Miami, FL | 717 | 752 | 764 | 795 | 772 | 743 | 3.6 | 0.7 |
| Port Everglades, FL | 417 | 370 | 423 | 500 | 578 | 634 | 52.0 | 8.7 |
| Total, top 10 ports | 16,152 | 17,634 | 18,955 | 21,299 | 23,366 | 24,852 | 53.9 | 9.0 |
| Total, all ports¹ | 18,117 | 19,729 | 21,289 | 23,851 | 25,868 | 27,473 | 51.6 | 8.7 |
| Top 10, percent of total | 89.2 | 89.4 | 89.0 | 89.3 | 90.3 | 90.5 | | |

NOTES: TEU = Twenty-foot equivalent unit. One twenty-foot container equals one TEU while one forty-foot container equals two TEUs.

¹Total includes ports for all container ports in all 50 states and Puerto Rico.

The data in this table include *only loaded containers* in U.S.-international maritime activity. It includes U.S. imports, exports, plus transshipments, therefore the trade levels will be greater than those reported from U.S.-international trade statistics, which excludes transshipments. The data also excludes military shipments.

SOURCE: U.S. Department of Transportation, Maritime Administration, U.S. Water Transportation Statistical Snapshot, and available at www.marad.dot.gov as of May 2007.

**TABLE D-6 U.S.-International Maritime Container Volumes:
1995–2006**

Millions of TEUs

| | Export | Import | Container balance (exports minus imports) |
|------|--------|--------|--|
| 1995 | 6.4 | 6.8 | -0.34 |
| 1996 | 6.5 | 6.9 | -0.41 |
| 1997 | 7.1 | 7.8 | -0.71 |
| 1998 | 6.6 | 8.9 | -2.28 |
| 1999 | 6.6 | 10.0 | -3.36 |
| 2000 | 6.9 | 11.1 | -4.24 |
| 2001 | 6.8 | 11.3 | -4.42 |
| 2002 | 6.8 | 12.9 | -6.10 |
| 2003 | 7.4 | 13.9 | -6.51 |
| 2004 | 8.0 | 15.8 | -7.76 |
| 2005 | 8.7 | 17.4 | -8.68 |
| 2006 | 9.0 | 18.5 | -9.48 |

KEY: TEU = Twenty-foot equivalent unit.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, based on data from U.S. Department of Transportation, Maritime Administration which are drawn from the *Journal of Commerce*, Port Import/Export Reporting Service (PIERS) data system, and available at www.marad.dot.gov as of August 2007.

TABLE D-7 U.S. v. World Maritime Container Volumes and Gross Domestic Product: 1995–2006

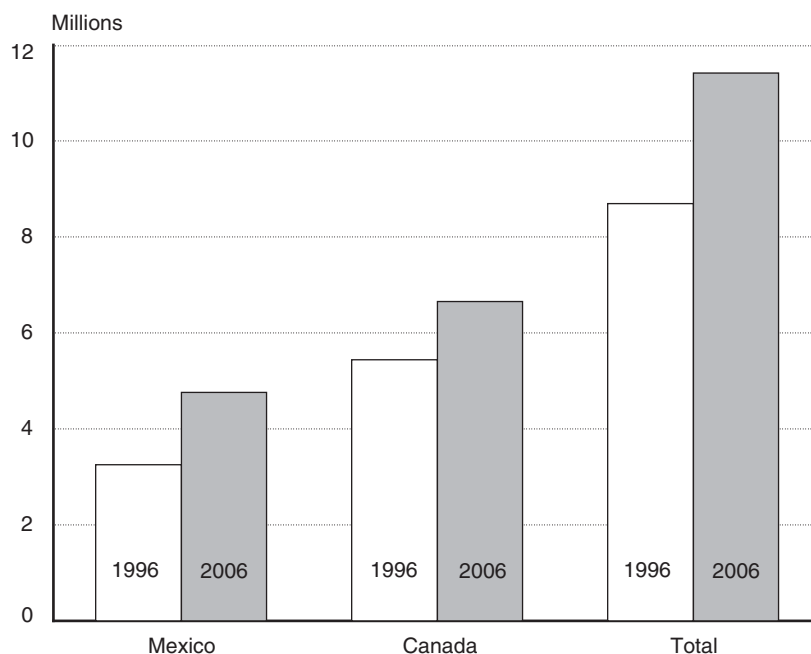
| | Container volumes (total TEUs loaded and empty) | | | | Gross Domestic Product (current U.S. dollars) | | | |
|--|---|--------------------------|-------------------------------------|-----------|---|--------------------------|-----------------------------------|-----------|
| | World (millions) | United States (millions) | U.S. share of World total (percent) | U.S. rank | World (billions) | United States (billions) | U.S. share of World GDP (percent) | U.S. rank |
| 1995 | 137.2 | 22.3 | 16.3 | 1 | 29,391 | 7,398 | 25.2 | 1 |
| 1996 | 150.8 | 22.6 | 15.0 | 1 | 30,080 | 7,817 | 26.0 | 1 |
| 1997 | 160.7 | 24.5 | 15.3 | 1 | 29,928 | 8,304 | 27.7 | 1 |
| 1998 | 169.6 | 26.2 | 15.4 | 2 | 29,682 | 8,747 | 29.5 | 1 |
| 1999 | 184.6 | 28.0 | 15.2 | 2 | 30,786 | 9,268 | 30.1 | 1 |
| 2000 | 225.3 | 30.4 | 13.5 | 2 | 31,650 | 9,817 | 31.0 | 1 |
| 2001 | 236.7 | 30.7 | 13.0 | 2 | 31,456 | 10,128 | 32.2 | 1 |
| 2002 | 266.3 | 32.7 | 12.3 | 2 | 32,714 | 10,470 | 32.0 | 1 |
| 2003 | 305.0 | 36.3 | 11.9 | 2 | 36,751 | 10,961 | 29.8 | 1 |
| 2004 | 343.0 | 38.7 | 11.3 | 2 | 41,258 | 11,712 | 28.4 | 1 |
| 2005 | 378.0 | 42.0 | 11.1 | 2 | 44,455 | 12,456 | 28.0 | 1 |
| 2006 ^a | 417.0 | 46.3 | 11.1 | 2 | 48,245 | 13,194 | 27.3 | 1 |
| Percent change, 1995-2006 | 203.9 | 107.2 | | | | | | |
| Average annual rate (percents), 1995-2007 | 10.6 | 6.8 | | | | | | |

KEY: TEU = Twenty-foot equivalent unit.

^a 2006 estimates are projections from the individual sources.

SOURCES: TEUs: World estimates—1995-1999 from Containerization International Yearbook (London, England: Informa Group, Inc., Various years, 1997–2001). **2000-2002** from United Nations Trade Commission, *Review of Maritime Transportation*, various years. **2003 - 2006** from Clarkson Research services, Container Intelligence Monthly, Vol. 8, No. 10, October 2006.

U.S. estimates—AAPA 2006, available at <http://www.aapa-ports.org/home.cfm> as of December 2006. **(GDP):** From International Monetary Fund, available at www.imf.org as of January 2007.

FIGURE D-8 Incoming Truck Crossings to the United States from Mexico and Canada: 1996 and 2006

TABLE D-8 Incoming Truck Crossings to the United States from Mexico and Canada: 1996–2006

Number

| | Mexico | Canada | Total |
|------|-----------|-----------|------------|
| 1996 | 3,254,084 | 5,431,096 | 8,685,180 |
| 1997 | 3,689,665 | 5,826,974 | 9,516,639 |
| 1998 | 3,946,543 | 6,270,934 | 10,217,477 |
| 1999 | 4,358,121 | 6,817,447 | 11,175,568 |
| 2000 | 4,525,579 | 7,048,128 | 11,573,707 |
| 2001 | 4,304,959 | 6,776,909 | 11,081,868 |
| 2002 | 4,426,593 | 6,915,973 | 11,342,566 |
| 2003 | 4,238,045 | 6,728,228 | 10,966,273 |
| 2004 | 4,503,688 | 6,901,820 | 11,405,508 |
| 2005 | 4,675,897 | 6,783,944 | 11,459,841 |
| 2006 | 4,758,915 | 6,649,249 | 11,408,164 |

NOTE: Data do not include privately owned pickup trucks.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Border Crossing/Entry Data, available at <http://www.bts.gov/itt/> as of June 2007.

TABLE D-9 Incoming Train Crossings to the United States from Mexico and Canada: 1995–2006
Number

| | Mexico | Canada | Total |
|------|---------------|---------------|--------------|
| 1995 | 9,432 | 31,021 | 40,453 |
| 1996 | 7,509 | 31,457 | 38,966 |
| 1997 | 7,678 | 32,863 | 40,541 |
| 1998 | 5,681 | 35,435 | 41,116 |
| 1999 | 6,019 | 32,930 | 38,949 |
| 2000 | 7,108 | 33,447 | 40,555 |
| 2001 | 7,469 | 33,577 | 41,046 |
| 2002 | 7,757 | 32,822 | 40,579 |
| 2003 | 7,774 | 34,137 | 41,911 |
| 2004 | 7,844 | 33,267 | 41,111 |
| 2005 | 9,458 | 32,807 | 42,265 |
| 2006 | 10,166 | 32,526 | 42,692 |

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Border Crossing/Entry Data, available at <http://www.bts.gov/itt/> as of June 2007.

FIGURE D-10 U.S. Foreign Waterborne Freight: 1998–2007

Tonnage of U.S. Waterborne Imports and Exports
Monthly data, not seasonally adjusted

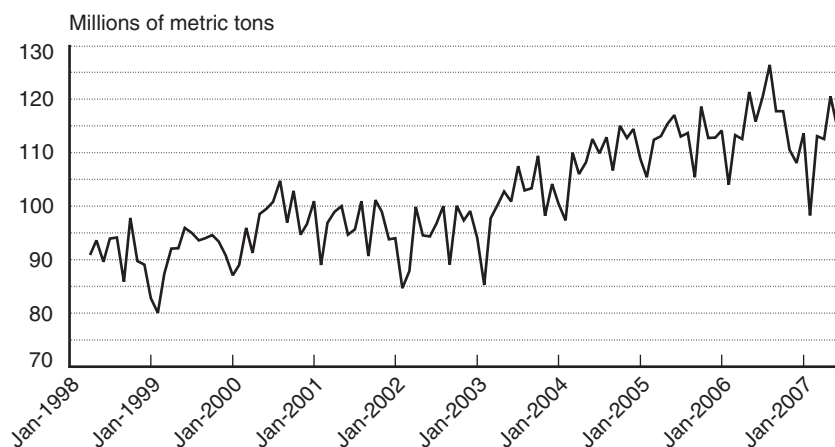


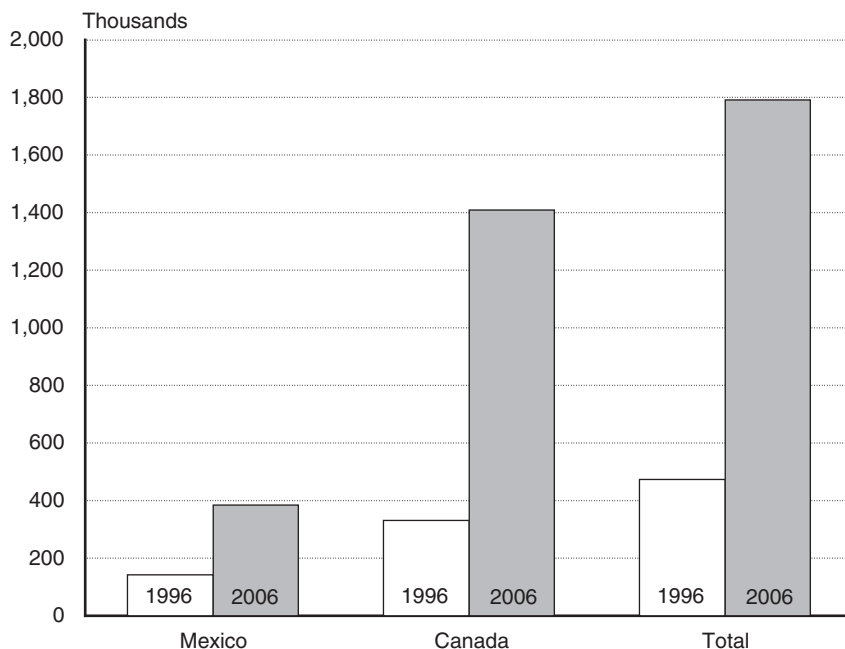
TABLE D-10 U.S.-Foreign Waterborne Freight: January 2006–June 2007
Monthly

| | Metric tons (thousands) |
|----------------|-------------------------|
| January 2006 | 114,112 |
| February 2006 | 104,011 |
| March 2006 | 113,225 |
| April 2006 | 112,543 |
| May 2006 | 121,317 |
| June 2006 | 115,788 |
| July 2006 | 120,368 |
| August 2006 | 126,377 |
| September 2006 | 117,723 |
| October 2006 | 117,708 |
| November 2006 | 110,519 |
| December 2006 | 108,033 |
| January 2007 | 113,601 |
| February 2007 | 98,219 |
| March 2007 | 113,051 |
| April 2007 | 112,550 |
| May 2007 | 120,493 |
| June 2007 | 114,422 |

NOTES: Import and export tonnage helps identify the volume of cargo flowing through U.S. ports and the resulting vessel traffic on U.S. coastal waters. It also helps identify needs for intermodal truck and rail traffic. Most U.S. coastal ports handle both foreign and domestic cargoes.

A metric ton is equal to 2,204.6 pounds.

SOURCE: April 1998–December 2005: U.S. Department of Transportation, Maritime Administration, U.S. Foreign Waterborne Transportation Statistics data, available at: <http://www.iwr.usace.army.mil/ndc/usforeign/index.htm> as of September 2006. **January 2006–present:** U.S. Department of Commerce, U.S. Census Bureau, Foreign Trade Statistics, available at: <http://www.census.gov/foreign-trade/statistics/index.html> as of August 2007.

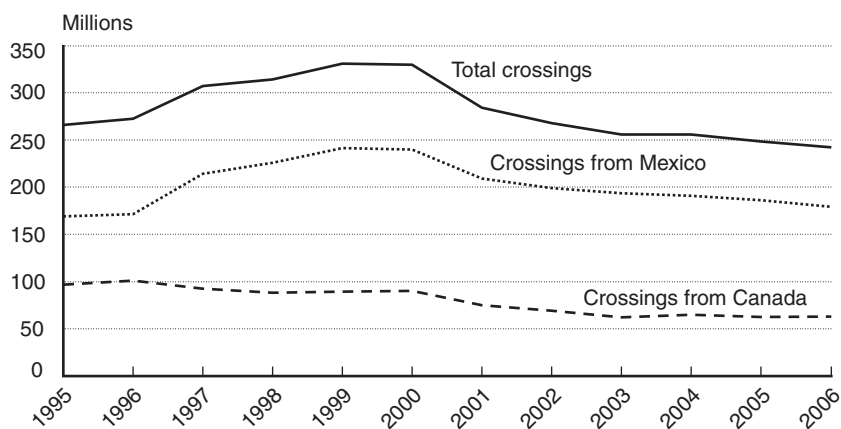
FIGURE D-11 Incoming Full Rail Containers to the United States from Mexico and Canada: 1996 and 2006**TABLE D-11 Incoming Full Rail Containers to the United States from Mexico and Canada: 1996–2006**

| | Mexico | Canada | Total |
|------|---------|-----------|-----------|
| 1996 | 142,236 | 329,983 | 472,219 |
| 1997 | 156,064 | 464,081 | 620,145 |
| 1998 | 175,490 | 903,584 | 1,079,074 |
| 1999 | 226,014 | 1,150,936 | 1,376,950 |
| 2000 | 266,235 | 1,215,439 | 1,481,674 |
| 2001 | 266,572 | 1,331,382 | 1,597,954 |
| 2002 | 269,550 | 1,386,143 | 1,655,693 |
| 2003 | 266,469 | 1,402,388 | 1,668,857 |
| 2004 | 305,748 | 1,484,634 | 1,790,382 |
| 2005 | 335,611 | 1,458,016 | 1,793,627 |
| 2006 | 383,253 | 1,408,391 | 1,791,644 |

KEY: U = Data are unavailable.

NOTE: A container is any conveyance entering the United States used for commercial purposes, full or empty. Data here apply only to the number of full rail containers arriving at a surface port and include containers moving as in-bond shipments.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Border Crossing/Entry Data, available at <http://www.bts.gov/itt/> as of June 2007.

FIGURE D-12 Passenger Crossings into the United States by Personal Vehicles from Mexico and Canada: 1995–2006

TABLE D-12 Passenger Crossings into the United States by Personal Vehicles from Mexico and Canada: 1995–2006

| | Mexico | Canada | Total |
|------|-------------|-------------|-------------|
| 1995 | 169,152,429 | 96,806,745 | 265,959,174 |
| 1996 | 171,522,486 | 101,070,734 | 272,593,220 |
| 1997 | 214,354,991 | 92,646,989 | 307,001,980 |
| 1998 | 226,012,670 | 88,283,187 | 314,295,857 |
| 1999 | 241,522,310 | 89,369,195 | 330,891,505 |
| 2000 | 239,794,552 | 90,046,948 | 329,841,500 |
| 2001 | 209,105,846 | 74,971,105 | 284,076,951 |
| 2002 | 199,020,692 | 68,986,616 | 268,007,308 |
| 2003 | 193,697,482 | 62,136,536 | 255,834,018 |
| 2004 | 190,936,607 | 64,848,466 | 255,785,073 |
| 2005 | 186,067,448 | 62,501,376 | 248,568,824 |
| 2006 | 179,255,014 | 62,986,037 | 242,241,051 |

NOTES: *Passengers in personal vehicles* (privately owned vehicles) include persons arriving by private automobile, pickup truck, motorcycle, recreational vehicle, taxi, ambulance, hearse, tractor, snowmobile, and other motorized private ground vehicles.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Border Crossing/Entry Data, available at <http://www.bts.gov/itt/> as of June 2007.

TABLE D-13 Passenger Crossings into the United States by Bus from Mexico and Canada: 1995–2006

| | Mexico | Canada | Total |
|------|-----------|-----------|-----------|
| 1995 | 1,571,320 | 3,530,042 | 5,101,362 |
| 1996 | 1,943,697 | 3,870,081 | 5,813,778 |
| 1997 | 2,772,666 | 4,124,253 | 6,896,919 |
| 1998 | 3,638,812 | 3,969,672 | 7,608,484 |
| 1999 | 3,358,118 | 4,367,472 | 7,725,590 |
| 2000 | 3,465,916 | 4,872,943 | 8,338,859 |
| 2001 | 3,366,795 | 4,456,436 | 7,823,231 |
| 2002 | 3,926,154 | 4,212,863 | 8,139,017 |
| 2003 | 3,747,337 | 3,779,970 | 7,527,307 |
| 2004 | 3,388,517 | 3,890,380 | 7,278,897 |
| 2005 | 3,169,779 | 3,854,858 | 7,024,637 |
| 2006 | 3,187,282 | 3,499,103 | 6,686,385 |

NOTE: *Passengers in buses* include both driver(s) and passengers arriving by bus requiring U.S. Customs processing.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Border Crossing/Entry Data, available at <http://www.bts.gov/itt/> as of June 2007.

TABLE D-14 Passenger Crossings into the United States by Train from Mexico and Canada: 1995–2006

| | Mexico | Canada | Total |
|------|--------|---------|---------|
| 1995 | 13,222 | 226,796 | 240,018 |
| 1996 | 11,285 | 213,596 | 224,881 |
| 1997 | 11,504 | 249,106 | 260,610 |
| 1998 | 12,691 | 245,933 | 258,624 |
| 1999 | 16,169 | 249,172 | 265,341 |
| 2000 | 18,254 | 269,502 | 287,756 |
| 2001 | 18,895 | 253,652 | 272,547 |
| 2002 | 15,108 | 255,134 | 270,242 |
| 2003 | 12,101 | 234,796 | 246,897 |
| 2004 | 12,664 | 223,477 | 236,141 |
| 2005 | 17,833 | 235,758 | 253,591 |
| 2006 | 21,504 | 244,683 | 266,187 |

NOTE: *Passengers in trains* includes both passengers and crew arriving by train and requiring U.S. Customs processing.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Border Crossing/Entry Data, available at <http://www.bts.gov/itt/> as of June 2007.

TABLE D-15 Pedestrian Crossings into the United States from Mexico and Canada: 1995–2006

| | Mexico | Canada | Total |
|------|------------|-----------|------------|
| 1995 | 32,835,972 | 697,963 | 33,533,935 |
| 1996 | 34,109,364 | 607,987 | 34,717,351 |
| 1997 | 43,911,311 | 549,875 | 44,461,186 |
| 1998 | 44,461,554 | 598,469 | 45,060,023 |
| 1999 | 48,213,234 | 587,830 | 48,801,064 |
| 2000 | 47,089,642 | 585,191 | 47,674,833 |
| 2001 | 51,501,321 | 749,805 | 52,251,126 |
| 2002 | 50,278,281 | 1,081,679 | 51,359,960 |
| 2003 | 48,663,773 | 937,477 | 49,601,250 |
| 2004 | 48,084,235 | 826,017 | 48,910,252 |
| 2005 | 45,829,612 | 605,339 | 46,434,951 |
| 2006 | 46,251,414 | 533,739 | 46,785,153 |

NOTE: *Pedestrian crossings* include persons arriving on foot or by certain conveyances (e.g., bicycles, mopeds, or wheel chairs) requiring U.S. Customs processing.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Border Crossing/Entry Data, available at <http://www.bts.gov/itt/> as of June 2007.

TABLE D-16 North American Cruise Passengers by Destination: 2003–2006

Passengers in thousands

| Destination | 2003 | 2004 | 2005 | 2006 |
|------------------------|----------------|----------------|----------------|----------------|
| Alaska | 776.2 | 880.2 | 929.7 | 938.8 |
| Atlantic Coast | 0.0 | 0.0 | 1.5 | 0.0 |
| Bahamas | 1,292.2 | 1,431.0 | 1,390.5 | 1,541.0 |
| Bermuda | 212.2 | 195.1 | 225.8 | 234.2 |
| Canada/New England | 173.0 | 213.6 | 178.9 | 164.6 |
| Eastern Caribbean | 1,036.9 | 1,214.9 | 1,315.3 | 1,386.1 |
| Far East | 0.0 | 0.0 | 0.0 | 0.5 |
| Hawaii | 222.0 | 231.9 | 306.6 | 401.7 |
| Mexico (Pacific) | 731.4 | 964.4 | 1,130.3 | 1,075.0 |
| Nowhere | 16.8 | 28.6 | 9.0 | 9.4 |
| Pacific Coast | 25.5 | 48.1 | 55.8 | 60.0 |
| South America | 11.7 | 9.9 | 6.7 | 18.5 |
| South Pacific/Far East | 7.0 | 7.5 | 8.9 | 11.7 |
| Southern Caribbean | 749.3 | 895.2 | 788.3 | 749.0 |
| Transatlantic | 75.7 | 96.1 | 146.4 | 138.0 |
| Trans-Panama Canal | 94.9 | 107.8 | 111.9 | 91.4 |
| Western Caribbean | 2,923.9 | 3,094.0 | 3,141.5 | 3,151.1 |
| Total | 8,348.7 | 9,418.3 | 9,747.2 | 9,970.9 |

NOTES: The cruise statistics cover seventeen major cruise lines that offer North American cruises with a U.S. port of call.

Destination Notes:

Eastern Caribbean: As far South as St. Maarten, as far west as Haiti.

Southern Caribbean: South of St. Maarten to northern coast of South America as far as Aruba.

Western Caribbean: West of Haiti, includes ports in Mexico, Central America, and Columbia.

Nowhere: Cruises that begin and end at the same port with no intervening calls.

Atlantic Coast: Any coast fronting the Atlantic Ocean.

Pacific Coast: Any coast fronting the Pacific Ocean.

SOURCE: U.S. Department of Transportation, Maritime Administration, Cruise Statistics, Summary Tables, available at: <http://www.marad.dot.gov> as of November 2007.

TABLE D-17 Incoming Maritime Vessels by Region, Type: 2001–2005

| | 2001 | 2002 | 2003 | 2004 | 2005 | Percent change 2001–2005 |
|-------------------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|
| Tanker | 18,387 | 17,320 | 18,503 | 19,316 | 20,118 | 9.4 |
| North Atlantic | 3,682 | 3,122 | 3,679 | 3,801 | 3,875 | 5.2 |
| South Atlantic | 1,437 | 1,297 | 1,303 | 1,455 | 1,622 | 12.9 |
| Puerto Rico | 212 | 241 | 273 | 312 | 261 | 23.1 |
| U.S. Gulf | 9,155 | 8,798 | 9,370 | 10,125 | 10,474 | 14.4 |
| Pacific Northwest | 1,805 | 1,793 | 1,900 | 1,538 | 1,690 | -6.4 |
| Pacific Southwest | 2,096 | 2,069 | 1,978 | 2,085 | 2,196 | 4.8 |
| Container | 17,076 | 17,138 | 17,287 | 18,279 | 18,542 | 8.6 |
| North Atlantic | 3,196 | 3,043 | 3,036 | 3,115 | 3,291 | 3.0 |
| South Atlantic | 5,479 | 5,444 | 5,341 | 6,079 | 6,339 | 15.6 |
| Puerto Rico | 586 | 568 | 504 | 505 | 487 | -16.9 |
| U.S. Gulf | 1,283 | 1,262 | 1,263 | 1,284 | 1,378 | 7.4 |
| Pacific Northwest | 1,705 | 1,787 | 1,875 | 1,855 | 1,890 | 10.9 |
| Pacific Southwest | 4,827 | 5,034 | 5,268 | 5,441 | 5,157 | 6.8 |
| Dry Bulk | 11,628 | 11,112 | 10,271 | 11,631 | 11,406 | 1.9 |
| North Atlantic | 1,588 | 1,388 | 1,351 | 1,566 | 1,609 | 1.3 |
| South Atlantic | 1,341 | 1,156 | 1,054 | 1,297 | 1,253 | -6.6 |
| Puerto Rico | 91 | 85 | 126 | 72 | 73 | -19.8 |
| U.S. Gulf | 4,793 | 4,983 | 4,837 | 4,959 | 4,575 | -4.5 |
| Pacific Northwest | 2,420 | 2,111 | 1,479 | 2,267 | 2,364 | -2.3 |
| Pacific Southwest | 1,395 | 1,389 | 1,424 | 1,470 | 1,532 | 9.8 |
| Roll On/Roll Off | 5,712 | 5,632 | 5,191 | 5,317 | 5,663 | -0.9 |
| North Atlantic | 1,786 | 1,804 | 1,577 | 1,542 | 1,587 | -11.1 |
| South Atlantic | 1,644 | 1,555 | 1,434 | 1,527 | 1,682 | 2.3 |
| Puerto Rico | 200 | 167 | 243 | 204 | 214 | 7.0 |
| U.S. Gulf | 449 | 431 | 398 | 370 | 337 | -24.9 |
| Pacific Northwest | 773 | 792 | 679 | 593 | 609 | -21.2 |
| Pacific Southwest | 860 | 883 | 860 | 1,081 | 1,234 | 43.5 |

(continued on next page)

TABLE D-17 Incoming Maritime Vessels by Region, Type: 2001–2005 (continued)

| | 2001 | 2002 | 2003 | 2004 | 2005 | Percent change 2001-2005 |
|----------------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|
| Gas Carrier | 739 | 739 | 926 | 916 | 969 | 31.1 |
| North Atlantic | 75 | 73 | 122 | 161 | 174 | 132.0 |
| South Atlantic | 33 | 26 | 45 | 71 | 69 | 109.1 |
| Puerto Rico | 28 | 33 | 35 | 41 | 24 | -14.3 |
| U.S. Gulf | 493 | 514 | 624 | 548 | 558 | 13.2 |
| Pacific Northwest | 61 | 43 | 48 | 34 | 93 | 52.5 |
| Pacific Southwest | 49 | 50 | 52 | 61 | 51 | 4.1 |
| Combination | 770 | 761 | 666 | 459 | 414 | -46.2 |
| North Atlantic | 251 | 234 | 216 | 108 | 129 | -48.6 |
| South Atlantic | 71 | 69 | 48 | 73 | 58 | -18.3 |
| Puerto Rico | 5 | 14 | 10 | 2 | 8 | 60.0 |
| U.S. Gulf | 406 | 418 | 375 | 258 | 201 | -50.1 |
| Pacific Northwest | 3 | 0 | 2 | 3 | 5 | 66.7 |
| Pacific Southwest | 34 | 26 | 15 | 15 | 13 | -61.8 |
| General Cargo | 4,076 | 3,894 | 3,915 | 3,967 | 3,935 | -3.5 |
| North Atlantic | 846 | 789 | 852 | 925 | 833 | -1.5 |
| South Atlantic | 800 | 828 | 703 | 802 | 686 | -14.3 |
| Puerto Rico | 285 | 269 | 306 | 223 | 223 | -21.8 |
| U.S. Gulf | 1,361 | 1,267 | 1,167 | 1,141 | 1,160 | -14.8 |
| Pacific Northwest | 160 | 171 | 251 | 220 | 290 | 81.3 |
| Pacific Southwest | 624 | 570 | 636 | 656 | 743 | 19.1 |
| All Types | 58,388 | 56,596 | 56,759 | 59,885 | 61,047 | 4.5 |
| North Atlantic | 11,424 | 10,453 | 10,833 | 11,218 | 11,498 | 0.6 |
| South Atlantic | 10,805 | 10,375 | 9,928 | 11,304 | 11,709 | 8.4 |
| Puerto Rico | 1,407 | 1,377 | 1,497 | 1,359 | 1,290 | -8.3 |
| U.S. Gulf | 17,940 | 17,673 | 18,034 | 18,685 | 18,683 | 4.1 |
| Pacific Northwest | 6,927 | 6,697 | 6,234 | 6,510 | 6,941 | 0.2 |
| Pacific Southwest | 9,885 | 10,021 | 10,233 | 10,809 | 10,926 | 10.5 |

NOTES: Data may not add to total because of independent rounding. **Vessel types** - *Tanker*: petroleum tankers, chemical tankers; *Container*: container carriers, refrigerated container carriers; *Dry bulk*: bulk vessels, bulk containership, cement carriers, ore carriers, wood-chip carriers; *Roll On/Roll Off*: RO/RO Off vessels, RO/RO containerships, vehicle carriers; *Gas carriers*: LNG carriers, LNG/LPG carriers, LPG carriers; *Combination*: ore/bulk/oil carriers, bulk/oil carriers; *General cargo*: general cargo carriers, partial containerships, refrigerated ships, barge carriers, livestock carriers.

SOURCE: U.S. Department of Transportation Maritime Administration, *Vessel Calls and U.S. and World Ports 2005*, available at http://www.marad.dot.gov/MARAD_statistics/index.html as of November 2007.

Environmental Stewardship and Energy Use

TABLE E-1 Average Fuel Efficiency of U.S. Passenger Cars and Light Trucks: 1995–2006
Miles per gallon

| | Average U.S. passenger car fuel efficiency (calendar year) | | New vehicle fuel efficiency (model year) | | | | CAFE standards (model year) | |
|------|--|-----------------------------|--|----------|----------|-------------------------------|-----------------------------|-------------|
| | Passenger car | Other 2-axle 4-tire vehicle | Passenger car | Domestic | Imported | Light truck (<8,500 lbs GVWR) | Passenger car | Light truck |
| 1995 | 21.1 | 17.3 | 28.6 | 27.7 | 30.3 | 20.5 | 27.5 | 20.6 |
| 1996 | 21.2 | 17.2 | 28.5 | 28.1 | 29.6 | 20.8 | 27.5 | 20.7 |
| 1997 | 21.5 | 17.2 | 28.7 | 27.8 | 30.1 | 20.6 | 27.5 | 20.7 |
| 1998 | 21.6 | 17.2 | 28.8 | 28.6 | 29.2 | 21.0 | 27.5 | 20.7 |
| 1999 | 21.4 | 17.0 | 28.3 | 28.0 | 29.0 | 20.9 | 27.5 | 20.7 |
| 2000 | 21.9 | 17.4 | 28.5 | 28.7 | 28.3 | 21.3 | 27.5 | 20.7 |
| 2001 | 22.1 | 17.6 | 28.8 | 28.7 | 29.0 | 20.9 | 27.5 | 20.7 |
| 2002 | 22.0 | 17.5 | 29.0 | 29.1 | 28.8 | 21.4 | 27.5 | 20.7 |
| 2003 | 22.2 | 16.2 | 29.5 | 29.1 | 29.9 | 21.8 | 27.5 | 20.7 |
| 2004 | 22.5 | 16.2 | 29.5 | 29.9 | 28.7 | 21.5 | 27.5 | 20.7 |
| 2005 | 22.9 | 16.2 | 30.3 | 30.4 | 29.8 | 22.1 | 27.5 | 21.0 |
| 2006 | U | U | 29.8 | 30.0 | 29.4 | 22.2 | 27.5 | 21.6 |

KEY: CAFE = Corporate Average Fuel Economy; GVWR = Gross vehicle weight rating; U = Data are unavailable.

NOTES: *New vehicle fuel efficiency* and *CAFE standards* assume 55% city and 45% highway-miles. The fuel efficiency figures for light duty vehicles represent the sales-weighted harmonic average of the combined passenger car and light truck fuel economies.

SOURCES: **Average U.S. passenger car fuel efficiency:** —USDOT, Federal Highway Administration, *Highway Statistics* (Washington, DC: annual issues), table VM-1.

New vehicle fuel efficiency (based on model year production) and CAFE standards: —USDOT, National Highway Traffic Safety Administration, *Summary of Fuel Economy Performance* (Washington, DC: annual issues).

TABLE E-2 Carbon Dioxide Emissions by Mode: 1995–2005

Millions of short tons

| | Passenger cars | Light-duty trucks | All other trucks | Buses | Aircraft | Ships and boats | Locomotives | Other | Total, all modes |
|------|----------------|-------------------|------------------|-------|----------|-----------------|-------------|-------|------------------|
| 1995 | 599.6 | 401.6 | 270.9 | 9.0 | 174.6 | 55.4 | 42.2 | 51.3 | 1,604.6 |
| 1996 | 604.6 | 414.1 | 279.8 | 9.3 | 183.0 | 53.0 | 43.0 | 51.6 | 1,638.4 |
| 1997 | 602.2 | 427.1 | 300.7 | 9.8 | 181.9 | 37.4 | 43.1 | 54.5 | 1,656.8 |
| 1998 | 621.3 | 437.7 | 310.1 | 10.0 | 184.3 | 30.6 | 43.5 | 49.0 | 1,686.4 |
| 1999 | 630.2 | 455.7 | 326.7 | 11.2 | 189.9 | 40.9 | 45.0 | 49.6 | 1,749.2 |
| 2000 | 632.0 | 459.2 | 343.2 | 11.0 | 196.4 | 63.8 | 45.1 | 49.1 | 1,799.9 |
| 2001 | 634.7 | 462.7 | 343.3 | 10.1 | 186.6 | 43.0 | 45.1 | 47.2 | 1,772.6 |
| 2002 | 649.6 | 476.6 | 358.1 | 9.7 | 178.0 | 60.6 | 44.9 | 49.2 | 1,826.7 |
| 2003 | 629.1 | 510.7 | 355.4 | 10.6 | 174.7 | 53.3 | 46.6 | 44.4 | 1,824.9 |
| 2004 | 628.7 | 533.6 | 368.5 | 14.9 | 179.7 | 61.1 | 49.2 | 43.5 | 1,879.1 |
| 2005 | 614.9 | 550.3 | 384.6 | 15.1 | 186.1 | 63.7 | 50.3 | 43.1 | 1,908.1 |

NOTES: Data may not add to total because of independent rounding. *Other* carbon dioxide emissions are from motorcycles, pipelines, and lubricants. *International bunker fuel* emissions (not included in the total) result from the combustion of fuels purchased in the United States but used for international aviation and maritime transportation. Thus, *aircraft* and *ships and boats* data included in U.S. total emissions involve only domestic activities of these modes as do all other data shown. *Aircraft* emissions consist of emissions from all jet fuel (less bunker fuels) and aviation gas consumption. Alternative-fuel vehicle emissions are allocated to the specific vehicle types in which they were classified (i.e., passenger cars, light-duty trucks, and other trucks and buses).

SOURCE: U.S. Environmental Protection Agency, *Inventory of U.S. Greenhouse Gas Emissions and Sinks* (Washington, DC: Annual Issues), table 2-17.

TABLE E-3 Transportation Air Pollutant Emissions from On-Road Mobile Sources: 1995–2006
Millions of short tons

| | Carbon monoxide | | | Nitrogen oxides | | |
|------|--------------------|-----------------------|-----------------------------------|--------------------|-----------------------|-----------------------------------|
| | All sources, total | Transportation, total | Transportation (percent of total) | All sources, total | Transportation, total | Transportation (percent of total) |
| 1995 | 126.78 | 83.88 | 66 | 24.96 | 8.88 | 36 |
| 1996 | 128.86 | 78.61 | 61 | 24.79 | 8.73 | 35 |
| 1997 | 117.91 | 75.85 | 64 | 24.71 | 8.79 | 36 |
| 1998 | 115.38 | 73.24 | 63 | 24.35 | 8.62 | 35 |
| 1999 | 114.54 | 68.71 | 60 | 22.84 | 8.37 | 37 |
| 2000 | 114.47 | 68.06 | 59 | 22.60 | 8.39 | 37 |
| 2001 | 106.26 | 63.48 | 60 | 21.55 | 7.77 | 36 |
| 2002 | 109.24 | 62.96 | 58 | 21.28 | 8.13 | 38 |
| 2003 | 107.06 | 60.74 | 57 | 20.48 | 7.75 | 38 |
| 2004 | 104.89 | 58.53 | 56 | 19.56 | 7.37 | 38 |
| 2005 | 102.72 | 56.32 | 55 | 18.95 | 6.98 | 37 |
| 2006 | 100.55 | 54.10 | 54 | 18.23 | 6.60 | 36 |

| | Volatile organic compounds | | | Sulfur dioxide | | |
|------|----------------------------|-----------------------|-----------------------------------|--------------------|-----------------------|-----------------------------------|
| | All sources, total | Transportation, total | Transportation (percent of total) | All sources, total | Transportation, total | Transportation (percent of total) |
| 1995 | 22.04 | 6.75 | 31 | 18.62 | 0.34 | 2 |
| 1996 | 20.87 | 6.22 | 30 | 18.39 | 0.30 | 2 |
| 1997 | 19.53 | 5.99 | 31 | 18.84 | 0.30 | 2 |
| 1998 | 18.78 | 5.86 | 31 | 18.94 | 0.30 | 2 |
| 1999 | 18.27 | 5.68 | 31 | 17.54 | 0.30 | 2 |
| 2000 | 17.51 | 5.33 | 30 | 16.35 | 0.26 | 2 |
| 2001 | 17.11 | 4.95 | 29 | 15.93 | 0.25 | 2 |
| 2002 | 19.40 | 4.66 | 24 | 14.62 | 0.26 | 2 |
| 2003 | 18.89 | 4.46 | 24 | 15.02 | 0.24 | 2 |
| 2004 | 18.39 | 4.26 | 23 | 14.67 | 0.22 | 2 |
| 2005 | 17.89 | 4.05 | 23 | 14.63 | 0.21 | 1 |
| 2006 | 17.38 | 3.85 | 22 | 13.77 | 0.19 | 1 |

NOTES: Previous edition's data include all on-road mobile sources and some nonroad mobile sources, since EPA changed the methodology to estimate emissions, the details of the data are unavailable, this data set only contains the on-road mobile sources.

SOURCE: U.S. Environmental Protection Agency, Clearinghouse for Inventories and Emissions Factors (CHIEF), *Current Emission Trends Summaries*, Internet website <http://www.epa.gov/ttn/chief/trends/index.html> as of July 2007.

TABLE E-4 Miles of Highway Sound Walls Constructed: 1995–2004
Miles

| | Type I barriers | Type II barriers | All other types |
|------|-----------------|------------------|-----------------|
| 1995 | 95 | 32 | 6 |
| 1996 | 37 | 15 | 2 |
| 1997 | 70 | 31 | 1 |
| 1998 | 116 | 23 | 1 |
| 1999 | 31 | 18 | 5 |
| 2000 | 67 | 11 | 4 |
| 2001 | 95 | 18 | 19 |
| 2002 | 63 | 13 | 2 |
| 2003 | 78 | 4 | 7 |
| 2004 | 88 | 14 | 3 |

NOTES: Forty-five miles of barriers, while assigned a year of construction, cannot be assigned a cost. California did not provide data for the years 1999–2004 and, therefore, these years may not be comparable with previous years.

A *Type I barrier* is built on a new highway project or a physically altered existing highway.

A *Type II barrier* is built to abate noise along an existing highway (often referred to as retrofit abatement) and is not mandatory.

All other types of barriers are nonfederally funded.

SOURCE: U.S. Department of Transportation, Federal Highway Administration, Office of Environment and Planning, Highway Traffic Noise Barrier Construction Trends (Washington, DC: May 2006), tables 1 and 3.

TABLE E-5 Hazardous Materials Transportation Incidents: 1990–2006

| | 1990 | 1995 | 2000 | 2004 | 2005 | 2006 |
|---------------------------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Highway | 7,297 | 12,869 | 15,063 | 13,071 | 13,460 | 17,128 |
| Accident related | 261 | 257 | 329 | 283 | 322 | 303 |
| Injuries | 311 | 296 | 164 | 155 | 175 | 192 |
| Fatalities | 8 | 7 | 16 | 13 | 24 | 6 |
| Rail | 1,279 | 1,155 | 1,058 | 765 | 745 | 704 |
| Accident related | 48 | 50 | 62 | 46 | 51 | 44 |
| Injuries | 73 | 71 | 82 | 122 | 692 | 24 |
| Fatalities | 0 | 0 | 0 | 3 | 10 | 0 |
| Air | 297 | 817 | 1,419 | 993 | 1,654 | 2,410 |
| Accident related | 0 | 0 | 3 | 0 | 9 | 7 |
| Injuries | 39 | 33 | 5 | 11 | 78 | 2 |
| Fatalities | 0 | 0 | 0 | 0 | 0 | 0 |
| Water | 7 | 12 | 17 | 17 | 69 | 68 |
| Accident related | 0 | 0 | 0 | 0 | 0 | 0 |
| Injuries | 0 | 0 | 0 | 0 | 0 | 15 |
| Fatalities | 0 | 0 | 0 | 0 | 0 | 0 |
| Pipeline | | | | | | |
| Liquid | 180 | 188 | 146 | 144 | 138 | 111 |
| Injuries | 7 | 11 | 4 | 16 | 2 | 2 |
| Fatalities | 3 | 3 | 1 | 5 | 2 | 0 |
| Natural gas distribution | 109 | 97 | 154 | 176 | 170 | 134 |
| Injuries | 52 | 43 | 59 | 41 | 38 | 25 |
| Fatalities | 6 | 16 | 22 | 18 | 14 | 16 |
| Natural gas transmission | 89 | 64 | 80 | 123 | 181 | 143 |
| Injuries | 17 | 10 | 18 | 3 | 7 | 5 |
| Fatalities | 0 | 2 | 15 | 0 | 0 | 3 |

NOTES: Accident related excludes human errors, package failures, and unreported cases. Water data are for incidents involving packaged materials only and do not include incidents where the vessel is the container (e.g., a barge or oil tanker). Nonpipeline reporting requirements changed in 2002.

In previous years, carriers were exclusively responsible for reporting hazardous materials release incidents. In 2005, PHMSA expanding the requirement to report to include the person in physical possession of a hazardous material at the time an incident occurs during transport. Nonrelease incidents involving cargo tanking and undeclared shipments of hazardous materials.

SOURCES: USDOT, Pipeline and Hazardous Materials Safety Administration (PHMSA), Hazardous Materials Information System Database. **1990 data**—available at http://hazmat.dot.gov/pubs/biennial/96_97biennial.rpt.pdf as of December 2005. **1995–2006 data**—available at <http://hazmat.dot.gov/pubs/inc/data/2006/2006frm.htm> as of August 2007. **Pipeline data**—USDOT, PHMSA, Office of Pipeline Safety, available at <http://ops.dot.gov/stats/stats.htm> as of August 2007.

TABLE E-6 Top 20 Hazardous Material Incidents: 2006

| Rank | Hazardous materials | Incidents |
|------|---|-----------|
| 1 | Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base) or paint-related material (including paint thinning or reducing compound) | 3,411 |
| 2 | Flammable liquids, N.O.S. | 1,178 |
| 3 | Diagnostic specimen | 1,062 |
| 4 | Isopropanol or isopropyl alcohol | 761 |
| 5 | Paint | 742 |
| 6 | Corrosive liquids, N.O.S. | 638 |
| 7 | Paint related material including paint thinning, drying, removing or reducing compound | 592 |
| 8 | Sodium hydroxide, solution | 523 |
| 9 | Resin solution, flammable | 497 |
| 10 | Corrosive liquid, acidic, inorganic, N.O.S | 422 |
| 11 | Printing ink, flammable | 381 |
| 12 | Corrosive liquid, acidic, inorganic, N.O.S. | 351 |
| 13 | Adhesives, containing a flammable liquid | 302 |
| 14 | Methanol or methyl alcohol | 302 |
| 15 | Fire extinguishers containing | 300 |
| 16 | Hydrochloric acid, solution | 299 |
| 17 | Potassium hydroxide, solution | 270 |
| 18 | Sulfuric acid | 254 |
| 19 | Gasoline | 249 |
| 20 | Acetone | 211 |

KEY: N.O.S. = Not otherwise specified.

NOTES: Due to multiple commodities being involved in a single incident, the totals above may not correspond to the totals in other reports. Due to changes enacted Jan. 1, 2005, in reporting requirements and the 5800.1 form, reportable incidents now include all undeclared hazardous materials shipments and specification cargo tanks that receive damage to their lading retention systems while hauling hazardous materials.

SOURCE: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration (PHMSA), Hazardous Materials Information System, available at <http://hazmat.dot.gov/> as of August 2007.

TABLE E-7 Volume of Oil Spills from Facilities by Sources: 1995–2005

Thousands of gallons

| | Airports/ aircraft | Offshore | Onshore | Pipelines | Railroads/ rails | Tank trucks | Other vehicles | Other facilities | Unknown | Total |
|------|-----------------------|----------|---------|-----------|---------------------|----------------|-------------------|---------------------|---------|-------|
| 1995 | 2 | 12 | 116 | 78 | 44 | 0 | 0 | 20 | 9 | 281 |
| 1996 | 2 | 227 | 192 | 988 | 1 | 3 | 1 | 24 | 11 | 1,449 |
| 1997 | 1 | 13 | 175 | 267 | 4 | 4 | 1 | 92 | 12 | 569 |
| 1998 | 1 | 25 | 106 | 204 | 0 | 11 | 1 | 16 | 32 | 396 |
| 1999 | 0 | 11 | 426 | 39 | 1 | 13 | 1 | 45 | 47 | 583 |
| 2000 | 2 | 11 | 256 | 99 | 0 | 11 | 1 | 13 | 8 | 401 |
| 2001 | 1 | 31 | 192 | 8 | 1 | U | 12 | 140 | 64 | 450 |
| 2002 | 0 | 63 | 142 | 0 | 0 | U | 4 | 0 | 79 | 288 |
| 2003 | 0 | 36 | 35 | 0 | 0 | U | 0 | 0 | 3 | 74 |
| 2004 | 0 | 10 | 62 | 0 | 0 | U | 0 | 0 | 1 | 74 |
| 2005 | 0 | 1 | 2 | 0 | 0 | U | 0 | 0 | 111 | 113 |

KEY: U = Data are unavailable.

NOTES: Other Vehicles include passenger cars, 4-wheel drives and ATVs. The drop in total spills from 2002 to 2005 reflects the implementation of a new database following a massive breakdown of the main Coast Guard Oil spill database (MSIS) in November 2001. The new system (MISLE) only counts the spill if it is investigated.

In 2005 facilities accounted for 66 percent of all spills, largely the result of an Unknown facility spill that occurred on the Kentucky River in January, spilling 110,000 gallons of crude oil.

SOURCE: American Petroleum Institute, *Oil Spills in U.S. Waters*, available at <http://www.api.org/> as of November 2007.

TABLE E-8 Population Affected by High Decibel Noise at Airports: 1995–2005

| | People affected (thousands) | Percent of U.S. resident population | U.S. resident population (millions) |
|------|--------------------------------|--|--|
| 1995 | 1,700 | 0.64 | 266.3 |
| 1996 | 1,500 | 0.56 | 269.4 |
| 1997 | 1,300 | 0.48 | 272.6 |
| 1998 | 1,100 | 0.40 | 275.9 |
| 1999 | 680 | 0.24 | 279.0 |
| 2000 | 440 | 0.16 | 282.2 |
| 2001 | 411 | 0.14 | 285.1 |
| 2002 | 294 | 0.10 | 287.9 |
| 2003 | 289 | 0.10 | 290.8 |
| 2004 | 208 | 0.07 | 293.7 |
| 2005 | 148 | 0.05 | 296.4 |

NOTES: Noise-level contours are graphical representations of noise levels on a map, similar to elevation contours on a topographic map. Noise-level contours are lines that join points of equal sound levels. Areas between given noise-level contour lines would have a noise level between the two contour values. The U.S. Department of Transportation, Federal Aviation Administration (FAA) has identified DNL 65 dB as the highest threshold of airport noise exposure that is normally compatible with indoor and outdoor activity associated with a variety of land uses, including residential, recreational, schools, and hospitals. Estimates are for areas surrounding airport property of 250 of the largest civil airports with jet operations in the United States. They exclude exposure to aircraft noise within an airport boundary.

SOURCES: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2007*, table 4-53, available at <http://www.bts.gov/> as of November 2007.

TABLE E-9 Wetlands Conversion to Transport with Federal-Aid Highway Projects and Acreage Mitigated: 2000–2006

| | Acres impacted | Acres mitigated | Acres gained (net) | Mitigation ratio |
|------|----------------|-----------------|--------------------|------------------|
| 2000 | 2,041 | 7,671 | 5,630 | 3.8:1 |
| 2001 | 1,905 | 4,017 | 2,112 | 2.1:1 |
| 2002 | 1,942 | 5,198 | 3,256 | 2.7:1 |
| 2003 | 1,278 | 3,431 | 2,153 | 2.7:1 |
| 2004 | 847 | 1,763 | 916 | 2.1:1 |
| 2005 | 1,139 | 3,741 | 2,602 | 3.3:1 |
| 2006 | 591 | 1,414 | 823 | 2.4:1 |

NOTES: These data cover wetlands acreage affected by Federal-Aid Highway projects, approximately 24% of the total mileage of the U.S. public roads. These data are collected by states using varying collection methodologies. The mitigation ratio equals acres mitigated to acres impacted.

SOURCES: 2000–2004—U.S. Department of Transportation, Federal Highway Administration, Federal Highway Administration Wetland Mitigation Performance Measure for Federal-Aid Highway Projects Fiscal Year (FY) 2004. **2005–2006**—USDOT, FHWA, personal communication, August 2007.

Security Preparedness and Response

TABLE F-1 Energy Consumption by the Transportation Sector: 1995–2006

Quadrillion Btu

| | Energy consumption (all sectors) | Total transportation consumption | Transportation as percent of total energy consumption | Total primary consumption | Natural gas | Petroleum products | Electricity | Electrical system energy losses |
|------|----------------------------------|----------------------------------|---|---------------------------|-------------|--------------------|-------------|---------------------------------|
| 1995 | 91.12 | 23.85 | 26.2 | 23.79 | 0.72 | 23.07 | 0.02 | 0.04 |
| 1996 | 94.23 | 24.44 | 25.9 | 24.38 | 0.74 | 23.65 | 0.02 | 0.04 |
| 1997 | 94.80 | 24.75 | 26.0 | 24.70 | 0.78 | 23.92 | 0.02 | 0.04 |
| 1998 | 95.20 | 25.26 | 26.5 | 25.20 | 0.67 | 24.54 | 0.02 | 0.04 |
| 1999 | 96.84 | 25.95 | 26.8 | 25.89 | 0.68 | 25.22 | 0.02 | 0.04 |
| 2000 | 98.98 | 26.55 | 26.8 | 26.49 | 0.67 | 25.82 | 0.02 | 0.04 |
| 2001 | 96.32 | 26.28 | 27.3 | 26.21 | 0.66 | 25.56 | 0.02 | 0.04 |
| 2002 | 97.81 | 26.85 | 27.4 | 26.79 | 0.70 | 26.08 | 0.02 | 0.04 |
| 2003 | 98.12 | 27.00 | 27.5 | 26.93 | 0.63 | 26.30 | 0.02 | 0.05 |
| 2004 | 100.22 | 27.90 | 27.8 | 27.82 | 0.60 | 27.21 | 0.03 | 0.06 |
| 2005 | 100.46 | 28.32 | 28.2 | 28.24 | 0.62 | 27.61 | 0.03 | 0.06 |
| 2006 | 99.66 | 28.40 | 28.5 | 28.31 | 0.62 | 27.70 | 0.03 | 0.06 |

KEY: Btu = British thermal unit.

NOTES: *Total transportation consumption* is the sum of primary consumption, electricity, and electrical system energy losses categories. *Total primary consumption* is the sum of natural gas and petroleum categories. *Natural gas* is consumed in the operation of pipelines, primarily in compressors, and small amounts as vehicle fuel.

Petroleum products includes most nonutility use of fossil fuels to produce electricity and small amounts (about 0.1 quadrillion Btu per year since 1990) of renewable energy in the form of ethanol blended into motor gasoline.

Electrical system energy losses are incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

SOURCE: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2007*, table 4-4, available at <http://www.bts.gov/> as of August 2007.

TABLE F-2 Energy Consumption by Mode of Transportation: 1995–2005

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Trillion Btu | | | | | | | | | | | |
| Air | | | | | | | | | | | |
| Certificated carriers | | | | | | | | | | | |
| Jet fuel | 1,711 | 1,784 | 1,831 | 1,800 | 1,944 | 2,004 | 1,892 | 1,735 | 1,749 | 1,839 | 1,861 |
| General aviation | | | | | | | | | | | |
| Aviation gasoline | 35 | 35 | 35 | 37 | 42 | 40 | 33 | 33 | 34 | 34 | 35 |
| Jet fuel | 76 | 82 | 87 | 110 | 131 | 131 | 129 | 133 | 127 | 130 | 136 |
| Highway | | | | | | | | | | | |
| Gasoline, diesel and other fuels | | | | | | | | | | | |
| Passenger car and motorcycle | 8,534 | 8,677 | 8,762 | 8,988 | 9,187 | 9,159 | 9,219 | 9,458 | 9,456 | 9,451 | 9,261 |
| Other 2-axle 4-tire vehicle | 5,701 | 5,919 | 6,173 | 6,308 | 6,607 | 6,617 | 6,690 | 6,903 | 7,595 | 7,927 | 8,177 |
| Single-unit 2-axle 6-tire or more truck | 1,278 | 1,305 | 1,328 | 946 | 1,300 | 1,326 | 1,341 | 1,290 | 1,110 | 1,120 | 1,130 |
| Combination truck | 2,743 | 2,801 | 2,816 | 3,489 | 3,403 | 3,560 | 3,538 | 3,673 | 3,303 | 3,355 | 3,386 |
| Bus | 134 | 137 | 142 | 144 | 159 | 154 | 142 | 139 | 134 | 189 | 184 |
| Transit | | | | | | | | | | | |
| Electricity | 17 | 17 | 17 | 17 | 18 | 19 | 19 | 19 | 19 | 20 | 20 |
| Motor fuel | | | | | | | | | | | |
| Diesel | 94 | 96 | 99 | 103 | 106 | 109 | 103 | 100 | 99 | 101 | 101 |
| Gasoline and other nondiesel fuels | 8 | 8 | 7 | 7 | 6 | 6 | 6 | 7 | 6 | 7 | 7 |
| Compressed natural gas | 1 | 2 | 3 | 5 | 6 | 8 | 9 | 11 | 14 | 16 | 17 |
| Rail, Class I (in freight service) | | | | | | | | | | | |
| Distillate / diesel fuel | 483 | 496 | 496 | 497 | 515 | 513 | 515 | 517 | 531 | 563 | 568 |
| Amtrak | | | | | | | | | | | |
| Electricity | 1 | 1 | 1 | 1 | 1 | 1 | 1 | U | U | U | U |
| Distillate / diesel fuel | 9 | 10 | 10 | 10 | 10 | 11 | 10 | U | U | U | U |
| Water | | | | | | | | | | | |
| Residual fuel oil | 881 | 853 | 750 | 841 | 874 | 960 | 810 | 726 | 580 | 702 | 702 |
| Distillate / diesel fuel oil | 324 | 345 | 357 | 360 | 336 | 314 | 284 | 288 | 307 | 297 | 278 |
| Gasoline | 133 | 124 | 123 | 120 | 137 | 141 | 124 | 135 | 138 | 126 | 158 |
| Pipeline | | | | | | | | | | | |
| Natural gas | 722 | 734 | 775 | 655 | 665 | 662 | 644 | 688 | 610 | 590 | 603 |

KEY: Btu = British thermal unit; U = Data are unavailable.

NOTES: *Certificated carriers* are domestic operations only. *General aviation* includes fuel used in air taxi operations, but not commuter operations.

The following conversion rates were used:

Jet fuel = 135,000 Btu/gallon Automotive gasoline = 125,000 Btu/gallon Compressed natural gas = 138,700 Btu/gallon Residual fuel = 149,700 Btu/gallon

Aviation gasoline = 120,200 Btu/gallon Diesel motor fuel = 138,700 Btu/gallon Distillate fuel = 138,700 Btu/gallon Natural gas = 1,031 Btu/ft³

Electricity = kWh = 3,412 Btu, negating electrical system losses. To include approximate electrical system losses, multiply this conversion factor by 3.

SOURCE: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2007*, table 4-6, available at <http://www.bts.gov/> as of August 2007.

Figure F-3 U.S. Petroleum Use by Sector: 2006

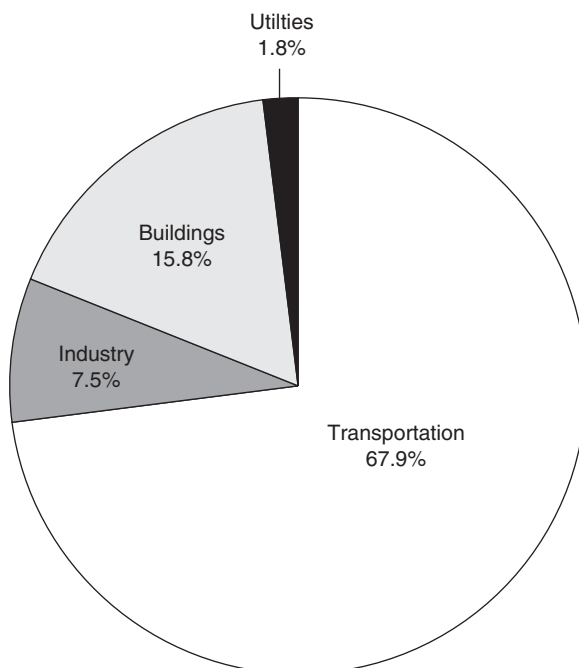


TABLE F-3 U.S. Petroleum Use by Sector: 1995–2006

Millions of barrels per day

| | Transportation | Industry | Buildings | Utilities | Total | Transportation as a percentage of total |
|------|----------------|----------|-----------|-----------|-------|---|
| 1995 | 11.7 | 4.6 | 1.1 | 0.3 | 17.7 | 65.8 |
| 1996 | 11.9 | 4.8 | 1.2 | 0.4 | 18.3 | 65.1 |
| 1997 | 12.1 | 5.0 | 1.2 | 0.4 | 18.6 | 65.0 |
| 1998 | 12.4 | 4.8 | 1.1 | 0.6 | 18.9 | 65.7 |
| 1999 | 12.8 | 5.0 | 1.2 | 0.5 | 19.5 | 65.4 |
| 2000 | 13.0 | 4.9 | 1.3 | 0.5 | 19.7 | 66.1 |
| 2001 | 12.9 | 4.9 | 1.3 | 0.6 | 19.6 | 65.8 |
| 2002 | 13.2 | 4.9 | 1.2 | 0.4 | 19.8 | 66.8 |
| 2003 | 13.3 | 4.9 | 1.3 | 0.5 | 20.0 | 66.5 |
| 2004 | 13.7 | 5.2 | 1.3 | 0.5 | 20.7 | 66.2 |
| 2005 | 13.9 | 5.1 | 1.2 | 0.5 | 20.8 | 67.0 |
| 2006 | 14.0 | 5.1 | 1.2 | 0.3 | 20.6 | 67.9 |

NOTES: 2003–2005 data are preliminary, except for utilities. Data may not add to total because of independent rounding.

SOURCE: U.S. Department of Energy, Energy Information Administration, *Annual Energy Review 2006*, table 5.13a-d, available at <http://www.eia.doe.gov/> as of August 2007.

TABLE F-4 Energy Intensity by Passenger Mode: 1995–2005

Btu per passenger-mile

| | Passenger cars | Light-duty trucks | Transit buses | Aircraft (domestic) | Amtrak |
|------|----------------|-------------------|---------------|---------------------|--------|
| 1995 | 3,721 | 4,538 | 4,155 | 4,382 | 1,838 |
| 1996 | 3,688 | 4,541 | 4,196 | 4,183 | 2,153 |
| 1997 | 3,657 | 4,564 | 4,228 | 4,166 | 2,200 |
| 1998 | 3,637 | 4,569 | 4,133 | 4,123 | 2,138 |
| 1999 | 3,672 | 4,612 | 4,044 | 4,049 | 2,107 |
| 2000 | 3,589 | 4,509 | 4,147 | 3,883 | 2,134 |
| 2001 | 3,597 | 3,985 | 3,698 | 3,890 | 2,100 |
| 2002 | 3,600 | 4,121 | 3,550 | 3,596 | U |
| 2003 | 3,570 | 4,452 | 3,514 | 3,463 | U |
| 2004 | 3,509 | 4,452 | 3,572 | 3,297 | U |
| 2005 | 3,458 | 4,452 | U | 3,182 | U |

KEY: Btu = British thermal unit; U = Data are unavailable.**SOURCE:** Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2007*, table 4-20, available at <http://www.bts.gov/> as of August 2007.

TABLE F-5 Prohibited Items Intercepted at Airport Screening Checkpoints: 2002–2005

| | 2002 | 2003 | 2004 | 2005 |
|-------------------------------|------------------|------------------|------------------|-------------------|
| Total prohibited items | 3,775,345 | 6,114,612 | 7,089,599 | 15,909,141 |
| Firearms | 927 | 683 | 650 | 2,217 |
| Knives | 1,036,697 | 1,961,849 | 2,058,652 | 1,822,888 |
| Box cutters | 32,788 | 20,991 | 22,350 | 21,319 |
| Other cutting instruments | 1,846,207 | 2,973,413 | 3,567,731 | 3,276,941 |
| Clubs | 11,131 | 25,139 | 28,813 | 20,531 |
| Incendiaries | 79,341 | 494,123 | 693,649 | 407,086 |
| Other | 768,254 | 638,414 | 717,754 | 10,358,159 |

NOTES: 2002 data are April through December.

The large increase in 2005 was primarily due to the prohibition of lighters on board beginning in April 2005

SOURCE: U.S. Department of Homeland Security, Transportation Security Administration, Office of Transportation Security Policy, personal communication, August 2007.

**TABLE F-6 International Piracy and Armed Robbery at Sea:
1997–2006**

Number of incidents

| | Total |
|------|-------|
| 1997 | 252 |
| 1998 | 210 |
| 1999 | 309 |
| 2000 | 471 |
| 2001 | 370 |
| 2002 | 383 |
| 2003 | 452 |
| 2004 | 330 |
| 2005 | 266 |
| 2006 | 241 |

NOTES: Incidents include attempts and threatening actions.

SOURCE: International Maritime Organization, *Reports on Acts of Piracy and Armed Robbery Against Ships: Annual Report*, available at <http://www.imo.org/home.asp> as of May 2007.

Figure F-7 Vessel Detentions: 1996–2007
Monthly data, not seasonally adjusted

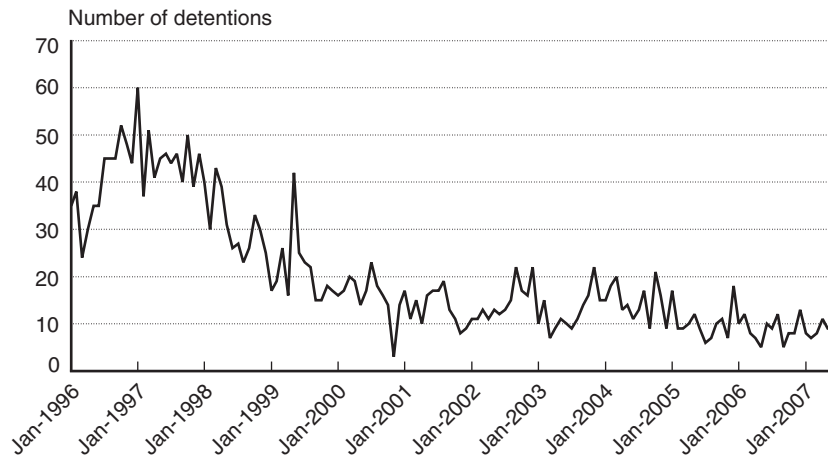


TABLE F-7 Vessel Detentions: January 2006–July 2007
Monthly

| | Vessel detention |
|----------------|------------------|
| January 2006 | 10 |
| February 2006 | 12 |
| March 2006 | 8 |
| April 2006 | 7 |
| May 2006 | 5 |
| June 2006 | 10 |
| July 2006 | 9 |
| August 2006 | 12 |
| September 2006 | 5 |
| October 2006 | 8 |
| November 2006 | 8 |
| December 2006 | 13 |
| January 2007 | 8 |
| February 2007 | 7 |
| March 2007 | 8 |
| April 2007 | 11 |
| May 2007 | 9 |
| June 2007 | 9 |
| July 2007 | 11 |

NOTES: The U.S. Coast Guard identifies vessels not in compliance with International Conventions through examinations and boardings. If a vessel is not compliant, appropriate action is taken to eliminate any threat that vessels may pose to U.S. waters, ports, and citizens.

Examples of threats can include: oil leaks, improper repairs to lifeboats, inability to demonstrate proficiency in a fire drill, or failure to maintain document control.

SOURCE: U.S. Department of Homeland Security, U.S. Coast Guard, available at: <http://homeport.uscg.mil/mycg/portal/ep/home.do> as of October 2007.

Transportation and the Economy

Labor productivity, a measure of efficiency, is output resulting from labor input.

Figure G-1 Labor Productivity of the For-Hire Transportation Industries: 1995–2005

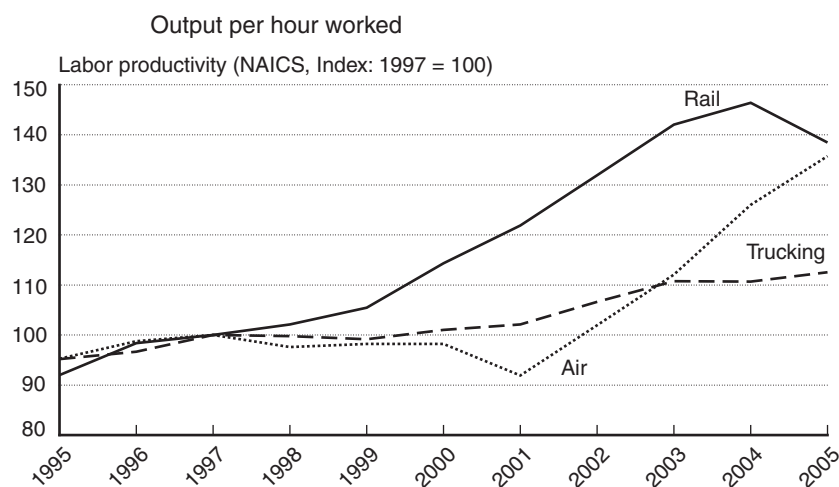


TABLE G-1 Labor Productivity of the For-Hire Transportation Industries: 1995–2005

| | SIC categories Index: 1987 = 100 | | | NAICS categories Index: 1997 = 100 | | |
|------|-------------------------------------|--------------------------|-----------------------|---------------------------------------|-----------------------------|-----|
| | Trucking, except local | Bus carriers, Class I | Petroleum pipeline | Railroad | Trucking, long- distance | Air |
| 1995 | 125 | 110 | 116 | 92 | 95 | 95 |
| 1996 | 131 | 106 | 131 | 98 | 97 | 99 |
| 1997 | 132 | 125 | 134 | 100 | 100 | 100 |
| 1998 | 130 | 105 | 137 | 102 | 100 | 98 |
| 1999 | 132 | 135 | 145 | 106 | 99 | 98 |
| 2000 | 131 | 112 | 141 | 114 | 101 | 98 |
| 2001 | U | U | U | 122 | 102 | 92 |
| 2002 | U | U | U | 132 | 107 | 102 |
| 2003 | U | U | U | 142 | 111 | 112 |
| 2004 | U | U | U | 146 | 111 | 126 |
| 2005 | U | U | U | 138 | 113 | 136 |

KEY: U = Data are unavailable.

NOTES: Output per hour worked is based on the number of paid hours. Labor productivity measures quality-adjusted ton- and passenger-miles per hour. Quality adjustment corrects for differences in services and handling, e.g., the difference between flying first class and coach or differences in the handling requirements and revenue generation of high- and low-value commodities. Railroad includes line-haul railroads primarily engaged in transportation of passengers and cargo over a long distance within a rail network. Trucking comprises establishments engaged in providing long-distance general freight trucking, usually between metropolitan areas that may cross North American country borders. Air includes establishments that provide scheduled and nonscheduled air transportation of passengers and cargo using aircraft, e.g., airplanes and helicopters.

These productivity measures capture railroad, long-distance trucking, and air transportation as defined by the North American Industry Classification System (NAICS), whereas those for trucking except local, bus, and petroleum pipeline are defined by the Standard Industrial Classification (SIC) system. At the time this report was prepared, the Bureau of Labor Statistics did not have plans to continue estimating productivity measures for petroleum pipeline, trucking, and bus carriers because of a lack of reliable data.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Industry Productivity, available at <http://www.bls.gov/lpc/> as of July 2007.

Multifactor productivity measures the changes in output per unit of combined input and is a measure of the efficiency with which inputs are utilized. Inputs include labor, capital services, and intermediate purchases. Examples of nonlabor inputs include rail cars and airplanes, as well as fuel.

TABLE G-2 Multifactor Productivity: 1995–2005

Index: 1995 = 100

| | Railroad transportation | Air transportation | Business sector (all industries) |
|------|-------------------------|--------------------|----------------------------------|
| 1995 | 100.0 | 100.0 | 100.0 |
| 1996 | 106.9 | 103.6 | 101.7 |
| 1997 | 108.7 | 104.9 | 102.7 |
| 1998 | 111.0 | 102.4 | 104.0 |
| 1999 | 114.7 | 103.1 | 105.4 |
| 2000 | 124.2 | 102.9 | 106.8 |
| 2001 | 132.5 | 96.4 | 106.9 |
| 2002 | 143.4 | 107.1 | 108.7 |
| 2003 | 154.4 | 118.2 | 111.6 |
| 2004 | 159.1 | 132.2 | 114.6 |
| 2005 | 150.5 | 142.4 | 116.6 |

NOTES: Source data are indexes with base years of 1997 (air), 2000 (business), and 1997 (rail). The Bureau of Transportation Statistics reindexed these data so that 1995 is the base year for all.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Productivity & Technology, available at <http://www.bls.gov/> as of July 2007.

The Transportation Services Index (TSI) is a monthly measure of the volume of services performed by the for-hire transportation sector. The TSI tells us how the output of transportation services has increased or decreased from month to month.

Figure G-3 Transportation Services Index: 1995–2007
Monthly, seasonally adjusted

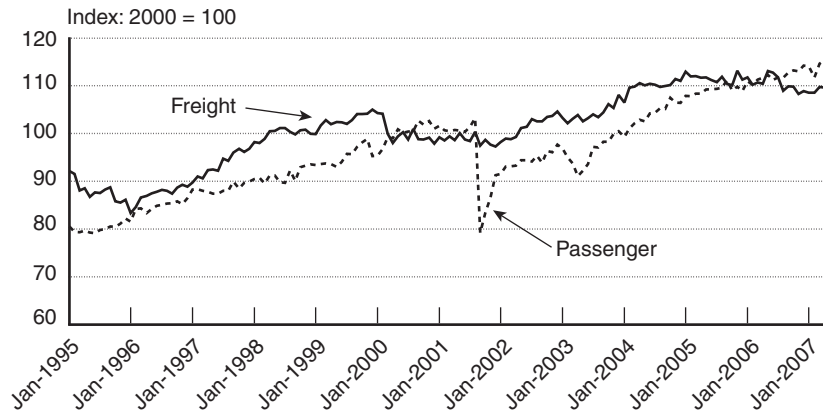


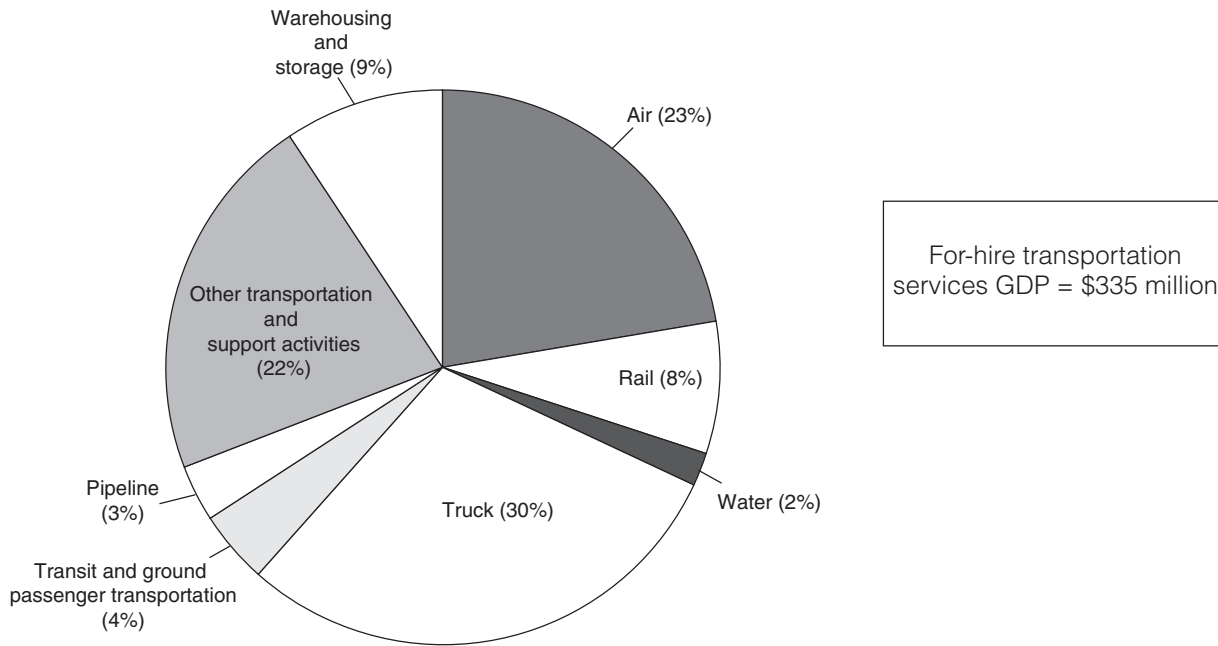
TABLE G-3 Transportation Services Index (TSI):
January 2006–June 2007
Monthly, seasonally adjusted
Index: 2000 = 100

| | TSI freight | TSI passenger |
|--------------|-------------|---------------|
| January-06 | 111.74 | 110.88 |
| February-06 | 110.20 | 110.17 |
| March-06 | 110.68 | 111.27 |
| April-06 | 110.37 | 111.62 |
| May-06 | 113.02 | 112.26 |
| June-06 | 112.72 | 111.16 |
| July-06 | 111.72 | 111.71 |
| August-06 | 108.91 | 111.66 |
| September-06 | 109.86 | 112.70 |
| October-06 | 109.79 | 113.18 |
| November-06 | 108.25 | 112.98 |
| December-06 | 108.85 | 114.20 |
| January-07 | 108.51 | 114.03 |
| February-07 | 108.54 | 111.75 |
| March-07 | 109.75 | 114.60 |
| April-07 | 109.60 | 115.36 |
| May-07 | 109.68 | 115.55 |
| June-07 | 108.89 | 114.69 |
| July-07 | 108.42 | 116.17 |
| August-07 | 109.00 | 117.44 |
| September-07 | 108.09 | 117.15 |
| October-07 | 109.47 | 116.01 |
| November-07 | 110.19 | 115.01 |
| December-07 | 108.80 | 117.10 |

NOTES: September 2007–December 2007 data are preliminary. See source for balance of data.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *Transportation Services Index*, available at <http://www.bts.gov/> as of April 2008.

FIGURE G-4 U.S. Gross Domestic Product Attributed to For-Hire Transportation Services: 2005



NOTE: Numbers may not add to totals due to rounding.

TABLE G-4 U.S. Gross Domestic Product Attributed to For-Hire Transportation Services: 1995–2005
Chained 2000 dollars (billions)

| | U.S. Gross Domestic Product (GDP), total | For-hire transportation services GDP, total | For-hire transportation services GDP, by mode | | | | | Transit and ground passenger transportation | Pipeline | Other transportation and support activities | Warehousing and storage |
|------|--|---|---|------|-------|-------|-------------------------|---|----------|---|-------------------------|
| | | | Air | Rail | Water | Truck | Warehousing and storage | | | | |
| 1995 | 8,032 | 242.7 | 38.1 | 25.3 | 6.0 | 80.8 | 12.0 | 7.4 | 55.8 | 18.0 | |
| 1996 | 8,329 | 255.1 | 45.1 | 25.2 | 6.7 | 83.8 | 12.0 | 7.4 | 56.4 | 18.8 | |
| 1997 | 8,704 | 266.6 | 47.5 | 23.6 | 7.3 | 87.7 | 13.9 | 6.9 | 59.7 | 20.8 | |
| 1998 | 9,067 | 275.8 | 48.7 | 24.4 | 7.0 | 91.0 | 14.3 | 6.9 | 62.6 | 22.0 | |
| 1999 | 9,470 | 287.4 | 52.9 | 24.8 | 6.4 | 91.9 | 14.7 | 7.7 | 66.2 | 23.4 | |
| 2000 | 9,817 | 301.6 | 57.7 | 25.5 | 7.2 | 92.8 | 14.5 | 8.7 | 70.2 | 25.0 | |
| 2001 | 9,891 | 293.6 | 57.0 | 24.8 | 6.8 | 87.9 | 14.5 | 8.3 | 69.4 | 24.4 | |
| 2002 | 10,049 | 300.2 | 62.8 | 24.4 | 5.6 | 87.5 | 14.6 | 9.6 | 70.6 | 25.6 | |
| 2003 | 10,301 | 306.2 | 67.2 | 25.7 | 5.4 | 88.9 | 14.3 | 9.3 | 70.3 | 26.9 | |
| 2004 | 10,704 | 322.3 | 71.1 | 26.9 | 5.9 | 95.8 | 14.3 | 9.3 | 72.1 | 28.7 | |
| 2005 | 11,049 | 335.2 | 75.6 | 26.0 | 6.6 | 100.1 | 14.4 | 11.1 | 73.0 | 31.5 | |

NOTES: For-hire transportation numbers may not equal total due to the nature of the chained dollar calculations. Numbers may not add to totals due to rounding.

SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis, Industry Economic Accounts, available at <http://www.bea.gov/> as of May 2007.

TABLE G-5 U.S. Gross Domestic Product Attributed to Transportation-Related Final Demand: 1995–2005
 Chained 2000 dollars (billions)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|
| U.S. Gross Domestic Product (GDP), total | 8,031.7 | 8,328.9 | 8,703.5 | 9,066.9 | 9,470.3 | 9,817.0 | 9,890.7 | 10,048.8 | 10,301.0 | 10,703.5 | 11,048.6 |
| Domestic transportation-related final demand, total | U | U | 991.1 | 1,048.3 | 1,095.9 | 1,089.5 | 1,098.7 | 1,100.7 | 1,098.8 | 1,118.2 | 1,139.0 |
| Total transportation in GDP (percent) | U | U | 11.4 | 11.6 | 11.6 | 11.1 | 11.1 | 11.0 | 10.7 | 10.4 | 10.3 |
| Personal consumption of transportation, total | 658.6 | 690.8 | 730.7 | 781.3 | 832.1 | 853.5 | 872.1 | 891.1 | 905.9 | 920.4 | 923.2 |
| Motor vehicles and parts | 272.3 | 285.4 | 304.7 | 339 | 372.4 | 386.5 | 405.8 | 429 | 442.1 | 450.4 | 452.9 |
| Gasoline and oil | 154.5 | 157.9 | 162.8 | 170.3 | 176.3 | 175.7 | 178.3 | 181.9 | 183.2 | 186 | 185.9 |
| Transportation services | 231.8 | 247.5 | 263.2 | 272 | 283.4 | 291.3 | 288 | 280.2 | 280.6 | 284 | 284.4 |
| Gross private domestic investment, total | U | U | 142.5 | 152.9 | 174.2 | 167.4 | 149.4 | 132.1 | 119.4 | 134.6 | 151.3 |
| Transportation structures | U | U | 6.6 | 7.5 | 6.5 | 6.6 | 6.6 | 6.1 | 5.6 | 5.8 | 5.9 |
| Transportation equipment | 120.6 | 125.4 | 135.9 | 145.4 | 167.7 | 160.8 | 142.8 | 126 | 113.8 | 128.8 | 145.4 |
| Exports (+), total | 142.1 | 149.4 | 170.7 | 181.2 | 181 | 179 | 171.6 | 170.7 | 164.6 | 178.9 | 194.1 |
| Imports (-), total | 189.0 | 195.5 | 214.0 | 232.5 | 264.5 | 288.0 | 280.1 | 285.2 | 290.7 | 311.5 | 324 |
| Government transportation-related purchases, total | 156.5 | 157.6 | 161.2 | 165.4 | 173.1 | 177.6 | 185.7 | 192.0 | 199.6 | 195.8 | 194.4 |
| Federal purchases | 18 | 18.5 | 18.8 | 19.6 | 19.4 | 19.2 | 20.6 | 25 | 27.1 | 25.4 | 25.5 |
| State and local purchases | 128.8 | 129.4 | 133.7 | 137 | 144.3 | 149.4 | 155.8 | 157.3 | 158.5 | 156.3 | 154.2 |
| Defense-related purchases | 9.7 | 9.7 | 8.7 | 8.8 | 9.4 | 9.0 | 9.3 | 9.7 | 14.0 | 14.1 | 14.7 |

KEY: U = Data are unavailable.

NOTES: Data may not equal total due to the nature of the chained dollar calculations. Data may not add to totals due to independent rounding.

Total domestic transportation-related final demand is the sum of total personal consumption of transportation, total gross private domestic investment, net exports of transportation-related goods and services, and total government-related purchases. *Federal purchases* and *state and local purchases* are the sum of consumption expenditures and gross investments. *Defense-related purchases* are the sum of the transportation of material and travel.

SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis, National Income Product Accounts Tables, tables 1.1.6, 2.3.6, 3.11.6, 3.15.6, 4.2.6, 5.4.6B, and 5.5.6, available at <http://www.bea.gov> as of July 2007.

TABLE G-6 Employment in For-Hire Transportation and Selected Transportation-Related Industries: 1995–2006

Thousands (NAICS basis)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| U.S. labor force, total | 117,298 | 119,708 | 122,776 | 125,930 | 128,993 | 131,785 | 131,826 | 130,341 | 129,999 | 131,435 | 133,703 | 136,174 |
| Transportation related labor force, total | 12,448 | 12,191 | 12,997 | 13,267 | 13,545 | 13,678 | 13,514 | 13,192 | 12,933 | 12,970 | 13,108 | 13,198 |
| Transportation and warehousing (48-49) | 3,838 | 3,935 | 4,027 | 4,168 | 4,300 | 4,410 | 4,372 | 4,224 | 4,185 | 4,249 | 4,346 | 4,466 |
| Air transportation (481) | 511 | 526 | 542 | 563 | 586 | 614 | 615 | 564 | 528 | 515 | 501 | 487 |
| Rail transportation (482) | 233 | 225 | 221 | 225 | 229 | 232 | 227 | 218 | 218 | 226 | 228 | 225 |
| Water transportation (483) | 51 | 51 | 51 | 51 | 52 | 56 | 54 | 53 | 55 | 56 | 61 | 64 |
| Truck transportation (484) | 1,249 | 1,282 | 1,308 | 1,354 | 1,392 | 1,406 | 1,387 | 1,339 | 1,326 | 1,352 | 1,398 | 1,437 |
| Transit and ground passenger transportation (485) | 328 | 339 | 350 | 363 | 371 | 372 | 375 | 381 | 382 | 385 | 389 | 394 |
| Pipeline transportation (486) | 54 | 51 | 50 | 48 | 47 | 46 | 45 | 42 | 40 | 38 | 38 | 39 |
| Scenic and sightseeing transportation (487) | 22 | 23 | 25 | 25 | 26 | 28 | 29 | 26 | 27 | 27 | 29 | 27 |
| Support activities for transportation (488) | 430 | 446 | 473 | 497 | 518 | 537 | 539 | 525 | 520 | 535 | 552 | 571 |
| Postal service (491) | 850 | 867 | 866 | 881 | 890 | 880 | 873 | 842 | 809 | 782 | 774 | 770 |
| Couriers and messengers (492) | 517 | 540 | 546 | 568 | 586 | 605 | 587 | 561 | 562 | 557 | 571 | 585 |
| Warehousing and storage (493) | 444 | 452 | 462 | 474 | 494 | 514 | 514 | 517 | 528 | 558 | 595 | 636 |
| Transportation related manufacturing | | | | | | | | | | | | |
| Petroleum and coal products manufacturing (324) | 140 | 137 | 136 | 135 | 128 | 123 | 121 | 118 | 114 | 112 | 112 | 114 |
| Tire manufacturing (32621) | 87 | 86 | 84 | 87 | 87 | 87 | 82 | 76 | 72 | 70 | 67 | 61 |
| Rubber and plastic hoses and belting manufacturing (32622) | 27 | 27 | 28 | 29 | 30 | 30 | 29 | 28 | 28 | 28 | 29 | 29 |
| Search, detection, navigation, guidance, aero-nautical, and nautical system and instrument manufacturing (334511) | 158 | 158 | 159 | 163 | 161 | 149 | 150 | 148 | 145 | 151 | 157 | 158 |
| Transportation equipment manufacturing (336) | 1,977 | 1,974 | 2,026 | 2,077 | 2,087 | 2,056 | 1,938 | 1,829 | 1,774 | 1,766 | 1,771 | 1,765 |
| Other transportation related industries | | | | | | | | | | | | |
| Highway, street, and bridge construction (2373) | 278 | 288 | 294 | 308 | 336 | 340 | 346 | 346 | 340 | 347 | 351 | 349 |
| Motor vehicle and motor vehicle parts and supplies merchant wholesalers (4231) | 335 | 343 | 350 | 354 | 360 | 356 | 347 | 346 | 342 | 341 | 344 | 349 |
| Transportation equipment and supplies merchant wholesalers (42386) | 32 | 33 | 35 | 37 | 40 | 39 | 36 | 34 | 32 | 32 | 33 | 34 |

(continued on next page)

TABLE G-6 Employment in For-Hire Transportation and Selected Transportation-Related Industries: 1995–2006 (continued)

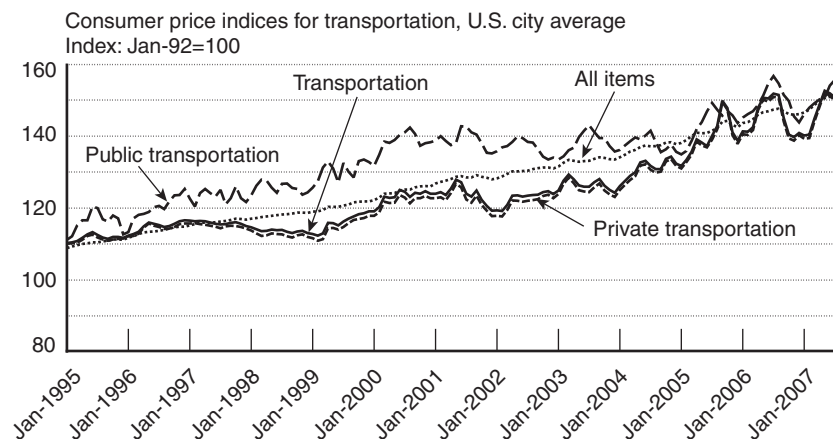
| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|--|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Petroleum and petroleum products merchant wholesalers (4247) | 126 | 124 | 123 | 122 | 123 | 119 | 114 | 111 | 106 | 101 | 100 | 101 |
| Motor vehicle parts dealers (441) | 1,627 | 1,686 | 1,723 | 1,741 | 1,797 | 1,847 | 1,855 | 1,879 | 1,883 | 1,902 | 1,919 | 1,908 |
| Gasoline stations (447) | 922 | 946 | 956 | 961 | 944 | 936 | 925 | 896 | 882 | 876 | 871 | 861 |
| Automotive equipment rental and leasing (5321) | 171 | 180 | 184 | 189 | 199 | 208 | 208 | 195 | 193 | 197 | 199 | 200 |
| Travel arrangement and reservation services (5615) | 281 | 294 | 302 | 304 | 297 | 299 | 285 | 252 | 235 | 226 | 224 | 227 |
| Other ambulatory health care services (6219) | 143 | 154 | 164 | 171 | 173 | 173 | 180 | 187 | 195 | 200 | 206 | 216 |
| Automotive repair and maintenance (8111) | 738 | 781 | 811 | 828 | 864 | 888 | 904 | 900 | 894 | 891 | 886 | 887 |
| Parking lots and garages (81293) | 75 | 78 | 82 | 85 | 89 | 93 | 96 | 96 | 100 | 102 | 103 | 105 |
| Government employment, total | 644 | 99 | 647 | 629 | 642 | 646 | 654 | 686 | 605 | 600 | 602 | 599 |
| U.S. Department of Transportation (U.S. DOT) | 101 | 99 | 98 | 99 | 100 | 100 | 102 | 141 | 59 | 57 | 56 | 54 |
| State and Local Highway | 543 | N | 548 | 530 | 543 | 546 | 552 | 545 | 546 | 543 | 546 | 545 |

NOTES: Total U.S. labor force excludes farm employment. Transportation and warehousing total does not include postal service. Tire manufacturing includes tire retreading. Transportation equipment and supplies merchant wholesalers does not include motor vehicle wholesalers. Government employment does not include all government agencies (e.g., the National Transportation Safety Board). The U.S. Department of Transportation was created in 1966. Data are for fiscal year and include permanent civilians as well as temporary employees and military. The United States Coast Guard (USCG) and the Transportation Security Administration (TSA) were transferred to the Department of Homeland Security in 2003. State and Local Highway is full-time equivalent employment. Due to a change in the reference period, from October to March, the October 1996 Annual Survey of Government Employment and Payroll was not conducted.

SOURCES: 1995–2006: U.S. Department of Labor, Bureau of Labor Statistics, Current Employment Statistics, available at <http://www.bls.gov> as of July 2007. U.S. DOT Employment: U.S. DOT, Office of the Secretary of Transportation, DOT Workforce Demographics, Demographics by Year, available at: <http://dothr.ost.dot.gov/> as of July 2007. State and Local Highway Employment: U.S. Department of Commerce, Bureau of the Census, "Federal, State, and Local Governments Public Employment and Payroll Data." Available at <http://www.census.gov> as of July 2007.

FIGURE G-7 Index of Prices Paid by American Households for Transportation Services: 1995–2007

Monthly data, seasonally adjusted

**TABLE G-7 Index of Prices Paid by American Households for Transportation Services:**

January 2006–July 2007

Monthly data, seasonally adjusted

| Index: Jan 92 = 100 | All Items | Transportation | Private transportation | Public transportation |
|---------------------|-----------|----------------|------------------------|-----------------------|
| January 2006 | 143.6 | 141.3 | 140.5 | 145.1 |
| February 2006 | 143.9 | 141.2 | 140.3 | 146.1 |
| March 2006 | 144.7 | 142.5 | 141.6 | 146.9 |
| April 2006 | 145.9 | 147.9 | 147.3 | 148.7 |
| May 2006 | 146.6 | 150.7 | 150.1 | 151.3 |
| June 2006 | 146.9 | 150.4 | 149.6 | 154.7 |
| July 2006 | 147.4 | 151.8 | 150.9 | 156.7 |
| August 2006 | 147.6 | 151.4 | 150.6 | 154.7 |
| September 2006 | 146.9 | 145.1 | 144.1 | 151.5 |
| October 2006 | 146.1 | 140.4 | 139.3 | 149.8 |
| November 2006 | 145.9 | 139.7 | 138.8 | 145.5 |
| December 2006 | 146.1 | 140.9 | 140.2 | 143.8 |
| January 2007 | 146.6 | 140.1 | 139.2 | 146.1 |
| February 2007 | 147.4 | 140.4 | 139.4 | 147.9 |
| March 2007 | 148.7 | 144.9 | 144.1 | 149.1 |
| April 2007 | 149.7 | 148.8 | 148.1 | 150.2 |
| May 2007 | 150.6 | 152.6 | 152.1 | 150.7 |
| June 2007 | 150.9 | 151.9 | 151.2 | 154.1 |
| July 2007 | 150.8 | 150.8 | 149.9 | 155.6 |

NOTES: The consumer price index for a specific item is a weighted average of the prices for the individual components of the item. The weights are determined by the expenditure shares of the individual components based on a survey of consumer expenditure during the base year(s). The base year price is then normalized to 100.

Private transportation is a weighted average of the prices for new and used motor vehicles, motor fuels, motor vehicle parts and equipments, motor vehicle maintenance and repair, motor vehicle insurance, and motor vehicle fees (state and local registration and license fees, parking and other fees).

Public transportation is a weighted average of the prices for airline fares, intercity bus fares, intercity train fares, ship fares, intracity transportation (intracity mass transit, taxi fares, and car and van pools), and other public transportation.

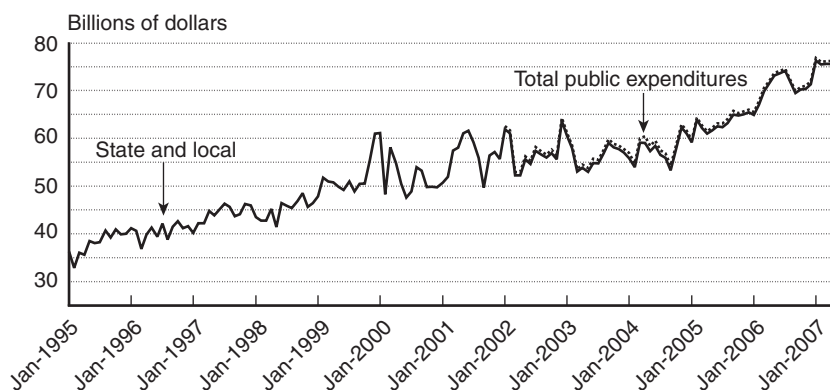
The base period of the original index is 1982–84. January 1992 is set to be the new reference point (=100) by dividing the values of the original index by the value of January 1992 in the original index. It is important to point out that this process changes only the reference point, and not the base period of the index because the weight structure of the index did not change.

The Consumer Price Index (CPI) tracks the price of a market basket of goods and services purchased by U.S. households over time. Both monthly and annual changes are reported in the tables for the CPI in order to facilitate comparison with other series.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics; available at: <http://www.bls.gov/cpi/> as of September 2007.

FIGURE G-8 Public Expenditures on Construction of Highways and Streets: 1995–2007

Monthly data, seasonally adjusted


TABLE G-8 Public Expenditures on Construction of Highways and Streets: January 2006–May 2007

Monthly data, seasonally adjusted (millions of dollars)

| | Total public expenditures | Direct Federal | State and local |
|----------------|---------------------------|----------------|-----------------|
| January 2006 | 65,515 | 622 | 64,893 |
| February 2006 | 67,766 | 732 | 67,034 |
| March 2006 | 70,572 | 727 | 69,845 |
| April 2006 | 71,957 | 462 | 71,495 |
| May 2006 | 73,708 | 554 | 73,154 |
| June 2006 | 74,143 | 534 | 73,609 |
| July 2006 | 74,516 | 426 | 74,090 |
| August 2006 | 72,242 | 464 | 71,778 |
| September 2006 | 69,895 | 394 | 69,501 |
| October 2006 | 70,723 | 530 | 70,193 |
| November 2006 | 71,025 | 668 | 70,357 |
| December 2006 | 71,917 | 618 | 71,299 |
| January 2007 | 76,832 | 560 | 76,272 |
| February 2007 | 76,038 | 554 | 75,484 |
| March 2007 | 76,123 | 541 | 75,582 |
| April 2007 | 76,185 | 676 | 75,509 |
| May 2007 | 74,722 | 693 | 74,029 |

NOTES: Data from 1995 to 2001 include state and local expenditures only. Data from the estimation of federal expenditures were not published until January 2002.

Construction includes new buildings, renovations, mechanical and electrical installations, site preparation, and other materials and structures incidental to construction. Maintenance is not included.

Highways and streets are the largest component of public transportation infrastructure spending. Pavement is by far the largest part of that spending, accounting for about 70 percent of state and local roadway expenditures.

There are additional highway and street components that are published on an annual basis: retaining walls, tunnels, toll/weight stations, and maintenance facilities.

SOURCE: U.S. Department of Commerce, Bureau of the Census; available at: <http://www.census.gov/const/www/c30index.html> as of September 2007.

FIGURE G-9 Public Expenditures on Non-roadway Transportation Construction: 1995–2007

Monthly data, seasonally adjusted

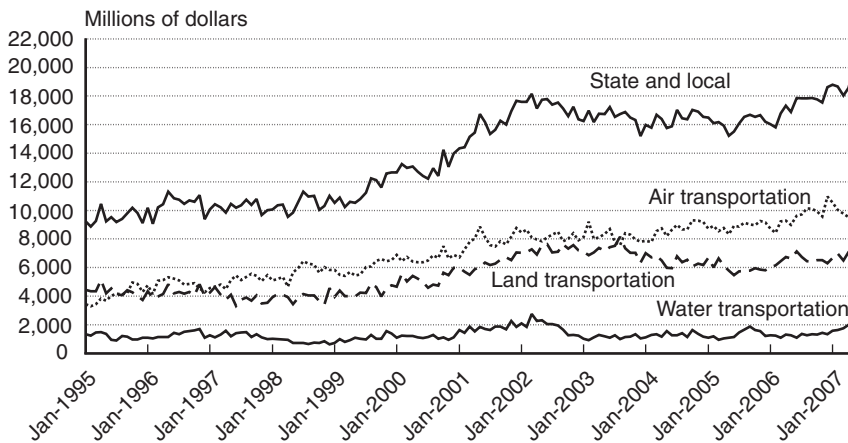


TABLE G-9 Public Expenditures on Non-roadway Transportation Construction: January 2006–May 2007

Monthly data, seasonally adjusted (millions of dollars)

| | State and local only | Air transportation | Land transportation | Water transportation |
|----------------|----------------------|--------------------|---------------------|----------------------|
| January 2006 | 16,019 | 8,725 | 6,040 | 1,255 |
| February 2006 | 15,817 | 8,432 | 6,148 | 1,236 |
| March 2006 | 16,779 | 9,240 | 6,449 | 1,090 |
| April 2006 | 17,325 | 9,273 | 6,734 | 1,319 |
| May 2006 | 16,884 | 8,985 | 6,638 | 1,261 |
| June 2006 | 17,861 | 9,617 | 7,137 | 1,106 |
| July 2006 | 17,837 | 9,727 | 6,750 | 1,361 |
| August 2006 | 17,837 | 10,134 | 6,435 | 1,268 |
| September 2006 | 17,871 | 10,105 | 6,426 | 1,340 |
| October 2006 | 17,756 | 9,919 | 6,529 | 1,309 |
| November 2006 | 17,536 | 9,577 | 6,510 | 1,448 |
| December 2006 | 18,622 | 10,978 | 6,306 | 1,338 |
| January 2007 | 18,783 | 10,553 | 6,656 | 1,573 |
| February 2007 | 18,667 | 10,048 | 6,992 | 1,626 |
| March 2007 | 18,040 | 9,781 | 6,493 | 1,766 |
| April 2007 | 18,583 | 9,518 | 7,071 | 1,994 |
| May 2007 | 19,953 | 10,700 | 7,185 | 2,068 |

NOTES: Public expenditures on transportation construction is a measurement of growth of system capacity. Construction includes new buildings, infrastructure, renovations, site preparation, and other materials and structures involved in construction. Maintenance of existing facilities and structures is not included.

Construction expenditures on completely new routes and terminals are direct additions to system capacity. Construction expenditures (like renovations, expansions, conversions, etc.) on existing transportation infrastructure may result in improved maintenance and management capabilities, improved safety, and other attributes that increase capacity.

SOURCE: U.S. Department of Commerce, Bureau of the Census; available at: <http://www.census.gov/const/www/c30index.html> as of September 2007.

FIGURE G-10 Public Expenditures on Air Transportation Construction: 1995–2007

Monthly data, seasonally adjusted

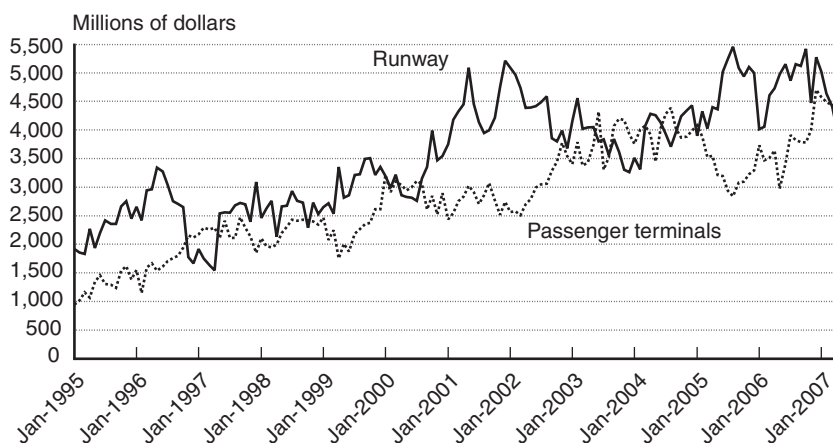


TABLE G-10 Public Expenditures on Air Transportation Construction
Monthly data, seasonally adjusted (millions of dollars)

| | Runway | Passenger terminal |
|----------------|--------|--------------------|
| January 2006 | 4,014 | 3,733 |
| February 2006 | 4,056 | 3,467 |
| March 2006 | 4,607 | 3,514 |
| April 2006 | 4,727 | 3,643 |
| May 2006 | 4,970 | 2,974 |
| June 2006 | 5,150 | 3,407 |
| July 2006 | 4,861 | 3,907 |
| August 2006 | 5,149 | 3,821 |
| September 2006 | 5,122 | 3,788 |
| October 2006 | 5,421 | 3,784 |
| November 2006 | 4,473 | 3,993 |
| December 2006 | 5,274 | 4,703 |
| January 2007 | 5,021 | 4,576 |
| February 2007 | 4,639 | 4,488 |
| March 2007 | 4,410 | 4,428 |
| April 2007 | 3,972 | 4,458 |
| May 2007 | 5,120 | 4,330 |

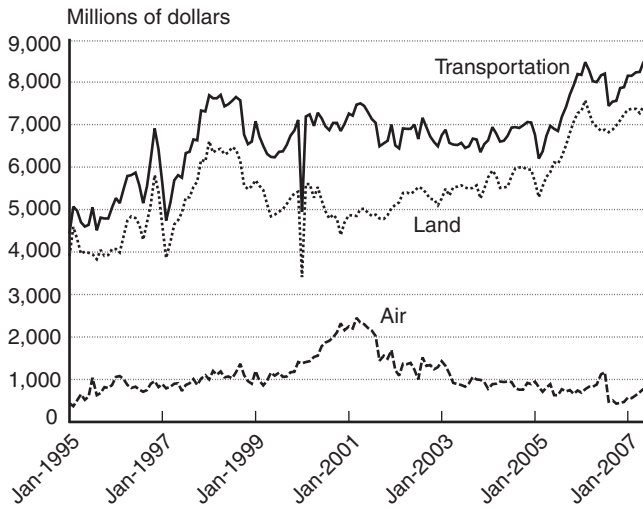
NOTES: Runways include pavement and lighting. Other categories that are included for the air transportation total but do not have monthly state and local estimates are air freight terminals, air traffic towers, hangars, and other related facilities and structures.

SOURCE: U.S. Department of Commerce, Bureau of the Census; available at <http://www.census.gov/const/www/c30index.html> as of September 2007.

FIGURE G-11 Private Expenditures on Transportation-Related Construction: 1995–2007

Private Expenditures on Transportation Infrastructure Construction

Monthly data, seasonally adjusted annual rate



Private Expenditures on Transportation-Related Construction

Monthly data, seasonally adjusted annual rate

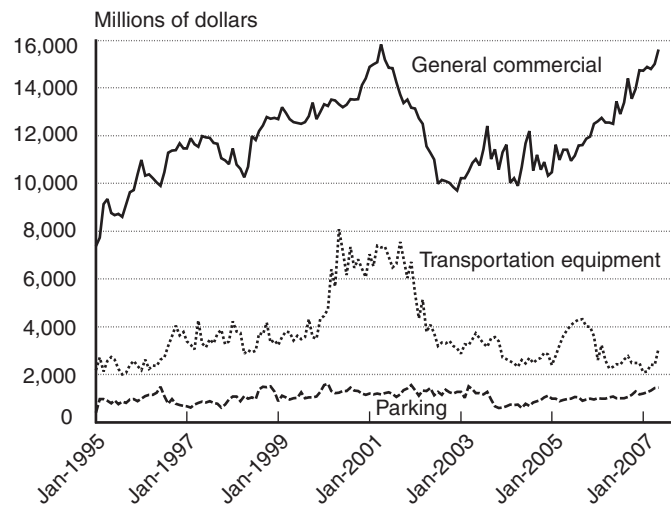


TABLE G-11 Private Expenditures on Transportation-Related Construction: January 2006–May 2007

Monthly data, seasonally adjusted annual rate (millions of dollars)

| | Private expenditures on transportation infrastructure construction | | | Private expenditures on transportation-related construction | | |
|----------------|--|-------|-------|---|---------|--------------------|
| | Transportation | Air | Land | Transportation equipment | Parking | General commercial |
| January 2006 | 8,167 | 688 | 7,314 | 2,600 | 1,003 | 12,604 |
| February 2006 | 8,471 | 770 | 7,568 | 3,233 | 988 | 12,740 |
| March 2006 | 8,278 | 829 | 7,287 | 2,586 | 985 | 12,547 |
| April 2006 | 8,014 | 829 | 7,032 | 2,249 | 1,040 | 12,540 |
| May 2006 | 8,000 | 878 | 6,944 | 2,328 | 1,074 | 12,491 |
| June 2006 | 8,162 | 1,117 | 6,844 | 2,432 | 1,008 | 13,431 |
| July 2006 | 8,196 | 1,167 | 6,878 | 2,416 | 1,015 | 12,907 |
| August 2006 | 7,442 | 481 | 6,815 | 2,627 | 1,011 | 13,379 |
| September 2006 | 7,536 | 509 | 6,876 | 2,761 | 1,064 | 14,394 |
| October 2006 | 7,560 | 426 | 6,978 | 2,492 | 1,155 | 13,541 |
| November 2006 | 7,855 | 449 | 7,097 | 2,486 | 1,302 | 13,949 |
| December 2006 | 7,874 | 467 | 7,237 | 2,478 | 1,172 | 14,731 |
| January 2007 | 8,152 | 571 | 7,345 | 2,096 | 1,211 | 14,711 |
| February 2007 | 8,150 | 556 | 7,371 | 2,130 | 1,264 | 14,873 |
| March 2007 | 8,226 | 625 | 7,363 | 2,405 | 1,327 | 14,786 |
| April 2007 | 8,234 | 695 | 7,269 | 2,400 | 1,432 | 15,002 |
| May 2007 | 8,481 | 780 | 7,435 | 3,088 | 1,456 | 15,609 |

NOTES: Total private transportation also includes water transportation, although no monthly estimate is published for water. Air and land transportation are defined the same as for state and local public expenditures.

General commercial warehousing includes commercial warehouses, storage warehouses, and distribution buildings. Transportation equipment manufacturing includes construction related to transportation equipment-producing industries. Parking includes commercial parking lots and garages.

SOURCE: U.S. Department of Commerce, Bureau of the Census; available at <http://www.census.gov/pub/const/C30/newtc.html> as of September 2007.

TABLE G-12 Passenger and Freight Expenditures: 1995–2004
Millions (in current dollars)

| | Total passenger and freight transportation expenditures | Passenger transportation expenditures, total | Highway | Intercity bus | Air | Rail | Water |
|------|---|--|---------|---------------|---------|-------|-------|
| 1995 | 945,316 | 693,889 | 602,089 | 1,800 | 83,681 | 4,132 | 3,988 |
| 1996 | 1,010,079 | 747,346 | 650,609 | 1,900 | 87,929 | 4,576 | 4,231 |
| 1997 | 1,071,632 | 798,216 | 693,762 | 2,200 | 95,312 | 4,701 | 4,440 |
| 1998 | 1,098,126 | 837,566 | 724,725 | 2,200 | 102,819 | 4,786 | 5,237 |
| 1999 | 1,188,252 | 914,032 | 792,738 | 2,200 | 110,110 | 4,954 | 6,230 |
| 2000 | 1,287,038 | 995,747 | 861,747 | 2,400 | 120,987 | 5,316 | 7,697 |
| 2001 | 1,296,037 | 1,010,043 | 887,422 | 2,400 | 108,791 | 5,560 | 8,270 |
| 2002 | 1,300,203 | 1,013,152 | 898,294 | 2,400 | 100,573 | 5,634 | 8,652 |
| 2003 | 1,362,963 | 1,064,204 | 944,894 | 2,300 | 104,422 | 5,833 | 9,055 |
| 2004 | 1,448,699 | 1,117,709 | 997,717 | 2,100 | 104,354 | 6,199 | 9,438 |

| | Freight transportation expenditures, total | Highway | Air | Rail | Water | Oil pipeline | Other |
|------|--|---------|--------|--------|--------|--------------|--------|
| 1995 | 251,427 | 140,774 | 10,901 | 34,342 | 25,162 | 27,346 | 12,902 |
| 1996 | 262,733 | 149,784 | 11,843 | 34,903 | 23,980 | 28,774 | 13,449 |
| 1997 | 273,416 | 159,798 | 12,984 | 35,349 | 23,761 | 27,093 | 14,431 |
| 1998 | 260,560 | 148,222 | 13,259 | 35,295 | 24,767 | 23,750 | 15,267 |
| 1999 | 274,220 | 155,982 | 14,374 | 35,893 | 26,667 | 25,329 | 15,975 |
| 2000 | 291,291 | 165,539 | 15,838 | 36,282 | 30,925 | 26,057 | 16,651 |
| 2001 | 285,994 | 162,985 | 15,107 | 36,579 | 29,574 | 25,678 | 16,072 |
| 2002 | 287,051 | 164,332 | 15,749 | 36,921 | 28,643 | 25,318 | 16,088 |
| 2003 | 298,759 | 168,596 | 16,325 | 38,268 | 34,191 | 25,194 | 16,184 |
| 2004 | 330,990 | 186,045 | 17,707 | 42,160 | 40,612 | 27,622 | 16,844 |

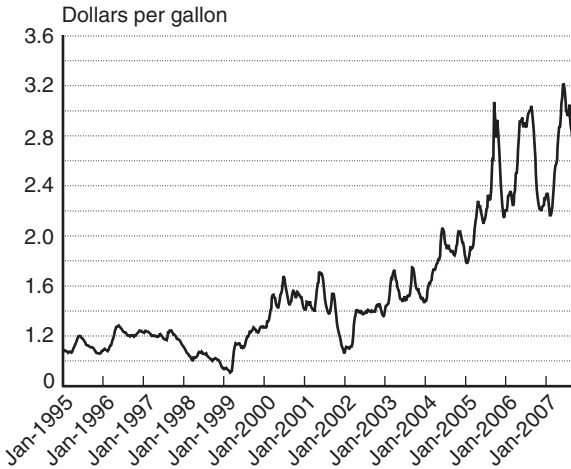
NOTES: The numbers in this table are not comparable with the previous issue because the Upper Great Plains Transportation Institute changed its methodology. Air passenger includes aircraft and operating costs, plus domestic and international air passenger federal excise taxes. Rail passenger include federal operating subsidies and capital grants for Amtrak and the Northeast Corridor. Water passenger includes international. Air freight includes domestic and international. Other includes shipping, receiving, and traffic clerks.

SOURCE: Eno Transportation Foundation Inc., *Transportation in America*, 20th ed. (Washington, DC: 2006), pp. 32-34.

FIGURE G-13 Fuel Prices

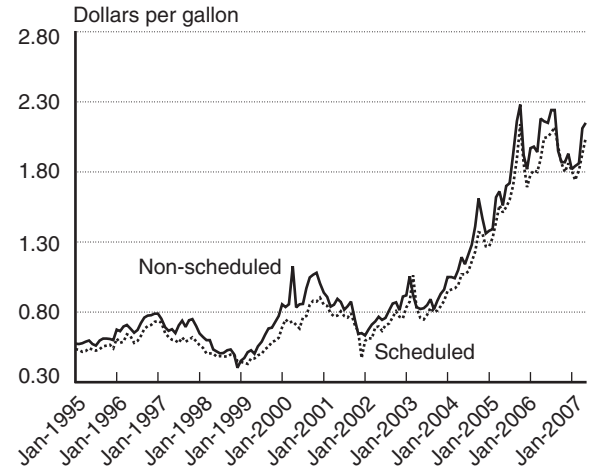
Retail Gasoline Prices

Weekly data, not seasonally adjusted



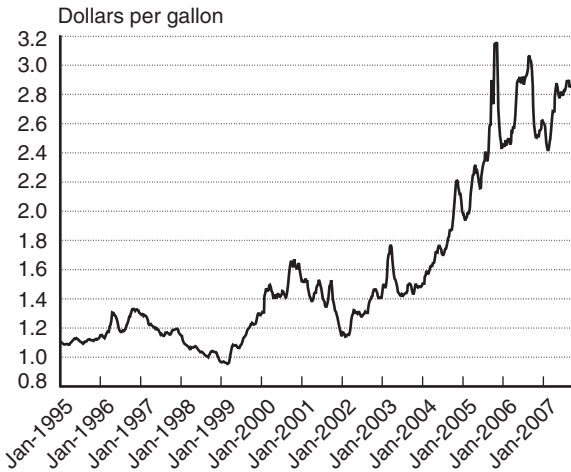
Jet Fuel Prices

Monthly data, not seasonally adjusted



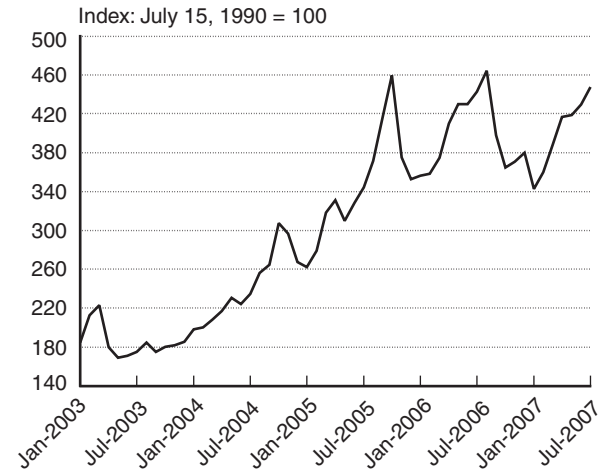
Retail On-Highway Diesel Prices

Weekly data, not seasonally adjusted



Railroad Fuel Prices

Monthly data, not seasonally adjusted



NOTES: Motor fuel prices are an important cost component of highway transportation. Changes in motor fuel prices impact the behavior of both producers and consumers, and affect the demand for transportation in terms of level and modal mix. In the United States, motor gasoline prices follow world crude oil prices more closely than motor diesel prices. Changes in motor fuel prices affect the profit margin of transportation firms, particularly trucking firms.

Jet fuel prices reported to the Bureau of Transportation Statistics differ from producer prices. Reports to BTS show the cost per gallon of fuel used by an airline during the month rather than the price charged by a producer on a single day. Fuel costs for scheduled airline services reflect contractual and storage advantages available to large buyers, while fuel costs for nonscheduled airline services reflect economic conditions for smaller buyers. Jet fuel prices also reflect seasonality due to both the seasonality of aviation and because jet fuel has similar refining requirements to heating oil.

The railroad fuel price, which include federal excise taxes, transportation, and handling expenses, represent the average monthly price for fuels purchased by freight railroads during each month.

SOURCES: Retail gasoline and on-highway diesel prices—U.S. Department of Energy, Energy Information Administration, available at <http://eia.doe.gov/> as of Aug. 21, 2007. **Jet Fuel prices**—U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Office of Airline Information, August, 2007; available at: <http://www.bts.gov/oai>. **Railroad Fuel prices**—Association of American Railroads, Monthly Railroad Fuel Price Indexes, available at <http://www.aar.org/> as of August 2007.

TABLE G-14 Sales Price of Transportation Fuel to End-Users: 1995–2006
Dollar/gallon (in current dollars)

| | Aviation fuel (excluding taxes) | | Highway fuel (including taxes) | | | | Railroad fuel |
|------|------------------------------------|----------------------|--------------------------------|----------------------|------------------------|--------------------------------------|---------------|
| | Aviation gasoline | Jet fuel kerosene | Gasoline, premium | Gasoline, regular | Gasoline, all types | Diesel no. 2 (excluding taxes) | Diesel |
| 1995 | 1.01 | 0.54 | 1.34 | 1.15 | 1.21 | 0.56 | 0.60 |
| 1996 | 1.12 | 0.65 | 1.41 | 1.23 | 1.29 | 0.68 | 0.68 |
| 1997 | 1.13 | 0.61 | 1.42 | 1.23 | 1.29 | 0.64 | 0.68 |
| 1998 | 0.98 | 0.45 | 1.25 | 1.06 | 1.12 | 0.49 | 0.57 |
| 1999 | 1.06 | 0.54 | 1.36 | 1.17 | 1.22 | 0.58 | 0.55 |
| 2000 | 1.31 | 0.90 | 1.69 | 1.51 | 1.56 | 0.94 | 0.87 |
| 2001 | 1.32 | 0.78 | 1.66 | 1.46 | 1.53 | 0.84 | 0.86 |
| 2002 | 1.29 | 0.72 | 1.56 | 1.36 | 1.44 | 0.76 | 0.73 |
| 2003 | 1.49 | 0.87 | 1.78 | 1.59 | 1.64 | 0.94 | 0.89 |
| 2004 | 1.82 | 1.21 | 2.07 | 1.88 | 1.92 | 1.24 | 1.07 |
| 2005 | 2.23 | 1.74 | 2.49 | 2.30 | 2.34 | 1.79 | 1.51 |
| 2006 | 2.68 | 2.00 | 2.81 | 2.59 | 2.64 | 2.08 | 1.92 |
| 2007 | 2.85 | 2.17 | 3.03 | 2.80 | 2.85 | 2.27 | U |

KEY: U = Data are unavailable.

NOTES: All costs are yearly average. *Aviation gasoline, jet fuel kerosene, and diesel no. 2* include sales to end-users (those sales made directly to the ultimate consumer, including bulk customers in agriculture, industry, and utility). *Gasoline, premium, and regular* are average retail price.

SOURCE: All data except railroad fuel—U.S. Department of Energy, Energy Information Administration, *Monthly Energy Review* (Washington, DC: July 2007), tables 9.4 and 9.7. **Railroad fuel**—Association of American Railroads, *Railroad Facts* (Washington, DC: annual issues), fuel consumption and cost.

TABLE G-15 Average Household Transportation Expenditures: 1995–2005
Current dollars

| | Vehicle purchases | Gasoline and motor oil | Other vehicle expenses | Other transportation | Total |
|------|-------------------|------------------------|------------------------|----------------------|-------|
| 1995 | 2,693 | 1,293 | 1,979 | 396 | 6,361 |
| 1996 | 2,820 | 1,310 | 2,025 | 467 | 6,621 |
| 1997 | 2,732 | 1,330 | 2,206 | 421 | 6,689 |
| 1998 | 2,989 | 1,415 | 2,202 | 450 | 7,056 |
| 1999 | 3,320 | 1,349 | 2,262 | 407 | 7,337 |
| 2000 | 3,418 | 1,291 | 2,281 | 427 | 7,417 |
| 2001 | 3,561 | 1,328 | 2,317 | 393 | 7,600 |
| 2002 | 3,665 | 1,366 | 2,370 | 378 | 7,779 |
| 2003 | 3,732 | 1,333 | 2,331 | 385 | 7,781 |
| 2004 | 3,397 | 1,598 | 2,365 | 441 | 7,801 |
| 2005 | 3,544 | 2,013 | 2,339 | 448 | 8,344 |

NOTES: Data may not add to total because of independent rounding. Data are based on survey results. Other transportation includes fares for mass transit, buses, trains, airlines, taxis, school buses, and boats for which a fee is charged.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, *Consumer Expenditure Survey*, available at <http://www.bls.gov/> as of February 2007.

TABLE G-16 Average Passenger Fares: 1995–2006
Current dollars

| | Air carrier, domestic, scheduled service | Class I bus, intercity | Transit, all modes (unlinked) | Commuter rail | Intercity rail/ Amtrak |
|------|--|------------------------|-------------------------------|---------------|------------------------|
| 1995 | 105.50 | 20.10 | 0.88 | 3.13 | 39.92 |
| 1996 | 109.22 | 22.85 | 0.93 | 3.25 | 43.31 |
| 1997 | 111.92 | 20.83 | 0.90 | 3.30 | 45.26 |
| 1998 | 113.10 | 23.14 | 0.91 | 3.29 | 44.75 |
| 1999 | 113.87 | 26.16 | 0.90 | 3.30 | 46.85 |
| 2000 | 120.19 | 29.46 | 0.93 | 3.32 | 49.61 |
| 2001 | 110.75 | 30.27 | 0.92 | 3.44 | 51.58 |
| 2002 | 103.14 | 30.11 | 0.89 | 3.49 | 55.15 |
| 2003 | 107.66 | U | 0.97 | 3.79 | 50.68 |
| 2004 | 105.77 | U | 1.02 | 3.90 | 50.71 |
| 2005 | 107.63 | U | 1.02 | 4.08 | 51.17 |
| 2006 | 114.97 | U | U | U | 56.45 |

KEY: U = Data are unavailable.

NOTE: *Class I bus* includes regular route intercity service.

SOURCE: Various sources, as cited in U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *National Transportation Statistics 2007*, table 3-15a, available at <http://www.bts.gov/> as of September 2007.

The Air Travel Price Index (ATPI) is a measure of the change over time in the prices paid by air travelers, based on actual fares paid by travelers, not published fares.

FIGURE G-17 Comparison of Air Travel Price Indexes (ATPI): 1995–2007
Quarterly data, not seasonally adjusted

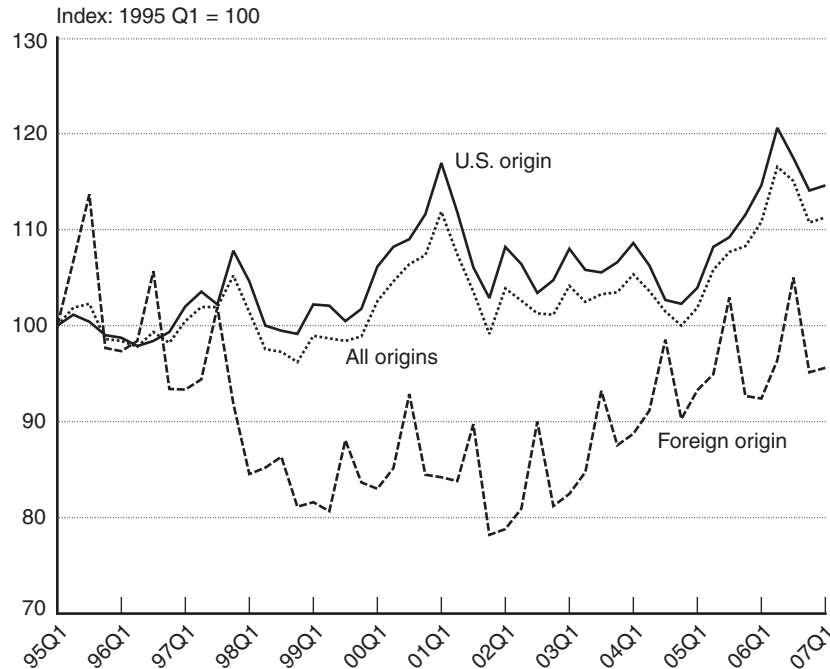


TABLE G-17 Comparison of Air Travel Price Indexes (ATPI): 1Q06–1Q07

Not seasonally adjusted, domestic carriers only

Index: 1995 Q1 = 100

| Quarter | All-origins, combined | U.S.-origin | Foreign-origin |
|---------|-----------------------|-------------|----------------|
| 2006 Q1 | 110.80 | 114.57 | 92.37 |
| 2006 Q2 | 116.53 | 120.61 | 96.41 |
| 2006 Q3 | 115.04 | 117.43 | 104.96 |
| 2006 Q4 | 110.72 | 114.03 | 95.11 |
| 2007 Q1 | 111.23 | 114.55 | 95.60 |

NOTES: The Bureau of Transportation Statistics computes the *Air Travel Price Index* values using the Fisher Index formula. *U.S. origin only* measures change in the cost of itineraries originating in the United States, whether the destinations are domestic or international. *Foreign origin only* measures change in the cost of itineraries with a foreign origin and a U.S. destination. *All origins* (Full-scope ATPI) combines the U.S.- and foreign-origin itineraries. See source for balance of data.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *Air Travel Price Index*, available at <http://www.bts.gov/> as of June 2007.

TABLE G-18 Average Cost per Mile of Owning and Operating an Automobile: 1995–2006
Current dollars

| | Variable costs | Fixed costs | Total costs |
|------|----------------|-------------|-------------|
| 1995 | 0.10 | 0.32 | 0.42 |
| 1996 | 0.10 | 0.33 | 0.43 |
| 1997 | 0.11 | 0.34 | 0.45 |
| 1998 | 0.11 | 0.35 | 0.46 |
| 1999 | 0.11 | 0.36 | 0.47 |
| 2000 | 0.12 | 0.37 | 0.49 |
| 2001 | 0.14 | 0.37 | 0.51 |
| 2002 | 0.12 | 0.38 | 0.50 |
| 2003 | 0.13 | 0.39 | 0.52 |
| 2004 | 0.13 | 0.44 | 0.56 |
| 2005 | 0.15 | 0.37 | 0.52 |
| 2006 | 0.15 | 0.38 | 0.52 |

NOTE: Data may not add to total because of independent rounding. Data are the cost per mile based on 15,000 miles per year and a composite of three current model American automobiles. *Variable costs* include fuel, maintenance, and tires. Fuel costs are based on a late year average price per gallon of regular unleaded gasoline. *Fixed costs* (ownership costs) include insurance, license, registration, taxes, depreciation, and finance charges.

SOURCE: U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics calculations based on USDOT, RITA, BTS, *National Transportation Statistics 2007*, table 3-14, available at <http://www.bts.gov/> as of August 2007.

Government Transportation Revenues consist of money collected by governments from transportation user charges and taxes to finance transportation programs. The following types of receipts are excluded: 1) revenues collected from users of the transportation system that are directed to the general fund and used for nontransportation purposes, 2) nontransportation general fund revenues that are used to finance transportation programs and 3) proceeds from borrowing.

TABLE G-19 Federal, State, and Local Government Transportation Revenues: FY 1995–2003

| Chained 2000 dollars (billions) | | | |
|---------------------------------|---------|-----------------|-------|
| Fiscal years | Federal | State and local | Total |
| 1995 | 35.7 | 78.5 | 114.2 |
| 1996 | 35.3 | 78.7 | 114.1 |
| 1997 | 35.1 | 76.6 | 111.8 |
| 1998 | 42.5 | 79.5 | 122.1 |
| 1999 | 54.9 | 81.5 | 136.5 |
| 2000 | 47.1 | 81.5 | 128.6 |
| 2001 | 41.9 | 80.7 | 122.6 |
| 2002 | 43.2 | 84.4 | 127.6 |
| 2003 | 42.6 | 81.3 | 123.9 |

| Current dollars (billions) | | | |
|----------------------------|---------|-----------------|-------|
| Fiscal years | Federal | State and local | Total |
| 1995 | 30.5 | 67.1 | 97.6 |
| 1996 | 31.2 | 69.5 | 100.7 |
| 1997 | 32.0 | 69.7 | 101.6 |
| 1998 | 39.4 | 73.8 | 113.2 |
| 1999 | 52.6 | 78.0 | 130.6 |
| 2000 | 47.1 | 81.5 | 128.6 |
| 2001 | 43.1 | 83.0 | 126.1 |
| 2002 | 45.7 | 89.3 | 135.0 |
| 2003 | 46.2 | 88.1 | 134.3 |

NOTE: Data may not add to total because of independent rounding. To eliminate the effects of inflation over time, the Bureau of Transportation Statistics converted current dollars to chained 2000 dollars.

SOURCE: U. S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *Government Transportation Financial Statistics 2007* as of August 2007.

Government Transportation Revenues consist of money collected by governments from transportation user charges and taxes to finance transportation programs. The following types of receipts are excluded: 1) revenues collected from users of the transportation system that are directed to the general fund and used for nontransportation purposes, 2) nontransportation general fund revenues that are used to finance transportation programs and 3) proceeds from borrowing.

**TABLE G-20 Federal Government Transportation Revenues by Mode:
FY 2003**

| | Chained 2000 dollars (billions) | Percent of total |
|-----------------|------------------------------------|------------------|
| Highway | 31.5 | 74.00 |
| Air | 9.8 | 22.94 |
| Water | 1.2 | 2.92 |
| Pipeline | 0.1 | 0.12 |
| General support | 0.0 | 0.02 |

NOTES: Data may not add to total and percentages may not add to 100 because of independent rounding. To eliminate the effects of inflation over time, the Bureau of Transportation Statistics converted current dollars to chained 2000 dollars. Revenue is attributed to the mode from which it is collected, so money dedicated to transit from the highway trust fund is considered highway revenue.

SOURCE: U. S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *Government Transportation Financial Statistics 2007* as of August 2007.

Federal transportation expenditures consist of outlays of the federal government including only direct spending, not including grants to state and local governments. State and local expenditures are from all fund sources.

TABLE G-21 Federal, State, and Local Government Transportation Expenditures: FY 1995–2003

| Chained 2000 dollars (billions) | | | |
|---------------------------------|---------|-----------------|-------|
| | Federal | State and local | Total |
| 1995 | 23.3 | 144.4 | 167.6 |
| 1996 | 22.6 | 146.4 | 169.0 |
| 1997 | 21.9 | 149.5 | 171.5 |
| 1998 | 22.8 | 153.5 | 176.3 |
| 1999 | 21.9 | 168.6 | 190.5 |
| 2000 | 21.0 | 165.3 | 186.3 |
| 2001 | 29.4 | 175.8 | 205.2 |
| 2002 | 33.7 | 177.7 | 211.4 |
| 2003 | 39.3 | 180.3 | 219.7 |

| Current dollars (billions) | | | |
|----------------------------|---------|-----------------|-------|
| | Federal | State and local | Total |
| 1995 | 19.9 | 123.4 | 143.3 |
| 1996 | 20.0 | 129.2 | 149.1 |
| 1997 | 19.9 | 136.0 | 155.9 |
| 1998 | 21.2 | 142.3 | 163.5 |
| 1999 | 21.0 | 161.3 | 182.3 |
| 2000 | 21.0 | 165.3 | 186.3 |
| 2001 | 30.2 | 180.9 | 211.1 |
| 2002 | 35.7 | 188.0 | 223.7 |
| 2003 | 42.6 | 195.4 | 238.1 |

NOTES: Data may not add to total and percentages may not add to 100 because of independent rounding. To eliminate the effects of inflation over time, the Bureau of Transportation Statistics converted current dollars to chained 2000 dollars. To avoid double counting, federal expenditures exclude grants to state and local governments.

SOURCE: U. S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *Government Transportation Financial Statistics 2007* as of August 2007.

Federal transportation expenditures consist of outlays of the federal government including only direct spending, not including grants to state and local governments.

TABLE G-22 Federal Government Transportation Expenditures by Mode: FY 2003

| | Chained 2000 dollars (billions) | Percentage of total |
|-----------------|---------------------------------|---------------------|
| Total | 39.2 | 100.00 |
| Highway | 2.9 | 7.43 |
| Transit | 4.2 | 10.69 |
| Railroads | 1.1 | 2.86 |
| Air | 15.7 | 39.92 |
| Water | 5.4 | 13.84 |
| Pipeline | 0.0 | 0.10 |
| General Support | 9.9 | 25.16 |

NOTES: Data may not add to total and percentages may not add to 100 because of independent rounding. To eliminate the effects of inflation over time, the Bureau of Transportation Statistics converted current dollars to chained 2000 dollars

SOURCE: U. S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, *Government Transportation Financial Statistics 2007* as of August 2007.

Chapter 3

State of Transportation Statistics

State of Transportation Statistics

The legislative mandate for the Bureau of Transportation Statistics (BTS) requires annual submission of this *Transportation Statistics Annual Report* to the President and Congress. The report includes information on the topics covered in chapter 2 of this report, documentation of methods used to obtain and ensure the quality of information presented in the report, and recommendations for improving transportation statistical information. The last two items are the subject of this chapter.

Information Quality

BTS obtained the data in this report from many sources, including federal government agencies, private industry, and trade associations. Some of the data are based on samples and are subject to sampling variability. Data from all sources may be subject to omissions and errors in reporting, recording, and processing. Documents cited as table sources often provide detailed information about definitions, methodologies, and statistical reliability.

Federal data are subject to guidelines, policies, and information practices that pertain to all federal agencies disseminating information to the public under Office of Management Budget (OMB) directives.

Because federal agencies are subject to these guidelines, BTS relies on federal sources for the data used in this report where possible. A large number of federal agencies, both within the Department of Transportation and in other agencies, collect, compile, analyze, and publish transportation data. A partial list of these organizations is included in table 1. In some cases, these agencies compile and disseminate data submitted or reported by states or private parties on transportation operations, planning, financing, or management. Some agencies also conduct surveys or otherwise directly collect data on particular matters, either through their own auspices or through partnerships with other entities. Still other agencies produce data or information relevant to transportation, even though transportation is not the primary purpose.

OMB chairs an interagency statistical policy committee, comprised of the heads of 13 statistical agencies in the federal government, including BTS. Statistical policies and guidelines for best practices are developed by this group and distributed to these and other agencies engaged in statistics.

BTS has developed guidelines for good statistical practices in the transportation field in response to its legislative mandate. Specific topics covered include planning data systems, collection of data, processing data, dissemination of information, and evaluation of information quality. These guidelines apply to all information, including

compilations containing data from other sources, appearing in BTS publications. Box A outlines various federal statistical quality manual and guidelines pertinent to transportation data.

Agencies also often have their own specific requirements and guidelines that may be in addition to government-wide guidance. For example, they may issue guidelines for data reporting by state agencies, localities, and transportation providers. Such guidance may contribute to greater uniformity, comparability, and quality of the resulting data even though it comes from multiple providers.

In many, but by no means all cases, source agencies document the methods used in collecting, compiling, and assuring the quality of the data they produce. Source and accuracy statements in many cases are published by the source agency. The BTS website for *National Transportation Statistics*, a web based companion document to this report, summarizes much of this information with respect to a particular data series (*National Transportation Statistics*, Appendix E—Data Source and Accuracy Statements, http://www.bts.gov/publications/national_transportation_statistics/).

Table 1
Selected Federal Agencies that Collect or Compile Transportation Data

| |
|--|
| <p>Multimodal Data (including economic data) Bureau of Economic Analysis, USDOC Bureau of Labor Statistics, USDOL Bureau of Transportation Statistics (Research and Innovative Technology Administration), USDOT Customs and Border Protection, USDHS Census Bureau, USDOC</p> |
| <p>Aviation Data Bureau of Transportation Statistics (Research and Innovative Technology Administration), USDOT Federal Aviation Administration, USDOT Office of Aviation and International Affairs, USDOT National Transportation Safety Board (independent)</p> |
| <p>Hazardous Materials Data Pipeline and Hazardous Materials Administration, USDOT U.S. Census Bureau; RITA/BTS, USDOT</p> |
| <p>Highway Data Federal Highway Administration, USDOT Federal Motor Carrier Safety Administration, USDOT Federal Transit Administration, USDOT National Highway Traffic Safety Administration, USDOT</p> |
| <p>Maritime and Inland Waterways Data Maritime Administration, USDOT Federal Maritime Commission St. Lawrence Seaway Development Corporation, USDOT U.S. Army Corps of Engineers, USACE U.S. Coast Guard, USDHS</p> |
| <p>Pipeline Data Pipeline and Hazardous Materials Administration, USDOT</p> |
| <p>Railroad Data Federal Railroad Administration, USDOT Surface Transportation Board, USDOT</p> |
| <p>Transit Data Federal Transit Administration, USDOT</p> |
| <p>Other Agencies Collecting Data Related to Transportation Agricultural Marketing Service, USDA Environmental Protection Agency Energy Information Administration, USDOE</p> |

KEY: USDHS—U.S. Department of Homeland Security; **USDA**—U.S. Department of Agriculture; **USDOC**—U.S. Department of Commerce; **USDOE**—U.S. Department of Energy; **USDOL**—U.S. Department of Labor; **USDOT**—U.S. Department of Transportation.

Box A

Information Quality Guidelines for Federal Transportation Data

As a Federal statistical agency, BTS has its own statistical standards and participates with other Federal statistical agencies to improve the quality of statistical information. The practices of other transportation agencies that collect, compile, and disseminate statistical data are conducted under various guidelines. Here are some key information and statistical quality documents and guidelines:

- *BTS Statistical Standards Manual*—Covers all aspects of RITA/BTS statistical practice (http://www.bts.gov/programs/statistical_policy_and_research/bts_statistical_standards_manual/index.html).
- *Guide to Good Statistical Practice in the Transportation Field*—Includes the DOT guidelines for statistical information and additional BTS guidance for good statistical practice (http://www.bts.gov/publications/guide_to_good_statistical_practice_in_the_transportation_field/).
- *Guidelines for Ensuring and Maximizing the Quality, Objectivity, Utility, and Integrity of Information Disseminated by Federal Agencies*—Federal Register Notice, Volume 67, Number 36, February 22, 2002, Part IX – Office of Management and Budget (http://www.bts.gov/publications/federal_register_notice/pdf/volume_67_number_36.pdf).
- *Guidelines of the Federal Statistical Organizations*—An approach to guidelines for statistical information adopted by the Interagency Council on Statistical Policy (ICSP) (http://www.bts.gov/publications/federal_register_notice/pdf/volume_67_number_107.pdf).
- *DOT Report for Implementing OMB's Information Dissemination Quality Guidelines*—The DOT implementation of the Office of Management and Budget (OMB) information quality guidelines and correction procedures. The DOT guidelines permit the operating administrations to issue their own guidelines, provided that these guidelines are consistent with the overall DOT guidelines (<http://dms.dot.gov/omb-final092502.pdf>).

In August 2007, OMB issued a notice in the Federal Register seeking public comments on a proposed directive for release and dissemination of statistical products by federal statistical agencies. Comments will be reviewed by OMB before issuing the final directive. (<http://www.whitehouse.gov/omb/inforeg/ssp/dissemination/index.html>)

Data Gaps

In the future, there will be data gaps in several areas of transportation due to continuing resource constraints. Federal agencies have reduced in scope, postponed, delayed and in some cases discontinued several long term data series important to understanding changes in the field of transportation. The Bureau of Transportation Statistics (BTS), for example, has not undertaken a previously planned long distance travel survey in 2007 due to resource constraints. This survey was conducted most recently in 2001/2002 as part of the National Household Travel Survey (NHTS) conducted jointly by BTS and the Federal Highway Administration (FHWA), in 1995 as the standalone American Travel Survey, and in 1977 by the U.S. Census Bureau. These long distance travel surveys provided data on the number, length, origins and destinations, modes of transportation, purpose, and traveler characteristics of U.S. residents making long-distance trips.

Also, due to resource constraints, the Census Bureau is not undertaking the previously planned repeat of the Vehicle Inventory and Use Survey (VIUS) as part of the 2007 Economic Census. The VIUS is the most indepth inventory of the characteristics of the nation's highway truck fleet, covering all categories from lightweight pickups and utility vehicles through large trucks. Previous editions of this survey, and its earlier counterpart, the Truck Inventory and Use Survey, were conducted at twice a decade intervals as part of the Economic Census extending back to 1963.

In addition, the U.S. Army Corps of Engineers (USACE) has discontinued one of its international maritime statistics data sets—the U.S. foreign trade-based data series. Updated preliminary and monthly cargo summary reports are no longer available on the Navigation Data Center and U.S. Department of Transportation, Maritime Administration web sites (type of service, dollar value, weight) and the monthly and annual waterborne databanks were discontinued. Monthly foreign trade and transportation data will no longer be publicly available from the USACE.

Transportation data needs continue to be discussed by the transportation community. The Transportation Research Board (TRB), part of the National Academy of Sciences, has sought input from its numerous committees of transportation experts and officials to identify key needs. Two circulars have resulted from this process to date.¹ The first, issued in December 2006, suggested that TRB committees annually review data needs, priorities, and costs. The second, issued in August 2007, details the results of discussions by State transportation officials.

¹ Transportation Research Board, Data and Information Systems Section, Transportation Research Circular E-C109: *Transportation Information Assets and Impacts* (Washington, DC: Transportation Research Board of the National Academy of Sciences) December 2006, and Transportation Research Board Circular, E-C121, *Information Assets to Support Transportation Decision-Making* (Washington, DC: TRB of the NAS), August 2007.

The discussion focused on actions to ensure availability of data for effective transportation decision-making and opportunities for national efforts to advance transportation data systems. A summary of the findings is shown in box B.

The Bureau of Transportation Statistics, in partnership with the U.S. Census Bureau, is conducting the 2007 Commodity Flow Survey (CFS). As a result of meetings and other consultations with stakeholders, BTS worked with Census to improve coverage of the CFS, publish industry data for the first time, and improve geography. The 2007 CFS data collection is nearly complete. BTS and Census work jointly to evaluate and monitor the progress of this effort and monitor overall data quality.

The FHWA in cooperation with its modal partners, including BTS, produced the Freight Analysis Framework, version 2, (FAF²). The 2002 CFS data form the basis of FAF². The FAF integrates data from a variety of sources to estimate commodity flows and related freight transportation activity among states, regions, and major international gateways. The original version, FAF¹, provided estimates for 1998 and forecasts for 2010 and 2020. The new version, FAF², provides estimates for 2002, annual provisional estimates beginning with 2005, and forecasts through 2035. All of the products listed here are available at www.ops.fhwa.dot.gov/freight/freight_analysis/faf.

Box B**Data Needs Findings From the Transportation Research Board's Peer Exchange
With State Transportation Officials**

In April 2007, the Transportation Research Board held a peer exchange discussion with representatives from 10 state transportation departments, 2 metropolitan planning organizations, and several federal agencies on actions to ensure the availability of data for transportation decision-making. Discussion included opportunities for national efforts to advance transportation data systems through:

- "Conducting synthesis studies to document innovative data practices, including data business plan development; protocols and management systems for sharing data within and between agencies; data reporting strategies and technologies; and studies of the uses and importance of national data bases..."
- "Development of new data tools, such as analysis and forecasting methods to support transportation decisions; practical methods to calculate return on investments (ROI) for all transportation investments; techniques to identify and quantify the risks and benefits of alternative investment scenarios; and advanced tools for integrating real-time traffic data with transportation management and planning functions."
- "Identification of effective designs for cooperative and collaborative interagency decisions on selection, sharing, and application of multiple data sources for decision making."

Appendices

Appendix A: List of Acronyms and Glossary

| | |
|-----------------|---|
| AAR | Association of American Railroads |
| ADA | Americans with Disabilities Act |
| APTA | American Public Transportation Association |
| ATPI | Air Travel Price Index |
| ATTI | Air Travel Time Index |
| ATTVI | Air Travel Time Variability Index |
| BEA | Bureau of Economic Analysis |
| BLS | Bureau of Labor Statistics |
| BTS | Bureau of Transportation Statistics |
| Btu | British thermal unit |
| CBP | U.S. Customs and Border Protection |
| CFS | Commodity Flow Survey |
| CO | carbon monoxide |
| CO ₂ | carbon dioxide |
| CPI | Consumer Price Index |
| CPSC | Consumer Product Safety Commission |
| DHS | U.S. Department of Homeland Security |
| DOC | U.S. Department of Commerce |
| DOE | U.S. Department of Energy |
| DOL | U.S. Department of Labor |
| DOT | U.S. Department of Transportation |
| dwt | deadweight tons |
| EIA | Energy Information Administration |
| EPA | U.S. Environmental Protection Agency |
| FAA | Federal Aviation Administration |
| FHWA | Federal Highway Administration |
| FMCSA | Federal Motor Carrier Safety Administration |
| FRA | Federal Railroad Administration |
| FTA | Federal Transit Administration |
| FY | fiscal year |
| GDP | Gross Domestic Product |
| GHG | greenhouse gas |
| GIS | geographic information systems |
| GVWR | gross vehicle weight rating |
| HMIS | Hazardous Materials Information System |

| | |
|----------------------|---|
| ISTEA | Intermodal Surface Transportation Efficiency Act |
| ITS | intelligent transportation system |
| MARAD | Maritime Administration |
| MFP | multifactor productivity |
| MISLE | Marine Information and Safety Law Enforcement |
| mmtc | million metric tons of carbon |
| mpg | miles per gallon |
| mph | miles per hour |
| MPO | metropolitan planning organization |
| MSA | metropolitan statistical area |
| NAICS | North American Industry Classification System |
| NEI | National Emissions Inventory |
| NEISS | National Electronic Injury Surveillance System |
| NHTS | National Household Travel Survey |
| NHTSA | National Highway Traffic Safety Administration |
| NO _x | nitrogen oxides |
| NPIAS | National Plan of Integrated Airport Systems |
| NTAD | National Transportation Atlas Database |
| NTD | National Transit Database |
| NTS | <i>National Transportation Statistics</i> report |
| NTSB | National Transportation Safety Board |
| O&D | origin and destination |
| OECD | Organization for Economic Cooperation and Development |
| OOS | out of service |
| OPEC | Organization of Petroleum Exporting Countries |
| PM-2.5 | particulate matter of 2.5 microns in diameter or smaller |
| PM-10 | particulate matter of 10 microns in diameter or smaller |
| pmt | passenger-miles of travel |
| quads | quadrillions |
| RITA | Research and Innovative Technology Administration |
| rpm | revenue passenger-mile |
| SAFETEA-LU | Safe, Accountable, Flexible, Efficient Transportation Equity Act—A Legacy for Users |
| SCTG | Standard Classification of Transported Goods |
| SE | standard error |
| SIC | Standard Industrial Classification |
| STOL | short take-off and landing |
| SUV | sport utility vehicle |
| TEA-21 | Transportation Equity Act for the 21st Century |
| TEU | 20-foot equivalent container unit |
| TgCO ₂ Eq | teragrams of carbon dioxide equivalent |
| TSAR | <i>Transportation Statistics Annual Report</i> |
| TSI | Transportation Services Index |

| | |
|-------|-----------------------------------|
| TTI | Texas Transportation Institute |
| TTI | Travel Time Index |
| USACE | U.S. Army Corps of Engineers |
| USCG | U.S. Coast Guard |
| USDOT | U.S. Department of Transportation |
| VIUS | Vehicle Inventory and Use Survey |
| vmt | vehicle-miles of travel |
| VOC | volatile organic compounds |

Glossary

14 CFR 121 (air): *Code of Federal Regulations*, Title 14, part 121. Prescribes rules governing the operation of domestic, flag, and supplemental air carriers and commercial operators of large aircraft.

14 CFR 135 (air): *Code of Federal Regulations*, Title 14, part 135. Prescribes rules governing the operations of commuter air carriers (scheduled) and on-demand air taxi (unscheduled).

ACCIDENT (aircraft): As defined by the National Transportation Safety Board, an occurrence incidental to flight in which, as a result of the operation of an aircraft, any person (occupant or nonoccupant) receives fatal or serious injury or any aircraft receives substantial damage.

ACCIDENT (automobile): See Crash (highway).

ACCIDENT (gas): 1) An event that involves the release of gas from a pipeline or of liquefied natural gas (LNG) or other gas from an LNG facility resulting in personal injury necessitating in-patient hospitalization or a death; or estimated property damage of \$50,000 or more to the operator or others, or both, including the value of the gas that escaped during the accident; 2) an event that results in an emergency shutdown of an LNG facility; or 3) an event that is significant in the judgment of the operator even though it did not meet the criteria of (1) or (2).

ACCIDENT (hazardous liquid or gas): Release of hazardous liquid or carbon dioxide while being transported, resulting in any of the following: 1) an explosion or fire not intentionally set by the operator; 2) loss of 50 or more barrels of hazardous liquid or carbon dioxide; 3) release to the atmosphere of more than 5 barrels a day of

highly volatile liquids; 4) death of any person; 5) bodily harm resulting in one or more of the following—a) the loss of consciousness, b) the necessity of carrying a person from the scene, c) the necessity for medical treatment, d) disability that prevents the discharge of normal duties; and 6) estimated damage to the property of the operators and/or others exceeding \$50,000.

ACCIDENT (highway-rail grade-crossing): An impact between on-track railroad equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, or pedestrian or other highway user at a designated crossing site. Sidewalks, pathways, shoulders, and ditches associated with the crossing are considered to be part of the crossing site.

ACCIDENT (rail): A collision, derailment, fire, explosion, act of God, or other event involving operation of railroad on-track equipment (standing or moving) that results in railroad damage exceeding an established dollar threshold.

ACCIDENT (recreational boating): An occurrence involving a vessel or its equipment that results in 1) a death; 2) an injury that requires medical treatment beyond first aid; 3) damage to a vessel and other property, totaling more than \$500 or resulting in the complete loss of a vessel; or 4) the disappearance of the vessel under circumstances that indicate death or injury. Federal regulations (33 CFR 173–4) require the operator of any vessel that is numbered or used for recreational purposes to submit an accident report.

ACCIDENT (transit): An incident involving a moving vehicle, including another vehicle, an object, person (except suicides), or a derailment/left roadway.

AIR CARRIER: The commercial system of air transportation comprising large certificated air carriers, small certificated air carriers, commuter air carriers, on-demand air taxis, supplemental air carriers, and air travel clubs.

AIR TAXI: An aircraft operator who conducts operations for hire or compensation in accordance with 14 CFR 135 (for safety purposes) or FAR Part 135 (for economic regulations or reporting purposes) in an aircraft with 30 or fewer passenger seats and a payload capacity of 7,500 pounds or less. An air taxi operates on an on-demand basis and does not meet the flight schedule qualifications of a commuter air carrier (see below).

AIRPORT: A landing area regularly used by aircraft for receiving or discharging passengers or cargo.

ALTERNATIVE FUELS: The Energy Policy Act of 1992 defines alternative fuels as methanol, denatured ethanol, and other alcohol; mixtures containing 85 percent or more (but not less than 70 percent as determined by the Secretary of Energy by rule to provide for requirements relating to cold start, safety, or vehicle functions) by volume of methanol, denatured ethanol, and other alcohols with gasoline or other fuels. Includes compressed natural gas, liquid petroleum gas, hydrogen, coal-derived liquid fuels, fuels other than alcohols derived from biological materials, electricity, or any other fuel the Secretary of Energy determines by rule is substantially not petroleum and would yield substantial energy security and environmental benefits.

AMTRAK: Operated by the National Railroad Passenger Corporation, this rail system was created by the Rail Passenger Service Act of 1970 (Public Law 91-518, 84 Stat. 1327) and given the responsibility for the operation of intercity, as distinct from suburban, passenger trains between points designated by the Secretary of Transportation.

ARTERIAL HIGHWAY: A major highway used primarily for through traffic.

ASPHALT: A dark brown to black cement-like material containing bitumen as the predominant constituent. The definition includes crude asphalt and finished products such as cements, fluxes, the asphalt content of emulsions, and petroleum distillates blended with asphalt to make cutback asphalt. Asphalt is obtained by petroleum processing.

AVAILABLE SEAT-MILES (air carrier): The aircraft-miles flown in each interairport hop multiplied by the number of seats available on that hop for revenue passenger service.

AVERAGE HAUL: The average distance, in miles, one ton is carried. It is computed by dividing ton-miles by tons of freight originated.

AVERAGE PASSENGER TRIP LENGTH (bus/rail): Calculated by dividing revenue passenger-miles by the number of revenue passengers.

AVIATION GASOLINE (general aviation): All special grades of gasoline used in aviation reciprocating engines, as specified by American Society of Testing Materials Specification D910 and Military Specification MIL-G5572. Includes refinery products within the gasoline range marketed as or blended to constitute aviation gasoline.

BARREL (oil): A unit of volume equal to 42 U.S. gallons.

BRITISH THERMAL UNIT (Btu): The quantity of heat needed to raise the temperature of 1 pound (approximately 1 pint) of water by 1 °F at or near 39.2 °F.

BULK CARRIER (water): A ship with specialized holds for carrying dry or liquid commodities, such as oil, grain, ore, and coal, in unpackaged bulk form. Bulk carriers may be designed to carry a single bulk product (crude oil tanker) or accommodate several bulk product types (ore/

bulk/oil carrier) on the same voyage or on a subsequent voyage after holds are cleaned.

BUS: Large motor vehicle used to carry more than 10 passengers, including school buses, intercity buses, and transit buses.

CAR-MILE (rail): The movement of a railroad car a distance of one mile. An empty or loaded car-mile refers to a mile run by a freight car with or without a load. In the case of intermodal movements, the designation of empty or loaded refers to whether the trailers or containers are moved with or without a waybill.

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY (air carrier): A certificate issued by the U.S. Department of Transportation to an air carrier under Section 401 of the Federal Aviation Act authorizing the carrier to engage in air transportation.

CERTIFICATED AIR CARRIER: An air carrier holding a Certificate of Public Convenience and Necessity issued by the U.S. Department of Transportation to conduct scheduled services interstate. These carriers may also conduct non-scheduled or charter operations. Certificated air carriers operate large aircraft (30 seats or more or a maximum load of 7,500 pounds or more) in accordance with FAR Part 121. See also Large Certificated Air Carrier.

CERTIFICATED AIRPORTS: Airports that service air carrier operations with aircraft seating more than 30 passengers.

CHAINED DOLLARS: A measure used to express real prices, defined as prices that are adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices usually reflect buying power relative to a reference year. The “chained-dollar” measure is based on the average weights of goods and services in successive pairs of years. It is “chained” because the second year in each pair, with its weights,

becomes the first year of the next pair. Prior to 1996, real prices were expressed in constant dollars, a weighted measure of goods and services in a single year. See also Constant Dollars and Current Dollars.

CLASS I RAILROAD: A carrier that has an annual operating revenue of \$250 million or more after applying the railroad revenue deflator formula, which is based on the Railroad Freight Price Index developed by the U.S. Department of Labor, Bureau of Labor Statistics. The formula is the current year’s revenues multiplied by the 1991 average index or current year’s average index.

COASTWISE TRAFFIC (water): Domestic traffic receiving a carriage over the ocean or the Gulf of Mexico (e.g., between New Orleans and Baltimore, New York and Puerto Rico, San Francisco and Hawaii, Alaska and Hawaii). Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also considered coastwise.

COLLECTOR (highway): In rural areas, routes that serve intracounty rather than statewide travel. In urban areas, streets that provide direct access to neighborhoods and arterials.

COMBINATION TRUCK: A power unit (truck tractor) and one or more trailing units (a semi-trailer or trailer).

COMMERCIAL BUS: Any bus used to carry passengers at rates specified in tariffs; charges may be computed per passenger (as in regular route service) or per vehicle (as in charter service).

COMMERCIAL SERVICE AIRPORT: Airport receiving scheduled passenger service and having 2,500 or more enplaned passengers per year.

COMMUTER AIR CARRIER: Different definitions are used for safety purposes and for economic regulations and reporting. For safety

analysis, commuter carriers are defined as air carriers operating under 14 CFR 135 that carry passengers for hire or compensation on at least five round trips per week on at least one route between two or more points according to published flight schedules, which specify the times, days of the week, and points of service. On March 20, 1997, the size of the aircraft subject to 14 CFR 135 was reduced from 30 to fewer than 10 passenger seats. (Larger aircraft are subject to the more stringent regulations of 14 CFR 121.) Helicopters carrying passengers or cargo for hire, however, are regulated under CFR 135 whatever their size. Although, in practice, most commuter air carriers operate aircraft that are regulated for safety purposes under 14 CFR 135 and most aircraft that are regulated under 14 CFR 135 are operated by commuter air carriers, this is not necessarily the case.

For economic regulations and reporting requirements, commuter air carriers are those carriers that operate aircraft of 60 or fewer seats or a maximum payload capacity of 18,000 pounds or less. These carriers hold a certificate issued under section 298C of the Federal Aviation Act of 1958, as amended.

COMMUTER RAIL (transit): Urban passenger train service for short-distance travel between a central city and adjacent suburb. Does not include rapid rail transit or light rail service.

CONSTANT DOLLARS: Dollar value adjusted for changes in the average price level by dividing a current dollar amount by a price index. See also Chained Dollars and Current Dollars.

CRASH (highway): An event that produces injury and/or property damage, involves a motor vehicle in transport, and occurs on a trafficway or while the vehicle is still in motion after running off the trafficway.

CRUDE OIL: A mixture of hydrocarbons that exists in the liquid phase in natural underground

reservoirs and remains liquid at atmospheric pressure after passing through surface-separating facilities.

CURRENT DOLLARS: Dollar value of a good or service in terms of prices current at the time the good or service is sold. See also Chained Dollars and Constant Dollars.

DEADWEIGHT TONNAGE (water): The carrying capacity of a vessel in long tons (2,240 pounds). It is the difference between the number of tons of water a vessel displaces "light" and the number of tons it displaces when submerged to the "load line."

DEMAND-RESPONSE VEHICLE (transit): A nonfixed-route, nonfixed-schedule vehicle that operates in response to calls from passengers or their agents to the transit operator or dispatcher.

DIESEL FUEL: A complex mixture of hydrocarbons with a boiling range between approximately 350 and 650 °F. Diesel fuel is composed primarily of paraffins and naphthenic compounds that auto-ignite from the heat of compression in a diesel engine. Diesel is used primarily by heavy-duty road vehicles, construction equipment, locomotives, and by marine and stationary engines.

DOMESTIC FREIGHT (water): All waterborne commercial movement between points in the United States, Puerto Rico, and the Virgin Islands, excluding traffic with the Panama Canal Zone. Cargo moved for the military in commercial vessels is reported as ordinary commercial cargo; military cargo moved in military vessels is omitted.

DOMESTIC OPERATIONS (air carrier): All air carrier operations having destinations within the 50 United States, the District of Columbia, the Commonwealth of Puerto Rico, and the U.S. Virgin Islands.

DOMESTIC PASSENGER (water): Any person traveling on a public conveyance by water between points in the United States, Puerto Rico, and the Virgin Islands.

DRY CARGO BARGES (water): Large flat-bottomed, nonself-propelled vessels used to transport dry-bulk materials such as coal and ore.

ENERGY EFFICIENCY: The ratio of energy inputs to outputs from a process, for example, miles traveled per gallon of fuel (mpg).

ENPLANED PASSENGERS (air carrier): See Revenue Passenger Enplanements.

FATAL CRASH (highway): A police-reported crash involving a motor vehicle in transport on a trafficway in which at least 1 person dies within 30 days of the crash as a result of that crash.

FATAL INJURY (air): Any injury that results in death within 30 days of the accident.

FATALITY: For purposes of statistical reporting on transportation safety, a fatality is considered a death due to injuries in a transportation crash, accident, or incident that occurs within 30 days of that occurrence.

FATALITY (rail): 1) Death of any person from an injury within 30 days of the accident or incident (may include nontrain accidents or incidents); or 2) death of a railroad employee from an occupational illness within 365 days after the occupational illness was diagnosed by a physician.

FATALITY (recreational boating): All deaths (other than deaths by natural causes) and missing persons resulting from an occurrence that involves a vessel or its equipment.

FATALITY (transit): A transit-caused death confirmed within 30 days of a transit incident. Incidents include collisions, derailments, personal casualties, and fires associated with tran-

sit agency revenue vehicles, transit facilities on transit property, service vehicles, maintenance areas, and rights-of-way.

FATALITY (water): All deaths and missing persons resulting from a vessel casualty.

FERRYBOAT (transit): Vessels that carry passengers and/or vehicles over a body of water. Generally steam or diesel-powered, ferryboats may also be hovercraft, hydrofoil, and other high-speed vessels. The vessel is limited in its use to the carriage of deck passengers or vehicles or both, operates on a short run on a frequent schedule between two points over the most direct water routes other than in ocean or coastwise service, and is offered as a public service of a type normally attributed to a bridge or tunnel.

FOSSIL FUELS: Any naturally occurring organic fuel formed in the Earth's crust, such as petroleum, coal, and natural gas.

FREIGHT REVENUE (rail): Revenue from the transportation of freight and from the exercise of transit, stopoff, diversion, and reconsignment privileges as provided for in tariffs.

FREIGHTERS (water): General cargo carriers, full containerships, partial containerships, roll on/roll off ships, and barge carriers.

GAS TRANSMISSION PIPELINES: Pipelines installed for the purpose of transmitting gas from a source or sources of supply to one or more distribution centers, or to one or more large volume customers; or a pipeline installed to interconnect sources of supply. Typically, transmission lines differ from gas mains in that they operate at higher pressures and the distance between connections is greater.

GASOLINE: A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to produce a fuel suitable for use in spark ignition

engines. Motor gasoline includes both leaded or unleaded grades of finished motor gasoline, blending components, and gasohol. Leaded gasoline is no longer used in highway motor vehicles in the United States.

GENERAL AVIATION: 1) All civil aviation operations other than scheduled air services and nonscheduled air transport operations for taxis, commuter air carriers, and air travel clubs that do not hold Certificates of Public Convenience and Necessity. 2) All civil aviation activity except that of air carriers certificated in accordance with Federal Aviation Regulations, Parts 121, 123, 127, and 135. The types of aircraft used in general aviation range from corporate multiengine jet aircraft piloted by professional crews to amateur-built single-engine piston-driven acrobatic planes to balloons and dirigibles.

GENERAL ESTIMATES SYSTEM (highway): A data-collection system that uses a nationally representative probability sample selected from all police-reported highway crashes. It began operation in 1988.

GROSS DOMESTIC PRODUCT (U.S.): The total output of goods and services produced by labor and property located in the United States, valued at market prices. As long as the labor and property are located in the United States, the suppliers (workers and owners) may be either U.S. residents or residents of foreign countries.

GROSS VEHICLE WEIGHT RATING (truck): The maximum rated capacity of a vehicle, including the weight of the base vehicle, all added equipment, driver and passengers, and all cargo.

HAZARDOUS MATERIAL: Any toxic substance or explosive, corrosive, combustible, poisonous, or radioactive material that poses a risk to the public's health, safety, or property, particularly when transported in commerce.

HEAVY RAIL (transit): An electric railway with the capacity to transport a heavy volume of passenger traffic and characterized by exclusive rights-of-way, multicar trains, high speed, rapid acceleration, sophisticated signaling, and high-platform loading. Also known as "subway," "elevated (railway)," or "metropolitan railway (metro)."

HIGHWAY-RAIL GRADE CROSSING (rail): A location where one or more railroad tracks are crossed by a public highway, road, street, or a private roadway at grade, including sidewalks and pathways at or associated with the crossing.

HIGHWAY TRUST FUND: A grant-in-aid type fund administered by the U.S. Department of Transportation, Federal Highway Administration. Most funds for highway improvements are apportioned to states according to formulas that give weight to population, area, and mileage.

HIGHWAY-USER TAX: A charge levied on persons or organizations based on their use of public roads. Funds collected are usually applied toward highway construction, reconstruction, and maintenance.

INCIDENT (hazardous materials): Any unintentional release of hazardous material while in transit or storage.

INCIDENT (train): Any event involving the movement of a train or railcars on track equipment that results in a death, a reportable injury, or illness, but in which railroad property damage does not exceed the reporting threshold.

INCIDENT (transit): Collisions, derailments, personal casualties, fires, and property damage in excess of \$1,000 associated with transit agency revenue vehicles; all other facilities on the transit property; and service vehicles, maintenance areas, and rights-of-way.

INJURY (air): See Serious Injury (air carrier/general aviation).

INJURY (gas): Described in U.S. Department of Transportation Forms 7100.1 or 7100.2 as an injury requiring “in-patient hospitalization” (admission and confinement in a hospital beyond treatment administered in an emergency room or out-patient clinic in which confinement does not occur).

INJURY (hazardous liquid pipeline): An injury resulting from a hazardous liquid pipeline accident that results in one or more of the following: 1) loss of consciousness, 2) a need to be carried from the scene, 3) a need for medical treatment, and/or 4) a disability that prevents the discharge of normal duties or the pursuit of normal duties beyond the day of the accident.

INJURY (highway): Police-reported highway injuries are classified as follows:

Incapacitating Injury: Any injury, other than a fatal injury, that prevents the injured person from walking, driving, or normally continuing the activities the person was capable of performing before the injury occurred. Includes severe lacerations, broken or distorted limbs, skull or chest injuries, abdominal injuries, unconsciousness at or when taken from the accident scene, and inability to leave the accident scene without assistance. Exclusions include momentary unconsciousness.

Nonincapacitating Evident Injury: Any injury, other than a fatal injury or an incapacitating injury, evident to observers at the scene of the accident. Includes lumps on head, abrasions, bruises, minor lacerations, and others. Excludes limping.

Possible Injury: Any injury reported or claimed that is not evident. Includes, among others, momentary unconsciousness, claim of injuries

not obvious, limping, complaint of pain, nausea, and hysteria.

INJURY (highway-rail grade crossing): 1) An injury to one or more persons other than railroad employees that requires medical treatment; 2) an injury to one or more employees that requires medical treatment or that results in restriction of work or motion for one or more days, or one or more lost work days, transfer to another job, termination of employment, or loss of consciousness; 3) any occupational illness affecting one or more railroad employees that is diagnosed by a physician.

INJURY (rail): 1) Injury to any person other than a railroad employee that requires medical treatment, or 2) injury to a railroad employee that requires medical treatment or results in restriction of work or motion for one or more workdays, one or more lost workdays, termination of employment, transfer to another job, loss of consciousness, or any occupational illness of a railroad employee diagnosed by a physician.

INJURY (recreational boating): Injury requiring medical treatment beyond first aid as a result of an occurrence that involves a vessel or its equipment.

INJURY (transit): Any physical damage or harm to a person requiring medical treatment or any physical damage or harm to a person reported at the time and place of occurrence. For employees, an injury includes incidents resulting in time lost from duty or any definition consistent with a transit agency’s current employee injury reporting practice.

INJURY (water): All personal injuries resulting from a vessel casualty that require medical treatment beyond first aid.

INLAND AND COASTAL CHANNELS: Includes the Atlantic Coast Waterways, the Atlantic Intracoastal Waterway, the New York State

Barge Canal System, the Gulf Coast Waterways, the Gulf Intracoastal Waterway, the Mississippi River System (including the Illinois Waterway), the Pacific Coast Waterways, the Great Lakes, and all other channels (waterways) of the United States, exclusive of Alaska, that are usable for commercial navigation.

INTERCITY CLASS I BUS: As defined by the Bureau of Transportation Statistics, an interstate motor carrier of passengers with an average annual gross revenue of at least \$1 million.

INTERCITY TRUCK: A truck that carries freight beyond local areas and commercial zones.

INTERNAL TRAFFIC (water): Vessel movements (origin and destination) that take place solely on inland waterways located within the boundaries of the contiguous 48 states or within the state of Alaska. Internal traffic also applies to carriage on both inland waterways and the water on the Great Lakes; carriage between offshore areas and inland waterways; and carriage occurring within the Delaware Bay, Chesapeake Bay, Puget Sound, and the San Francisco Bay, which are considered internal bodies of water rather than arms of the ocean.

INTERSTATE HIGHWAY: Limited access, divided highway of at least four lanes designated by the Federal Highway Administration as part of the Interstate System.

JET FUEL: Includes kerosene-type jet fuel (used primarily for commercial turbojet and turbo-prop aircraft engines) and naphtha-type jet fuel (used primarily for military turbojet and turbo-prop aircraft engines).

LAKELIKE OR GREAT LAKES TRAFFIC: Waterborne traffic between U.S. ports on the Great Lakes system. The Great Lakes system is treated as a separate waterways system rather than as a part of the inland system.

LARGE CERTIFICATED AIR CARRIER: An air carrier holding a certificate issued under section 401 of the Federal Aviation Act of 1958, as amended, that: 1) operates aircraft designed to have a maximum passenger capacity of more than 60 seats or a maximum payload capacity of more than 18,000 pounds, or 2) conducts operations where one or both terminals of a flight stage are outside the 50 states of the United States, the District of Columbia, the Commonwealth of Puerto Rico, and the U.S. Virgin Islands. Large certificated air carriers are grouped by annual operating revenues: 1) majors (more than \$1 billion in annual operating revenues), 2) nationals (between \$100 million and \$1 billion in annual operating revenues), 3) large regionals (between \$20 million and \$99,999,999 in annual operating revenues), and 4) medium regionals (less than \$20 million in annual operating revenues).

LARGE REGIONALS (air): Air carrier groups with annual operating revenues between \$20 million and \$99,999,999.

LARGE TRUCK: Trucks over 10,000 pounds gross vehicle weight rating, including single-unit trucks and truck tractors.

LIGHT-DUTY VEHICLE: A vehicle category that combines light automobiles and trucks.

LIGHT RAIL: A streetcar-type vehicle operated on city streets, semi-exclusive rights-of-way, or exclusive rights-of-way. Service may be provided by step-entry vehicles or by level boarding.

LIGHT TRUCK: Trucks of 10,000 pounds gross vehicle weight rating or less, including pickups, vans, truck-based station wagons, and sport utility vehicles.

LOCOMOTIVE: Railroad vehicle equipped with flanged wheels for use on railroad tracks, powered directly by electricity, steam, or fossil fuel, and used to move other railroad rolling equipment.

MAJORS (air): Air carrier groups with annual operating revenues exceeding \$1 billion.

MEDIUM REGIONALS (air): Air carrier groups with annual operating revenues less than \$20 million.

MERCHANDISE TRADE EXPORTS: Merchandise transported out of the United States to foreign countries whether such merchandise is exported from within the U.S. Customs Service territory, from a U.S. Customs bonded warehouse, or from a U.S. Foreign Trade Zone. (Foreign Trade Zones are areas, operated as public utilities, under the control of U.S. Customs with facilities for handling, storing, manipulating, manufacturing, and exhibiting goods.)

MERCHANDISE TRADE IMPORTS: Commodities of foreign origin entering the United States, as well as goods of domestic origin returned to the United States with no change in condition or after having been processed and/or assembled in other countries. Puerto Rico is a Customs district within the U.S. Customs territory, and its trade with foreign countries is included in U.S. import statistics. U.S. import statistics also include merchandise trade between the U.S. Virgin Islands and foreign countries even though the Islands are not officially a part of the U.S. Customs territory.

METHYL-TERTIARY-BUTYL-ETHER (MTBE): A colorless, flammable, liquid oxygenated hydrocarbon that contains 18.15 percent oxygen. It is a fuel oxygenate produced by reacting methanol with isobutylene.

MINOR ARTERIALS (highway): Roads linking cities and larger towns in rural areas. In urban areas, roads that link but do not penetrate neighborhoods within a community.

MOTORBUS (transit): A rubber-tired, self-propelled, manually steered bus with a fuel supply

onboard the vehicle. Motorbus types include intercity, school, and transit.

MOTORCYCLE: A two- or three-wheeled motor vehicle designed to transport one or two people, including motor scooters, minibikes, and mopeds.

NATIONALS (air): Air carrier groups with annual operating revenues between \$100 million and \$1 billion.

NATURAL GAS: A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in porous geologic formations beneath the Earth's surface, often in association with petroleum. The principal constituent is methane.

NONOCCUPANT (Automobile): Any person who is not an occupant of a motor vehicle in transport (e.g., bystanders, pedestrians, pedalcyclists, or an occupant of a parked motor vehicle).

NONSCHEDULED SERVICE (air): Revenue flights not operated as regular scheduled service, such as charter flights, and all nonrevenue flights incident to such flights.

NONSELF-PROPELLED VESSEL (water): A vessel without the means for self-propulsion. Includes dry cargo barges and tanker barges.

NONTRAIN INCIDENT: An event that results in a reportable casualty, but does not involve the movement of ontrack equipment and does not cause reportable damage above the threshold established for train accidents.

NONTRESPASSERS (rail): A person lawfully on any part of railroad property used in railroad operations or a person adjacent to railroad premises when injured as the result of railroad operations.

NONVESSEL-CASUALTY-RELATED DEATH (water): A death that occurs onboard a commer-

cial vessel but not as a result of a vessel casualty, such as a collision, fire, or explosion.

OCCUPANT (highway): Any person in or on a motor vehicle in transport. Includes the driver, passengers, and persons riding on the exterior of a motor vehicle (e.g., a skateboard rider holding onto a moving vehicle). Excludes occupants of parked cars unless they are double parked or motionless on the roadway.

OCCUPATIONAL FATALITY: Death resulting from a job-related injury.

OPERATING EXPENSES (air): Expenses incurred in the performance of air transportation, based on overall operating revenues and expenses. Does not include nonoperating income and expenses, nonrecurring items, or income taxes.

OPERATING EXPENSES (rail): Expenses of furnishing transportation services, including maintenance and depreciation of the plant used in the service.

OPERATING EXPENSES (transit): The total of all expenses associated with operation of an individual mode by a given operator. Includes distributions of “joint expenses” to individual modes and excludes “reconciling items,” such as interest expenses and depreciation. Should not be confused with “vehicle operating expenses.”

OPERATING EXPENSES (truck): Includes expenditures for equipment maintenance, supervision, wages, fuel, equipment rental, terminal operations, insurance, safety, and administrative and general functions.

OPERATING REVENUES (air): Revenues from the performance of air transportation and related incidental services. Includes 1) transportation revenues from the carriage of all classes of traffic in scheduled and nonscheduled services, and 2) nontransportation revenues consisting of federal

subsidies (where applicable) and services related to air transportation.

OTHER FREEWAYS AND EXPRESSWAYS (highway): All urban principal arterials with limited access but not part of the Interstate system.

OTHER PRINCIPAL ARTERIALS (highway): Major streets or highways, many of multi-lane or freeway design, serving high-volume traffic corridor movements that connect major generators of travel.

OTHER RAIL REVENUE: Includes revenues from miscellaneous operations (i.e., dining- and bar-car services), income from the lease of road and equipment, miscellaneous rental income, income from nonoperating property, profit from separately operated properties, dividend income, interest income, income from sinking and other reserve funds, release or premium on funded debt, contributions from other companies, and other miscellaneous income.

OTHER REVENUE VEHICLES (transit): Other revenue-generating modes of transit service, such as cable cars, personal rapid transit systems, monorail vehicles, inclined and railway cars, not covered otherwise.

OTHER 2-AXLE 4-TIRE VEHICLES (truck): Includes vans, pickup trucks, and sport utility vehicles.

PASSENGER CAR: A motor vehicle designed primarily for carrying passengers on ordinary roads, includes convertibles, sedans, and station wagons.

PASSENGER-MILE: 1) Air: One passenger transported 1 mile; passenger-miles for 1 inter-airport flight are calculated by multiplying aircraft-miles flown by the number of passengers carried on the flight. The total passenger-miles for all flights is the sum of passenger-miles for all interairport flights. 2) Auto: One passenger

traveling 1 mile; e.g., 1 car transporting 2 passengers 4 miles results in 8 passenger-miles. 3) Transit: The total number of miles traveled by transit passengers; e.g., 1 bus transporting 5 passengers 3 miles results in 15 passenger-miles.

PASSENGER REVENUE: 1) Rail: Revenue from the sale of tickets. 2) Air: Revenues from the transport of passengers by air. 3) Transit: Fares, transfer, zone, and park-and-ride parking charges paid by transit passengers. Prior to 1984, fare revenues collected by contractors operating transit services were not included.

PASSENGER VESSELS (water): A vessel designed for the commercial transport of passengers.

PEDALCYCLIST: A person on a vehicle that is powered solely by pedals.

PEDESTRIAN: Any person not in or on a motor vehicle or other vehicle. Excludes people in buildings or sitting at a sidewalk cafe. The National Highway Traffic Safety Administration also uses an "other pedestrian" category to refer to pedestrians using conveyances and people in buildings. Examples of pedestrian conveyances include skateboards, nonmotorized wheelchairs, rollerskates, sleds, and transport devices used as equipment.

PERSON-MILES: An estimate of the aggregate distances traveled by all persons on a given trip based on the estimated transportation-network-miles traveled on that trip.

PERSON TRIP: A trip taken by an individual. For example, if three persons from the same household travel together, the trip is counted as one household trip and three person trips.

PERSONAL CASUALTY (transit): 1) An incident in which a person is hurt while getting on or off a transit vehicle (e.g., falls or door incidents), but not as a result of a collision, derailment/left roadway, or fire. 2) An incident in

which a person is hurt while using a lift to get on or off a transit vehicle, but not as a result of a collision, derailment/left roadway, or fire. 3) An incident in which a person is injured on a transit vehicle, but not as a result of a collision, derailment/left roadway, or fire. 4) An incident in which a person is hurt while using a transit facility. This includes anyone on transit property (e.g., patrons, transit employees, trespassers), but does not include incidents resulting from illness or criminal activity.

PETROLEUM (oil): A generic term applied to oil and oil products in all forms, such as crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and non-hydrocarbon compounds blended into finished petroleum products.

PROPERTY DAMAGE (transit): The dollar amount required to repair or replace transit property (including stations, right-of-way, bus stops, and maintenance facilities) damaged during an incident.

PUBLIC ROAD: Any road under the jurisdiction of and maintained by a public authority (federal, state, county, town or township, local government, or instrumentality thereof) and open to public travel.

RAPID RAIL TRANSIT: Transit service using railcars driven by electricity usually drawn from a third rail, configured for passenger traffic, and usually operated on exclusive rights-of-way. It generally uses longer trains and has longer station spacing than light rail.

REVENUE: Remuneration received by carriers for transportation activities.

REVENUE PASSENGER: 1) Air: Person receiving air transportation from an air carrier for which remuneration is received by the carrier. Air carrier employees or others, except ministers of religion, elderly individuals, and handicapped

individuals, receiving reduced rate charges (less than the applicable tariff) are considered non-revenue passengers. Infants, for whom a token fare is charged, are not counted as passengers. 2) Transit: Single-vehicle transit rides by initial-board (first-ride) transit passengers only. Excludes all transfer rides and all nonrevenue rides. 3) Rail: Number of one-way trips made by persons holding tickets.

REVENUE PASSENGER ENPLANEMENTS (air): The total number of passengers boarding aircraft. Includes both originating and connecting passengers.

REVENUE PASSENGER LOAD FACTOR (air): Revenue passenger-miles as a percentage of available seat-miles in revenue passenger services. The term is used to represent the proportion of aircraft seating capacity that is actually sold and utilized.

REVENUE PASSENGER-MILE: One revenue passenger transported one mile.

REVENUE PASSENGER TON-MILE (air): One ton of revenue passenger weight (including all baggage) transported one mile. The passenger weight standard for both domestic and international operations is 200 pounds.

REVENUE TON-MILE: One short ton of freight transported one mile.

REVENUE VEHICLE-MILES (transit): One vehicle (bus, trolley bus, or streetcar) traveling one mile, while revenue passengers are on board, generates one revenue vehicle-mile. Revenue vehicle-miles reported represent the total mileage traveled by vehicles in scheduled or unscheduled revenue-producing services.

ROLL ON/ROLL OFF VESSEL (water): Ships that are designed to carry wheeled containers or other wheeled cargo and use the roll on/roll off method for loading and unloading.

RURAL HIGHWAY: Any highway, road, or street that is not an urban highway.

RURAL MILEAGE (highway): Roads outside city, municipal district, or urban boundaries.

SCHEDULED SERVICE (air): Transport service operated on published flight schedules.

SCHOOL BUS: A passenger motor vehicle that is designed or used to carry more than 10 passengers, in addition to the driver, and, as determined by the Secretary of Transportation, is likely to be significantly used for the purpose of transporting pre-primary, primary, or secondary school students between home and school.

SCHOOL BUS-RELATED CRASH: Any crash in which a vehicle, regardless of body design and used as a school bus, is directly or indirectly involved, such as a crash involving school children alighting from a vehicle.

SELF-PROPELLED VESSEL: A vessel that has its own means of propulsion. Includes tankers, containerships, dry bulk cargo ships, and general cargo vessels.

SERIOUS INJURY (air carrier/general aviation): An injury that requires hospitalization for more than 48 hours, commencing within 7 days from the date when the injury was received; results in a bone fracture (except simple fractures of fingers, toes, or nose); involves lacerations that cause severe hemorrhages, or nerve, muscle, or tendon damage; involves injury to any internal organ; or involves second- or third-degree burns or any burns affecting more than 5 percent of the body surface.

SMALL CERTIFICATED AIR CARRIER: An air carrier holding a certificate issued under section 401 of the Federal Aviation Act of 1958, as amended, that operates aircraft designed to have a maximum seating capacity of 60 seats or

fewer or a maximum payload of 18,000 pounds or less.

STATE AND LOCAL HIGHWAY EXPENDITURES: Disbursements for capital outlays, maintenance and traffic surfaces, administration and research, highway law enforcement and safety, and interest on debt.

SUPPLEMENTAL AIR CARRIER: An air carrier authorized to perform passenger and cargo charter services.

TANKER: An oceangoing ship designed to haul liquid bulk cargo in world trade.

TON-MILE (truck): The movement of one ton of cargo the distance of one mile. Ton-miles are calculated by multiplying the weight in tons of each shipment transported by the miles hauled.

TON-MILE (water): The movement of one ton of cargo the distance of one statute mile. Domestic ton-miles are calculated by multiplying tons moved by the number of statute miles moved on the water (e.g., 50 short tons moving 200 miles on a waterway would yield 10,000 ton-miles for that waterway). Ton-miles are not computed for ports. For coastwise traffic, the shortest route that safe navigation permits between the port of origin and destination is used to calculate ton-miles.

TRAIN LINE MILEAGE: The aggregate length of all line-haul railroads. It does not include the mileage of yard tracks or sidings, nor does it reflect the fact that a mile of railroad may include two or more parallel tracks. Jointly-used track is counted only once.

TRAIN-MILE: The movement of a train, which can consist of many cars, the distance of one mile. A train-mile differs from a vehicle-mile, which is the movement of one car (vehicle) the distance of one mile. A 10-car (vehicle) train traveling 1 mile is measured as 1 train-mile and 10 vehicle-

miles. Caution should be used when comparing train-miles to vehicle-miles.

TRANSIT VEHICLE: Includes light, heavy, and commuter rail; motorbus; trolley bus; van pools; automated guideway; and demand responsive vehicles.

TRANSSHIPMENTS: Shipments that enter or exit the United States by way of a U.S. Customs port on the northern or southern border, but whose origin or destination is a country other than Canada or Mexico.

TRESPASSER (rail): Any person whose presence on railroad property used in railroad operations is prohibited, forbidden, or unlawful.

TROLLEY BUS: Rubber-tired electric transit vehicle, manually steered and propelled by a motor drawing current, normally through overhead wires, from a central power source.

TRUST FUNDS: Accounts that are designated by law to carry out specific purposes and programs. Trust Funds are usually financed with earmarked tax collections.

TUG BOAT: A powered vessel designed for towing or pushing ships, dumb barges, pushed-towed barges, and rafts, but not for the carriage of goods.

U.S.-FLAG CARRIER OR AMERICAN FLAG CARRIER (air): One of a class of air carriers holding a Certificate of Public Convenience and Necessity, issued by the U.S. Department of Transportation and approved by the President, authorizing scheduled operations over specified routes between the United States (and/or its territories) and one or more foreign countries.

UNLEADED GASOLINE: See Gasoline.

UNLINKED PASSENGER TRIPS (transit): The number of passengers boarding public transportation vehicles. A passenger is counted each

time he/she boards a vehicle even if the boarding is part of the same journey from origin to destination.

URBAN HIGHWAY: Any road or street within the boundaries of an urban area. An urban area is an area including and adjacent to a municipality or urban place with a population of 5,000 or more. The boundaries of urban areas are fixed by state highway departments, subject to the approval of the Federal Highway Administration, for purposes of the Federal-Aid Highway Program.

VANPOOL (transit): Public-sponsored commuter service operating under prearranged schedules for previously formed groups of riders in 8- to 18-seat vehicles. Drivers are also commuters who receive little or no compensation besides the free ride.

VEHICLE MAINTENANCE (transit): All activities associated with revenue and nonrevenue (service) vehicle maintenance, including administration, inspection and maintenance, and servicing (e.g., cleaning and fueling) vehicles. In addition, it includes repairs due to vandalism or to revenue vehicle accidents.

VEHICLE-MILES (highway): Miles of travel by all types of motor vehicles as determined by the states on the basis of actual traffic counts and established estimating procedures.

VEHICLE-MILES (transit): The total number of miles traveled by transit vehicles. Commuter rail, heavy rail, and light rail report individual car-miles, rather than train-miles for vehicle-miles.

VEHICLE OPERATIONS (transit): All activities associated with transportation administration, including the control of revenue vehicle movements, scheduling, ticketing and fare collection, system security, and revenue vehicle operation.

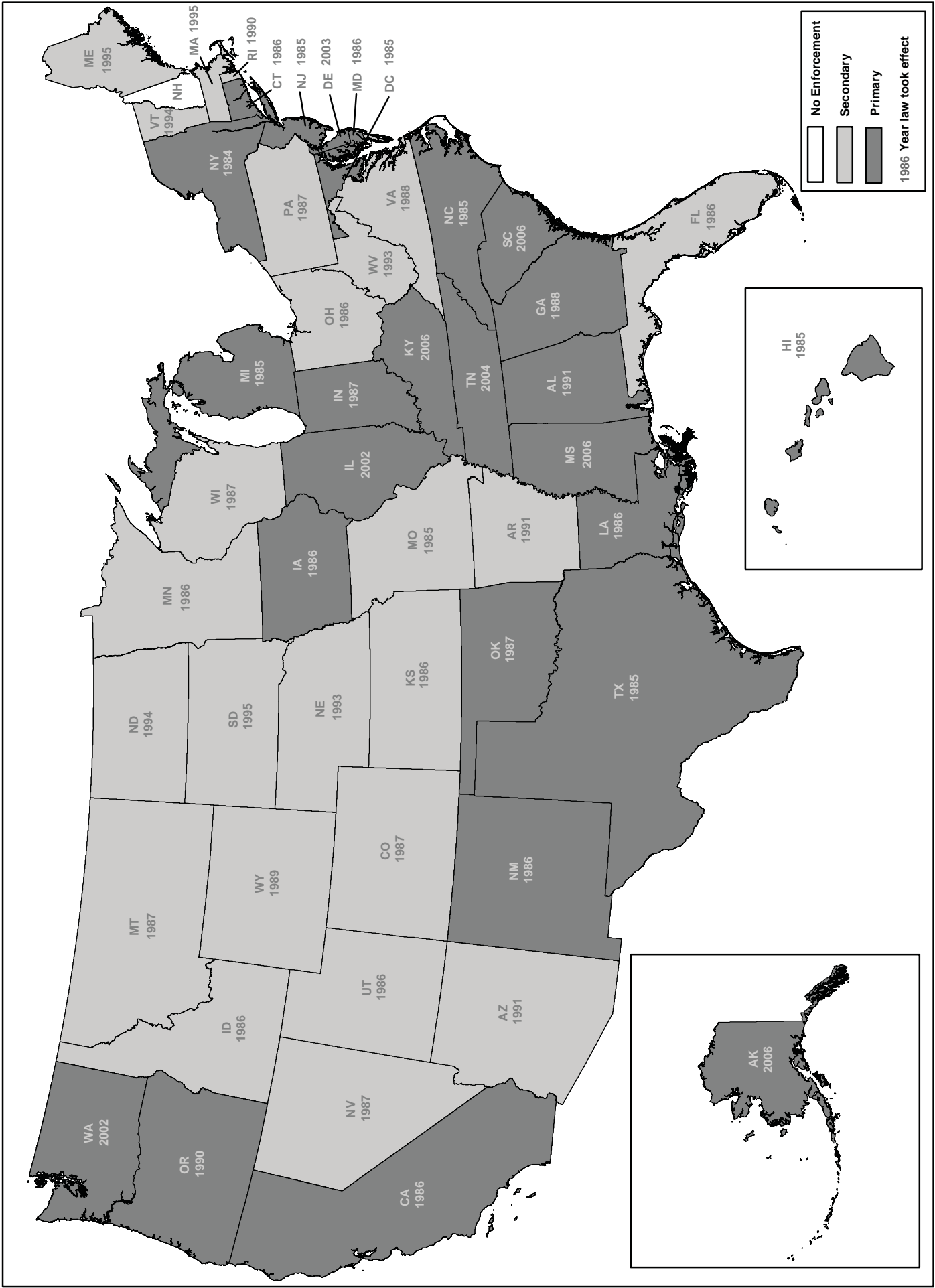
VESSEL CASUALTY (water): An occurrence involving commercial vessels that results in 1) actual physical damage to property in excess of \$25,000; 2) material damage affecting the seaworthiness or efficiency of a vessel; 3) stranding or grounding; 4) loss of life; or 5) injury causing any person to remain incapacitated for a period in excess of 72 hours, except injury to harbor workers not resulting in death and not resulting from vessel casualty or vessel equipment casualty.

VESSEL-CASUALTY-RELATED DEATH (water): Fatality that occurs as a result of an incident that involves a vessel or its equipment, such as a collision, fire, or explosion. Includes drowning deaths.

WATERBORNE TRANSPORTATION: Transport of freight and/or people by commercial vessels under U.S. Coast Guard jurisdiction.

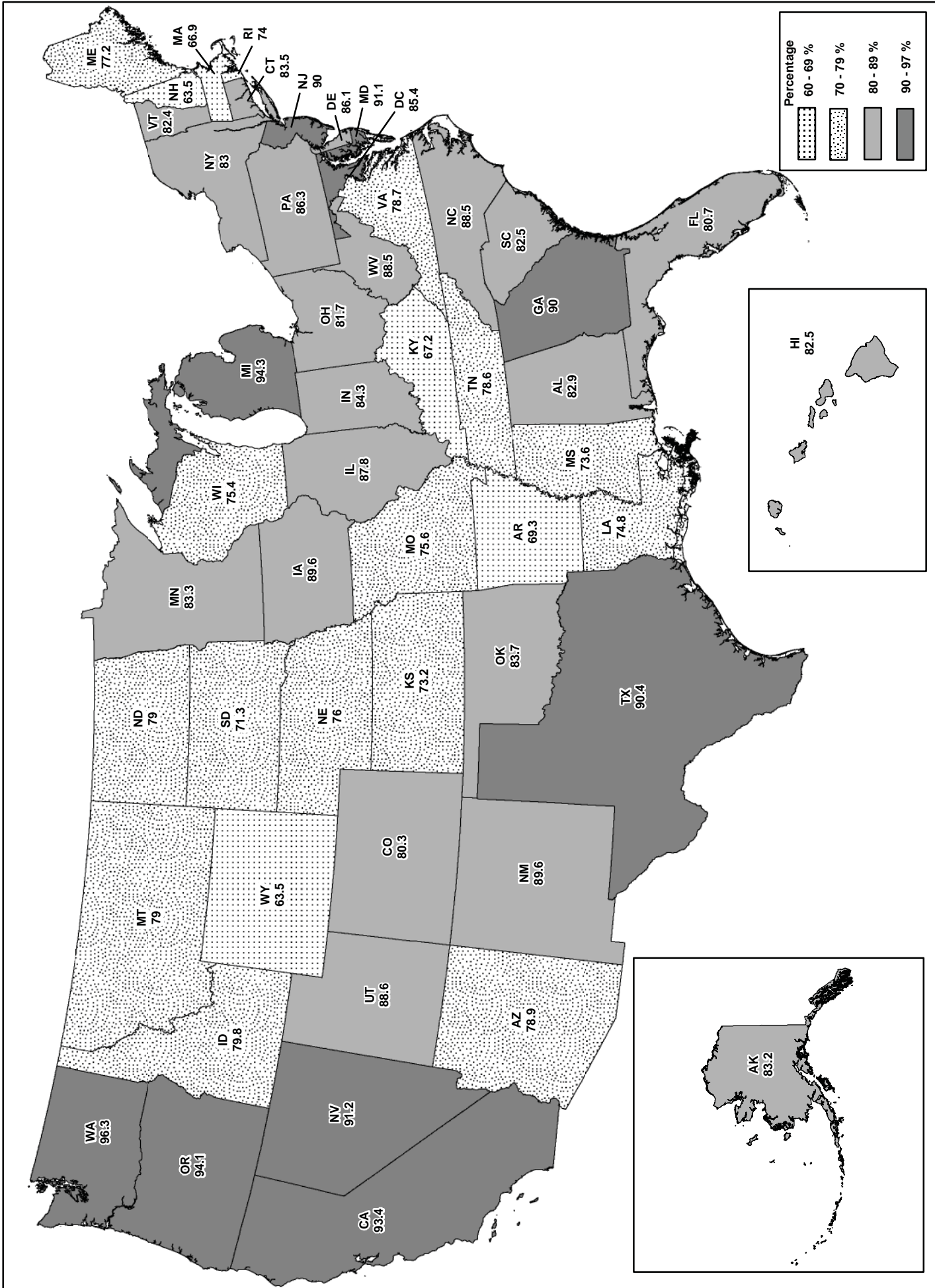
Maps

Safety Belt Laws by State: As of 2006



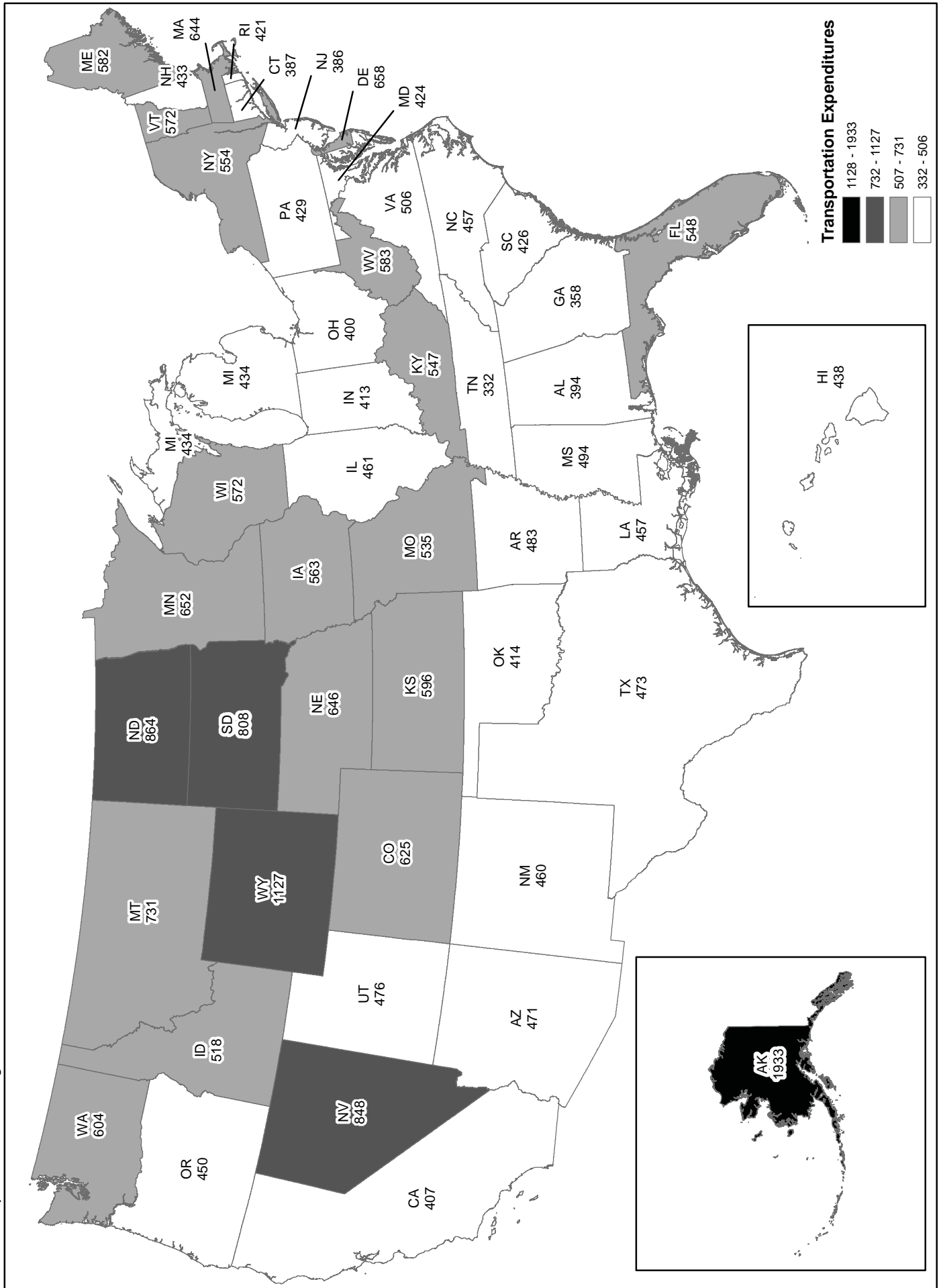
SOURCE: 1998-2005: U.S. Department of Transportation, National Highway Traffic Safety Administration, Traffic Safety Facts.

Safety Belt Use Rates: 2006



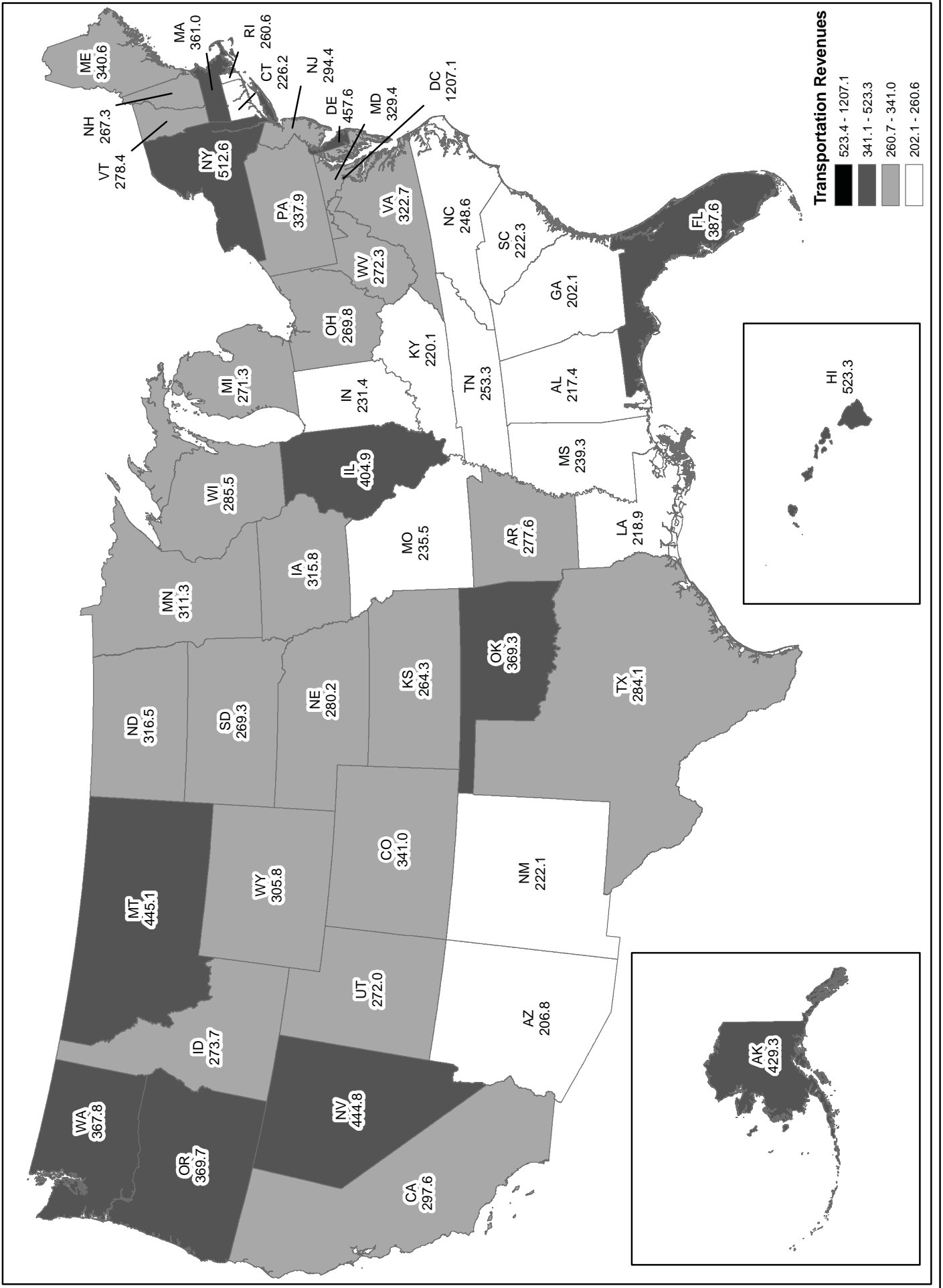
SOURCE: U.S. Department of Transportation, National Highway Traffic Safety Administration, Traffic Safety Facts.

Per Capita State & Local Total Transportation Expenditures: FY 2004



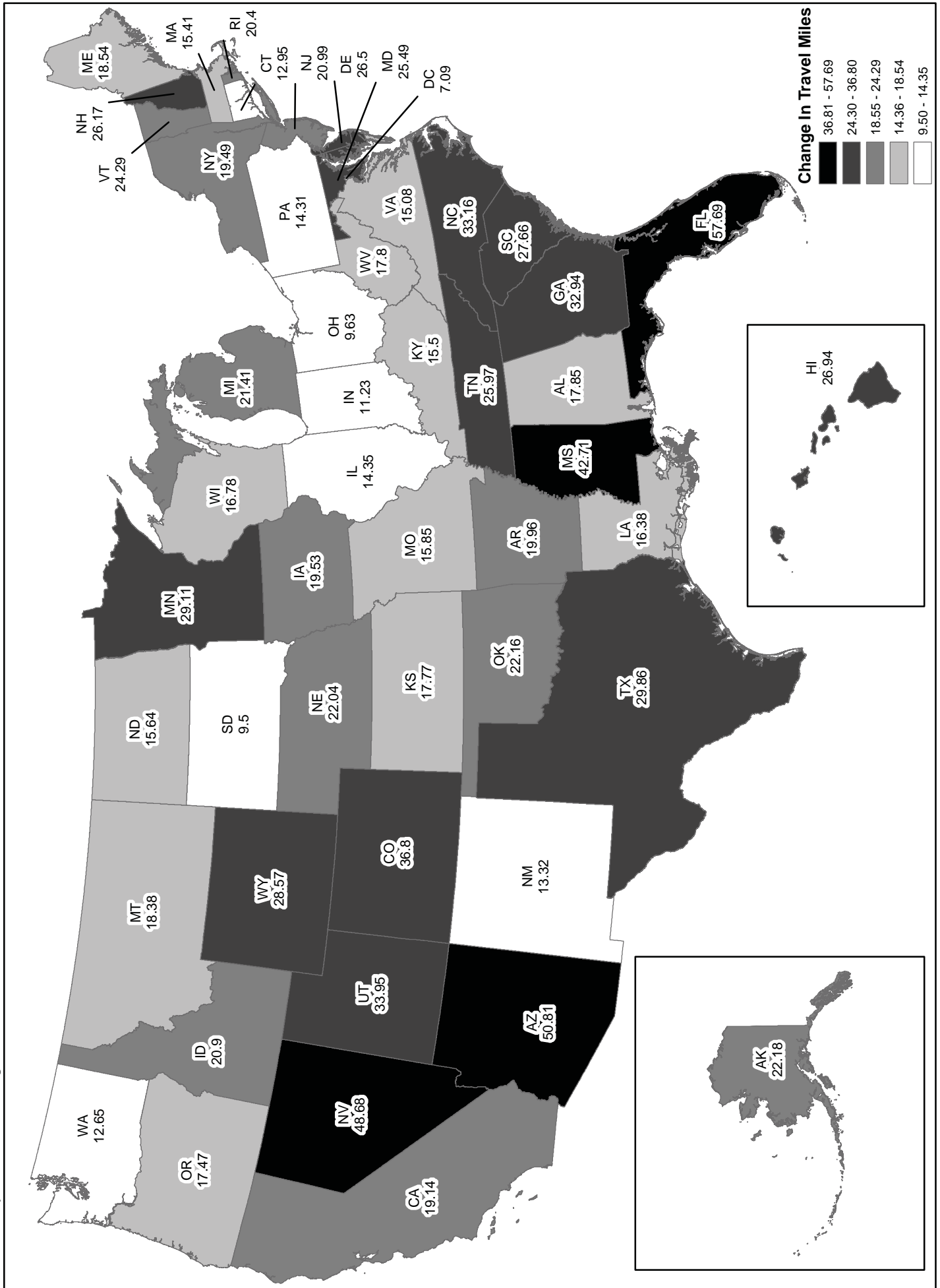
NOTE: Expenditures are in current dollars.
SOURCE: Calculated based on data from the U.S. Department of Commerce, Bureau of the Census, State and Local Government Finance Estimates, and State Population Estimates.

Per Capita State & Local Total Transportation Revenues: FY 2004



NOTE: Expenditures are in current dollars.
SOURCE: Calculated based on data from the U.S. Department of Commerce, Bureau of the Census, State and Local Government Finance Estimates, and State Population Estimates.

Percent Change in Vehicle Miles of Travel: 1995 - 2005



SOURCE: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (Washington, DC: Annual issues).

Appendix B: Social and Economic Characteristics of the United States

| | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2006 |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Total U.S. Resident Population (thousands) | 227,225 | 237,924 | 249,623 | 266,278 | 282,193 | 296,410 | 299,398 |
| Population by age (thousands) | | | | | | | |
| Under 18 | 63,754 | 62,623 | 63,949 | 69,465 | 72,307 | 73,470 | 73,736 |
| 18-24 years | 30,022 | 28,902 | 26,961 | 25,482 | 27,141 | 29,307 | 29,455 |
| 25-34 years | 37,082 | 41,696 | 43,174 | 45,052 | 39,895 | 40,143 | 40,416 |
| 35-44 years | 25,634 | 31,691 | 37,444 | 42,711 | 45,150 | 43,863 | 43,667 |
| 45-54 years | 22,800 | 22,460 | 25,062 | 31,480 | 37,674 | 42,483 | 43,278 |
| 55-64 years | 21,703 | 22,135 | 21,116 | 21,320 | 24,273 | 30,356 | 31,587 |
| 65 and over | 25,550 | 28,415 | 31,084 | 33,769 | 34,992 | 36,790 | 37,260 |
| Population by sex (thousands) | | | | | | | |
| Male | 110,053 | 115,730 | 121,284 | 130,215 | 138,056 | 146,000 | 147,512 |
| Female | 116,493 | 122,194 | 127,507 | 136,063 | 143,368 | 150,411 | 151,886 |
| Population in Metropolitan areas (millions) | | | | | | | |
| Large (over 1 million) | 119 | U | 139 | 147 | 149 | 160 | 161 |
| Medium (250,000-999,999) | 41 | U | 41 | 44 | 56 | 59 | 60 |
| Small (less than 250,000) | 17 | U | 18 | 19 | 28 | 28 | 28 |
| Population in Regions (millions) | | | | | | | |
| Northeast | 49.1 | 49.9 | 50.8 | 52.3 | 53.6 | 54.6 | 54.7 |
| South | 75.4 | 81.4 | 85.5 | 93.2 | 100.2 | 107.5 | 109.1 |
| Midwest | 58.9 | 58.8 | 59.7 | 62.5 | 64.4 | 66.0 | 66.2 |
| West | 43.2 | 47.8 | 52.8 | 58.3 | 63.2 | 68.3 | 69.4 |
| Immigrants admitted (thousands) | 531 | 570 | 1,536 | 720 | 841 | 1,122 | 1,204 |
| Gross domestic product (billions of chained \$ 2000) | 5,162 | 6,054 | 7,113 | 8,032 | 9,817 | 11,003 | 11,319 |
| Civilian labor force (thousands) | 106,940 | 115,461 | 125,840 | 132,304 | 142,583 | 149,320 | 151,428 |
| Participation rate of men (%) | 77.4 | 76.3 | 76.4 | 75.0 | 74.8 | 73.3 | 73.5 |
| Participation rate of women (%) | 51.5 | 54.5 | 57.5 | 58.9 | 59.9 | 59.3 | 59.4 |
| Unemployment rate (% of labor force) | 7.1 | 7.2 | 5.6 | 5.6 | 4.0 | 5.1 | 4.6 |
| Households (thousands) | 80,776 | 86,789 | 93,347 | 98,990 | 104,705 | 114,384 | 116,011 |
| Average size of households | 2.76 | 2.69 | 2.63 | 2.65 | 2.62 | 2.57 | 2.57 |
| Median household income (constant \$ 2006) | 41,258 | 42,205 | 44,778 | 44,764 | 49,163 | 47,845 | 48,201 |
| Average household expenditures (constant \$ 2004) | U | 44,011 | 43,777 | 42,680 | 44,540 | 47,906 | 48,398 |

Appendix B Social and Economic Characteristics of the United States (continued)

KEY: U = Data are unavailable.

NOTES: *Resident population* estimates are as of July 1 except 1980, 1990, and 2000, which are as of April 1. New *metropolitan* area definitions were published by the Office of Budget and Management (OMB) in 2003. These definitions were applied to population data by the Census Bureau beginning with the data from the 2000 Census. A new term, core based statistical areas (CBSAs), collectively refers to metropolitan and micropolitan statistical areas. A metropolitan statistical area is defined as having at least one urbanized area of 50,000 or more inhabitants. A micropolitan statistical area is defined as having at least one urban cluster of more than 10,000 but less than 50,000 inhabitants.

Number of immigrants is based on fiscal year data ending September 30.

Median household income and *average household expenditures* were converted to constant 2006 dollars using the consumer price index.

SOURCES:1980-2006: U.S. resident population—U.S. Census Bureau, *Statistical Abstract of the United States 2007* (Washington, DC: 2007), table 2. **Population by age, Population by sex**—U.S. Census Bureau, *Statistical Abstract of the United States* (Washington, DC: various years), table 11. **Population by metropolitan area**—U.S. Census Bureau, Population Division, *Annual Estimates of the Population of Metropolitan and Micropolitan Statistical Areas* (Washington, DC: April 2007), table 1, available at <http://www.census.gov/population/www/estimates/CBSA-est2006-annual.html> as of April 4, 2007. **Population in regions**—U.S. Census Bureau, *Statistical Abstract of the United States 2007* (Washington, DC: 2007), table 17. **Number of immigrants admitted**—U.S. Census Bureau, *Statistical Abstract of the United States* (Washington, DC: various years), table 5.

2006: U.S. resident population; population by age, sex, region, and metropolitan area; and number of immigrants admitted: U.S. Census Bureau, *Population Estimates, National*, available at <http://www.census.gov/popest/estimates.php> as of Nov. 2007.

Gross Domestic Product—U.S. Department of Commerce, Bureau of Economic Analysis, *NIPA Tables*, table 1.1.6, available at <http://www.bea.gov/national/nipaweb/SelectTable.asp?Selected=N> as of Nov. 2007.

Civilian Labor Force, Unemployment Rate, Participation of Men and Women—U.S. Department of Labor, Bureau of Labor Statistics, *Current Population Survey, Historical Data*, Table A-1 and Table AA-7, available at <http://www.bls.gov/cps/cpsatabs.htm> as of Nov. 2007.

Number of households, Average size of households—U.S. Department of Commerce, Bureau of the Census, *Families and Living Arrangements, Detailed Tables*, Table AVG-1, available at <http://www.census.gov/population/www/socdemo/hh-fam.html> as of Nov. 2007.

Median household income—U.S. Department of Labor, Bureau of the Census, *Historical Income Data*, Table H-5, available at <http://www.census.gov/hhes/www/income/income.html> as of Nov., 2007.

Average household expenditures—U.S. Department of Labor, Bureau of Labor Statistics, *Consumer Expenditure Survey, Average Annual Expenditures, All Consumer Units*, available at <http://www.bls.gov/data/home.htm> as of Nov. 2007.

