

## Transportation

This section presents data on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo, and vessel tonnages.

This section also presents statistics on revenues, passenger and freight traffic volume, and employment in various revenue-producing modes of the transportation industry, including motor vehicles, trains, and pipelines. Data are also presented on highway mileage and finances, motor vehicle travel, accidents, and registrations; and characteristics of public transit, railroads, and pipelines.

Principal sources of air and water transportation data are the annual *National Transportation Statistics*, issued by the U.S. Bureau of Transportation Statistics; the *Annual Report* issued by the Air Transport Association of America, Washington, DC; and the annual *Waterborne Commerce of the United States* issued by the Corps of Engineers of the Department of the Army. In addition, the U.S. Census Bureau in its commodity transportation survey (part of the census of transportation, taken every 5 years through 1997, for years ending in "2" and "7") provides data on the type, weight, and value of commodities shipped by manufacturing establishments in the United States, by means of transportation, origin, and destination. The latest complete reports for 1997 are part of the 1997 Economic Census. See text, Section 15, Business Enterprise, for a discussion of the 1997 Economic Census.

Additional sources of data on water transportation include *Merchant Fleets of the World*, issued periodically by the U.S. Maritime Administration; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York, NY; and the annual *World Fleet Statistics*.

The principal compiler of data on public roads and on operation of motor vehicles is the U.S. Department of Transportation's (DOT) Federal Highway Administration (FHWA). These data appear in FHWA's annual *Highway Statistics* and other publications.

The U.S. National Highway Traffic Safety Administration issues data on traffic accident deaths and death rates in two annual reports: the *Fact Book* and the *Fatal Accident Reporting System Annual Report*. DOT's Federal Railroad Administration presents data on accidents involving railroads in its annual *Accident/Incident Bulletin*, and the *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*.

The data for the truck transportation component of the 1997 Economic Census are presented in the *Truck Inventory and Use Survey*.

Data are also presented in many nongovernment publications. Among them are the weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, DC; *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, DC.; *Accident Facts*, issued by the National Safety Council, Chicago, IL; and *Transportation in America*, issued by the Eno Foundation for Transportation, Westport, Connecticut.

**Civil aviation**—Federal promotion and regulation of civil aviation have been carried out by the FAA and the Civil Aeronautics Board (CAB). The CAB promoted and regulated the civil air transportation industry within the United States and between the United States and foreign countries. The Board granted licenses to provide air transportation service, approved or disapproved proposed rates and fares, and approved or disapproved

proposed agreements and corporate relationships involving air carriers. In December 1984, the CAB ceased to exist as an agency. Some of its functions were transferred to the Department of Transportation (DOT), as outlined below. The responsibility for investigation of aviation accidents resides with the National Transportation Safety Board.

The Office of the Secretary, DOT aviation activities include: negotiation of international air transportation rights, selection of U.S. air carriers to serve capacity controlled international markets, oversight of international rates and fares, maintenance of essential air service to small communities, and consumer affairs. DOT's Bureau of Transportation Statistics (BTS) handles aviation information functions formerly assigned to CAB. Prior to BTS, the Research and Special Programs Administration handled these functions.

The principal activities of the FAA include: the promotion of air safety; controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment; and the development of general aviation.

The CAB published monthly and quarterly financial and traffic statistical data for the certificated route air carriers. BTS continues these publications, including both certificated and noncertificated (commuter) air carriers. The FAA publishes annually data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the volume of activity in the field of nonair carrier (general aviation) flying; and aircraft production and registration.

General aviation comprises all civil flying (including such commercial operations as small demand air taxis, agriculture application, powerline patrol, etc.) but excludes certificated route air carriers, supplemental operators, large-aircraft commercial operators, and commuter airlines.

**Air carriers and service**—The CAB previously issued “certificates of public convenience and necessity” under Section 401 of the Federal Aviation Act of 1958 for scheduled and nonscheduled (charter) passenger services and cargo services. It also issued certificates under Section 418 of the Act to cargo air carriers for domestic all-cargo service only. The DOT Office of the Secretary now issues the certificates under a “fit, willing, and able” test of air carrier operations. Carriers operating only a 60-seat-or-less aircraft are given exemption authority to carry passengers, cargo, and mail in scheduled and nonscheduled service under Part 298 of the DOT (formerly CAB) regulations. Exemption authority carriers who offer scheduled passenger service to an essential air service point must meet the “fit, willing, and able” test.

**Vessel shipments, entrances, and clearances**—Shipments by dry cargo vessels comprise shipments on all types of watercraft, except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered only at the first port which it enters in the United States, whether or not cargo is unloaded at that port. A vessel is reported as cleared only at the last port at which clearance is made to a foreign port, whether or not it takes on cargo. Army and Navy vessels entering or clearing without commercial cargo are not included in the figures.

**Units of measurement**—Cargo (or freight) tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. However, shipping weight excludes lift and cargo vans and similar substantial outer containers. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery,

fuel, crew quarters, master's cabin, and navigation spaces. Substantially, it represents space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Deadweight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is, therefore, the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

**Federal-aid highway systems**—The Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 eliminated the historical Federal-Aid Highway Systems and created the National Highway System (NHS) and other federal-aid highway categories. The final NHS was approved by Congress in December of 1995 under the National Highway System Designation Act.

**Functional systems**—Roads and streets are assigned to groups according to the character of service intended. The functional systems are (1) arterial highways that generally handle the long trips, (2) collector facilities that collect and disperse traffic between the arterials and the lower systems, and (3) local roads and streets that primarily serve direct access to residential areas, farms, and other local areas.

**Regulatory bodies**—The ICC, created by the U.S. Congress to regulate transportation in interstate commerce, has jurisdiction over railroads, trucking companies, bus lines, freight forwarders, water carriers, coal slurry pipelines, and transportation brokers. The Federal Energy Regulatory Commission is responsible for setting rates and charges for transportation and sale of natural gas and for establishing rates or charges for transportation.

**Motor carriers**—For 1960-73, Class I for-hire motor carriers of freight were classified by the ICC as those with \$1 million or more of gross annual operating revenue; 1974-79, the class minimum was \$3 million. Effective January 1, 1980, Class I carriers are those with \$5 million or more in revenue. For 1960-68, Class I motor carriers of passengers were classified by the

ICC as those with \$200,000 or more of gross annual operating revenue; for 1969-76, as those with revenues of \$1 million or more; and since 1977, as those with \$3 million or more. Effective January 1, 1988, Class I motor carriers of passengers are those with \$5 million or more in operating revenues; Class II less than \$5 million in operating revenues.

**Railroads**—Railroad companies reporting to the ICC are divided into specific groups as follows: (1) Regular line-haul (interstate) railroads (and their nonoperating subsidiaries), (2) switching and terminal railroads, (3) private railroads prior to 1964 (identified by ICC as "circular" because they reported on brief circulars), and (4) unofficial railroads, so designated when their reports are received too late for tabulation. For the most part, the last three groups are not included in the statistics shown here.

For years prior to 1978, Class I railroads were those with annual revenues of \$1 million or more for 1950-55; \$3 million or more for 1956-64; \$5 million or more for 1965-75; and \$10 million or more for 1976-77. In 1978, the classification became Class I, those having more than \$50 million gross annual operating revenue; Class II, from \$10 million to \$50 million+; and Class III, less than \$10 million. Effective January 1, 1982, the ICC adopted a procedure to adjust the threshold for inflation by restating current revenues in constant 1978 dollars. In 1988, the criteria for Class I and Class II railroads were \$92.0 million and \$18.4 million, respectively. Also effective January 1, 1982, the ICC adopted a Carrier Classification Index Survey Form for carriers not filing annual report Form R-1 with the commission. Class II and Class III railroads are currently exempted from filing any financial report with the Commission. The form is used for reclassifying carriers.

The Surface Transportation Board (STB) was established pursuant to the ICC Termination Act of 1995, Pub. L. No. 104-88, 109 Stat. 803 (1995) (ICCTA), to assume certain of the regulatory functions that had been administered by the Interstate Commerce Commission. The Board has broad economic regulatory oversight of railroads, addressing such matters as rate

reasonableness, car service and interchange, mergers and line acquisitions, line construction, and line abandonments. 49 U.S.C. 10101-11908. Other ICC regulatory functions were either eliminated or transferred to the Federal Highway Administration or the Bureau of Transportation Statistics within DOT.

Class I Railroads are regulated by the STB and subject to the Uniform System of Accounts and required to file annual and periodic reports. Railroads are classified based on their annual operating revenues. The class to which a carrier belongs is determined by comparing its adjusted operating revenues for 3 consecutive years to the following scale: Class I, \$250 million or more, Class II \$20 million to \$250 million, and Class III \$0 to 20 million.

**Postal Service**—The Postal Service provides mail processing and delivery services within the United States. The Postal Reorganization Act of 1970 created the Postal Service, effective July 1971, as an independent establishment of the Federal Executive Branch.

Revenue and cost analysis describes the Postal Service's system of attributing revenues and costs to classes of mail and service. This system draws primarily upon probability sampling techniques to develop estimates of revenues, volumes, and weights, as well as costs by class of mail and special service. The costs attributed to classes of mail and special services are primarily incremental costs which vary in response to changes in volume; they account for roughly 60 percent of the total costs of the Postal Service. The balance represents "institutional costs." Statistics on revenues, volume of mail, and distribution of expenditures are presented in the Postal Service's annual report, *Cost and Revenue Analysis*, and its *Annual Report of the Postmaster General* and its annual *Comprehensive Statement on Postal Operations*.

**Statistical reliability**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

## No. 1050. Transportation-Related Components of U.S. Gross Domestic Product: 1980 to 1999

[In billions dollars (349.4 represents \$349,400,000,000), except percent]

Item	1980	1985	1990	1995	1999
<b>CURRENT DOLLARS</b>					
<b>Total transportation-related final demand. . . . .</b>	<b>349.4</b>	<b>495.9</b>	<b>625.6</b>	<b>782.0</b>	<b>(NA)</b>
Total gross domestic product (GDP) . . . . .	2,795.6	4,213.0	5,803.2	7,400.5	9,256.1
Transportation-related final demand as a percent of GDP . . . . .	12.5	11.8	10.8	10.6	(NA)
Personal consumption of transportation . . . . .	238.4	372.9	463.2	560.3	694.9
Motor vehicles and parts . . . . .	87.0	175.7	210.3	249.3	316.1
Gasoline and oil . . . . .	86.7	97.2	109.2	113.3	123.8
Transportation services . . . . .	64.7	100.0	143.7	197.7	255.0
Gross private domestic investment . . . . .	52.1	74.0	78.5	130.5	197.1
Transportation structures . . . . .	3.7	4.3	3.0	4.4	(NA)
Transportation equipment . . . . .	48.4	69.7	75.5	126.1	197.1
Net exports of transportation-related goods and service . . . . .	-1.1	-34.7	-28.0	-43.3	-82.4
Exports (+) . . . . .	45.7	57.5	106.7	132.9	176.8
Civilian aircraft, engines, and parts . . . . .	14.1	13.5	32.2	26.1	53.4
Automotive vehicles, engines, and parts . . . . .	17.4	24.9	36.5	61.8	74.8
Passenger fares . . . . .	2.6	4.4	15.3	18.9	21.1
Other transportation . . . . .	11.6	14.7	22.7	26.1	27.5
Imports (-) . . . . .	46.8	92.2	134.7	176.2	259.2
Civilian aircraft, engines, and parts . . . . .	3.1	5.3	10.5	10.7	23.4
Automotive vehicles, engines, and parts . . . . .	28.3	64.9	88.5	123.8	180.1
Passenger fares . . . . .	3.6	6.4	10.5	14.7	21.5
Other transportation . . . . .	11.8	15.6	25.2	27.0	34.2
Government transportation-related purchases . . . . .	60.0	83.7	111.9	134.5	(NA)
Federal purchases . . . . .	7.0	10.0	12.9	16.3	(NA)
State and local purchases . . . . .	48.8	67.5	90.1	109.8	(NA)
Defense-related purchases . . . . .	4.2	6.2	8.9	8.4	9.0
Total domestic transportation-related final demand . . . . .	350.5	530.6	653.6	827.4	(NA)
Total gross domestic demand (GDD) . . . . .	2,810.5	4,327.2	5,874.6	7,484.7	9,510.0
Transportation-related final demand as a percent of GDP . . . . .	12.5	12.3	11.1	11.1	(NA)
<b>CHAINED 1996 DOLLARS</b>					
<b>Total transportation-related final demand. . . . .</b>	<b>543.0</b>	<b>592.1</b>	<b>719.6</b>	<b>797.4</b>	<b>(NA)</b>
Total gross domestic product (GDP) . . . . .	4,900.9	5,717.1	6,707.9	7,543.8	8,848.2
Transportation-related final demand as a percent of GDP . . . . .	11.1	10.4	10.7	10.6	(NA)
Personal consumption of transportation . . . . .	362.3	494.3	532.8	574.6	687.5
Motor vehicles and parts . . . . .	142.7	236.9	246.1	253.4	318.2
Gasoline and oil . . . . .	94.9	104.8	113.2	120.2	128.3
Transportation services . . . . .	124.7	152.6	173.5	201.0	241.0
Gross private domestic investment . . . . .	77.6	93.9	87.4	128.2	195.7
Transportation structures . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)
Transportation equipment . . . . .	77.6	93.9	87.4	128.2	195.7
Net exports of transportation-related goods and service . . . . .	-5.0	-56.1	-31.3	-43.1	-79.3
Exports (+) . . . . .	76.2	76.0	123.7	135.4	172.1
Civilian aircraft, engines, and parts . . . . .	26.9	19.5	40.9	27.2	49.9
Automotive vehicles, engines, and parts . . . . .	28.3	30.5	39.8	62.5	73.7
Passenger fares . . . . .	4.5	7.1	19.1	18.9	20.5
Other transportation . . . . .	16.5	18.9	23.9	26.8	28.0
Imports (-) . . . . .	81.2	132.1	155.0	178.5	251.4
Civilian aircraft, engines, and parts . . . . .	6.0	7.7	13.5	11.2	21.7
Automotive vehicles, engines, and parts . . . . .	52.5	95.8	101.6	124.6	178.3
Passenger fares . . . . .	5.5	9.3	12.7	14.9	19.5
Other transportation . . . . .	17.2	19.3	27.2	27.8	31.9
Government transportation-related purchases . . . . .	108.1	115.8	130.7	137.7	(NA)
Federal purchases . . . . .	12.5	14.0	15.7	16.6	(NA)
State and local purchases . . . . .	89.8	93.7	104.6	112.3	(NA)
Defense-related purchases . . . . .	5.8	8.1	10.4	8.7	8.7
Total domestic transportation-related final demand . . . . .	554.4	709.7	754.6	845.1	(NA)
Total gross domestic demand (GDD) . . . . .	4,890.9	5,866.2	6,764.4	7,622.2	9,171.3
Transportation-related final demand as a percent of GDP . . . . .	11.3	12.1	11.2	11.1	(NA)

NA Not available.

U.S. Bureau of Transportation Statistics, *National Transportation Statistics, 2000*.

## No. 1051. Passenger and Freight Transportation Outlays by Type of Transport: 1990 to 1999

[In billions of dollars (517.2 represents \$517,200,000,000). Freight data include outlays for mail and express]

Type of transport	1990	1992	1993	1994	1995	1996	1997	1998	1999
<b>Passenger:</b>									
Private transportation . . . . .	517.2	523.6	560.2	610.5	642.0	684.0	719.9	738.9	805.0
Automobiles <sup>1 2</sup> . . . . .	507.3	515.0	551.6	601.2	631.7	672.4	706.1	722.5	787.4
New and used cars . . . . .	148.1	141.2	153.2	172.2	169.6	174.6	178.0	183.7	200.2
Tires, tubes, accessories . . . . .	32.9	33.6	35.6	38.7	40.6	42.6	43.6	45.9	49.3
Gasoline and oil . . . . .	118.0	115.4	117.3	119.9	124.6	136.6	140.9	126.7	141.1
Insurance less claims . . . . .	19.9	28.3	29.7	30.6	32.7	35.0	39.9	41.8	43.0
Interest on debt . . . . .	28.2	25.7	28.0	29.3	38.0	39.1	40.3	37.8	40.6
Auto registration fees . . . . .	6.1	7.1	7.4	7.4	7.0	7.7	8.2	9.6	9.1
Operators' permit fees . . . . .	0.6	0.8	0.7	0.8	0.8	0.9	0.9	0.9	1.0
Repair, greasing, washing, parking, leasing, rentals <sup>3</sup> . . . . .	93.4	99.3	107.4	121.0	134.4	147.6	160.9	168.4	178.3
Air . . . . .	9.9	8.6	8.6	9.3	10.4	11.6	13.8	16.4	17.6
For-hire transportation . . . . .	124.8	103.2	104.7	107.2	117.2	115.8	126.9	128.6	132.0
Local <sup>2</sup> . . . . .	31.6	32.8	34.3	35.7	41.0	39.6	41.5	41.6	41.7
Bus and transit <sup>4</sup> . . . . .	16.7	18.0	18.8	20.1	21.6	21.3	21.9	21.4	21.7
School bus . . . . .	8.0	8.1	7.6	7.8	9.9	9.1	10.4	10.3	10.3
Taxi . . . . .	4.0	4.0	4.3	4.7	5.0	5.4	5.7	6.4	6.2
Railroad commutation . . . . .	2.8	2.7	3.5	3.1	4.5	3.8	3.5	3.5	3.5
Intercity . . . . .	53.1	53.1	52.8	54.9	57.8	57.6	65.9	68.1	71.1
Air . . . . .	49.5	49.2	49.3	50.5	54.0	53.9	61.8	64.0	67.0
Rail <sup>5</sup> . . . . .	1.8	1.9	1.8	1.8	2.2	2.1	2.3	2.2	2.1
Bus . . . . .	1.8	1.9	1.7	1.4	1.5	1.5	1.6	1.8	1.8
International . . . . .	14.9	17.3	17.6	17.7	18.4	18.5	19.5	18.9	19.2
<b>Freight, total</b> <sup>2</sup> . . . . .	350.9	375.1	396.6	420.3	442.4	467.2	494.9	528.8	561.8
Highway <sup>2</sup> . . . . .	270.8	292.9	311.9	330.7	348.1	368.5	396.7	427.2	456.8
Truck, intercity . . . . .	162.3	176.8	189.7	204.9	219.6	235.4	257.8	282.8	304.6
Truck, local . . . . .	108.4	116.0	122.1	125.7	128.4	133.0	138.7	144.3	152.1
Rail . . . . .	30.1	30.5	30.8	33.1	34.4	35.1	35.3	35.3	35.9
Water . . . . .	20.1	19.9	20.8	21.2	22.7	24.6	21.0	22.5	24.5
Oil pipeline . . . . .	8.5	8.5	8.5	8.7	9.1	8.6	8.6	8.6	9.1
Air carrier . . . . .	13.7	15.0	15.8	17.2	18.8	20.4	22.8	24.2	25.3

<sup>1</sup> Includes business-owned vehicles. <sup>2</sup> Includes items not shown separately. <sup>3</sup> Includes storage. <sup>4</sup> Includes federal, state, and local government operating subsidies and capital grants. <sup>5</sup> Includes federal operating subsidies and capital grants for Amtrak.

Source: Eno Transportation Foundation, Inc., Washington, D.C. *Transportation in America*, annual (copyright).

## No. 1052. Volume of Domestic Intercity Freight and Passenger Traffic by Type of Transport: 1980 to 1999

[2,487 represents 2,487,000,000,000. Freight traffic in bil. ton-miles; passenger traffic in bil. passenger-miles. A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. A passenger-mile is the movement of one passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. ICC=Interstate Commerce Commission]

Type of transport	1980	1985	1990	1992	1993	1994	1995	1996	1997	1998	1999
<b>Freight traffic, total</b> . . . . .	<b>2,487</b>	<b>2,458</b>	<b>2,896</b>	<b>3,023</b>	<b>3,105</b>	<b>3,261</b>	<b>3,407</b>	<b>3,516</b>	<b>3,534</b>	<b>3,591</b>	<b>3,715</b>
Railroads . . . . .	932	895	1,091	1,138	1,183	1,275	1,375	1,426	1,421	1,442	1,499
Truck:											
ICC truck . . . . .	242	250	311	342	365	391	401	428	436	459	499
Non-ICC truck . . . . .	313	360	424	473	496	517	520	544	560	568	594
Water:											
Rivers/canals . . . . .	311	306	390	393	373	388	406	408	413	(NA)	(NA)
Great Lakes . . . . .	96	76	85	77	83	87	91	93	95	96	95
Oil pipelines . . . . .	588	564	584	589	593	591	601	619	617	620	623
Domestic airways <sup>1</sup> . . . . .	5	7	10	11	12	12	13	14	14	14	14
<b>Passenger traffic, total</b> . . . . .	<b>1,468</b>	<b>1,636</b>	<b>1,847</b>	<b>1,946</b>	<b>1,985</b>	<b>2,065</b>	<b>2,098</b>	<b>2,182</b>	<b>2,247</b>	<b>2,328</b>	<b>2,400</b>
Private automobiles . . . . .	1,210	1,310	1,452	1,544	1,575	1,625	1,641	1,693	1,740	1,806	1,850
Domestic airways <sup>2</sup> . . . . .	15	12	13	11	10	10	11	12	13	13	14
Air, public carrier . . . . .	204	278	346	354	362	388	404	435	453	(NA)	(NA)
Bus <sup>3</sup> . . . . .	27	24	23	23	25	28	28	29	31	32	35
Railroads <sup>4</sup> . . . . .	11	11	13	14	13	14	14	13	13	14	14

NA Not available. <sup>1</sup> Revenue service only for scheduled and nonscheduled carriers, with small Section 418 all-cargo carriers included from 1980. Includes express mail, and excess baggage. <sup>2</sup> Includes general aviation (mostly private business) flying. <sup>3</sup> Excludes school and urban transit buses. <sup>4</sup> Includes intercity (Amtrak) and rail commuter service.

Source: Eno Transportation Foundation, Inc., Washington, DC, *Transportation in America*, annual (copyright).

## No. 1053. Transportation and Warehousing—Establishments, Employees, and Payroll by Kind of Business (NAICS Basis): 1998 and 1999

[For establishments with payroll (3,462.5 represents 3,462,500). See Appendix III. County Business Patterns excludes rail transportation (NAICS 482) and the National Postal Service (NAICS 491)]

Industry	NAICS code <sup>1</sup>	Establishments		Paid employees <sup>2</sup> (1,000)		Annual payroll (mil. dol.)	
		1998	1999	1998	1999	1998	1999
<b>Transportation &amp; warehousing . . . . .</b>	<b>48,49</b>	<b>186,162</b>	<b>187,339</b>	<b>3,462.5</b>	<b>3,627.1</b>	<b>108,592.0</b>	<b>116,682.2</b>
Air transportation . . . . .	481	5,347	5,285	560.0	582.8	22,591.2	24,414.4
Scheduled air transportation . . . . .	4811	3,376	3,237	520.8	540.0	20,917.3	22,506.2
Scheduled passenger air transportation . . . . .	481111	2,827	2,698	490.0	506.1	19,985.5	21,434.4
Scheduled freight air transportation . . . . .	481112	549	539	30.7	33.9	931.9	1,071.8
Nonscheduled air transportation . . . . .	4812	1,971	2,048	39.3	42.8	1,673.9	1,908.2
Water transportation . . . . .	483	1,908	1,950	72.8	71.8	3,103.7	3,039.5
Deep sea, coastal, & Great Lakes water transportation . . . . .	4831	1,271	1,307	54.7	52.5	2,383.3	2,312.4
Inland water transportation . . . . .	4832	637	643	18.1	19.3	720.4	727.1
Inland water freight transportation . . . . .	483211	386	396	15.1	15.9	622.5	626.4
Inland water passenger transportation . . . . .	483212	251	247	3.0	3.4	98.0	100.7
Truck transportation . . . . .	484	107,868	108,749	1,327.1	1,384.2	41,015.5	43,626.2
General freight trucking . . . . .	4841	49,793	52,724	840.2	897.6	27,247.8	29,343.4
General freight trucking, local . . . . .	48411	17,489	18,737	136.0	141.6	3,866.1	4,087.5
General freight trucking, long distance . . . . .	48412	32,304	33,987	704.2	756.0	23,381.8	25,256.0
Specialized freight trucking . . . . .	4842	58,075	56,025	486.9	486.6	13,767.7	14,282.7
Used household & office goods moving . . . . .	48421	9,276	9,219	124.0	127.0	3,273.2	3,453.7
Specialized freight (except used goods) trucking, local . . . . .	48422	34,714	33,459	195.0	197.5	5,181.2	5,457.2
Specialized freight (except used goods) trucking, long-distance . . . . .	48423	14,085	13,347	167.9	162.1	5,313.3	5,371.9
Transit & ground passenger transportation . . . . .	485	16,334	16,254	349.3	370.0	6,016.8	6,729.3
Urban transit systems . . . . .	4851	615	723	32.1	40.1	981.4	1,226.1
Mixed mode systems . . . . .	485111	45	163	1.2	6.1	32.4	144.7
Commuter rail . . . . .	485112	18	13	(D)	(D)	(D)	(D)
Bus and other motor vehicle mode systems . . . . .	485113	526	520	26.4	29.3	740.5	853.7
Other . . . . .	485119	26	27	(D)	(D)	(D)	(D)
Interurban & rural bus transportation . . . . .	4852	415	440	20.4	21.8	650.8	654.4
Taxi & limousine service . . . . .	4853	6,619	6,605	20.5	63.4	1,017.9	1,132.2
Taxi service . . . . .	48531	3,191	3,102	27.6	28.6	412.5	459.3
Limousine service . . . . .	48532	3,428	3,503	32.9	34.8	605.4	671.9
School & employee bus transportation . . . . .	4854	4,400	4,341	152.6	161.9	1,950.9	2,178.7
Charter bus industry . . . . .	4855	1,531	1,480	32.3	33.6	594.4	651.4
Other transit & ground passenger transportation . . . . .	4859	2,754	2,665	48.4	49.2	821.4	887.5
Special needs transportation . . . . .	485991	1,906	1,860	32.0	33.4	536.0	585.8
Pipeline transportation . . . . .	486	2,495	2,550	49.4	48.1	2,847.8	3,032.7
Pipeline transportation of crude oil . . . . .	4861	358	327	7.3	7.1	442.0	453.4
Pipeline transportation of natural gas . . . . .	4862	1,561	1,683	35.1	34.5	1,993.8	2,205.4
Other pipeline transportation . . . . .	4869	576	540	7.0	6.5	412.0	373.9
Scenic & sightseeing transportation . . . . .	487	2,353	2,267	23.1	22.9	512.0	540.7
Scenic & sightseeing transportation, land . . . . .	4871	472	458	9.0	8.7	187.0	188.3
Scenic & sightseeing transportation, water . . . . .	4872	1,718	1,649	12.3	12.3	273.7	295.5
Scenic & sightseeing transportation, other . . . . .	4879	163	160	1.7	1.9	51.3	56.9
Support activities for transportation . . . . .	488	31,441	31,392	421.7	440.2	13,840.8	14,915.6
Support activities for air transportation . . . . .	4881	4,348	4,305	114.7	118.8	3,076.3	3,454.2
Airport operations . . . . .	48811	1,823	1,834	60.3	62.9	1,215.7	1,431.1
Air traffic control . . . . .	488111	127	135	0.7	0.7	24.8	27.3
Other support activities for air transportation . . . . .	48819	2,525	2,471	54.5	55.9	1,860.6	2,023.1
Support activities for rail transportation . . . . .	4882	821	837	18.7	21.0	572.5	672.5
Support activities for water transportation . . . . .	4883	2,683	2,593	72.5	71.4	3,023.6	2,993.3
Port and harbor operations . . . . .	48831	196	199	7.5	7.4	277.7	264.7
Marine cargo handling . . . . .	48832	619	601	45.0	43.8	2,029.9	2,016.1
Navigational services to shipping . . . . .	48833	906	891	11.5	11.4	429.6	430.1
Other . . . . .	48839	962	902	8.5	8.8	286.4	284.5
Support activities for road transportation . . . . .	4884	6,745	6,943	46.7	50.5	1,041.1	1,148.7
Motor vehicle towing . . . . .	48841	6,040	6,145	37.3	39.9	808.9	878.7
Freight transportation arrangement . . . . .	4885	15,798	15,464	148.4	157.5	5,445.7	5,885.9
Other support activities for transportation . . . . .	4889	1,046	1,250	20.7	20.8	681.6	759.1
Couriers & messengers . . . . .	492	11,704	11,938	539.6	578.4	15,291.6	16,726.0
Couriers . . . . .	4921	6,085	6,309	469.0	508.6	13,928.0	15,289.5
Local messengers & local delivery . . . . .	4922	5,619	5,629	70.6	69.8	1,363.5	1,436.5
Warehousing & storage . . . . .	493	6,712	6,954	119.5	128.6	3,372.5	3,657.9

D Figure withheld to avoid disclosure pertaining to individual companies. <sup>1</sup> North American Industry Classification System, 1997; see text, Section 15, Business Enterprise.

Source: U.S. Census Bureau, *County Business Patterns*, annual.

## No. 1054. Transportation and Warehousing—Establishments, Revenue, Payroll, and Employees by Kind of Business (NAICS Basis): 1997

[318,245 represents \$318,245,000,000. For establishments with payroll. Based on the 1997 Economic Census; see Appendix III]

Industry	NAICS code <sup>1</sup>	Establishments (number)	Revenue		Annual payroll		Paid employee for pay period including March 12 (1,000)
			Total (mil. dol.)	Per paid employee (dol.)	Total (mil. dol.)	Per paid employee (dol.)	
<b>Transportation &amp; warehousing <sup>2 3</sup> . . . . .</b>	<b>48,49</b>	<b>178,025</b>	<b>318,245</b>	<b>108,959</b>	<b>82,346</b>	<b>28,193</b>	<b>2,920.8</b>
Air transportation <sup>2</sup> . . . . .	481	3,598	20,249	227,198	2,748	30,834	89.1
Scheduled air transportation <sup>2</sup> . . . . .	4811	1,798	16,285	246,786	1,921	29,110	66.0
Nonscheduled air transportation . . . . .	4812	1,800	3,964	171,332	827	35,750	23.1
Water transportation . . . . .	483	1,921	24,019	329,676	2,834	38,900	72.9
Deep sea, coastal, & Great Lakes water transportation . . . . .	4831	1,308	20,339	374,565	2,198	40,472	54.3
Inland water transportation . . . . .	4832	613	3,680	198,323	637	34,300	18.6
Truck transportation. . . . .	484	103,798	141,225	109,156	38,471	29,735	1,293.8
General freight trucking . . . . .	4841	44,781	88,426	107,901	25,722	31,387	819.5
Specialized freight trucking . . . . .	4842	59,017	52,800	111,326	12,749	26,881	474.3
Transit & ground passenger transportation. . . . .	485	16,013	13,792	40,616	5,549	16,342	339.6
Urban transit systems. . . . .	4851	618	1,519	46,096	973	29,542	32.9
Interurban & rural bus transportation . . . . .	4852	407	1,147	57,660	550	27,624	19.9
Taxi & limousine service . . . . .	4853	6,418	3,155	55,070	881	15,374	57.3
School & employee bus transportation. . . . .	4854	4,484	4,393	28,964	1,878	12,382	151.7
Charter bus industry. . . . .	4855	1,531	1,768	56,164	548	17,407	31.5
Other transit & ground passenger transportation . . . . .	4859	2,555	1,811	39,107	720	15,547	46.3
Pipeline transportation . . . . .	486	2,311	26,837	544,582	2,661	53,989	49.3
Pipeline transportation of crude oil . . . . .	4861	382	4,365	548,311	480	60,240	8.0
Pipeline transportation of natural gas . . . . .	4862	1,450	19,627	548,404	1,871	52,277	35.8
Other pipeline transportation . . . . .	4869	479	2,846	514,483	310	56,069	5.5
Scenic & sightseeing transportation . . . . .	487	2,325	1,893	79,200	492	20,600	23.9
Scenic & sightseeing transportation, land. . . . .	4871	454	558	67,777	170	20,619	8.2
Scenic & sightseeing transportation, water. . . . .	4872	1,692	1,129	79,565	283	19,940	14.2
Scenic & sightseeing transportation, other . . . . .	4879	179	207	138,604	40	26,757	1.5
Support activities for transportation . . . . .	488	30,675	39,758	96,585	12,592	30,591	411.6
Support activities for air transportation. . . . .	4881	4,231	9,153	79,279	2,820	24,425	115.5
Support activities for rail transportation . . . . .	4882	816	2,067	109,555	515	27,276	18.9
Support activities for water transportation. . . . .	4883	2,525	7,515	103,681	2,763	38,125	72.5
Support activities for road transportation . . . . .	4884	6,424	2,683	60,535	901	20,327	44.3
Freight transportation arrangement . . . . .	4885	15,782	16,251	114,856	5,015	35,442	141.5
Other support activities for transportation . . . . .	4889	897	2,090	109,826	579	30,427	19.0
Couriers & messengers . . . . .	492	10,887	39,812	74,999	14,072	26,508	530.8
Couriers. . . . .	4921	5,503	36,293	78,315	12,830	27,685	463.4
Local messengers & local delivery . . . . .	4922	5,384	3,519	52,202	1,242	18,420	67.4
Warehousing & storage . . . . .	493	6,497	10,658	97,102	2,926	26,659	109.8

<sup>1</sup> North American Industry Classification System, 1997; see text, Section 15, Business Enterprise. <sup>2</sup> Data do not include large certificated passenger carriers that report to the Office of Airline Statistics, U.S. Department of Transportation. <sup>3</sup> Railroad transportation and U.S. Postal Service are out of scope for the 1997 Economic Census.

Source: U.S. Census Bureau, 1997 Economic Census, Transportation & Warehousing, Series EC97T48A-US, issued January 2000.

## No. 1055. Employment and Earnings in Transportation by Industry: 1980 to 2000

[2,960 represents 2,960,000. Annual averages of monthly figures. Based on Current Employment Statistics program; see Appendix III]

Industry	SIC code <sup>1</sup>	1980	1985	1990	1995	1997	1998	1999	2000
		NUMBER (1,000)							
<b>Total transportation . . . . .</b>	<b>(X)</b>	<b>2,960</b>	<b>2,997</b>	<b>3,511</b>	<b>3,904</b>	<b>4,123</b>	<b>4,273</b>	<b>4,409</b>	<b>4,524</b>
Railroads. . . . .	40	532	359	279	238	227	231	230	220
Local and interurban passengers . . . . .	41	265	277	338	419	452	469	485	498
Trucking and warehousing . . . . .	42	(NA)	(NA)	1,395	1,587	1,677	1,744	1,805	1,839
Water transportation . . . . .	44	211	185	177	175	179	181	187	201
Air transportation . . . . .	45	(NA)	(NA)	968	1,068	1,134	1,181	1,227	1,282
Pipelines, exc. natural gas . . . . .	46	21	19	19	15	14	14	13	13
Transportation services . . . . .	47	(NA)	(NA)	336	401	441	454	463	472
<b>AVG. WEEKLY EARNINGS (dol.)</b>									
Class I railroads . . . . .	4011	427	595	727	811	892	845	797	799
Local and interurban passengers . . . . .	41	217	261	310	358	375	387	397	419
Trucking and warehousing . . . . .	42	(NA)	(NA)	450	504	532	545	561	579
Pipelines, exc. natural gas . . . . .	46	441	629	711	888	902	918	944	956

NA Not available. X Not applicable. <sup>1</sup> 1987 Standard Industrial Classification, see text, Section 15, Business Enterprise.

Source: U.S. Bureau of Labor Statistics, *Bulletins 2445 and 2481 and Employment and Earnings*, March and June issues.



## No. 1056. Transportation Accidents, Deaths, and Injuries: 1990 to 1999

[6,471 represents 6,471,000]

Year and casualty	Type of transport												
	Air						Pipeline <sup>7</sup>				Rail Rapid Transit <sup>9</sup>	Hazardous materials <sup>10</sup>	
	Motor vehicle <sup>1</sup> (1,000)	Railroad <sup>2</sup>	Air-lines <sup>3</sup>	Com-muter air carriers <sup>4</sup>	On demand air carriers <sup>5</sup>	General aviation	Recreational boating <sup>6</sup>	Gas	Haz-ardous liquid	Water-borne <sup>8</sup>			
<b>Accidents:</b>													
1990 . . . . .	6,471	2,879	24	15	106	2,215	6,411	198	180	3,613	12,178	8,880	
1995 . . . . .	6,699	2,459	36	12	75	2,053	8,019	161	188	4,196	14,327	14,743	
1998 . . . . .	6,335	2,575	50	8	77	1,908	8,061	234	154	3,872	13,516	15,349	
1999 . . . . .	6,279	2,768	52	13	76	1,909	7,935	174	167	3,654	(NA)	16,977	
<b>Deaths:</b>													
1990 . . . . .	44.6	599	39	7	50	767	865	6	3	85	117	8	
1995 . . . . .	41.8	567	168	9	52	734	829	18	3	46	79	7	
1998 . . . . .	41.5	577	1	-	45	624	815	17	2	59	54	13	
1999 . . . . .	41.7	530	12	12	38	631	734	17	4	44	(NA)	5	
<b>Injuries:</b>													
1990 . . . . .	3,231	22,736	29	11	36	402	3,822	69	7	175	10,036	423	
1995 . . . . .	3,465	12,546	25	25	14	395	4,141	53	11	145	11,238	400	
1998 . . . . .	3,192	10,156	28	2	10	330	4,612	75	6	83	11,059	198	
1999 . . . . .	3,236	10,509	57	2	14	325	4,315	87	20	113	(NA)	267	

- Represents zero. NA Not available. <sup>1</sup> Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition. Includes only police reported crashes. For more detail see Table 1100. <sup>2</sup> Accidents which result in damages to railroad property. Grade crossing accidents are also included when classified as a train accident. Deaths exclude fatalities in railroad-highway grade crossing accidents. <sup>3</sup> Includes scheduled and nonscheduled (charter) air carriers. Represents serious injuries. <sup>4</sup> All scheduled service. Represents serious injuries. <sup>5</sup> All nonscheduled service. Represents serious injuries. <sup>6</sup> Accidents resulting in death; injury or requiring medical treatment beyond first aid; damages exceeding \$500; or a person's disappearance. <sup>7</sup> Pipeline accidents/incidents are credited to year of occurrence. <sup>8</sup> Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding \$25,000; material damage affecting the seaworthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. <sup>9</sup> Reporting criteria and source of data changed between 1989 and 1990; these data from 1990 to present are not comparable to earlier years. <sup>10</sup> Accidents, deaths, and injuries involving hazardous materials cover all types of transport.

Source: U.S. Bureau of Transportation Statistics, *National Transportation Statistics, annual*.

## No. 1057. U.S. Scheduled Airline Industry—Summary: 1990 to 1999

[For calendar years or Dec. 31 (465.6 represents 465,600,000). For domestic and international operations. Covers carriers certificated under Section 401 of the Federal Aviation Act. Minus sign (-) indicates loss]

Item	Unit	1990	1993	1994	1995	1996	1997	1998	1999
<b>SCHEDULED SERVICE</b>									
Revenue passengers enplaned . . . . .	Mil. . . . .	465.6	488.5	528.8	547.8	581.2	599.1	612.9	635.4
Revenue passenger miles . . . . .	Bil. . . . .	457.9	489.7	519.4	540.7	578.7	605.6	618.1	651.6
Available seat miles . . . . .	Bil. . . . .	733.4	771.6	784.3	807.1	835.1	860.8	874.1	917.8
Revenue passenger load factor . . . . .	Percent . . . . .	62.4	63.5	66.2	67.0	69.3	70.3	70.7	71.0
Mean passenger trip length . . . . .	Miles . . . . .	984	1,002	982	987	996	1,011	1,008	1,025
Freight and express ton miles . . . . .	Mil. . . . .	10,546	11,944	13,792	14,578	15,301	17,959	18,131	19,346
Aircraft departures . . . . .	1,000 . . . . .	6,924	7,245	7,531	8,062	8,230	8,192	8,292	8,617
<b>FINANCES</b>									
<b>Total operating revenue <sup>2</sup> . . . . .</b>	<b>Mil. dol. . . . .</b>	<b>76,142</b>	<b>84,559</b>	<b>88,313</b>	<b>94,578</b>	<b>101,938</b>	<b>109,568</b>	<b>113,465</b>	<b>118,245</b>
Passenger revenue . . . . .	Mil. dol. . . . .	58,453	63,945	65,422	69,594	75,286	79,471	80,986	84,167
Freight and express revenue . . . . .	Mil. dol. . . . .	5,432	6,662	7,284	8,616	9,679	10,477	10,697	11,239
Mail revenue . . . . .	Mil. dol. . . . .	970	1,212	1,183	1,266	1,279	1,362	1,708	1,734
Charter revenue . . . . .	Mil. dol. . . . .	2,877	3,082	3,548	3,485	3,447	3,575	3,821	3,706
Total operating expense . . . . .	Mil. dol. . . . .	78,054	83,121	85,600	88,718	95,729	100,982	104,138	110,342
Operating profit . . . . .	Mil. dol. . . . .	-1,912	1,438	2,713	5,860	6,209	8,586	9,327	7,903
Interest expense . . . . .	Mil. dol. . . . .	1,978	2,027	2,347	2,424	1,981	1,733	1,742	1,825
Net profit . . . . .	Mil. dol. . . . .	-3,921	-2,136	-344	2,314	2,804	5,170	4,903	5,576
Revenue per passenger mile . . . . .	Cents. . . . .	12.8	13.1	12.6	12.9	13.0	13.1	13.1	12.9
Rate of return on investment . . . . .	Percent . . . . .	-6.0	-0.4	5.2	11.9	11.5	14.7	12.0	11.5
Operating profit margin . . . . .	Percent . . . . .	-2.5	1.7	3.1	6.2	6.1	7.8	8.2	6.7
Net profit margin . . . . .	Percent . . . . .	-5.1	-2.5	-0.4	2.4	2.8	4.7	4.3	4.7
<b>EMPLOYEES <sup>3</sup></b>									
<b>Total . . . . .</b>	<b>1,000 . . . . .</b>	<b>545.8</b>	<b>537.1</b>	<b>539.8</b>	<b>547.0</b>	<b>564.4</b>	<b>586.5</b>	<b>621.1</b>	<b>646.4</b>
Pilots and copilots . . . . .	1,000 . . . . .	47.1	52.1	52.9	55.4	57.6	60.4	64.1	68.2
Other flight personnel . . . . .	1,000 . . . . .	8.9	8.1	7.7	8.6	8.9	10.7	11.1	14.3
Flight attendants . . . . .	1,000 . . . . .	83.4	85.0	86.5	86.7	89.1	96.2	97.6	105.4
Mechanics . . . . .	1,000 . . . . .	61.0	57.5	55.8	50.5	50.8	65.5	69.9	73.7
Aircraft and traffic servicing personnel . . . . .	1,000 . . . . .	251.2	242.8	247.2	251.1	266.5	269.6	290.1	294.5
All other . . . . .	1,000 . . . . .	94.2	91.7	89.7	94.8	91.6	84.1	88.3	90.3

<sup>1</sup> For definition of mean, see Guide to Tabular Presentation. <sup>2</sup> Includes other types of revenues, not shown separately. <sup>3</sup> Average number of full time equivalents.

Source: Air Transport Association of America, Washington, DC, *Air Transport, annual*, and *Air Transport, Facts and Figures, annual*.

## No. 1058. Airline Cost Indexes: 1980 to 1999

[Covers U.S. major and national service carriers. Major carriers have operating revenues of \$1 billion or more; nationals have operating revenues from \$75 million to \$1 billion]

Index	Index (1982=100)								Percent distribution of total operating expenses <sup>1</sup>			
	1980	1985	1990	1995	1996	1997	1998	1999	1980	1990	1995	1999
<b>Composite index</b> . . . . .	<b>86.8</b>	<b>102.8</b>	<b>122.6</b>	<b>131.3</b>	<b>136.6</b>	<b>137.4</b>	<b>134.8</b>	<b>137.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Labor costs:												
Passenger carriers . . . . .	85.8	110.5	121.7	155.7	159.4	163.0	164.5	166.6	35.2	31.6	35.5	35.8
Cargo carriers . . . . .	78.3	116.0	148.8	151.7	159.6	156.0	159.1	164.8	27.3	30.0	40.0	30.2
Fuel . . . . .	89.7	79.6	77.2	55.3	64.6	65.5	49.4	51.4	30.0	17.3	12.0	10.0
Aircraft fleet <sup>2,3</sup> . . . . .	88.1	123.7	177.0	222.8	230.3	223.4	228.2	229.8	5.2	7.9	9.7	9.4
Interest <sup>2,4</sup> . . . . .	88.1	98.0	96.0	93.5	86.9	72.1	67.4	68.9	3.2	2.6	3.1	2.0
Insurance . . . . .	80.4	155.3	68.2	111.6	111.5	96.0	64.5	44.3	0.3	0.3	0.8	0.3
Maintenance material . . . . .	104.9	119.9	190.5	153.4	169.4	191.0	201.2	187.0	2.5	3.4	2.8	3.1
Landing fee . . . . .	87.2	99.9	139.0	176.6	181.5	184.0	177.4	186.8	1.7	1.8	2.2	2.0
Traffic commissions <sup>2</sup> . . . . .	75.4	112.9	169.2	139.4	130.7	126.9	113.0	97.9	4.9	9.4	8.6	6.0
Communication <sup>2</sup> . . . . .	65.8	96.6	111.2	116.0	114.8	110.4	119.0	138.1	1.1	1.4	1.6	1.7
Advertising and promotion <sup>2</sup> . . . . .	67.1	96.2	97.8	63.6	58.4	54.7	59.2	59.7	1.6	2.0	1.5	1.4
Passenger food <sup>2</sup> . . . . .	90.6	98.9	128.4	110.9	104.0	102.8	105.2	106.8	2.9	3.5	3.4	3.2
All other . . . . .	86.3	111.3	130.6	147.6	150.4	153.2	155.0	157.3	11.8	19.1	22.7	26.3

<sup>1</sup> Total operating expenses plus interest on long term debt, less depreciation and amortization. <sup>2</sup> Passenger airlines only. <sup>3</sup> Includes lease, aircraft and engine rentals, depreciation and amortization. <sup>4</sup> Interest on debt.

Source: Air Transport Association of America, Washington, DC, *Air Transport*, annual; and unpublished data.

## No. 1059. Top 40 Airports in 2000—Passengers Enplaned: 1990 and 2000

[In thousands (438,544 represents 438,544,000), except rank. For calendar year. Airports ranked by total passengers enplaned by large certificated air carriers, 2000]

Airport	1990		2000		Airport	1990		2000	
	Total	Rank	Total	Rank		Total	Rank	Total	Rank
<b>All airports</b> . . . . .	<b>438,544</b>	<b>(X)</b>	<b>638,903</b>	<b>(X)</b>	Charlotte (Douglas Muni), NC . . . . .	7,077	22	10,378	21
Top 40 airports . . . . .	334,833	(X)	496,565	(X)	Cincinnati, OH . . . . .	3,908	32	9,963	22
Atlanta (Hartsfield Intl), GA . . . . .	22,666	3	38,256	1	Baltimore, MD . . . . .	4,420	29	8,979	23
Chicago (O'Hare Intl), IL . . . . .	25,636	1	30,888	2	Salt Lake City, UT . . . . .	5,388	25	8,701	24
Dallas/Ft. Worth Intl, TX . . . . .	22,899	2	27,841	3	Honolulu, HI . . . . .	9,002	15	8,685	25
Los Angeles Intl, CA . . . . .	18,438	4	25,110	4	Pittsburgh, PA . . . . .	7,912	17	8,651	26
Denver Intl, CO . . . . .	11,962	6	17,643	5	San Diego (Intl-Lindbergh), CA . . . . .	5,261	26	7,625	27
Phoenix Sky Harbor Intl, AZ . . . . .	10,727	7	17,239	6	Tampa, FL . . . . .	4,781	27	7,431	28
Detroit (Wayne County), MI . . . . .	9,903	9	16,930	7	Miami/Ft. Lauderdale, FL . . . . .	3,875	34	7,141	29
Las Vegas (McCarran Intl) NV . . . . .	7,796	18	16,739	8	Washington (Reagan National), DC . . . . .	7,035	23	6,983	30
Minneapolis-St. Paul Intl, MN . . . . .	8,837	16	16,710	9	Chicago, IL (Midway) . . . . .	3,547	37	6,972	31
San Francisco Intl, CA . . . . .	13,475	5	16,664	10	Washington (Dulles Intl), DC . . . . .	4,449	28	6,649	32
Houston International, TX . . . . .	7,544	20	15,815	11	Portland, OR . . . . .	3,025	42	6,559	33
Newark, NJ . . . . .	9,854	10	15,205	12	Cleveland (Hopkins Intl), OH . . . . .	3,836	35	6,154	34
St Louis (Lambert-St. Louis Muni), MO . . . . .	9,332	13	15,101	13	San Jose Muni, CA . . . . .	3,128	41	6,044	35
Orlando Intl, FL . . . . .	7,678	19	13,466	14	Kansas City, MO . . . . .	3,358	40	5,749	36
Seattle-Tacoma Intl, WA . . . . .	7,386	21	13,308	15	Oakland Metro Intl, CA . . . . .	2,671	44	5,127	37
Miami Intl, FL . . . . .	9,226	14	12,655	16	Memphis, TN . . . . .	3,887	33	4,977	38
Boston (Logan Intl), MA . . . . .	9,550	12	11,506	17	Raleigh-Durham, NC . . . . .	4,361	30	4,839	39
New York (LaGuardia), NY . . . . .	10,725	8	11,426	18	San Juan, (Luis Munoz Marin Intl), PR . . . . .	3,618	36	4,834	40
Philadelphia, PA . . . . .	6,971	24	10,973	19					
New York (JFK), NY . . . . .	9,687	11	10,648	20					

X Not applicable.

Source: U.S. Bureau of Transportation Statistics, Office of Airline Information, *Airport Activity Statistics of Certificated Air Carriers, Calendar Year 2000* and the Federal Aviation Administration, *Airport Activity Statistics of Certificated Air Route Carriers, Calendar Year 1990*.

## No. 1060. Domestic Airline Markets: 1999

[In thousands (3,728 represents 3,728,000). For calendar year. Data are for the 30 top markets and include all commercial airports in each metro area. Data do not include connecting passengers]

Market	Passengers	Market	Passengers
New York to—from Los Angeles . . . . .	3,728	Honolulu to—from Lihue, Kauai . . . . .	1,749
New York to—from Chicago . . . . .	2,982	Chicago to—from Detroit . . . . .	1,509
New York to—from Boston . . . . .	2,821	Chicago to—from Atlanta . . . . .	1,498
New York to—from Miami . . . . .	2,800	Los Angeles to—from Oakland . . . . .	1,493
New York to—from Orlando . . . . .	2,777	New York to—from Dallas/Ft. Worth . . . . .	1,475
New York to—from San Francisco . . . . .	2,743	New York to—from West Palm Beach . . . . .	1,468
Honolulu to—from Kahului, Maui . . . . .	2,691	Honolulu to—from Kona, Hawaii . . . . .	1,459
New York to—from Washington . . . . .	2,551	Boston to—from Washington . . . . .	1,425
New York to—from Atlanta . . . . .	2,546	Atlanta to—from Washington . . . . .	1,424
New York to—from Ft. Lauderdale . . . . .	2,386	Chicago to—from Dallas/Ft. Worth . . . . .	1,415
Los Angeles to—from Las Vegas . . . . .	2,304	Los Angeles to—from Honolulu . . . . .	1,389
Dallas/Ft. Worth to—from Houston . . . . .	2,219	Los Angeles to—from Phoenix . . . . .	1,383
Los Angeles to—from San Francisco . . . . .	2,006	New York to—from Houston . . . . .	1,345
New York to—from San Juan . . . . .	1,988	New York to—from Las Vegas . . . . .	1,320
Chicago to—from Los Angeles . . . . .	1,772	New York to—from Detroit . . . . .	1,315

Source: Air Transport Association of America, Washington, DC, *Air Transport 2000*.

## No. 1061. Worldwide Airline Fatalities: 1987 to 1999

[For scheduled air transport operations]

Year	Fatal accidents	Passenger deaths	Death rate <sup>1</sup>	Death rate <sup>2</sup>	Year	Fatal accidents	Passenger deaths	Death rate <sup>1</sup>	Death rate <sup>2</sup>
1987	25	900	0.09	0.06	1994	27	1,171	0.09	0.06
1988	29	742	0.07	0.04	1995	25	711	0.05	0.03
1989	29	879	0.08	0.05	1996	24	1,146	0.07	0.05
1990	27	544	0.05	0.03	1997	26	929	0.06	0.04
1991	29	638	0.06	0.03	1998	20	904	0.05	0.03
1992	28	1,076	0.09	0.06	1999	20	489	0.03	0.02
1993	33	864	0.07	0.04					

<sup>1</sup> Rate per 100 million passenger miles flown. <sup>2</sup> Rate per 100 million passenger kilometers flown.

Source: International Civil Aviation Organization, Montreal, Canada, *Civil Aviation Statistics of the World*, annual.

## No. 1062. Airline Passenger Screening Results: 1980 to 1999

[Calendar year data (585 represents 585,000,000)]

Item	1980	1985	1990	1995	1996	1997	1998	1999
Persons screened (mil.)	585	993	1,145	1,263	1,497	1,660	1,903	1,754
WEAPONS DETECTED								
Firearms, total	1,914	2,913	2,549	2,390	2,155	2,067	1,515	1,552
Handguns	1,878	2,823	2,490	2,230	1,999	1,905	1,401	1,421
Long guns	36	90	59	160	156	162	114	131
Other/other dangerous articles	108	74	304	(X)	(X)	(X)	(X)	(X)
Explosive/incendiary devices	8	12	15	(X)	(X)	(X)	(X)	(X)
Persons arrested:								
Carrying firearms/explosives	1,031	1,310	1,336	1,194	999	924	660	633
Giving false information	32	42	18	68	131	72	86	58
Bomb threats received:								
Against airports	1,179	477	448	346	(X)	(NA)	(NA)	(NA)
Against aircraft	268	153	338	327	(X)	(NA)	(NA)	(NA)

NA Not available. X Not applicable.

Source: U.S. Bureau of Transportation Statistics, *National Transportation Statistics, 2000*, Internet site <<http://www.bts.gov/btsprod/nts/Ch2web/2-16.htm>> (accessed 24 August 2001).

## No. 1063. Aircraft Accidents: 1982 to 2000

[For years ending December 31]

Item	Unit	1982	1985	1990	1995	1998	1999	2000, prel.
Air carrier accidents, all services <sup>1</sup>	Number	18	21	24	36	50	52	54
Fatal accidents	Number	5	7	6	3	1	2	3
Fatalities	Number	235	526	39	168	1	12	92
Aboard	Number	223	525	12	162	-	11	92
Rates per 100,000 flight hours:								
Accidents	Rate	0.241	0.241	0.198	0.267	0.297	0.299	0.299
Fatal accidents	Rate	0.057	0.080	0.049	0.022	0.006	0.012	0.017
Commuter air carrier accidents <sup>2</sup>	Number	26	18	15	12	8	13	12
Fatal accidents	Number	5	7	4	2	-	5	1
Fatalities	Number	14	37	7	9	-	12	5
Aboard	Number	14	36	5	9	-	12	5
Rates per 100,000 flight hours:								
Accidents	Rate	2.000	1.036	0.641	0.457	2.262	2.876	2.182
Fatal accidents	Rate	0.385	0.403	0.171	0.076	-	1.106	0.182
On-demand air taxi accidents <sup>3</sup>	Number	132	157	107	75	77	73	80
Fatal accidents	Number	31	35	29	24	17	12	22
Fatalities	Number	72	76	51	52	45	38	71
Aboard	Number	72	75	49	52	41	38	68
Rates per 100,000 flight hours:								
Accidents	Rate	4.39	6.11	4.76	4.39	2.80	3.23	3.29
Fatal accidents	Rate	1.03	1.36	1.29	1.41	0.62	0.53	0.91
General aviation accidents <sup>4</sup>	Number	3,233	2,739	2,215	2,053	1,909	1,913	1,835
Fatal accidents	Number	591	498	443	412	368	342	341
Fatalities	Number	1,187	956	767	734	631	630	592
Aboard	Number	1,170	945	762	727	625	622	582
Rates per 100,000 flight hours:								
Accidents	Rate	10.90	9.66	7.77	8.23	7.53	6.49	5.96
Fatal accidents	Rate	1.99	1.75	1.55	1.64	1.45	1.16	1.11

- Represents zero. <sup>1</sup> U.S. air carriers operating under 14 CFR 121. Beginning 1998, includes aircraft with 10 or more seats, previously operating under 14 CFR 135. <sup>2</sup> All scheduled service of U.S. air carriers operating under 14 CFR 135. Beginning 1998, only aircraft with fewer than 10 seats. <sup>3</sup> All nonscheduled service of U.S. air carriers operating under 14 CFR 135. <sup>4</sup> U.S. civil registered aircraft not operated under 14 CFR 121 or 135.

Source: U.S. National Transportation Safety Board, Internet site <<http://www.ntsb.gov/aviation/stats.htm>> (accessed 17 September 2001).

## No. 1064. On-Time Flight Arrivals and Departures at Major U.S. Airports: 2000

[In percent. Quarterly, based on gate arrival and departure times for domestic scheduled operations of U.S. major airlines. All U.S. airlines with 1 percent or more of total U.S. domestic scheduled airline passenger revenues are required to report on-time data. A flight is considered on time if it operated less than 15 minutes after the scheduled time shown in the carrier's computerized reservation system. Cancelled and diverted flights are considered late. See source for data on individual airlines]

Airport	On-time arrivals				On-time departures			
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st qtr.	2d qtr.	3d qtr.	4th qtr.
<b>Total, all airports . . . . .</b>	<b>75.2</b>	<b>72.0</b>	<b>72.7</b>	<b>70.6</b>	<b>79.3</b>	<b>76.4</b>	<b>76.9</b>	<b>74.7</b>
Total major airports . . . . .	74.6	71.2	71.8	70.1	78.2	74.7	75.0	73.4
Atlanta, Hartsfield International . . . . .	76.7	77.7	74.6	70.7	79.3	79.1	76.3	71.6
Baltimore/Washington International . . . . .	74.9	73.0	74.5	77.0	76.7	75.3	76.7	77.2
Boston, Logan International . . . . .	68.2	62.8	63.2	67.9	76.1	73.1	73.8	75.8
Charlotte Douglas . . . . .	79.7	76.9	77.4	87.6	80.8	76.4	78.0	77.8
Chicago, O'Hare . . . . .	70.1	60.8	57.9	64.4	74.3	65.2	62.4	65.8
Cincinnati International . . . . .	80.9	81.1	80.6	76.3	83.9	83.3	82.9	77.8
Dallas/Ft. Worth Regional . . . . .	80.2	75.1	83.1	73.7	79.6	74.5	82.0	76.1
Denver International . . . . .	78.1	63.8	60.9	70.7	81.7	68.8	62.8	71.9
Detroit, Metro Wayne . . . . .	82.3	78.5	79.8	75.4	80.5	76.5	77.5	72.4
Houston George Bush . . . . .	79.5	79.2	80.8	77.6	83.8	82.3	83.4	82.5
Las Vegas, McCarran International . . . . .	70.0	70.6	73.5	67.7	70.8	70.6	72.2	68.9
Los Angeles International . . . . .	67.6	67.3	68.9	62.4	74.2	72.4	73.0	69.3
Miami International . . . . .	78.9	73.6	70.3	72.6	82.1	79.5	75.7	77.9
Minneapolis/St. Paul International . . . . .	80.0	80.2	81.8	75.7	81.0	81.2	81.3	74.2
Newark International . . . . .	69.4	63.7	69.0	74.9	77.6	73.1	75.3	79.7
New York, Kennedy International . . . . .	75.2	67.5	69.2	75.9	81.0	78.0	78.3	79.9
New York, LaGuardia . . . . .	67.7	61.8	53.9	46.8	77.8	72.9	70.4	64.3
Orlando International . . . . .	78.3	73.5	72.6	71.8	83.8	79.0	79.8	78.3
Philadelphia International . . . . .	70.0	63.2	62.8	71.0	74.3	68.0	68.6	74.4
Phoenix, Sky Harbor International . . . . .	71.1	73.5	74.4	66.1	71.0	71.7	71.9	67.5
Pittsburgh, Greater International . . . . .	79.0	74.7	74.1	78.0	81.4	77.0	76.9	78.6
Portland International . . . . .	73.4	70.3	75.2	68.6	80.1	78.7	80.4	75.1
Ronald Reagan National . . . . .	77.5	75.6	75.0	76.7	83.0	81.4	82.7	84.0
St. Louis, Lambert . . . . .	81.0	76.4	79.5	73.3	81.0	75.3	78.8	73.3
Salt Lake City International . . . . .	78.8	79.3	79.6	69.8	83.3	83.0	82.3	75.2
San Diego International, Lindbergh . . . . .	71.8	71.5	74.1	65.8	76.9	75.9	77.1	71.1
San Francisco International . . . . .	60.6	60.1	59.4	63.2	71.0	69.4	69.8	69.8
Seattle-Tacoma International . . . . .	70.4	65.5	69.8	65.0	77.2	74.1	74.6	71.6
Tampa International . . . . .	77.2	73.5	71.8	71.3	83.3	80.5	78.7	79.4

Source: U.S. Department of Transportation, Office of Consumer Affairs, *Air Travel Consumer Report*, monthly.

## No. 1065. Consumer Complaints Against U.S. Airlines: 1990 to 2000

[Calendar year data. See source for data on individual airlines]

Complaint category	1990	1993	1994	1995	1996	1997	1998	1999	2000
<b>Total . . . . .</b>	<b>7,703</b>	<b>4,438</b>	<b>5,179</b>	<b>4,629</b>	<b>5,782</b>	<b>6,394</b>	<b>7,980</b>	<b>17,345</b>	<b>20,564</b>
Flight problems <sup>1</sup> . . . . .	3,034	1,211	1,586	1,133	1,628	1,699	2,270	6,449	8,698
Customer service <sup>2</sup> . . . . .	758	599	805	667	999	1,418	1,716	3,657	4,074
Baggage . . . . .	1,329	627	761	628	882	826	1,105	2,351	2,753
Ticketing/boarding <sup>3</sup> . . . . .	624	577	598	666	857	904	805	1,329	1,405
Refunds . . . . .	701	482	393	576	521	531	601	935	803
Oversales <sup>4</sup> . . . . .	399	257	301	263	353	414	387	673	759
Fares <sup>5</sup> . . . . .	312	398	267	185	180	195	276	584	708
Disability <sup>6</sup> . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	331	520	612
Advertising . . . . .	96	51	94	66	61	57	39	57	42
Tours . . . . .	29	16	127	18	16	13	23	28	25
Animals . . . . .	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1
Smoking . . . . .	74	30	20	15	13	5	(7)	(7)	(7)
Credit . . . . .	5	4	2	4	3	1	(7)	(7)	(7)
Other . . . . .	342	186	225	408	269	331	427	759	675

NA Not available. <sup>1</sup> Cancellations, delays, etc. from schedule. <sup>2</sup> Unhelpful employees, inadequate meals or cabin service, treatment of delayed passengers. <sup>3</sup> Errors in reservations and ticketing; problems in making reservations and obtaining tickets. <sup>4</sup> All bumping problems, whether or not airline complied with DOT regulations. <sup>5</sup> Incorrect or incomplete information about fares, discount fare conditions, and availability, etc. <sup>6</sup> Prior to 1998, included in ticketing/boarding. <sup>7</sup> Included in "Other" beginning 1998.

Source: U.S. Dept. of Transportation, Office of Consumer Affairs, *Air Travel Consumer Report*, monthly.

## No. 1066. Commuter/Regional Airline Operations—Summary: 1980 to 1999

[Calendar year data (14.8 represents 14,800,000). Commuter/regional airlines operate primarily aircraft of predominately 75 passengers or less and 18,000 pounds of payload capacity serving short haul and small community markets. Represents operations within all North America by U.S. Regional Carriers. Averages are means. For definition of mean, see Guide to Tabular Presentation]

Item	Unit	1980	1985	1990	1995	1996	1997	1998	1999
Passenger carriers operating	Number	214	179	150	124	109	104	97	97
Passengers enplaned	Millions	14.8	<sup>1</sup> 26.0	42.1	57.2	61.9	66.3	71.1	78.1
Average passengers enplaned per carrier	1,000	69.2	152.4	277.5	461.4	568.3	637.5	733.0	804.7
Revenue passenger miles (RPM)	Billions	1.92	<sup>1</sup> 4.41	7.61	12.75	14.22	15.30	17.42	20.81
Average RPMs per carrier	Millions	8.97	<sup>1</sup> 24.64	50.75	102.80	130.49	147.09	179.64	214.49
Airports served	Number	732	854	811	780	782	766	773	734
Average trip length	Miles	129	173	183	223	230	231	245	267
Passenger aircraft operated	Number	1,339	1,745	1,917	2,138	2,127	2,104	2,150	2,187
Average seating capacity (seats)	Number	13.9	19.2	22.1	24.6	25.1	25.9	27.7	29.8
Fleet flying hours	1,000	1,740	2,854	3,447	4,659	4,568	4,695	4,631	5,058
Average annual utilization per aircraft	Hours	1,299	1,635	1,798	2,179	2,148	2,231	2,154	2,313

<sup>1</sup> Adjusted to exclude a merger in 1986. <sup>2</sup> Prior to 1995, utilization results reflected airborne rather than block hours. Data inclusive of carriers which may have operated during only part of calendar year 1996.

Source: Regional Airline Association and AvStat Associates, Washington, DC, Annual Report of the Regional Airline Industry (copyright).

## No. 1067. Civil Flying—Summary: 1970 to 1997

[As of Dec. 31 or for years ending Dec. 31, except as noted (50.5 represents \$50,500,000)]

Item	Unit	1970	1980	1985	1990	1995	1996	1997
Airports in operation <sup>1</sup>	Number	11,261	15,161	16,318	17,490	18,224	18,292	18,345
Heliports	Number	790	2,336	3,120	4,085	4,559	4,596	4,626
Private	Number	7,001	10,347	10,457	12,412	13,092	13,163	13,211
Airports with runway lights	Number	3,554	4,738	4,941	4,822	4,838	4,847	4,832
Airports with paved runways	Number	3,805	5,833	6,721	7,694	8,195	8,218	8,248
Airport Improvement Program <sup>2</sup>	Mill. dol.	50.5	639.0	842.1	1,244.7	1,418.1	1,379.9	1,475.9
Total civil aircraft <sup>3</sup>	1,000	154.5	259.4	274.9	275.9	(NA)	(NA)	(NA)
Active aircraft <sup>4</sup>	1,000	134.5	214.8	215.4	218.9	195.5	198.6	200.0
Air carriers, total <sup>4</sup>	1,000	2.8	3.8	4.7	6.7	7.4	7.5	7.6
General aviation aircraft <sup>5</sup>	1,000	131.7	211.0	210.7	212.2	188.1	191.1	192.4
Fixed-wing aircraft:								
Multiengine	1,000	18.4	31.7	33.6	32.7	24.6	25.6	26.2
Single-engine	1,000	109.5	168.4	164.4	165.1	137.7	138.1	140.7
Rotorcraft <sup>6</sup>	1,000	2.2	6.0	6.4	7.4	5.8	6.6	6.8
Balloons, blimps, gliders, etc	1,000	1.6	5.0	6.3	7.0	4.7	4.2	4.1
Airman certificates held	1,000	1,002	1,195	1,105	1,195	1,290	1,157	1,157
Pilot <sup>7</sup>	1,000	733	827	710	703	639	622	616
Held by women	Percent	4.0	6.4	6.1	5.8	6.0	5.9	5.8
Airline transport	1,000	34	70	83	108	124	127	131
Commercial	1,000	187	183	152	149	134	129	125
Private	1,000	304	357	311	299	261	254	248
Student	1,000	196	200	147	128	101	95	96
Nonpilot <sup>8</sup>	1,000	269	368	395	492	651	534	541
Ground technicians <sup>9</sup>	1,000	241	321	341	421	574	459	464
FAA employees: Total	Number	53,125	55,340	47,245	51,269	48,324	48,618	49,531
Air traffic control specialists <sup>10</sup>	Number	(NA)	27,190	23,580	24,339	23,208	22,823	22,985
Full performance <sup>11</sup>	Number	(NA)	16,317	11,672	12,985	14,845	15,799	14,630
Developmental <sup>11</sup>	Number	(NA)	4,387	4,304	5,042	2,272	1,999	2,312
Assistants <sup>11</sup>	Number	(X)	(X)	1,465	1,153	355	335	319
Traffic management coordinators <sup>12</sup>	Number	(X)	(X)	(X)	370	561	542	584
Electronic technicians/ATSS <sup>13</sup>	Number	(NA)	8,871	6,856	6,458	6,749	6,927	7,021
Aviation safety inspectors	Number	(NA)	2,038	1,897	2,984	2,991	3,265	3,577
Engineers	Number	(NA)	2,436	2,457	2,745	2,810	2,860	2,860
Other	Number	(NA)	14,805	12,455	14,743	12,566	12,743	13,088
General aviation: <sup>5</sup>								
Hours flown	Million	26.0	41.0	34.1	34.8	26.6	26.9	27.7
Fuel consumed: <sup>14</sup>								
Gasoline	Mill. gal.	362	520	420	353	287	289	292
Jet fuel <sup>15</sup>	Mill. gal.	415	766	691	663	560	608	642

NA Not available. X Not applicable. <sup>1</sup> Existing airports, heliports, seaplane bases, etc. recorded with FAA. Includes military airports with joint civil and military use. Includes U.S. outlying areas. Airport-type definitions: Public—publicly owned and under control of a public agency; private—owned by a private individual or corporation. May or may not be open for public use.

<sup>2</sup> Fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. 1970-1980 data are obligated federal funds for the Airport Development Aid Program. Thereafter, data are appropriated federal funds under the Airport and Airway Improvement Act of 1982. <sup>3</sup> Registered aircraft that flew 1 or more hours during the year. <sup>4</sup> Includes helicopters. <sup>5</sup> See text, this section. Beginning 1995, excludes commuters and includes experimental aircraft, not shown separately. Prior to 1995, experimental.

<sup>6</sup> Includes autogyros; excludes air carrier helicopters. <sup>7</sup> Includes all active pilots. An active pilot is one with a pilot certificate and a valid medical certificate. Also includes pilots who hold a recreational certificate or only a helicopter, glider, or lighter than air certificate, not shown separately. <sup>8</sup> Includes dispatchers, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground and ground instructors. Data for 1996 on mechanics, repairmen, parachute riggers, ground instructors, and dispatchers are limited to those ages 70 years and less. <sup>9</sup> No medical examinations are required, therefore, data represent all certificates on record and include retired or otherwise inactive technicians. See footnote 8. <sup>10</sup> Includes all air traffic control specialists (staff positions, managers, supervisors, and for 1970-1985 traffic management coordinators, not shown separately) and air traffic assistants. <sup>11</sup> Serving in-flight service stations, towers, and centers. <sup>12</sup> Prior to 1990, included in total air traffic control specialists. <sup>13</sup> Airway Transportation Systems Specialists

<sup>14</sup> Source: 1970, U.S. Bureau of Mines; thereafter, FAA General Aviation Activity and Avionics Survey. Data for 1996 are estimated using new information on survey nonresponse and so are not strictly comparable to earlier years. <sup>15</sup> Includes kerosene-type and naphtha-type jet fuels.

Source: Except as noted, U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual, last published in 1993. Internet site <<http://www.api.faa.gov/handbook96/toc96.htm>>; and unpublished data.

## No. 1068. Federal Expenditures for Civil Functions of the Corps of Engineers, United States Army: 1970 to 1999

[In millions of dollars (1,128 represents \$1,128,000,000). For fiscal years ending in year shown, see text, Section 8, State and Local Government Finances and Employment. These expenditures represent the work of the Corps of Engineers to plan, design, construct, operate, and maintain civil works projects and activities, particularly in the management and improvement of rivers, harbors, and waterways for navigation, flood control, and multiple purposes. The amounts listed below do not include the expenditure of funds contributed, advanced, or reimbursed by other government agencies or local interests. Includes Puerto Rico and outlying areas]

Fiscal year	Total program <sup>1</sup>	Navigation	Flood control	Multiple purpose	Fiscal year	Total program <sup>1</sup>	Navigation	Flood control	Multiple purpose
1970	1,128	398	379	331	1992	3,675	1,562	1,469	469
1980	3,061	1,225	1,228	551	1993	3,335	1,461	1,243	464
1985	2,956	1,234	1,187	419	1994	3,727	1,607	1,436	521
1987	2,937	1,135	1,272	411	1995	3,796	1,620	1,399	598
1988	3,086	1,271	1,271	423	1996	3,627	1,566	1,349	557
1989	3,252	1,395	1,253	462	1997	3,745	1,620	1,430	545
1990	3,297	1,391	1,397	375	1998	4,091	1,660	1,523	618
1991	3,511	1,473	1,447	443	1999	4,429	1,709	1,774	592

<sup>1</sup> Includes expenditures which are not associated with a specific purpose (e.g., headquarters staff supervision, management, and administration activities, and some research and development activities).

Source: U.S. Army Corps of Engineers, *Report of Civil Works Expenditures by State and Fiscal Year*, annual.

## No. 1069. Freight Carried on Major U.S. Waterways: 1980 to 1999

[In millions of tons (4.0 represents 4,000,000)]

Item	1980	1985	1990	1994	1995	1996	1997	1998	1999
Atlantic intracoastal waterway	4.0	3.1	4.2	3.7	3.5	4.3	3.6	3.8	3.4
Great Lakes	183.5	148.1	167.1	175.3	177.7	181.8	188.6	192.2	182.9
Gulf intracoastal waterway	94.5	102.5	115.5	117.6	117.9	118.0	118.1	113.8	109.6
Mississippi River system	584.2	527.8	659.6	693.3	710.1	701.8	707.1	708.3	716.9
Mississippi River mainstream	441.5	384.0	475.6	496.8	520.2	505.6	504.7	504.4	512.3
Ohio River system <sup>2</sup>	179.3	203.9	260.0	270.5	267.6	270.9	274.9	278.8	277.9
Columbia River	49.2	42.4	51.4	50.9	57.1	51.2	52.7	49.1	50.7
Snake River	5.1	3.5	4.8	5.9	6.8	5.7	6.1	5.8	5.8

<sup>1</sup> Main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers. <sup>2</sup> Main channels and all navigable tributaries and embayments of the Ohio, Tennessee, and Cumberland Rivers.

Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

## No. 1070. Waterborne Commerce by Type of Commodity: 1990 to 1999

[In millions of short tons (2,163.9 represents 2,163,900,000). Domestic trade includes all commercial movements between United States ports and on inland rivers, Great Lakes, canals, and connecting channels of the United States, Puerto Rico, and Virgin Islands]

Commodity	1999						
	1990	1995	1998	Total	Domestic	Foreign imports	Foreign exports
<b>Total<sup>1</sup></b>	<b>2,163.9</b>	<b>2,240.4</b>	<b>2,339.5</b>	<b>2,322.6</b>	<b>1,061.8</b>	<b>860.8</b>	<b>400.0</b>
Coal	339.9	324.5	316.1	289.2	218.9	11.8	58.5
Petroleum and petroleum products	923.2	907.1	987.5	979.1	361.5	563.9	53.8
Crude petroleum	485.7	504.6	539.7	533.4	87.9	439.8	5.7
Petroleum products	437.5	402.5	447.7	445.7	273.6	124.0	48.1
Gasoline	116.9	114.4	109.0	110.6	88.0	18.4	4.1
Distillate fuel oil	77.4	76.7	94.2	93.1	63.2	25.8	4.1
Residual fuel oil	145.2	111.9	127.2	124.0	78.7	35.2	10.0
Chemicals and related products	123.8	153.7	156.4	155.7	75.3	28.1	52.2
Crude material, inedible <sup>1</sup>	374.7	381.7	394.3	386.6	239.3	92.8	54.5
Forest products, wood and chips	55.7	47.2	39.1	38.9	16.1	5.4	17.5
Pulp and waste paper	11.8	14.9	11.3	12.0	0.2	1.2	10.6
Soil, sand, gravel, rock, and stone	144.2	152.5	173.1	175.5	140.6	28.1	6.8
Primary manufactured goods <sup>1</sup>	76.0	106.3	141.0	147.4	45.0	91.0	11.3
Papers products	10.7	13.1	13.3	12.8	0.6	5.0	7.2
Lime, cement and glass	28.3	33.9	46.1	58.3	21.0	35.8	1.5
Primary iron and steel products	25.1	44.1	63.5	56.2	16.0	39.3	0.9
Food and farm products <sup>1</sup>	267.5	303.2	265.7	287.9	100.0	30.2	157.7
Fish	3.2	3.6	2.0	2.1	0.1	1.2	0.8
Grain <sup>1</sup>	157.3	167.9	132.3	152.7	56.8	1.8	94.1
Corn	96.1	105.0	78.1	95.9	40.9	0.1	54.9
Wheat	44.5	48.5	41.3	44.5	12.5	0.2	31.7
Oilseeds	36.0	46.1	45.6	48.9	24.6	0.5	23.9
Soybeans	32.2	42.0	38.6	43.0	19.9	-	23.1
Vegetables products	6.7	9.0	10.4	9.1	1.7	2.9	4.6
Processed grain and animal feed	28.2	33.0	30.4	29.7	8.2	0.9	20.5

- Represents or rounds to zero. <sup>1</sup> Includes categories not shown separately.

Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

**No. 1071. Cargo-Carrying U.S.-Flag Fleet by Area of Operation: 2000**

[As of July 1. Tons in thousands of metric tons (70,608 represents 70,608,000. One ton equals 100 cubic feet of space. Represents active vessels)]

Area of operation	Total fleet		Liquid carriers		Dry bulk carriers		Containerships		Other freighters <sup>1</sup>	
	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Number	Tons
<b>Total</b> . . . . .	<b>29,446</b>	<b>70,608</b>	<b>3,544</b>	<b>19,734.0</b>	<b>21,670</b>	<b>39,310.0</b>	<b>116</b>	<b>3,211</b>	<b>4,116</b>	<b>8,353.0</b>
Total commercial fleet . . . . .	29,263	66,978	3,516	18,850	21,670	39,310	111	3,125	3,966	5,693
Foreign trade . . . . .	421	8,021	79	2,457	235	2,124	61	2,368	46	1,072
Self-propelled . . . . .	147	5,849	31	1,952	10	477	61	2,368	45	1,052
Less than 1,000 gross tons . . . . .	-	-	-	-	-	-	-	-	-	-
Greater than or equal to 1,000 gross tons . . . . .	147	5,849	31	1,952	10	477	61	2,368	45	1,052
Nonself-propelled . . . . .	274	2,172	48	505	225	1,647	-	-	1	20
Less than 1,000 gross tons . . . . .	86	235	6	7	80	228	-	-	-	-
Greater than or equal to 1,000 gross tons . . . . .	188	1,937	42	498	145	1,419	-	-	1	20
Domestic trade . . . . .	28,842	58,957	3,437	16,393	21,435	37,186	50	757	3,920	4,621
Coastal (including noncontiguous) . . . . .	2,532	13,790	599	9,779	448	1,596	50	757	1,435	1,658
Self-propelled . . . . .	193	6,866	102	6,075	1	33	24	596	66	162
Less than 1,000 gross tons . . . . .	74	31	18	12	-	-	-	-	56	19
Greater than or equal to 1,000 gross tons . . . . .	119	6,835	84	6,063	1	33	24	596	10	143
Nonself-propelled . . . . .	2,339	6,924	497	3,704	447	1,563	26	161	1,369	1,496
Less than 1,000 gross tons . . . . .	1,596	1,190	87	101	289	411	-	-	1,220	678
Greater than or equal to 1,000 gross tons . . . . .	743	5,734	410	3,603	158	1,152	26	161	149	818
Internal waterways . . . . .	26,128	42,833	2,819	6,522	20,912	33,511	-	-	2,397	2,800
Self-propelled . . . . .	26	18	-	-	-	-	-	-	26	18
Less than 1,000 gross tons . . . . .	26	18	-	-	-	-	-	-	26	18
Greater than or equal to 1,000 gross tons . . . . .	-	-	-	-	-	-	-	-	-	-
Nonself-propelled . . . . .	26,102	42,815	2,819	6,522	20,912	33,511	-	-	2,371	2,782
Less than 1,000 gross tons . . . . .	24,552	37,833	1,556	2,393	20,697	32,912	-	-	2,299	2,528
Greater than or equal to 1,000 gross tons . . . . .	1,550	4,982	1,263	4,129	215	599	-	-	72	254
Great Lakes . . . . .	182	2,334	19	92	75	2,079	-	-	88	163
Self-propelled . . . . .	61	1,914	4	20	53	1,873	-	-	4	21
Less than 1,000 gross tons . . . . .	8	3	2	1	3	2	-	-	3	(Z)
Greater than or equal to 1,000 gross tons . . . . .	53	1,911	2	19	50	1,871	-	-	1	21
Nonself-propelled . . . . .	121	420	15	72	22	206	-	-	84	142
Less than 1,000 gross tons . . . . .	96	138	1	2	15	20	-	-	80	116
Greater than or equal to 1,000 gross tons . . . . .	25	282	14	70	7	186	-	-	4	26
National Defense Reserve Fleet . . . . .	176	3,393	28	884	-	-	5	86	143	2,423
Ready Reserve Force (RRF) . . . . .	89	1,857	9	268	-	-	3	50	77	1,539
Other Reserve . . . . .	87	1,536	19	616	-	-	2	36	66	884
Other government: Sealift vessels . . . . .	7	237	-	-	-	-	-	-	7	237

- Represents zero. Z Less than 500. <sup>1</sup> Includes general cargo, Ro-Ro, multipurpose, LASH (Lighter Aboard Ship) vessels, and deck barges; excludes offshore supply vessels.

Source: U.S. Maritime Administration, Office of Statistical &amp; Economic Analysis; adapted from U.S. Army Corps of Engineers, U.S. Coast Guard and U.S. Customs Service data.

## No. 1072. Jobs on U.S. Deep Sea Commercial Fleet and Typical Basic Monthly Wage for Able-Bodied Seamen: 1975 to 2000

[Employment in thousands (20.5 represents 20,500)]

Year	Employment <sup>1</sup>	Year	Employment <sup>1</sup>	Year	East coast wage rate <sup>2</sup>	West coast wage rate <sup>2</sup>	Year	East coast wage rate <sup>2</sup>	West coast wage rate <sup>2</sup>
1975 . . . . .	20.5	1995 . . . . .	7.9	1975 . . . . .	612	900	1995 . . . . .	1,918	2,637
1980 . . . . .	19.6	1996 . . . . .	7.5	1980 . . . . .	967	1,414	1996 . . . . .	2,014	2,769
1985 . . . . .	13.1	1997 . . . . .	8.6	1985 . . . . .	1,419	2,029	1997 . . . . .	2,094	2,879
1990 . . . . .	11.1	1998 . . . . .	7.9	1990 . . . . .	1,505	2,218	1998 . . . . .	2,178	2,994
1993 . . . . .	9.3	1999 . . . . .	7.3	1993 . . . . .	1,721	2,438	1999 . . . . .	2,265	3,114
1994 . . . . .	9.1	2000 . . . . .	6.6	1994 . . . . .	1,790	2,536	2000 . . . . .	2,453	3,114

<sup>1</sup> As of June 30, except beginning 1980, as of Sept. 30. Estimates of personnel employed on merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, U.S. Army and Navy, and special types such as cable ships, tugs, etc. <sup>2</sup> As of January. Basic monthly wage, over and above subsistence (board and room); excludes overtime and fringe pay benefits. West coast incorporates extra pay for Saturdays and Sundays at sea into base wages but east coast does not.

Source: U.S. Maritime Administration, Office of Maritime Labor, Training and Safety.

## No. 1073. Merchant Fleets of the World: 2000

[Vessels of 1,000 gross tons and over. As of Jan. 1. Specified countries have 100 or more ships]

Country of registry, 2000	Total	Tanker	Dry bulk <sup>1</sup>	Container-ship	Roll-on/roll-off	Cruise/passenger	Other <sup>2</sup>
<b>World total, 2000 . . . . .</b>	<b>28,259</b>	<b>7,006</b>	<b>5,684</b>	<b>2,457</b>	<b>1,496</b>	<b>285</b>	<b>11,331</b>
United States . . . . .	463	154	14	89	58	11	137
Privately-owned . . . . .	277	126	14	84	26	1	26
Government-owned . . . . .	186	28	-	5	32	10	111
Foreign total . . . . .	27,796	6,852	5,670	2,368	1,438	274	11,194
Panama . . . . .	4,620	1,057	1,346	493	267	47	1,410
Liberia . . . . .	1,608	657	420	206	57	39	229
Russia . . . . .	1,503	275	104	24	8	7	1,085
China . . . . .	1,449	252	335	94	15	4	749
Malta . . . . .	1,448	390	416	53	60	3	526
Cyprus . . . . .	1,365	169	474	129	32	9	552
Bahamas . . . . .	1,037	253	157	51	66	60	450
Singapore . . . . .	883	402	136	162	40	-	143
Saint Vincent . . . . .	791	96	143	29	35	4	484
Greece . . . . .	696	276	266	42	18	14	80
Norway (NIS) <sup>3</sup> . . . . .	660	308	95	5	72	11	169
Japan . . . . .	650	268	159	26	118	6	73
Netherlands . . . . .	563	72	5	59	18	8	401
Turkey . . . . .	540	84	164	22	20	3	247
Indonesia . . . . .	503	122	25	11	13	-	332
Philippines . . . . .	488	66	178	10	42	1	191
Antigua & Barbuda . . . . .	483	11	16	132	22	-	302
Korea (South) . . . . .	442	113	95	46	9	3	176
Germany . . . . .	429	18	-	237	16	2	156
Belize . . . . .	422	61	23	6	4	-	328
Italy . . . . .	383	206	38	21	70	5	43
Malaysia . . . . .	357	110	60	49	9	2	127
Denmark (DIS) <sup>3</sup> . . . . .	315	69	11	61	10	-	164
India . . . . .	298	98	124	7	-	-	69
Thailand . . . . .	294	96	36	12	-	1	149
Honduras . . . . .	248	35	16	4	5	1	187
Ukraine . . . . .	244	16	8	5	8	6	201
Hong Kong . . . . .	242	22	130	47	3	-	40
Cambodia . . . . .	232	1	22	1	6	-	202
Sweden . . . . .	179	65	8	-	64	-	42
Taiwan . . . . .	178	17	53	72	1	-	35
Brazil . . . . .	160	75	41	6	9	-	29
United Kingdom . . . . .	155	59	3	33	21	10	29
Isle of Man . . . . .	145	70	20	19	17	-	19
Portugal (MAR) <sup>3</sup> . . . . .	139	32	13	4	11	-	79
Marshall Islands . . . . .	132	57	49	19	1	-	6
Romania . . . . .	131	6	14	1	6	-	104
Syria . . . . .	130	-	4	-	1	-	125
Norway . . . . .	129	45	7	-	11	-	66
Iran . . . . .	126	26	44	3	2	-	51
Vietnam . . . . .	121	16	9	1	1	-	94
Spain . . . . .	119	35	10	17	36	-	21
Bermuda . . . . .	112	37	28	18	11	-	18
Egypt . . . . .	112	15	22	1	9	-	64
All other . . . . .	2,535	694	343	130	194	27	1,147

- Represents zero. <sup>1</sup> Includes bulk/oil, ore/oil, and org/bulk/oil carriers. <sup>2</sup> Breakbulk ships, partial containerships, refrigerated cargo ships, barge and specialized cargo ships. <sup>3</sup> International Shipping Registry which is an open registry under which the ship flies the flag of the specified nation but is exempt from certain taxation and other regulations.

Source: U.S. Maritime Administration, *Merchant Fleets of the World*, summary report, annual; and unpublished data.



## No. 1074. Highway Mileage—Urban and Rural by Ownership: 1980 to 1999

[In thousands (3,955 represents 3,955,000). As of Dec. 31. Includes Puerto Rico beginning 1996]

Type and control	1980	1985	1990	1994	1995	1996	1997	1998	1999
<b>Total mileage</b> <sup>1</sup> . . . . .	<b>23,955</b>	<b>3,862</b>	<b>3,880</b>	<b>3,906</b>	<b>3,912</b>	<b>3,934</b>	<b>3,959</b>	<b>3,920</b>	<b>3,932</b>
Urban mileage <sup>3</sup> . . . . .	624	691	757	814	819	834	843	849	853
Under State control . . . . .	79	111	96	110	112	113	114	111	111
Under local control . . . . .	543	578	661	702	706	719	728	736	740
Rural mileage . . . . .	<sup>2</sup> 3,331	3,171	3,123	3,093	3,093	3,100	3,116	3,072	3,079
Under state control . . . . .	702	773	703	690	691	693	695	663	663
Under local control . . . . .	2,270	2,173	2,242	2,229	2,231	2,238	2,254	2,291	2,299
Under federal control . . . . .	262	225	178	174	170	169	167	118	117

<sup>1</sup> Beginning 1985, includes only public road mileage as defined 23 USC 402. <sup>2</sup> Includes 98,000 miles of nonpublic road mileage previously contained in other rural categories. <sup>3</sup> Includes a small amount of road owned by the federal government, such as roads in federal parks that are not part of a State or local highway system.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## No. 1075. Highway Mileage—Functional Systems and Urban/Rural: 1999

[As of Dec. 31. Excludes Puerto Rico. For definition of functional systems, see text, this section]

State	Functional systems							
	Total	Interstate	Other free-ways and express-ways	Arterial	Collector	Local	Urban	Rural
<b>U.S. . . . .</b>	<b>3,917,240</b>	<b>46,317</b>	<b>9,125</b>	<b>378,924</b>	<b>792,652</b>	<b>2,690,222</b>	<b>846,059</b>	<b>3,071,181</b>
AL . . . . .	94,247	905	21	8,758	20,349	64,214	20,658	73,589
AK . . . . .	12,667	1,083	-	1,505	2,736	7,343	1,809	10,858
AZ . . . . .	54,454	1,168	108	4,745	8,554	39,879	17,277	37,177
AR . . . . .	97,562	542	123	6,891	20,146	69,860	10,603	86,959
CA . . . . .	166,973	2,456	1,375	26,659	31,839	104,644	83,787	83,186
CO . . . . .	85,149	953	226	8,182	16,592	59,196	14,248	70,901
CT . . . . .	20,788	346	197	2,849	2,994	14,402	11,774	9,014
DE . . . . .	5,747	41	11	627	946	4,122	1,969	3,778
DC . . . . .	1,425	14	18	264	152	977	1,425	-
FL . . . . .	115,956	1,472	425	12,047	14,312	87,700	48,320	67,636
GA . . . . .	113,894	1,244	165	13,133	23,169	76,183	27,459	86,435
HI . . . . .	4,257	55	34	748	825	2,595	1,895	2,362
ID . . . . .	45,802	611	-	3,787	9,829	31,575	4,004	41,798
IL . . . . .	138,246	2,165	84	13,914	21,504	100,579	36,194	102,052
IN . . . . .	93,605	1,169	137	7,940	22,640	61,719	19,941	73,664
IA . . . . .	112,904	782	-	9,495	31,503	71,124	9,519	103,385
KS . . . . .	133,963	872	135	9,191	33,282	90,483	11,071	123,792
KY . . . . .	74,121	762	91	5,491	17,647	50,130	10,079	63,042
LA . . . . .	60,828	894	46	5,300	12,549	42,039	13,942	46,886
ME . . . . .	22,664	367	18	2,314	5,943	14,022	2,631	20,033
MD . . . . .	30,322	481	235	3,556	5,021	21,029	14,321	16,001
MA . . . . .	35,265	566	199	5,638	5,485	23,377	23,063	12,202
MI . . . . .	121,722	1,241	224	12,220	25,737	82,300	29,932	91,790
MN . . . . .	131,996	912	146	12,660	29,561	88,717	15,953	116,043
MS . . . . .	73,318	685	41	7,099	15,529	49,964	7,933	65,385
MO . . . . .	122,831	1,178	320	9,386	24,978	86,969	16,370	106,461
MT . . . . .	69,662	1,191	-	6,017	16,406	46,048	2,585	67,077
NE . . . . .	92,798	482	17	7,884	20,787	63,628	5,175	87,623
NV . . . . .	35,871	560	43	2,864	5,219	27,185	5,789	30,082
NH . . . . .	15,173	225	40	1,557	2,710	10,641	2,929	12,244
NJ . . . . .	35,941	420	312	5,340	4,584	25,285	24,165	11,776
NM . . . . .	59,913	1,000	3	4,513	6,973	47,424	6,074	53,839
NY . . . . .	112,659	1,667	792	13,463	20,543	76,194	40,913	71,746
NC . . . . .	99,302	1,017	272	8,947	17,788	71,278	23,395	75,907
ND . . . . .	86,615	572	-	5,872	11,538	68,633	1,834	84,781
OH . . . . .	116,371	1,573	385	10,613	22,102	81,698	33,495	82,876
OK . . . . .	112,511	930	134	7,846	25,372	78,229	13,286	99,225
OR . . . . .	66,879	727	55	6,738	17,410	41,949	10,902	55,977
PA . . . . .	119,384	1,758	485	13,161	19,779	84,201	34,287	85,097
RI . . . . .	6,052	70	69	845	857	4,211	4,719	1,333
SC . . . . .	64,901	828	68	6,809	13,393	43,803	10,619	54,282
SD . . . . .	83,410	678	-	6,295	19,271	57,166	1,979	81,431
TN . . . . .	87,259	1,074	126	8,711	18,064	59,284	17,722	69,537
TX . . . . .	300,507	3,234	1,201	28,345	63,112	204,615	81,969	218,538
UT . . . . .	41,456	938	8	3,332	7,811	29,367	7,316	34,140
VT . . . . .	14,265	320	19	1,297	3,125	9,504	1,376	12,889
VA . . . . .	70,327	1,118	217	8,194	14,181	46,617	19,002	51,325
WA . . . . .	80,256	764	313	7,304	16,796	55,079	18,194	62,062
WV . . . . .	36,339	549	9	3,236	8,776	23,769	3,223	33,116
WI . . . . .	111,906	745	175	11,685	21,530	77,771	16,540	95,366
WY . . . . .	26,777	913	3	3,657	10,703	11,501	2,294	24,483

- Represents zero.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## No. 1076. Commodity Shipments—Value, Tons, and Ton-Miles: 1993 and 1997

[Based on the 1997 Economic Census; see Appendix III]

Mode of transportation	Value		Tons		Ton-miles	
	1993	1997	1993	1997	1993	1997
<b>All modes</b> . . . . .	<b>5,846,334</b>	<b>6,943,988</b>	<b>9,688,493</b>	<b>11,089,733</b>	<b>2,420,915</b>	<b>2,661,363</b>
<b>Single modes</b> . . . . .	<b>4,941,452</b>	<b>5,719,558</b>	<b>8,922,286</b>	<b>10,436,538</b>	<b>2,136,873</b>	<b>2,383,473</b>
Truck <sup>1</sup> . . . . .	4,403,494	4,981,531	6,385,915	7,700,675	869,536	1,023,506
For-hire truck . . . . .	2,625,093	2,901,345	2,808,279	3,402,605	629,000	741,117
Private truck . . . . .	1,755,837	2,036,528	3,543,513	4,137,294	235,897	268,592
Rail . . . . .	247,394	319,629	1,544,148	1,549,817	942,561	1,022,547
Water . . . . .	61,628	75,840	505,440	563,369	271,998	261,747
Shallow draft . . . . .	40,707	53,897	362,454	414,758	164,371	189,284
Great Lakes . . . . .	(S)	1,504	33,041	38,421	12,395	13,415
Deep draft . . . . .	19,749	20,439	109,945	110,191	95,232	59,047
Air (includes truck and air) . . . . .	139,086	229,062	3,139	4,475	4,009	6,233
Pipeline <sup>2</sup> . . . . .	89,849	113,497	483,645	618,202	(S)	(S)
<b>Multiple modes</b> . . . . .	<b>662,603</b>	<b>945,874</b>	<b>225,676</b>	<b>216,673</b>	<b>191,461</b>	<b>204,514</b>
Parcel, U.S. Postal Service or courier . . . . .	563,277	855,897	18,892	23,689	13,151	17,994
Truck and rail . . . . .	83,082	75,695	40,624	54,246	37,675	55,561
Truck and water . . . . .	9,392	8,241	67,995	33,215	40,610	34,767
Rail and water . . . . .	3,636	1,771	79,222	79,275	70,219	77,590
Other multiple modes . . . . .	3,216	4,269	18,943	26,248	(S)	18,603
<b>Other and unknown modes</b> . . . . .	<b>242,279</b>	<b>278,555</b>	<b>540,530</b>	<b>436,521</b>	<b>92,581</b>	<b>73,376</b>

S Data do not meet publication standards due to high sampling variability or other reasons. <sup>1</sup> Truck as a single mode includes shipments that went by private truck only, for hire truck only, or a combination of private truck and for-hire truck. <sup>2</sup> Commodity Flow Survey data exclude most shipments of crude oil.

Source: U.S. Bureau of Transportation Statistics and U.S. Census Bureau, 1997 Economic Census, Transportation, 1997 Commodity Flow Survey, Series EC97TCF-US, issued December 1999.

## No. 1077. Hazardous Material Shipment Characteristics: 1997

[Based on the 1997 Economic Census; see Appendix III]

Item	Value		Tons		Ton-miles		Average miles per shipment
	Amount (mil. dol.)	Percent	Number (1,000)	Percent	Number (mil.)	Percent	
<b>MODE OF TRANSPORTATION</b>							
<b>All modes</b> . . . . .	<b>466,407</b>	<b>100.0</b>	<b>1,565,196</b>	<b>100.0</b>	<b>263,809</b>	<b>100.0</b>	<b>113</b>
<b>Single modes</b> . . . . .	<b>452,727</b>	<b>97.1</b>	<b>1,541,716</b>	<b>98.5</b>	<b>258,912</b>	<b>98.1</b>	<b>95</b>
Truck <sup>1</sup> . . . . .	298,173	63.9	869,796	55.6	74,939	28.4	73
For-hire truck . . . . .	134,308	28.8	336,363	21.5	45,234	17.1	260
Private truck . . . . .	160,693	34.5	522,666	33.4	28,847	10.9	35
Rail . . . . .	33,340	7.1	96,626	6.2	74,711	28.3	853
Water . . . . .	26,951	5.8	143,152	9.1	68,212	25.9	(S)
Air (includes truck and air) . . . . .	8,558	1.8	66	(Z)	95	(Z)	1,462
Pipeline <sup>2</sup> . . . . .	85,706	18.4	432,075	27.6	(S)	(S)	(S)
<b>Multiple modes</b> . . . . .	<b>5,735</b>	<b>1.2</b>	<b>6,022</b>	<b>0.4</b>	<b>3,061</b>	<b>1.2</b>	<b>645</b>
Parcel, U.S. Postal Service or courier . . . . .	2,874	0.6	143	(Z)	78	(Z)	697
Other multiple modes . . . . .	2,861	0.6	5,879	0.4	2,982	1.1	(S)
<b>Other and unknown modes</b> . . . . .	<b>7,945</b>	<b>1.7</b>	<b>17,459</b>	<b>1.1</b>	<b>1,837</b>	<b>0.7</b>	<b>38</b>
<b>HAZARDOUS CLASS AND DESCRIPTION</b>							
<b>Total</b> . . . . .	<b>466,407</b>	<b>100.0</b>	<b>1,565,196</b>	<b>100.0</b>	<b>263,809</b>	<b>100.0</b>	<b>113</b>
Class 1, explosives . . . . .	4,342	0.9	1,517	0.1	(S)	(S)	549
Class 2, gases . . . . .	40,884	8.8	115,021	7.3	21,842	8.3	66
Class 3, flammable liquids . . . . .	335,619	72.0	1,264,281	80.8	159,979	60.6	73
Class 4, flammable solids . . . . .	3,898	0.8	11,804	0.8	9,618	3.6	838
Class 5, oxidizers and organic peroxides . . . . .	4,485	1.0	9,239	0.6	4,471	1.7	193
Class 6, toxic (poison) . . . . .	10,086	2.2	6,366	0.4	2,824	1.1	402
Class 7, radioactive materials . . . . .	2,722	0.6	87	(Z)	48	(Z)	445
Class 8, corrosive materials . . . . .	40,423	8.7	91,564	5.9	41,161	15.6	201
Class 9, misc. dangerous goods . . . . .	23,946	5.1	65,317	4.2	22,727	8.6	323

S Data do not meet publication standards because of high sampling variability or other reasons. Z Represents or rounds to zero. <sup>1</sup> "Truck" as a single mode includes shipments which went by private truck only, for-hire truck only or a combination of private truck and for-hire truck. <sup>2</sup> Commodity Flow Survey data exclude most shipments of crude oil.

Source: U.S. Bureau of Transportation Statistics and U.S. Census Bureau, 1997 Economic Census, Transportation, 1997 Commodity Flow Survey, Hazardous Materials, Series EC97TCF-US(HM)RV, issued April 2000.

# No. 1078. Bridge Inventory—Total and Deficient: 1996 to 2000

[As of December, except 2000 as of August. Based on the National Bridge Inventory program]

State and year	Deficient and obsolete						
	Number of bridges	Structurally deficient <sup>1</sup>			Functionally obsolete <sup>2</sup>		
		Total number	Percent	Number	Percent	Number	Percent
1996, total	581,862	182,726	31.4	101,518	17.4	81,208	14.0
1997, total	582,751	175,885	30.2	98,475	16.9	77,410	13.3
1998, total	582,984	172,582	29.6	93,076	16.0	79,506	13.6
1999, total	585,542	170,050	29.0	88,150	15.1	81,900	14.0
<b>U.S. total, 2000</b>	<b>587,755</b>	<b>167,993</b>	<b>28.6</b>	<b>87,106</b>	<b>14.8</b>	<b>80,887</b>	<b>13.8</b>
Alabama	15,635	5,053	32.3	2,846	18.2	2,207	14.1
Alaska	1,409	400	28.4	168	11.9	232	16.5
Arizona	6,714	696	10.4	196	2.9	500	7.4
Arkansas	12,451	3,500	28.1	1,482	11.9	2,018	16.2
California	23,672	6,790	28.7	2,458	10.4	4,332	18.3
Colorado	7,977	1,440	18.1	587	7.4	853	10.7
Connecticut	4,178	1,278	30.6	371	8.9	907	21.7
Delaware	824	131	15.9	53	6.4	78	9.5
District of Columbia	250	162	64.8	28	11.2	134	53.6
Florida	11,187	2,227	19.9	311	2.8	1,916	17.1
Georgia	14,382	3,712	25.8	1,774	12.3	1,938	13.5
Hawaii	1,066	550	51.6	201	18.9	349	32.7
Idaho	4,032	752	18.7	317	7.9	435	10.8
Illinois	25,497	4,961	19.5	2,821	11.1	2,140	8.4
Indiana	18,002	4,445	24.7	2,500	13.9	1,945	10.8
Iowa	24,632	7,124	28.9	5,008	20.3	2,116	8.6
Kansas	25,720	6,651	25.9	3,533	13.7	3,118	12.1
Kentucky	13,374	4,072	30.4	1,193	8.9	2,879	21.5
Louisiana	13,485	4,706	34.9	2,542	18.9	2,164	16.0
Maine	2,360	873	37.0	375	15.9	498	21.1
Maryland	4,965	1,445	29.1	440	8.9	1,005	20.2
Massachusetts	4,953	2,480	50.1	705	14.2	1,775	35.8
Michigan	10,581	3,517	33.2	2,181	20.6	1,336	12.6
Minnesota	12,811	1,882	14.7	1,278	10.0	604	4.7
Mississippi	16,672	5,144	30.9	3,851	23.1	1,293	7.8
Missouri	23,388	9,058	38.7	6,361	27.2	2,697	11.5
Montana	4,981	1,194	24.0	625	12.5	569	11.4
Nebraska	15,507	4,477	28.9	2,760	17.8	1,717	11.1
Nevada	1,424	216	15.2	68	4.8	148	10.4
New Hampshire	2,348	799	34.0	389	16.6	410	17.5
New Jersey	6,350	2,367	37.3	965	15.2	1,402	22.1
New Mexico	3,694	673	18.2	314	8.5	359	9.7
New York	17,387	7,038	40.5	3,430	19.7	3,608	20.8
North Carolina	16,822	5,326	31.7	2,606	15.5	2,720	16.2
North Dakota	4,517	1,174	26.0	893	19.8	281	6.2
Ohio	27,902	7,269	26.1	3,472	12.4	3,797	13.6
Oklahoma	22,799	9,497	41.7	8,053	35.3	1,444	6.3
Oregon	7,257	1,642	22.6	322	4.4	1,320	18.2
Pennsylvania	22,052	9,501	43.1	5,405	24.5	4,096	18.6
Rhode Island	747	375	50.2	187	25.0	188	25.2
South Carolina	9,064	1,878	20.7	1,009	11.1	869	9.6
South Dakota	6,032	1,802	29.9	1,430	23.7	372	6.2
Tennessee	19,404	4,954	25.5	1,890	9.7	3,064	15.8
Texas	47,886	10,378	21.7	3,312	6.9	7,066	14.8
Utah	2,750	604	22.0	359	13.1	245	8.9
Vermont	2,703	1,012	37.4	568	21.0	444	16.4
Virginia	12,710	3,524	27.7	1,237	9.7	2,287	18.0
Washington	7,876	2,103	26.7	580	7.4	1,523	19.3
West Virginia	6,730	2,791	41.5	1,205	17.9	1,586	23.6
Wisconsin	13,418	2,677	20.0	1,792	13.4	885	6.6
Wyoming	3,110	662	21.3	399	12.8	263	8.5
Puerto Rico	2,068	1,011	48.9	256	12.4	755	36.5

<sup>1</sup> Bridges are structurally deficient if they have been restricted to light vehicles, require immediate rehabilitation to remain open, or are closed. <sup>2</sup> Bridges are functionally obsolete if they have deck geometry, load carrying capacity, clearance or approach roadway alignment that not longer meet the criteria for the system of which the bridge is a part.

Source: U.S. Federal Highway Administration, Office of Bridge Technology, Internet site <<http://www.fhwa.dot.gov/bridge/brtab.htm>>.

## No. 1079. Funding for Highways and Disposition of Highway-User Revenue: 1990 to 1999

[In millions of dollars (75,444 represents \$75,444,000,000). Data compiled from reports of state and local authorities]

Type	1990	1993	1994	1995	1996	1997	1998	1999
<b>Total receipts</b> . . . . .	<b>75,444</b>	<b>88,380</b>	<b>91,312</b>	<b>96,269</b>	<b>102,771</b>	<b>107,421</b>	<b>109,881</b>	<b>117,878</b>
Current income . . . . .	69,880	80,610	84,017	87,620	94,972	98,667	100,975	106,602
Highway user revenues . . . . .	44,346	54,401	55,387	59,331	64,052	66,266	69,227	73,897
Other taxes and fees . . . . .	19,827	19,375	21,598	21,732	23,830	25,424	24,274	25,989
Investment income, other receipts . . . . .	5,707	6,834	7,032	6,557	7,090	6,977	7,474	6,715
Bond issue proceeds <sup>1</sup> . . . . .	5,564	7,770	7,295	8,649	7,799	8,754	8,906	11,276
Funds from (+) or to (-) reserves . . . . .	-36	-1,955	-1,120	-2,791	-4,689	-5,468	-2,689	-444
Total funds available . . . . .	75,408	86,425	90,192	93,478	98,082	101,953	107,192	117,434
<b>Total disbursements</b> . . . . .	<b>75,408</b>	<b>86,425</b>	<b>90,192</b>	<b>93,478</b>	<b>98,082</b>	<b>101,953</b>	<b>107,192</b>	<b>117,434</b>
Current disbursements . . . . .	72,457	81,233	85,645	88,994	93,492	97,320	101,995	111,963
Capital outlay . . . . .	35,151	39,528	42,379	44,228	46,810	48,360	51,614	59,499
Maintenance and traffic services . . . . .	20,365	22,894	23,553	24,319	25,564	26,777	27,235	29,212
Administration and research . . . . .	6,501	7,921	8,376	8,419	8,445	8,256	8,519	8,722
Law enforcement and safety . . . . .	7,235	7,157	7,673	8,218	8,897	9,761	10,155	9,946
Interest on debt . . . . .	3,205	3,733	3,664	3,810	3,776	4,166	4,472	4,584
Bond retirement <sup>1</sup> . . . . .	2,951	5,192	4,547	4,484	4,590	4,633	5,197	5,471

<sup>1</sup> Excludes issue and redemption of short-term notes or refunding bonds.  
Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and releases.

## No. 1080. Federal Aid to State and Local Governments for Highway Trust Fund and Federal Transit Administration (FTA) by State: 2000

[Year ending Sept. 30 (24,149 represents \$24,149,000,000)]

State	Highway trust fund		FTA		State	Highway trust fund		FTA		State	Highway trust fund		FTA	
	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)		Total (mil. dol.)	Per capita <sup>1</sup> (dol.)	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)		Total (mil. dol.)	Per capita <sup>1</sup> (dol.)	Total (mil. dol.)	Per capita <sup>1</sup> (dol.)
<b>U.S.<sup>2</sup></b>	<b>24,149</b>	<b>84.5</b>	<b>5,087</b>	<b>17.8</b>	KS	304	113.2	12	4.3	ND	187	291.8	5	7.2
AL	473	106.3	14	3.3	KY	519	128.4	27	6.6	OH	743	65.4	136	11.9
AK	336	535.3	7	11.2	LA	404	90.4	39	8.7	OK	320	92.8	18	5.3
AZ	436	85.0	49	9.5	MA	146	114.9	28	21.8	OR	287	83.9	46	13.3
AR	277	103.8	12	4.4	MD	378	71.5	106	19.9	PA	848	69.1	267	21.8
CA	1,967	58.1	871	25.7	MI	484	76.3	97	15.3	RI	133	126.9	16	15.5
CO	297	69.0	83	19.2	MN	847	85.2	78	7.9	SC	363	90.6	17	4.1
CT	399	117.3	60	17.6	MO	423	85.9	56	11.4	SD	180	237.9	4	5.8
DE	120	152.8	8	10.8	MS	272	95.6	6	2.1	TN	483	84.8	45	7.9
DC	311	228.5	171	299.4	MT	669	119.6	89	16.0	TX	1,783	85.5	308	14.8
FL	1,104	69.1	212	13.3	NE	260	288.4	28	31.5	UT	230	103.0	79	35.3
GA	710	86.7	132	16.1	NV	195	113.8	10	5.7	VT	115	189.7	9	14.7
HI	82	67.3	39	32.1	NH	149	74.7	19	9.3	VA	507	71.6	49	7.0
ID	172	132.9	7	5.7	NJ	123	99.4	4	3.3	WA	477	81.0	163	27.7
IL	858	69.1	278	22.4	NY	588	69.9	459	54.6	WV	286	158.2	12	6.4
IA	571	94.0	58	9.5	NC	263	144.3	10	5.4	WI	172	32.1	59	11.0
IN	571	94.0	58	9.5	ND	1,133	59.7	761	40.1	WY	181	366.1	2	4.1
KS	305	104.1	16	5.4	NC	756	93.9	28	3.5					

<sup>1</sup> Based on enumerated resident population as of April 1. <sup>2</sup> Includes outlying areas and undistributed funds not shown separately.  
Source: U.S. Census Bureau, *Federal Aid to States for Fiscal Year, 2000*.

## No. 1081. State Motor Fuel Tax Receipts, 1998 and 1999, and Gasoline Tax Rates, 1999

[555 represents \$555,000,000]

State	Net receipts (mil. dol.)		Tax rate, <sup>1</sup> 1999	State	Net receipts (mil. dol.)		Tax rate, <sup>1</sup> 1999	State	Net receipts (mil. dol.)		Tax rate, <sup>1</sup> 1999
	1998	1999			1998	1999			1998	1999	
AL	555	571	18.0	KY	454	488	16.4	ND	94	95	21.0
AK	23	25	8.0	LA	529	537	20.0	OH	1,421	1,464	22.0
AZ	508	560	18.0	ME	153	155	19.0	OK	395	401	17.0
AR	348	366	19.5	MD	633	672	23.5	OR	383	390	24.0
CA	2,775	2,936	18.0	MA	605	628	21.0	PA	1,660	1,678	25.9
CO	480	512	22.0	MI	1,005	1,048	19.0	RI	129	133	29.0
CT	524	498	32.0	MN	541	580	20.0	SC	398	424	16.0
DE	101	103	23.0	MO	363	367	18.4	SD	109	112	22.0
DC	31	33	20.0	MS	644	642	17.0	TN	696	703	20.0
FL	1,467	1,525	13.1	MT	168	173	27.0	TX	2,518	2,593	20.0
GA	421	406	7.5	NE	270	275	22.8	UT	295	311	24.5
HI	67	66	16.0	NV	292	280	24.8	VT	84	80	20.0
ID	196	209	25.0	NH	126	130	19.5	VA	747	771	17.5
IL	1,170	1,212	19.0	NJ	492	501	10.5	WA	703	716	23.0
IN	716	739	15.0	NY	244	249	18.5	WV	297	298	25.4
IA	392	399	20.0	NC	1,462	1,472	29.3	WI	727	783	25.4
KS	315	338	20.0	ND	1,017	1,017	21.2	WY	60	90	14.0

<sup>1</sup> Cents per gallon. In effect Dec. 31.  
Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## No. 1082. Public Highway Debt—State and Local Governments: 1980 to 1999

[In millions of dollars (2,381 represents \$2,381,000,000). Long-term obligations. Data are for varying calendar and fiscal years. Excludes duplicated and interunit obligations]

Item	1980	1985	1990	1994	1995	1996	1997	1998	1999
<b>Total debt issued</b> . . . . .	<b>2,381</b>	<b>8,194</b>	<b>5,708</b>	<b>10,833</b>	<b>11,305</b>	<b>9,728</b>	<b>12,347</b>	<b>16,412</b>	<b>(NA)</b>
State . . . . .	1,160	5,397	3,147	5,739	4,718	6,653	8,174	9,789	9,554
Local <sup>1</sup> . . . . .	1,221	2,797	2,561	5,094	6,587	3,075	4,173	6,623	(NA)
<b>Total debt redeemed</b> . . . . .	<b>1,987</b>	<b>5,294</b>	<b>3,120</b>	<b>6,178</b>	<b>5,634</b>	<b>6,380</b>	<b>7,043</b>	<b>11,735</b>	<b>(NA)</b>
State . . . . .	1,114	3,835	1,648	3,698	2,939	4,161	4,228	6,466	3,609
Local <sup>1</sup> . . . . .	873	1,459	1,472	2,480	2,695	2,219	2,815	5,269	(NA)
<b>Total debt outstanding<sup>2</sup></b> . . . . .	<b>27,616</b>	<b>32,690</b>	<b>46,586</b>	<b>63,062</b>	<b>68,733</b>	<b>72,197</b>	<b>77,501</b>	<b>82,599</b>	<b>(NA)</b>
State . . . . .	20,210	21,277	28,362	37,449	39,228	41,720	45,666	49,182	55,646
Local <sup>1</sup> . . . . .	7,406	11,413	18,224	25,613	29,505	30,477	31,835	33,417	(NA)

NA Not available. <sup>1</sup> Local data estimated. <sup>2</sup> End-of-year.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## No. 1083. State Disbursements for Highways by State: 1995 to 1999

[In millions of dollars (67,615 represents \$67,615,000,000). Comprises disbursements from current revenues or loans for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous. Includes transactions by state toll authorities. Excludes amounts allocated for collection expenses and nonhighway purposes, and bonds redeemed by refunding]

State	1995	1996	1997	1998	1999
<b>United States</b> . . . . .	<b>67,615</b>	<b>71,736</b>	<b>73,994</b>	<b>80,518</b>	<b>83,675</b>
Alabama . . . . .	1,002	1,064	1,019	1,053	1,085
Alaska . . . . .	438	453	435	404	416
Arizona . . . . .	1,199	1,532	1,359	1,430	1,860
Arkansas . . . . .	666	755	832	815	736
California . . . . .	5,966	5,831	6,219	6,574	6,876
Colorado . . . . .	922	922	887	1,166	1,260
Connecticut . . . . .	1,153	1,202	1,173	1,427	1,094
Delaware . . . . .	441	452	449	647	507
District of Columbia . . . . .	140	163	151	259	242
Florida . . . . .	3,421	3,472	3,734	4,024	3,992
Georgia . . . . .	1,437	1,675	1,372	1,613	1,763
Hawaii . . . . .	360	405	387	326	355
Idaho . . . . .	350	369	403	414	445
Illinois . . . . .	3,006	3,097	2,992	3,306	2,957
Indiana . . . . .	1,433	1,444	1,636	1,652	1,522
Iowa . . . . .	1,078	1,128	1,173	1,177	1,253
Kansas . . . . .	1,019	1,162	1,087	1,306	1,155
Kentucky . . . . .	1,397	1,372	1,331	1,481	1,578
Louisiana . . . . .	1,198	1,417	1,189	1,400	1,237
Maine . . . . .	379	509	474	485	458
Maryland . . . . .	1,289	1,449	1,489	1,492	1,554
Massachusetts . . . . .	2,501	2,545	3,287	3,351	4,407
Michigan . . . . .	1,974	1,966	2,100	2,745	2,629
Minnesota . . . . .	1,210	1,374	1,450	1,377	1,534
Mississippi . . . . .	662	826	809	843	968
Missouri . . . . .	1,313	1,402	1,492	1,438	1,600
Montana . . . . .	388	377	379	378	434
Nebraska . . . . .	578	595	611	589	681
Nevada . . . . .	484	468	431	446	557
New Hampshire . . . . .	328	346	360	371	416
New Jersey . . . . .	2,102	2,928	2,247	2,513	2,905
New Mexico . . . . .	535	532	546	570	753
New York . . . . .	4,584	4,424	4,778	6,051	5,347
North Carolina . . . . .	1,871	1,939	2,099	2,352	2,441
North Dakota . . . . .	270	266	326	306	413
Ohio . . . . .	2,637	2,709	2,940	3,327	3,158
Oklahoma . . . . .	828	918	867	944	1,322
Oregon . . . . .	888	995	992	1,051	1,009
Pennsylvania . . . . .	3,153	3,118	3,764	3,902	4,143
Rhode Island . . . . .	290	297	225	339	316
South Carolina . . . . .	668	678	741	766	885
South Dakota . . . . .	286	289	349	305	371
Tennessee . . . . .	1,230	1,283	1,351	1,420	1,398
Texas . . . . .	3,593	4,312	4,253	4,295	4,840
Utah . . . . .	431	457	802	1,129	1,072
Vermont . . . . .	194	192	213	222	252
Virginia . . . . .	2,107	2,321	2,358	2,619	2,771
Washington . . . . .	1,909	1,766	1,851	1,805	1,780
West Virginia . . . . .	781	935	940	893	930
Wisconsin . . . . .	1,252	1,324	1,354	1,398	1,614
Wyoming . . . . .	272	283	284	321	386

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## No. 1084. State Motor Vehicle Registrations: 1980 to 1999

[In thousands (155,796 represents 155,796,000). Compiled principally from information obtained from state authorities, but it was necessary to draw on other sources and to make numerous estimates in order to complete series. Includes Alaska and Hawaii. See also Table 1087]

Item	1980	1990	1995	1996	1997	1998	1999
<b>All motor vehicles</b> . . . . .	<b>155,796</b>	<b>188,798</b>	<b>201,530</b>	<b>206,365</b>	<b>207,754</b>	<b>211,617</b>	<b>216,309</b>
Private and commercial . . . . .	153,265	185,541	197,941	202,714	204,079	207,841	212,474
Publicly owned . . . . .	2,531	3,257	3,589	3,651	3,674	3,776	3,834
Automobiles <sup>1</sup> . . . . .	121,601	133,700	128,387	129,728	129,749	131,839	132,432
Private and commercial . . . . .	120,743	132,164	126,900	128,439	128,450	130,500	131,077
Publicly owned . . . . .	857	1,536	1,487	1,289	1,299	1,339	1,355
Buses . . . . .	529	627	686	697	698	716	729
Private and commercial . . . . .	254	275	288	291	294	302	307
Publicly owned . . . . .	275	351	398	406	403	413	422
Trucks <sup>1</sup> . . . . .	33,667	54,470	72,458	75,940	77,307	79,062	83,148
Private and commercial . . . . .	32,268	53,101	70,754	73,984	75,335	77,039	81,091
Publicly owned . . . . .	1,399	1,369	1,704	1,956	1,972	2,024	2,057

<sup>1</sup> Trucks include pickups, panels and delivery vans. Beginning 1990, personal passenger vans, passenger minivans, and utility-type vehicles are no longer included in automobiles but are included in trucks.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## No. 1085. Alternative Fueled Vehicles in Use by Fuel Type: 1999 to 2001

[339,340 represents 339,340,000]

Fuel type	Alternative fueled vehicles			Fuel consumption (1,000 gasoline-equivalent gallons)		
	1999	2000	2001	1999	2000	2001
<b>Fuels</b> . . . . .	<b>406,841</b>	<b>432,344</b>	<b>456,306</b>	<b>339,340</b>	<b>353,760</b>	<b>366,331</b>
Liquified petroleum gases (LPG) . . . . .	267,000	268,000	269,000	242,141	242,695	243,196
Compressed natural gas (CNG) . . . . .	89,556	100,530	109,730	86,286	97,568	107,476
Liquified natural gas (LNG) . . . . .	1,681	1,900	2,039	5,828	6,847	7,566
M85 (Mixture: 85% methanol + 15% gasoline) . . . . .	18,964	18,365	16,918	1,073	996	918
Neat methanol (M100) . . . . .	198	195	184	447	437	406
E85 (Mixture: 85% ethanol + 15% gasoline) . . . . .	22,464	34,680	48,022	2,075	3,344	4,575
E95 (Mixture: 95% ethanol + 5% gasoline) . . . . .	14	13	13	59	54	51
Electricity . . . . .	6,964	8,661	10,400	1,431	1,819	2,143

Source: Energy Information Administration, *Alternatives to Traditional Transportation Fuels: 1992-2001*.

## No. 1086. Number of Households, Leasing Vehicles, and Number of Vehicles Leased Per Household: 1989 to 1998

Item	Share of households leasing a vehicle for personal use (percents)				Average number of leased vehicles, among households having such vehicles			
	1989	1992	1995	1998	1989	1992	1995	1998
<b>All households</b> . . . . .	<b>2.5</b>	<b>2.9</b>	<b>4.5</b>	<b>6.4</b>	<b>1.1</b>	<b>1.1</b>	<b>1.1</b>	<b>1.2</b>
Household income:								
Less than \$10,000 . . . . .	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	1.2
\$10,000 to \$24,999 . . . . .	(Z)	(Z)	1.5	4.0	(Z)	(Z)	1.0	1.1
\$25,000 to \$49,999 . . . . .	(Z)	3.3	3.4	5.0	(Z)	1.1	1.0	1.1
\$50,000 to \$99,999 . . . . .	6.1	4.1	9.4	9.5	1.1	1.1	1.2	1.2
\$100,000 and over . . . . .	5.0	9.6	14.2	14.8	1.2	1.1	1.3	1.3
Age of household head:								
Less than 35 years . . . . .	4.2	3.2	4.8	8.2	1.1	1.0	1.0	1.1
35 to 44 years . . . . .	3.0	4.2	5.4	8.3	1.0	1.1	1.1	1.1
45 to 54 years . . . . .	3.3	3.2	7.8	7.6	1.1	1.2	1.2	1.3
55 to 64 years . . . . .	(Z)	3.2	4.1	4.4	1.6	1.2	1.2	1.1
65 to 74 years . . . . .	(Z)	1.0	1.3	2.9	(Z)	1.0	1.1	1.2
75 years and over . . . . .	(Z)	(Z)	0.5	1.9	(Z)	(Z)	1.0	1.0
Race/ethnicity of respondent:								
White non-Hispanic . . . . .	2.7	3.1	4.4	6.3	1.1	1.1	1.1	1.1
Non-White and Hispanic . . . . .	(Z)	2.3	4.9	6.5	(Z)	1.1	1.1	1.3
Work status of household head:								
Work for someone else . . . . .	3.5	3.4	6.0	8.1	1.1	1.1	1.1	1.2
Self employed . . . . .	3.4	7.2	5.2	9.0	1.0	1.1	1.3	1.1
Retired . . . . .	(Z)	0.7	1.3	1.5	(Z)	1.3	1.0	1.2
Other not working . . . . .	(Z)	(Z)	3.0	(Z)	(Z)	(Z)	1.0	(Z)
Homeownership status:								
Owner . . . . .	2.2	3.5	5.8	7.2	1.1	1.1	1.2	1.2
Renter or other . . . . .	3.0	1.8	2.3	4.8	1.1	1.1	1.1	1.1
Net worth percentile:								
Bottom 25 percent . . . . .	(Z)	2.1	2.7	4.8	(Z)	1.1	1.1	1.1
25 to 49.9 percent . . . . .	2.8	(Z)	4.2	5.4	1.1	(Z)	1.0	1.1
50 to 74.9 percent . . . . .	2.5	3.1	4.2	6.8	1.1	1.1	1.1	1.2
75 to 89.9 percent . . . . .	2.9	3.5	6.2	7.8	1.0	1.0	1.2	1.2
Top 10 percent . . . . .	2.5	6.4	8.3	9.5	1.3	1.2	1.3	1.2

Z Ten or fewer observations.

Source: Board of Governors of the Federal Reserve System, *Survey of Consumer Finances*.

## No. 1087. State Motor Vehicle Registrations, 1980 to 1999, and Licensed Drivers and Motorcycle Registrations, 1999 by State

[In thousands (155,796 represents 155,796,000). Motor vehicle registrations cover publicly, privately, and commercially owned vehicles. For uniformity, data have been adjusted to a calendar-year basis as registration years in states differ; figures represent net numbers where possible, excluding re-registrations and nonresident registrations. See also Table 1084]

State	Motor vehicle registrations <sup>1</sup>							1999		
	1980	1985	1990	1995	1997	1998	1999			
							Total	Auto-mobiles (incl. taxis)	Motor-cycle registration (incl. official) <sup>2</sup>	Licensed drivers
<b>U.S . . . .</b>	<b>155,796</b>	<b>171,689</b>	<b>188,798</b>	<b>201,530</b>	<b>207,754</b>	<b>211,617</b>	<b>216,309</b>	<b>132,432</b>	<b>4,111</b>	<b>187,170</b>
AL . . . . .	2,938	3,383	3,744	3,553	3,669	3,859	3,957	1,918	49	3,446
AK . . . . .	262	353	477	542	542	546	571	238	15	459
AZ . . . . .	1,917	2,235	2,825	2,873	3,143	2,944	3,606	2,037	144	3,297
CA . . . . .	1,574	1,384	1,448	1,613	1,634	1,754	1,818	946	22	1,926
AR . . . . .	16,873	18,899	21,926	22,432	24,945	25,600	26,362	16,657	406	20,831
CO . . . . .	2,342	2,759	3,155	2,812	3,523	3,466	3,858	2,054	95	2,991
CT . . . . .	2,147	2,465	2,623	2,622	2,660	2,701	2,766	1,994	53	2,374
DE . . . . .	397	465	526	592	614	616	616	402	11	552
DC . . . . .	268	306	262	243	234	229	235	197	1	349
FL . . . . .	7,614	9,865	10,950	10,369	10,874	11,276	11,390	7,305	230	12,401
GA . . . . .	3,818	4,580	5,489	6,120	6,242	6,893	6,973	4,012	86	5,471
HI . . . . .	570	651	771	802	693	704	718	454	19	753
ID . . . . .	834	854	1,054	1,043	1,081	1,119	1,130	494	41	873
IL . . . . .	7,477	7,527	7,873	8,973	8,443	9,307	9,355	6,307	217	7,925
IN . . . . .	3,826	3,824	4,366	5,072	5,346	5,372	5,495	3,224	109	3,856
IA . . . . .	2,329	2,696	2,632	2,814	2,851	3,053	3,050	1,724	125	1,935
KS . . . . .	2,007	2,148	2,012	2,085	2,152	2,121	2,224	1,187	49	1,892
KY . . . . .	2,593	2,615	2,909	2,631	2,781	2,845	2,662	1,593	42	2,660
LA . . . . .	2,779	3,012	2,995	3,286	3,411	3,431	3,505	1,965	42	2,763
ME . . . . .	724	840	977	967	1,059	930	915	551	31	912
MD . . . . .	2,803	3,276	3,607	3,654	3,786	3,750	3,896	2,666	46	3,195
MI . . . . .	3,749	3,738	3,726	4,502	5,070	5,159	5,333	3,823	103	4,421
MA . . . . .	6,488	6,727	7,209	7,674	8,024	8,128	8,290	5,070	167	6,863
MN . . . . .	3,091	3,385	3,508	3,882	3,927	4,178	4,010	2,265	127	2,907
MS . . . . .	1,577	1,746	1,875	2,144	2,234	2,256	2,317	1,299	32	1,788
MO . . . . .	3,271	3,558	3,905	4,255	4,351	4,378	4,404	2,602	57	3,840
MT . . . . .	680	652	783	968	980	988	998	455	22	660
NE . . . . .	1,254	1,258	1,384	1,467	1,507	1,526	1,570	833	19	1,203
NV . . . . .	655	709	853	1,047	1,146	1,220	1,162	620	23	1,322
NH . . . . .	704	974	946	1,122	1,127	1,038	1,051	678	48	919
NJ . . . . .	4,761	5,164	5,652	5,906	5,817	5,780	6,103	4,341	105	5,551
NM . . . . .	1,068	1,226	1,301	1,484	1,514	1,595	1,576	761	30	1,222
NY . . . . .	8,002	9,042	10,196	10,274	10,873	10,422	10,756	7,892	142	10,627
NC . . . . .	4,532	4,501	5,162	5,682	5,786	5,862	5,690	3,424	78	5,491
ND . . . . .	627	655	630	695	695	672	704	343	16	458
OH . . . . .	7,771	8,102	8,410	9,810	10,108	10,039	10,236	6,652	240	8,046
OK . . . . .	2,583	2,911	2,649	2,856	2,884	2,919	2,931	1,524	53	2,313
OR . . . . .	2,081	2,204	2,445	2,785	2,891	2,980	3,013	1,560	66	2,462
PA . . . . .	6,926	7,209	7,971	8,481	8,825	8,979	9,009	6,072	200	8,478
RI . . . . .	623	610	672	699	710	715	747	535	19	689
SC . . . . .	1,996	2,222	2,521	2,833	2,850	2,893	3,026	1,873	47	2,810
SD . . . . .	601	657	704	709	718	769	782	379	26	544
TN . . . . .	3,271	3,754	4,444	5,400	4,535	4,469	4,427	2,622	63	4,176
TX . . . . .	10,475	12,444	12,800	13,682	12,923	13,324	14,069	7,738	164	13,359
UT . . . . .	992	1,099	1,206	1,447	1,530	1,532	1,577	857	25	1,440
VT . . . . .	347	398	462	492	496	496	518	302	18	496
VA . . . . .	3,626	4,253	4,938	5,613	5,709	5,818	5,871	3,769	57	4,729
WA . . . . .	3,225	3,526	4,257	4,503	4,702	4,824	4,862	2,741	107	4,129
WV . . . . .	1,320	1,143	1,225	1,425	1,355	1,378	1,379	760	19	1,274
WI . . . . .	2,941	3,187	3,815	3,993	4,233	4,203	4,266	2,521	192	3,733
WY . . . . .	467	500	528	601	553	559	528	196	16	363

<sup>1</sup> Automobiles, trucks, and buses. Excludes vehicles owned by military services. <sup>2</sup> Private and commercial.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and *Selected Highway Statistics and Charts*, annual.

## No. 1088. Recreational Vehicles—Number and Retail Value of Shipments: 1980 to 1997

[181.4 represents 181,400]

Item	1980	1985	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
<b>NUMBER (1,000)</b>												
<b>Total</b> . . . . .	<b>181.4</b>	<b>351.7</b>	<b>420.0</b>	<b>388.3</b>	<b>347.3</b>	<b>293.7</b>	<b>382.7</b>	<b>420.2</b>	<b>518.8</b>	<b>475.2</b>	<b>466.8</b>	<b>438.8</b>
Motorized homes . . . . .	99.9	233.5	277.1	261.6	226.5	172.6	226.3	243.8	306.7	281.0	274.6	239.3
Travel trailers . . . . .	52.0	75.4	89.6	82.9	80.4	77.6	102.5	113.6	128.0	121.2	123.9	131.6
Folding camping trailers . . . . .	24.5	35.9	42.3	33.9	30.7	33.9	43.3	51.9	61.7	61.1	57.3	57.6
Truck campers . . . . .	5.0	6.9	11.0	9.9	9.7	9.6	10.6	10.9	11.4	11.9	11.0	10.3
<b>RETAIL VALUE (mil. dol.)</b>												
<b>Total</b> . . . . .	<b>1,952</b>	<b>6,904</b>	<b>9,061</b>	<b>9,019</b>	<b>8,101</b>	<b>6,623</b>	<b>8,774</b>	<b>9,518</b>	<b>12,196</b>	<b>12,104</b>	<b>12,365</b>	<b>11,928</b>
Motorized homes . . . . .	1,381	5,724	7,543	7,420	6,660	5,284	6,963	7,544	9,897	9,768	9,788	9,139
Travel trailers . . . . .	485	997	1,254	1,252	1,220	1,107	1,523	1,644	1,912	1,927	2,171	2,356
Folding camping trailers . . . . .	69	137	175	147	134	146	189	(NA)	276	290	284	309
Truck campers . . . . .	17	46	88	81	86	87	99	(NA)	112	119	122	124

NA Not available.

Source: Recreation Vehicle Industry Association, Reston, VA, *RVIA Industry Profile 1997*. Data also in American Automobile Manufacturers Association of the United States, Inc., Washington, DC, *Motor Vehicle Facts and Figures*, annual.

## No. 1089. Roadway Congestion: 1999

[15,960 represents 15,960,000 Various federal, state, and local information sources were used to develop the data base with the primary source being the Federal Highway Administration's Highway Performance Monitoring System. Areas shown are rated the top 40 in annual congestion costs per person]

Urbanized areas	Freeway daily vehicle miles of travel		Annual person hours of delay		Annual congestion cost		
	Total miles (1,000)	Per lane-mile of freeway	Total hours	Per person	Per person (dol.)	Delay and fuel cost (mil. dol.)	Fuel wasted (gal. per person)
<b>Total, average</b> <sup>1</sup> . . . . .	<b>15,960</b>	<b>15,890</b>	<b>65,930</b>	<b>36</b>	<b>625</b>	<b>1,145</b>	<b>55</b>
Albuquerque NM . . . . .	3,875	16,850	18,790	33	575	325	50
Atlanta GA . . . . .	40,630	17,780	152,535	53	915	2,620	84
Austin TX . . . . .	8,110	14,480	29,450	45	785	510	71
Baltimore MD . . . . .	21,755	14,800	66,215	31	530	1,150	48
Boston MA . . . . .	22,500	17,240	126,800	42	715	2,155	63
Charlotte NC . . . . .	7,000	15,555	20,115	32	550	345	51
Chicago IL-Northwestern IN . . . . .	48,550	18,250	271,420	34	570	4,605	50
Cincinnati OH-KY . . . . .	15,500	15,980	41,285	32	575	735	53
Columbus OH . . . . .	11,700	14,355	29,500	29	500	515	46
Dallas TX . . . . .	30,900	14,645	108,785	46	780	1,865	70
Denver CO . . . . .	16,500	15,940	83,045	45	760	1,415	67
Detroit MI . . . . .	30,400	16,840	165,035	41	700	2,810	62
Fort Worth TX . . . . .	16,650	13,590	45,365	33	570	780	51
Ft. Lauderdale-Hollywood-Pompano Beach FL . . . . .	11,935	16,575	43,015	29	500	735	44
Houston TX . . . . .	37,725	15,400	155,470	50	850	2,665	76
Indianapolis IN . . . . .	11,315	15,605	37,470	37	635	645	57
Jacksonville FL . . . . .	9,355	13,365	25,425	30	520	440	46
Kansas City MO-KS . . . . .	18,790	10,895	32,665	24	410	570	37
Los Angeles CA . . . . .	123,200	23,335	711,100	56	1,000	12,570	84
Louisville KY-IN . . . . .	10,035	14,980	30,970	37	635	530	57
Miami-Hialeah FL . . . . .	12,920	17,225	88,070	42	705	1,485	61
Minneapolis-St. Paul MN . . . . .	26,165	16,890	89,310	38	670	1,565	61
Nashville TN . . . . .	10,245	13,770	28,630	42	710	455	64
New York NY-Northeastern NJ . . . . .	100,260	15,215	565,805	34	595	9,745	52
Norfolk VA . . . . .	7,300	11,230	24,975	24	415	430	38
Orlando FL . . . . .	8,725	12,375	47,250	42	705	790	38
Philadelphia PA-NJ . . . . .	24,155	14,005	117,105	26	435	1,990	38
Phoenix AZ . . . . .	16,995	17,705	79,905	31	540	1,385	47
Portland-Vancouver OR-WA . . . . .	12,350	17,520	51,030	34	610	910	53
Providence-Pawtucket RI-MA . . . . .	8,255	12,800	25,655	28	490	445	44
Sacramento CA . . . . .	11,490	16,895	46,055	34	605	830	53
San Antonio TX . . . . .	15,420	14,345	29,485	24	410	510	37
San Bernardino-Riverside CA . . . . .	16,270	18,490	53,285	38	685	965	59
San Diego CA . . . . .	31,775	17,850	100,180	37	675	1,820	59
San Francisco-Oakland CA . . . . .	45,710	19,575	168,880	42	760	3,055	65
San Jose CA . . . . .	18,635	16,490	69,605	42	750	1,250	65
Seattle-Everett WA . . . . .	24,130	18,560	105,165	53	930	1,860	81
St. Louis MO-IL . . . . .	25,600	14,465	87,405	44	745	1,495	67
Tacoma WA . . . . .	5,250	17,500	16,195	27	490	295	43
Tampa FL . . . . .	6,000	13,795	30,700	35	590	520	50
Washington DC-MD-VA . . . . .	33,875	18,210	160,245	46	780	2,730	69

<sup>1</sup> Includes other areas not shown separately.

Source: Texas Transportation Institute, College Station, Texas; *Roadway Congestion in Major Urban Areas*, annual (copyright). See <<http://mobility.tamu.edu/2001/study/finalreport.pdf>> (issued May 2001).



## No. 1090. Travel in the United States by Selected Trip Characteristics: 1995

[656,462 represents 656,462,000. Trips of 100 miles or more, one way. U.S. destinations only. Data based on a sample and subject to sampling variability. For information and definitions of terms, see source]

Trip characteristic	Household trips		Person trips		Person miles		Personal use vehicle trips		Personal use vehicle miles	
	Number (1,000)	Per-cent	Number (1,000)	Per-cent	Number (1,000)	Per-cent	Number (1,000)	Per-cent	Number (1,000)	Per-cent
<b>Total</b> . . . . .	<b>656,462</b>	<b>100.0</b>	<b>1,001,319</b>	<b>100.0</b>	<b>826,804</b>	<b>100.0</b>	<b>505,154</b>	<b>100.0</b>	<b>280,127</b>	<b>100.0</b>
Principal means of transportation:										
Personal use vehicles . . . . .	505,154	77.0	813,858	81.3	451,590	54.6	505,154	100.0	280,127	100.0
Airplane . . . . .	129,164	19.7	161,165	16.1	355,286	43.0	(X)	(X)	(X)	(X)
Commercial airplane . . . . .	124,884	19.0	155,936	15.6	347,934	42.1	(X)	(X)	(X)	(X)
Bus . . . . .	17,340	2.6	20,445	2.0	13,309	1.6	(X)	(X)	(X)	(X)
Intercity bus . . . . .	2,755	0.4	3,244	0.3	2,723	0.3	(X)	(X)	(X)	(X)
Charter, tour, or school bus . . . . .	11,890	1.8	14,247	1.4	9,363	1.1	(X)	(X)	(X)	(X)
Train . . . . .	4,200	0.6	4,994	0.5	4,356	0.5	(X)	(X)	(X)	(X)
Ship, boat, or ferry . . . . .	391	0.1	614	0.1	1,834	0.2	(X)	(X)	(X)	(X)
Other . . . . .	213	-	243	-	429	0.1	(X)	(X)	(X)	(X)
Round trip distance:										
Less than 300 miles . . . . .	194,098	29.6	306,433	30.6	74,658	9.0	185,418	36.7	45,159	16.1
300 to 499 miles . . . . .	174,389	26.6	274,045	27.4	106,007	12.8	159,743	31.6	61,779	22.1
500 to 999 miles . . . . .	140,046	21.3	214,006	21.4	146,631	17.7	106,846	21.2	72,114	25.7
1,000 to 1,999 miles . . . . .	76,110	11.6	108,331	10.8	153,316	18.5	36,722	7.3	49,953	17.8
2,000 miles or more . . . . .	71,819	10.9	98,503	9.8	346,192	41.9	16,425	3.3	51,123	18.3
Mean (miles) . . . . .	872	(X)	827	(X)	(X)	(X)	555	(X)	(X)	(X)
Median <sup>2</sup> (miles) . . . . .	438	(X)	425	(X)	(X)	(X)	368	(X)	(X)	(X)
Main purpose of trip:										
Business . . . . .	192,537	29.3	224,835	22.5	212,189	25.7	125,036	24.8	61,929	22.1
Pleasure . . . . .	372,586	56.8	630,110	62.9	506,971	61.3	305,571	60.5	177,698	63.4
Visit friends or relatives . . . . .	195,468	29.8	330,755	33.0	264,769	32.0	159,981	31.7	92,190	32.9
Leisure <sup>3</sup> . . . . .	177,119	27.0	299,355	29.9	242,201	29.3	145,590	28.8	85,508	30.5
Rest or relaxation . . . . .	65,017	9.9	115,154	11.5	100,838	12.2	53,780	10.6	33,598	12.0
Sightseeing . . . . .	24,272	3.7	42,649	4.3	50,781	6.1	18,069	3.6	14,654	5.2
Outdoor recreation . . . . .	39,899	6.1	65,418	6.5	41,620	5.0	35,987	7.1	19,407	6.9
Entertainment . . . . .	37,456	5.7	58,757	5.9	42,929	5.2	27,920	5.5	14,531	5.2
Personal business . . . . .	91,319	13.9	146,338	14.6	107,621	13.0	74,532	14.8	40,490	14.5
Other . . . . .	19	-	36	-	23	-	16	-	9	-

- Represents or rounds to zero. X Not applicable. <sup>1</sup> Includes other types of buses. <sup>2</sup> For definition of median, see Guide to Tabular Presentation. <sup>3</sup> Includes other leisure activities not shown separately.  
Source: U.S. Bureau of Transportation Statistics, 1995 American Travel Survey.

## No. 1091. National Personal Transportation Survey (NPTS)—Summary of Travel Trends: 1969 to 1995

[87,284 represents 87,284,000,000. Data obtained by collecting information on all trips taken by the respondent on a specific day (known as travel day), combined with longer trips taken over a 2-week period (known as travel period). For compatibility with previous survey data, all data are based only on trips taken during travel day. Be aware that terminology changes from survey to survey. See source for details. 1995 data not comparable with previous years]

Characteristics	Unit	1969 <sup>1</sup>	1977	1983	1990	1995
Vehicle trips . . . . .	Millions . . .	87,284	108,826	126,874	158,927	229,745
Vehicle miles of travel (VMT) . . . . .	Millions . . .	775,940	907,603	1,002,139	1,409,600	2,068,368
Person trips . . . . .	Millions . . .	145,146	211,778	224,385	249,562	378,930
Person miles of travel . . . . .	Millions . . .	1,404,137	1,879,215	1,946,662	2,315,300	3,411,122
Average annual VMT per household <sup>2</sup> . . . . .	Miles . . . . .	12,423	12,036	11,739	15,100	20,895
To or from to work . . . . .	Miles . . . . .	4,183	3,815	3,538	4,853	6,492
Shopping . . . . .	Miles . . . . .	929	1,336	1,567	1,743	2,807
Other family or personal business . . . . .	Miles . . . . .	1,270	1,444	1,816	3,014	4,307
Social and recreational . . . . .	Miles . . . . .	4,094	3,286	3,534	4,060	4,764
Average annual vehicle trips per household <sup>2</sup> . . . . .	Number . . . .	1,396	1,442	1,486	1,702	2,321
To or from to work . . . . .	Number . . . .	445	423	414	448	553
Shopping . . . . .	Number . . . .	213	268	297	345	501
Other family or personal business . . . . .	Number . . . .	195	215	272	411	626
Social and recreational . . . . .	Number . . . .	312	320	335	349	427
Average vehicle trip length <sup>2</sup> . . . . .	Miles . . . . .	8.90	8.35	7.90	8.98	9.06
To or from to work . . . . .	Miles . . . . .	9.40	9.02	8.55	10.97	11.80
Shopping . . . . .	Miles . . . . .	4.36	4.99	5.28	5.10	5.64
Other family or personal business . . . . .	Miles . . . . .	6.51	6.72	6.68	7.43	6.93
Social and recreational . . . . .	Miles . . . . .	13.12	10.27	10.55	11.80	11.24
Average vehicle occupancy <sup>2</sup> . . . . .	Persons . . . .	(NA)	1.9	1.75	1.64	1.59
To or from to work . . . . .	Persons . . . .	(NA)	1.3	1.29	1.14	1.14
Shopping . . . . .	Persons . . . .	(NA)	2.1	1.79	1.71	1.74
Other family or personal business . . . . .	Persons . . . .	(NA)	2.0	1.81	1.84	1.78
Social and recreational . . . . .	Persons . . . .	(NA)	2.4	2.12	2.08	2.04
Workers by usual mode to work . . . . .	Percent . . . .	100.0	100.0	100.0	100.0	100.0
Auto . . . . .	Percent . . . .	90.8	93.0	92.4	87.8	91.0
Public transit . . . . .	Percent . . . .	8.4	4.7	5.8	5.3	5.1
Other . . . . .	Percent . . . .	0.8	2.3	1.8	6.9	3.9

NA Not available. <sup>1</sup> Excludes pickups and other light-trucks as household vehicles. <sup>2</sup> Includes other purposes not shown separately.  
Source: U.S. Federal Highway Administration, Summary of Travel Trends, 1995 National Personal Transportation Survey, December 1999.

## No. 1092. Motor Vehicle Accidents—Number and Deaths: 1980 to 1999

[17.9 represents 17,900,000]

Item	Unit	1980	1985	1990	1994	1995	1996	1997	1998	1999
Motor vehicle accidents <sup>1</sup>	Million	17.9	19.3	11.5	11.2	10.7	11.2	13.8	12.7	11.4
Vehicles involved:										
Cars	Million	22.8	25.6	14.3	13.5	12.3	13.3	16.0	13.8	11.6
Trucks	Million	5.5	6.1	4.4	5.2	4.5	4.8	7.7	7.3	6.2
Motorcycles	1,000	560	480	180	178	152	135	138	100	70
Motor vehicle deaths within 1 yr. <sup>2</sup>	1,000	53.2	45.9	46.8	42.5	43.4	43.6	43.5	41.8	41.3
Noncollision accidents	1,000	14.7	12.6	4.9	4.4	4.4	4.6	4.4	4.2	4.3
Collision accidents:										
With other motor vehicles	1,000	23.0	19.9	19.9	18.9	19	19.6	19.9	18.5	18.8
With pedestrians	1,000	9.7	8.5	7.3	6.3	6.4	6.1	5.9	5.9	5.8
With fixed objects	1,000	3.7	3.2	13.1	11.5	12.1	12.1	12.0	12.0	11.1
Deaths within 30 days <sup>3</sup>	1,000	51.1	43.8	44.6	40.7	41.8	42.1	42.0	41.5	41.7
Occupants	1,000	41.9	36.0	37.1	34.3	35.3	35.7	35.7	35.4	35.9
Passenger cars	1,000	27.4	23.2	24.1	22.0	22.4	22.5	22.2	21.2	20.9
Light trucks	1,000	7.5	6.7	8.6	8.9	9.6	9.9	10.2	10.7	11.3
Large trucks	1,000	1.3	1.0	0.7	0.7	0.6	0.6	0.7	0.7	0.8
Motorcycles	1,000	5.1	4.6	3.2	2.3	2.2	2.2	2.1	2.3	2.5
Buses	1,000	(Z)	0.1	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	0.1
Other/unknown	1,000	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4
Nonoccupants	1,000	9.2	7.8	7.5	6.4	6.5	6.4	6.3	6.1	5.8
Pedestrians	1,000	8.1	6.8	6.5	5.5	5.6	5.4	5.3	5.2	4.9
Pedicyclist	1,000	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8
Other/unknown	1,000	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1
Traffic death rates: <sup>3 4</sup>										
Per 100,000 resident population	Rate	22.5	18.4	17.9	15.6	15.9	15.9	15.7	15.4	15.3
Per 100,000 licensed drivers	Rate	35.2	27.9	26.7	23.2	23.7	23.4	23.0	22.4	22.3
Per 100,000 registered vehicles	Rate	34.8	26.4	24.2	21.2	21.2	20.9	20.6	20.0	19.6
Per 100 million vehicle miles	Rate	3.3	2.5	2.1	1.7	1.7	1.7	1.6	1.6	1.6

Z Fewer than 50. <sup>1</sup> Covers only accidents occurring on the road. <sup>2</sup> Deaths that occur within 1 year of accident. Includes collision categories not shown separately. <sup>3</sup> Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, *Traffic Safety Facts, 1999*, and unpublished data. <sup>4</sup> Based on 30-day definition of traffic deaths.

Source: Except as noted, National Safety Council, Itasca, IL, *Injury Facts*, annual (copyright).

## No. 1093. Motor Vehicle Deaths by State: 1980 to 1999

[For deaths within 30 days of the accident. Does not reflect revisions to 1999 data. See Tables 1056, 1092, 1094, 1095, 1097, 1098 and 1099]

State					Fatality rate <sup>1</sup>		State					Fatality rate <sup>1</sup>	
	1980	1985	1990	1999	1980	1999		1980	1985	1990	1999	1980	1999
<b>U.S.<sup>1</sup></b>	<b>51,091</b>	<b>43,825</b>	<b>44,599</b>	<b>41,611</b>	<b>3.3</b>	<b>1.5</b>	MO	1,175	931	1,097	1,094	3.4	1.6
AL	940	882	1,121	1,138	3.2	2.0	MT	325	223	212	220	4.9	2.2
AK	88	127	98	76	3.3	1.7	NE	396	237	262	295	3.5	1.6
AZ	947	893	869	1,024	5.3	2.2	NV	346	259	343	350	5.7	2.0
AR	588	534	604	604	3.6	2.1	NH	194	191	158	141	3.0	1.2
CA	5,496	4,960	5,192	3,559	3.5	1.2	NJ	1,120	964	886	727	2.2	1.1
CO	709	579	544	626	3.2	1.5	NM	606	535	499	460	5.4	2.1
CT	575	448	385	301	3.0	1.0	NY	2,610	2,006	2,217	1,548	3.4	1.2
DE	153	104	138	100	3.6	1.2	NC	1,503	1,482	1,385	1,505	3.6	1.7
DC	41	60	48	41	1.2	1.2	ND	151	90	112	119	2.9	1.6
FL	2,825	2,832	2,891	2,918	3.6	2.1	OH	2,033	1,646	1,638	1,430	2.8	1.4
GA	1,508	1,361	1,562	1,508	3.5	1.5	OK	959	744	641	739	3.5	1.7
HI	186	126	177	98	3.3	1.2	OR	646	559	579	414	3.4	1.2
ID	331	255	244	278	4.8	2.0	PA	2,089	1,771	1,646	1,549	2.9	1.5
IL	1,975	1,534	1,589	1,456	3.0	1.4	RI	129	109	84	88	2.4	1.1
IN	1,166	974	1,049	1,013	3.0	1.4	SC	852	951	979	1,065	3.8	2.4
IA	626	474	465	490	3.3	1.7	SD	228	130	153	150	3.7	1.8
KS	595	486	444	537	3.4	1.9	TN	1,153	1,101	1,177	1,285	3.4	2.0
KY	820	712	849	814	3.2	1.7	TX	4,366	3,678	3,250	3,518	3.8	1.7
LA	1,219	931	959	924	5.0	2.2	UT	334	303	272	360	3.1	1.6
ME	265	206	213	181	3.5	1.3	VT	137	115	90	90	3.7	1.3
MD	756	729	707	590	2.6	1.2	VA	1,045	976	1,079	877	2.7	1.2
MA	881	742	605	414	2.5	0.8	WA	971	744	825	634	3.4	1.2
MI	1,750	1,545	1,571	1,382	2.8	1.4	WV	523	420	481	395	4.9	2.1
MN	848	608	566	625	3.0	1.2	WI	972	744	769	745	3.1	1.3
MS	695	662	750	927	4.2	2.7	WY	245	152	125	189	4.9	2.4

<sup>1</sup> Deaths per 100 million vehicle miles traveled.

Source: U.S. National Highway Safety Traffic Administration, *Traffic Safety Facts, 1999*.

## No. 1094. Fatal Motor Vehicle Accidents—National Summary: 1990 to 1999

[Based on data from the Fatal Accident Reporting System (FARS). FARS gathers data on accidents that result in loss of human life. FARS is operated and maintained by National Highway Traffic Safety Administration's (NHTSA) National Center for Statistics and Analysis (NCSA). FARS data are gathered on motor vehicle accidents that occurred on a roadway customarily open to the public, resulting in the death of a person within 30 days of the accident. Collection of these data depend on the use of police, hospital, medical examiner/coroner, and Emergency Medical Services reports; State vehicle registration, driver licensing, and highway department files; and vital statistics documents and death certificates. See source for further detail]

Item	1990	1993	1994	1995	1996	1997	1998	1999
<b>Fatal crashes, total</b>	<b>39,836</b>	<b>35,780</b>	<b>36,254</b>	<b>37,241</b>	<b>37,494</b>	<b>37,324</b>	<b>37,107</b>	<b>37,140</b>
One vehicle involved	23,445	20,569	20,526	21,250	21,134	20,807	20,900	20,911
Two or more vehicles involved	16,391	15,211	15,728	15,991	16,360	16,517	16,207	16,229
<b>Persons killed in fatal crashes</b>	<b>44,599</b>	<b>40,150</b>	<b>40,716</b>	<b>41,817</b>	<b>42,065</b>	<b>42,013</b>	<b>41,501</b>	<b>41,717</b>
Occupants	37,134	33,574	34,318	35,291	35,695	35,725	35,382	35,875
Drivers	25,750	23,142	23,691	24,390	24,534	24,667	24,743	25,257
Passengers	11,276	10,361	10,518	10,782	11,058	10,944	10,530	10,521
Other	108	71	109	119	103	114	109	97
Nonmotorists	7,465	6,576	6,398	6,526	6,370	6,288	6,119	5,842
Pedestrians	6,482	5,649	5,489	5,584	5,449	5,321	5,228	4,939
Pedalcyclists	859	816	802	833	765	814	760	754
Other	124	111	107	109	156	153	131	149
<b>Occupants killed by vehicle type:</b>								
<b>Passenger cars:</b>								
Minicompact (95 inches)	3,556	2,635	2,339	2,207	2,037	1,763	1,480	1,224
Subcompact (95 to 99 inches)	4,753	4,833	4,721	4,584	4,581	4,457	4,034	3,663
Compact (100 to 104 inches)	5,310	5,707	6,322	6,899	7,288	7,195	6,804	6,942
Intermediate (105 to 109 inches)	4,849	4,483	4,407	4,666	4,670	4,794	4,617	4,721
Full size (110 to 114 inches)	2,386	2,067	2,074	2,116	2,147	2,242	2,014	2,179
Largest (115 inches and over)	2,249	1,608	1,486	1,297	1,270	1,239	1,092	708
Unknown	989	733	648	654	512	509	1,153	1,425
<b>Motorcycles</b>	3,129	2,336	2,190	2,114	2,046	2,028	2,186	2,374
<b>Other motorized cycles</b>	115	113	130	113	115	88	108	109
<b>Light trucks</b>	8,601	8,511	8,904	9,568	9,932	10,249	10,705	11,265
Pickup	5,979	5,538	5,574	5,938	5,904	5,887	5,921	6,127
Utility	1,214	1,521	1,757	1,935	2,147	2,380	2,713	3,026
Van	1,154	1,365	1,508	1,639	1,832	1,914	2,042	2,088
Other	254	87	65	56	49	68	29	24
<b>Medium trucks</b>	134	90	109	96	87	122	99	90
<b>Heavy trucks</b>	571	515	561	552	534	601	643	669
<b>Buses</b>	32	18	18	33	21	18	38	59
<b>Other vehicles</b>	296	306	317	307	340	343	336	355
Unknown	164	119	92	85	115	77	73	92
<b>Persons involved in fatal crashes</b>	<b>107,777</b>	<b>97,589</b>	<b>98,945</b>	<b>102,102</b>	<b>103,347</b>	<b>102,197</b>	<b>101,100</b>	<b>100,666</b>
Occupants	99,297	90,150	91,644	94,621	96,159	95,050	94,241	93,959
Drivers	58,893	53,401	54,549	56,164	57,001	56,688	56,604	56,502
Passengers	40,229	36,599	36,898	38,252	38,913	38,184	37,448	37,280
Other	175	150	197	205	245	178	189	177
Nonoccupants	8,480	7,439	7,301	7,481	7,188	7,147	6,859	6,707
Vehicle miles traveled (VMT) (100 mil)	21,444	22,964	23,576	24,227	24,858	25,617	26,315	26,913
Licensed drivers (1,000)	167,015	173,149	175,403	176,628	179,539	182,709	184,980	187,170
Registered vehicles (1,000)	184,275	188,350	192,497	197,065	201,631	203,568	208,076	212,685
<b>Fatalities, by road type:</b>								
Interstate	4,993	4,201	4,713	4,835	5,245	5,332	5,388	5,597
Federal-aid primary	14,203	11,317	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Federal-aid secondary	6,892	4,907	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Federal-aid urban	8,432	6,095	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nonfederal-aid	10,039	8,545	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Unknown	40	5,085	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
<b>Percent distribution of fatal accidents by the highest blood alcohol concentration (BAC) in accident:</b>								
0.00 percent	50.6	56.5	59.1	58.7	59.1	61.5	61.3	61.6
0.01 to 0.09 percent	9.7	8.5	8.4	8.6	8.7	8.1	8.3	8.3
0.10 percent and over	39.7	34.9	32.5	32.6	32.1	30.3	30.4	30.1
<b>Fatalities per 100,000 population:</b>								
Under 5 years old	4.9	4.5	4.8	4.3	4.6	4.1	4.0	3.9
5 years to 15 years old	6.4	5.8	6.0	6.0	5.7	5.6	5.2	5.1
16 years to 24 years old	35.2	30.1	30.6	30.7	30.7	29.3	28.5	28.9
25 years to 44 years old	19.7	16.8	16.3	17.2	16.9	16.6	16.4	16.4
45 years to 64 years old	14.9	13.0	13.3	13.6	13.8	14.2	14.0	13.8
65 years to 79 years old	18.8	17.9	18.7	18.5	18.7	19.2	18.7	18.3
80 years and over	26.8	27.8	28.0	28.0	27.8	29.2	28.4	27.3
<b>Fatalities per 100 million VMT:</b>	2.1	1.7	1.7	1.7	1.7	1.6	1.6	1.6
<b>Fatalities per 100,000 licensed drivers:</b>	26.7	23.2	23.2	23.7	23.4	23.0	22.4	22.3
<b>Licensed driver per person:</b>	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
<b>Fatal crashes per 100 million VMT:</b>	1.9	1.6	1.5	1.5	1.5	1.5	1.4	1.4
<b>Involved vehicles per fatal crash:</b>	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
<b>Fatalities per fatal crash:</b>	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<b>Average occupants per fatal crash:</b>	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5
<b>Fatalities per 100,000 population:</b>	17.9	15.6	15.6	15.9	15.9	15.7	15.4	15.3

NA Not available.

Source: National Highway Traffic Safety Administration, *Fatal Accident Reporting System*, annual.

## No. 1095. Motor Vehicle Occupants and Nonoccupants Killed and Injured: 1985 to 1999

[3,416 represents 3,416,000] For deaths within 30 days of the accident]

Year	Occupants								Nonoccupants			
	Total	Total	Passenger cars	Light trucks	Large trucks	Motorcycles	Buses	Other/un-known	Total	Pedestrian	Pedalcyclist	Other/un-known
<b>KILLED</b>												
1985	43,825	36,043	23,212	6,689	977	4,564	57	544	7,782	6,808	890	84
1986	46,087	38,234	24,944	7,317	926	4,566	39	442	7,853	6,779	941	133
1987	46,390	38,565	25,132	8,058	852	4,036	51	436	7,825	6,745	948	132
1988	47,087	39,170	25,808	8,306	911	3,662	54	429	7,917	6,870	911	136
1989	45,582	38,087	25,063	8,551	858	3,141	50	424	7,495	6,556	832	107
1990	44,599	37,134	24,092	8,601	705	3,244	32	460	7,465	6,482	859	124
1991	41,508	34,740	22,385	8,391	661	2,806	31	466	6,768	5,801	843	124
1992	39,250	32,880	21,387	8,098	585	2,395	28	387	6,370	5,549	723	98
1993	40,150	33,574	21,566	8,511	605	2,449	18	425	6,576	5,649	816	111
1994	40,716	34,318	21,997	8,904	670	2,320	18	409	6,398	5,489	802	107
1995	41,817	35,291	22,423	9,568	648	2,227	33	392	6,526	5,584	833	109
1996	42,065	35,695	22,505	9,932	621	2,161	21	455	6,370	5,449	765	156
1997	42,013	35,725	22,199	10,249	723	2,116	18	420	6,288	5,321	814	153
1998	41,501	35,382	21,194	10,705	742	2,294	38	409	6,119	5,228	760	131
1999	41,717	35,875	20,862	11,265	759	2,483	59	447	5,842	4,939	754	149
<b>INJURED (1,000)</b>												
1988	3,416	3,224	2,585	478	37	105	15	4	192	110	75	8
1989	3,284	3,088	2,431	511	43	83	15	5	196	112	73	11
1990	3,231	3,044	2,376	505	42	84	33	4	187	105	75	7
1991	3,097	2,931	2,235	563	28	80	21	4	166	88	67	11
1992	3,070	2,908	2,232	545	34	65	20	12	162	89	63	10
1993	3,149	2,978	2,265	601	32	59	17	4	171	94	68	9
1994	3,266	3,102	2,364	631	30	57	16	4	164	92	62	9
1995	3,465	3,303	2,469	722	30	57	19	4	162	86	67	10
1996	3,483	3,332	2,458	761	33	55	20	4	151	82	58	11
1997	3,348	3,201	2,341	755	31	53	17	6	146	77	58	11
1998	3,192	3,061	2,201	763	29	49	16	4	131	69	53	8
1999	3,236	3,097	2,138	847	33	50	22	7	140	85	51	3

Source: U.S. National Highway Traffic Safety Administration, *Traffic Safety Facts, 1999*; and unpublished data.

## No. 1096. Large Truck Involvement in Fatal Crashes by State: 1999

[Medium/heavy trucks represents trucks over 10,000 pounds gross vehicle weight, including single unit trucks]

State	Large trucks involved in fatal crashes				State	Large trucks involved in fatal crashes			
	Total vehicles involved in fatal crashes	Percent of total	Number	Percent of U.S. total for large trucks		Total vehicles involved in fatal crashes	Percent of total	Number	Percent of U.S. total for large trucks
<b>United States</b>	<b>56,820</b>	<b>4,920</b>	<b>8.7</b>	<b>100.0</b>	Missouri	1,504	155	10.3	3.2
Alabama	1,520	144	9.5	2.9	Montana	256	15	5.9	0.3
Alaska	104	5	4.8	0.1	Nebraska	401	58	14.5	1.2
Arizona	1,410	108	7.7	2.2	Nevada	461	41	8.9	0.8
Arkansas	784	92	11.7	1.9	New Hampshire	187	9	4.8	0.2
California	4,626	319	6.9	6.5	New Jersey	1,000	59	5.9	1.2
Colorado	843	60	7.1	1.2	New Mexico	560	48	8.6	1.0
Connecticut	400	22	5.5	0.4	New York	2,147	159	7.4	3.2
Delaware	153	10	6.5	0.2	North Carolina	2,119	190	9.0	3.9
District of Columbia	60	2	3.3	(Z)	North Dakota	144	18	12.5	0.4
Florida	4,228	327	7.7	6.6	Ohio	2,022	201	9.9	4.1
Georgia	2,092	220	10.5	4.5	Oklahoma	970	82	8.5	1.7
Hawaii	141	3	2.1	0.1	Oregon	572	48	8.4	1.0
Idaho	349	25	7.2	0.5	Pennsylvania	2,132	207	9.7	4.2
Illinois	2,034	193	9.5	3.9	Rhode Island	119	9	7.6	0.2
Indiana	1,408	191	13.6	3.9	South Carolina	1,411	124	8.8	2.5
Iowa	701	99	14.1	2.0	South Dakota	197	18	9.1	0.4
Kansas	711	82	11.5	1.7	Tennessee	1,783	168	9.4	3.4
Kentucky	1,064	94	8.8	1.9	Texas	4,819	385	8.0	7.8
Louisiana	1,243	120	9.7	2.4	Utah	435	41	9.4	0.8
Maine	257	25	9.7	0.5	Vermont	113	8	7.1	0.2
Maryland	864	57	6.6	1.2	Virginia	1,169	107	9.2	2.2
Massachusetts	574	35	6.1	0.7	Washington	848	59	7.0	1.2
Michigan	2,012	132	6.6	2.7	West Virginia	515	50	9.7	1.0
Minnesota	915	86	9.4	1.7	Wisconsin	1,017	74	7.3	1.5
Mississippi	1,214	111	9.1	2.3	Wyoming	212	25	11.8	0.5

Z Less than 0.05 percent.

Source: U.S. National Highway Traffic Safety Administration, *Traffic Safety Facts, annual*; and unpublished data.

## No. 1097. Speeding-Related Traffic Fatalities by Road Type and Speed Limit: 1999

[Speeding consists of exceeding the posted speed limit or driving too fast for the road conditions]

State	Speeding-related fatalities by road type and speed limit								
	Traffic fatalities, total	Interstate		Noninterstate					
		Over 55 mph	At or under 55 mph	55 mph	50 mph	45 mph	40 mph	35 mph	Under 35 mph
<b>United States . . . . .</b>	<b>41,717</b>	<b>1,340</b>	<b>412</b>	<b>3,778</b>	<b>545</b>	<b>1,485</b>	<b>839</b>	<b>1,347</b>	<b>1,286</b>
Alabama . . . . .	1,138	37	4	97	14	154	31	40	19
Alaska . . . . .	79	3	7	9	4	2	2	6	3
Arizona . . . . .	1,024	49	15	51	31	64	51	40	25
Arkansas . . . . .	604	14	1	83	5	23	4	13	16
California . . . . .	3,559	191	25	356	60	86	100	153	115
Colorado . . . . .	626	27	17	44	19	26	29	37	37
Connecticut . . . . .	301	4	9	5	3	24	8	9	49
Delaware . . . . .	100	-	2	5	10	-	-	2	2
District of Columbia . . . . .	41	-	-	-	2	2	-	1	6
Florida . . . . .	2,920	51	20	76	13	90	55	51	59
Georgia . . . . .	1,508	39	14	118	5	51	13	42	26
Hawaii . . . . .	98	-	2	1	-	2	-	11	13
Idaho . . . . .	278	13	-	20	13	8	-	12	4
Illinois . . . . .	1,456	50	51	203	5	43	19	58	50
Indiana . . . . .	1,020	15	10	81	10	28	16	33	37
Iowa . . . . .	490	7	-	21	-	1	2	2	15
Kansas . . . . .	540	15	-	29	5	6	12	8	21
Kentucky . . . . .	814	10	1	152	4	11	2	24	4
Louisiana . . . . .	938	5	4	64	8	16	5	20	9
Maine . . . . .	181	5	-	5	10	26	8	10	11
Maryland . . . . .	590	8	3	11	29	5	35	35	35
Massachusetts . . . . .	414	15	10	2	6	16	18	20	38
Michigan . . . . .	1,382	24	13	154	4	19	10	37	34
Minnesota . . . . .	626	18	3	88	6	6	7	2	17
Mississippi . . . . .	927	30	1	72	24	32	9	13	15
Missouri . . . . .	1,094	57	12	134	5	23	9	35	42
Montana . . . . .	220	7	-	13	3	5	-	9	9
Nebraska . . . . .	295	9	-	6	27	6	-	8	4
Nevada . . . . .	350	30	5	13	5	22	5	9	17
New Hampshire . . . . .	140	3	-	2	2	-	6	10	24
New Jersey . . . . .	726	1	3	4	15	9	5	5	22
New Mexico . . . . .	460	18	4	28	9	14	11	19	25
New York . . . . .	1,599	11	13	184	19	21	38	18	88
North Carolina . . . . .	1,505	36	13	314	12	107	2	70	7
North Dakota . . . . .	119	4	1	24	2	-	4	1	6
Ohio . . . . .	1,430	42	9	191	10	29	15	27	19
Oklahoma . . . . .	741	56	3	40	9	41	21	16	16
Oregon . . . . .	414	11	4	75	2	7	9	7	10
Pennsylvania . . . . .	1,549	35	38	166	11	99	85	104	44
Rhode Island . . . . .	88	4	1	2	3	1	-	6	8
South Carolina . . . . .	1,065	55	9	193	11	84	18	52	30
South Dakota . . . . .	150	4	-	23	2	4	2	5	2
Tennessee . . . . .	1,302	30	22	105	13	73	38	27	49
Texas . . . . .	3,522	165	47	208	38	108	89	103	105
Utah . . . . .	360	30	3	11	1	5	6	12	10
Vermont . . . . .	90	4	-	-	20	-	3	8	1
Virginia . . . . .	878	16	10	114	4	35	6	30	14
Washington . . . . .	637	21	-	22	31	9	17	59	37
West Virginia . . . . .	395	18	-	43	1	18	11	9	11
Wisconsin . . . . .	745	17	2	108	-	22	2	17	24
Wyoming . . . . .	189	26	1	8	-	2	1	2	2

- Represents zero. <sup>1</sup> Includes fatalities that occurred on roads for which the speed limit was unknown.

Source: U.S. National Highway Traffic Safety Administration, *Traffic Safety Facts 1995, Speeding, Traffic Safety Facts, Speeding*, annual; and unpublished data.

## No. 1098. Traffic Fatalities by State and Highest Blood Alcohol Concentration (BAC) in the Crash: 1998

[BAC means blood alcohol concentration; g/dl means grams per deciliter]

State	No alcohol (BAC=0.00 g/dl)			Any alcohol (BAC=0.01 g/dl) or more					
	Traffic fatalities, total	Number	Percent	Total		Low alcohol (BAC=0.01-0.09 g/dl)		High alcohol (BAC=0.10 g/dl or more)	
				Number	Percent	Number	Percent	Number	Percent
<b>United States . . . . .</b>	<b>41,717</b>	<b>25,741</b>	<b>62</b>	<b>15,976</b>	<b>38</b>	<b>3,523</b>	<b>8</b>	<b>12,453</b>	<b>30</b>
Alabama . . . . .	1,138	708	62	430	38	77	7	353	31
Alaska . . . . .	79	38	48	41	52	8	10	34	43
Arizona . . . . .	1,024	618	60	406	40	77	8	329	32
Arkansas . . . . .	604	414	69	190	31	49	8	140	23
California . . . . .	3,559	2,208	62	1,351	38	343	10	1,009	28
Colorado . . . . .	626	405	65	221	35	48	8	173	28
Connecticut . . . . .	301	166	55	135	45	33	11	102	34
Delaware . . . . .	100	60	60	40	40	6	6	34	34
District of Columbia . . . . .	41	19	47	22	53	6	14	16	39
Florida . . . . .	2,920	1,874	64	1,046	36	215	7	831	28
Georgia . . . . .	1,508	1,001	66	507	34	136	9	371	25
Hawaii . . . . .	98	55	56	43	44	11	12	31	32
Idaho . . . . .	278	179	64	99	36	24	9	75	27
Illinois . . . . .	1,456	821	56	635	44	131	9	504	35
Indiana . . . . .	1,020	656	64	364	36	81	8	282	28
Iowa . . . . .	490	328	67	162	33	43	9	119	24
Kansas . . . . .	540	357	66	183	34	43	8	139	26
Kentucky . . . . .	814	530	65	284	35	51	6	233	29
Louisiana . . . . .	938	504	54	434	46	102	11	332	35
Maine . . . . .	181	122	68	59	32	8	5	51	28
Maryland . . . . .	590	388	66	202	34	62	11	140	24
Massachusetts . . . . .	414	211	51	203	49	63	15	140	34
Michigan . . . . .	1,382	835	60	547	40	106	8	442	32
Minnesota . . . . .	626	425	68	201	32	39	6	162	26
Mississippi . . . . .	927	565	61	362	39	62	7	300	32
Missouri . . . . .	1,094	655	60	439	40	116	11	323	29
Montana . . . . .	220	117	53	103	47	16	7	87	40
Nebraska . . . . .	295	170	58	125	42	38	13	87	30
Nevada . . . . .	350	194	55	156	45	52	15	105	30
New Hampshire . . . . .	140	72	51	68	49	25	18	43	31
New Jersey . . . . .	726	439	60	287	40	76	10	211	29
New Mexico . . . . .	460	254	55	206	45	37	8	169	37
New York . . . . .	1,599	1,174	73	425	27	112	7	313	20
North Carolina . . . . .	1,505	969	64	536	36	123	8	413	27
North Dakota . . . . .	119	63	53	56	47	11	10	45	38
Ohio . . . . .	1,430	933	65	497	35	95	7	402	28
Oklahoma . . . . .	741	494	67	247	33	49	7	197	27
Oregon . . . . .	414	244	59	170	41	29	7	141	34
Pennsylvania . . . . .	1,549	953	62	596	38	109	7	488	31
Rhode Island . . . . .	88	52	59	36	41	12	14	23	27
South Carolina . . . . .	1,065	732	69	333	31	50	5	283	27
South Dakota . . . . .	150	85	57	65	43	9	6	56	37
Tennessee . . . . .	1,302	807	62	495	38	96	7	399	31
Texas . . . . .	3,522	1,771	50	1,751	50	404	11	1,347	38
Utah . . . . .	360	286	79	74	21	18	5	56	15
Vermont . . . . .	90	56	62	34	38	9	10	25	28
Virginia . . . . .	878	558	64	320	36	74	8	246	28
Washington . . . . .	637	370	58	267	42	43	7	224	35
West Virginia . . . . .	395	250	63	145	37	26	6	119	30
Wisconsin . . . . .	745	436	59	309	41	53	7	256	34
Wyoming . . . . .	189	119	63	70	37	15	8	56	29

Source: U.S. National Highway Traffic Safety Administration, *Traffic Safety Facts*, annual; and unpublished data.

## No. 1099. Fatalities by Highest Blood Alcohol Concentration in the Crash: 1985 to 1999

[BAC means blood alcohol concentration; g/dl means grams per deciliter]

Item	1985	1990	1992	1993	1994	1995	1996	1997	1998	1999
<b>Total fatalities . . . . .</b>	<b>43,825</b>	<b>44,599</b>	<b>39,250</b>	<b>40,150</b>	<b>40,716</b>	<b>41,817</b>	<b>42,065</b>	<b>42,013</b>	<b>41,501</b>	<b>41,717</b>
Fatalities in alcohol-related crashes . . . . .	22,716	22,084	17,858	17,473	16,580	17,247	17,218	16,189	16,020	15,976
Percent . . . . .	51.8	49.5	45.5	43.5	40.7	41.2	40.9	38.5	38.6	38.3
BAC = 0.01-0.09 g/dl:										
Number . . . . .	4,604	4,434	3,625	3,496	3,480	3,746	3,774	3,480	3,526	3,523
Percent . . . . .	10.5	9.9	9.2	8.7	8.5	9	9	8.3	8.5	8.4
BAC = 0.10 g/dl or more:										
Number . . . . .	18,111	17,650	14,234	13,977	13,100	13,501	13,444	12,710	12,494	12,453
Percent . . . . .	41.3	39.6	36.3	34.8	32.2	32.3	32	30.3	30.1	29.9
Fatalities with BAC = 0.00 g/dl:										
Number . . . . .	21,109	22,515	21,392	22,677	24,136	24,570	24,847	25,824	25,481	25,741
Percent . . . . .	48.2	50.5	54.5	56.5	59.3	58.8	59.1	61.5	61.4	61.7

Source: U.S. National Highway Traffic Safety Administration, *Traffic Safety Facts*, annual; and unpublished data.

## No. 1100. Crashes by Crash Severity: 1990 to 1999

[6,471 represents 6,471,000 Does not reflect revisions to 1999 data. See Table 1094. A crash is a police-reported event that produces injury and/or property damage, involves a vehicle in transport and occurs on a traffic way or while the vehicle is in motion after running off the trafficway]

Item	1990	1992	1993	1994	1995	1996	1997	1998	1999
<b>Crashes (1,000)</b> . . . . .	<b>6,471</b>	<b>6,000</b>	<b>6,106</b>	<b>6,496</b>	<b>6,699</b>	<b>6,770</b>	<b>6,624</b>	<b>6,335</b>	<b>6,279</b>
Fatal . . . . .	39.8	34.9	35.8	36.3	37.2	37.5	37.3	37.1	37.0
Nonfatal injury . . . . .	2,122	1,991	2,022	2,123	2,217	2,238	2,149	2,029	2,054
Property damage only . . . . .	4,309	3,974	4,048	4,336	4,446	4,494	4,438	4,269	4,188
Percent of total crashes:									
Fatal . . . . .	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Nonfatal injury . . . . .	32.8	33.2	33.1	32.7	33.1	33.1	32.4	32.0	32.7
Property damage only . . . . .	66.6	66.2	66.3	66.8	66.4	66.4	67.0	67.4	66.7

Source: U.S. National Highway Safety Traffic Administration, *Traffic Safety Facts, 1999*.

## No. 1101. Alcohol Involvement for Drivers in Fatal Crashes: 1989 and 1999

[BAC = blood alcohol concentration]

Drivers involved in fatal crashes	1989		1999	
	Number of drivers	Percentage with BAC of .10% or greater	Number of drivers	Percentage with BAC of .10% or greater
<b>Total drivers</b> <sup>1</sup> . . . . .	<b>60,435</b>	<b>24</b>	<b>56,352</b>	<b>17</b>
Drivers by age group:				
16 to 20 years old . . . . .	9,442	20	7,973	14
21 to 24 years old . . . . .	7,723	35	5,620	27
25 to 34 years old . . . . .	15,928	32	11,734	24
35 to 44 years old . . . . .	10,106	25	11,023	21
45 to 64 years old . . . . .	10,240	17	12,292	13
65 years old and over . . . . .	5,431	7	6,559	5
Drivers by sex:				
Male . . . . .	45,448	27	40,900	20
Female . . . . .	14,054	14	14,792	10
Drivers by vehicle type:				
Passenger cars . . . . .	35,204	24	27,806	17
Light trucks . . . . .	15,579	28	19,801	20
Large trucks . . . . .	4,903	3	4,847	1
Motorcycles . . . . .	3,182	40	2,515	28

<sup>1</sup> Includes age, sex, and types of vehicles unknown.

Source: U.S. National Highway Safety Traffic Administration, *Traffic Safety Facts, 1999*.

## No. 1102. Licensed Drivers and Number in Accidents by Age: 1999

[188,167 represents 188,167,000]

Age group	Licensed drivers		Drivers in accidents				Accidents per number of drivers	
	Number (1,000)	Percent	Fatal		All		Fatal <sup>1</sup>	All <sup>2</sup>
			Number	Percent	Number (1,000)	Percent		
<b>Total</b> . . . . .	<b>188,167</b>	<b>100.0</b>	<b>42,200</b>	<b>100.0</b>	<b>18,000</b>	<b>100.0</b>	<b>22</b>	<b>10</b>
Under 16 years old . . . . .	31	(Z)	300	0.7	130	0.7	( <sup>3</sup> )	( <sup>3</sup> )
16 years old . . . . .	1,707	0.9	1,100	2.6	660	3.7	64	39
17 years old . . . . .	2,403	1.3	1,200	2.8	730	4.1	50	30
18 years old . . . . .	2,805	1.5	1,500	3.6	730	4.1	53	26
19 years old . . . . .	3,040	1.6	1,600	3.8	660	3.7	53	22
19 years old and under . . . . .	9,986	5.4	5,700	13.5	2,910	16.2	57	29
20 years old . . . . .	3,106	1.7	1,100	2.6	560	3.1	35	18
21 years old . . . . .	3,030	1.6	1,100	2.6	530	2.9	36	17
22 years old . . . . .	3,027	1.6	1,000	2.4	490	2.7	33	16
23 years old . . . . .	3,141	1.7	900	2.1	450	2.5	29	14
24 years old . . . . .	3,300	1.8	900	2.1	430	2.4	27	13
20 to 24 years old . . . . .	15,604	8.4	5,000	11.8	2,460	13.7	32	16
25 to 34 years old . . . . .	37,781	20.1	8,100	19.2	3,780	21.0	21	10
35 to 44 years old . . . . .	42,307	22.5	8,100	19.4	3,580	19.9	19	8
45 to 54 years old . . . . .	34,050	18.1	6,100	14.5	2,490	13.8	18	7
55 to 64 years old . . . . .	21,651	11.5	3,800	9.0	1,340	7.4	18	6
65 to 74 years old . . . . .	16,069	8.5	2,500	5.9	840	4.7	16	5
75 years old and over . . . . .	10,719	5.7	2,900	6.9	600	3.3	27	6

Z Less than 0.05. <sup>1</sup> Per 100,000 licensed drivers. <sup>2</sup> Per 100 licensed drivers. <sup>3</sup> Rates for drivers under age 16 are substantially overstated due to the high proportion of unlicensed drivers involved.

Source: National Safety Council, Itasca, IL, *Injury Facts, 2000*, (copyright).

## No. 1103. Motor Vehicle Distance Traveled by Type of Vehicle: 1970 to 1999

[1,110 represents 1,110,000,000,000. Travel estimates based on automatic traffic recorder data. Speed trend data for 1970 were collected by several state highway agencies, normally during summer months; beginning 1980 all states have monitored speeds at locations on several highway systems Monitoring Program]

Year	Vehicle-miles of travel (bil.)					Avg. miles per vehicle (1,000)				
	Passenger cars					Passenger cars				
	Total	Cars <sup>1</sup>	Buses <sup>2</sup>	Vans, pickups, SUVs	Trucks <sup>3</sup>	Total	Cars <sup>1</sup>	Buses <sup>2</sup>	Vans, pickups, SUVs	Trucks <sup>3</sup>
1970	1,110	920	4.5	123	62	10.0	10.0	12.0	8.7	13.6
1980	1,527	1,122	6.1	291	108	9.5	8.8	11.5	10.4	18.7
1985	1,775	1,256	4.5	391	124	10.0	9.4	7.5	10.5	20.6
1990	2,144	1,418	5.7	575	146	11.1	10.3	9.1	11.9	23.6
1991	2,172	1,367	5.8	649	150	11.3	10.3	9.1	12.2	24.2
1992	2,247	1,381	5.8	707	153	11.6	10.6	9.0	12.4	25.4
1993	2,296	1,385	6.1	746	160	11.6	10.5	9.4	12.4	26.3
1994	2,358	1,416	6.4	765	170	11.7	10.8	9.6	12.2	25.8
1995	2,423	1,438	6.4	790	178	11.8	11.2	9.4	12.0	26.5
1996	2,486	1,470	6.6	817	183	11.8	11.3	9.4	11.8	26.1
1997	2,562	1,503	6.8	851	191	12.1	11.6	9.8	12.1	27.0
1998	2,632	1,550	7.0	868	196	12.2	11.8	9.8	12.2	25.4
1999	2,691	1,569	7.7	901	203	12.2	11.9	10.5	12.0	26.0

<sup>1</sup> Includes motorcycles through 1994; thereafter in total, not shown separately. <sup>2</sup> Includes school buses. <sup>3</sup> Includes combinations.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## No. 1104. Passenger Transit Industry—Summary: 1985 to 1999

[12,195 represents \$12,195,000,000. Includes Puerto Rico. Includes aggregate information for all transit systems in the United States. Excludes nontransit services such as taxicab, school bus, unregulated jitney, sightseeing bus, intercity bus, and special application mass transportation systems (e.g., amusement parks, airports, island, and urban park ferries). Includes active vehicles only]

Item	Unit	1985	1990	1995	1997	1998	1999
Operating systems	Number	4,972	5,078	5,973	5,973	6,000	6,000
Motor bus systems	Number	2,631	2,688	2,250	2,250	2,262	2,262
Passenger vehicles, active <sup>1</sup>	Number	94,368	92,961	115,874	126,360	123,855	128,516
Motor bus	Number	64,258	58,714	67,107	72,770	72,142	74,228
Trolley bus	Number	676	832	885	859	880	859
Heavy rail	Number	9,326	10,419	10,157	10,242	10,301	10,306
Light rail	Number	717	913	999	1,229	1,220	1,297
Commuter rail	Number	4,035	4,415	4,565	4,943	4,963	4,883
Demand response	Number	14,490	16,471	29,352	32,509	29,646	31,884
Operating funding, total	Mil. dol	12,195	16,053	18,241	19,515	21,062	22,220
Passenger funding	Mil. dol	4,575	5,891	6,801	7,546	7,969	8,282
Other operating funding <sup>2</sup>	Mil. dol	702	895	2,812	3,308	3,685	3,648
Operating assistance	Mil. dol	6,918	9,267	8,628	8,661	9,407	10,290
Federal <sup>3</sup>	Mil. dol	940	970	817	647	751	872
Local <sup>3</sup>	Mil. dol	5,979	5,327	3,981	4,095	4,377	4,540
State <sup>3</sup>	Mil. dol	(NA)	2,970	3,830	3,919	4,279	4,878
Total expense	Mil. dol	14,077	17,979	21,540	23,159	24,318	25,538
Operating expense	Mil. dol	12,381	15,742	17,849	18,936	19,739	20,512
Reconciling expense	Mil. dol	1,696	2,237	3,691	4,223	4,579	5,025
Capital expenditure, federal	Mil. dol	2,559	2,428	5,534	4,125	4,225	5,395
Capital expenditures	Million	(NA)	(NA)	7,230	7,850	7,893	8,975
Vehicle-miles operated <sup>1</sup>	Million	2,791	3,242	3,550	3,746	3,794	3,972
Motor bus	Million	1,863	2,130	2,184	2,245	2,175	2,276
Trolley bus	Million	16	14	14	14	14	14
Heavy rail	Million	451	537	537	558	566	578
Light rail	Million	17	24	35	41	44	49
Commuter rail	Million	183	213	238	251	260	266
Demand response	Million	247	306	507	585	671	718
Passengers carried <sup>1</sup>	Million	8,636	8,799	7,763	8,374	8,750	9,168
Motor bus	Million	5,675	5,677	4,848	5,013	5,399	5,648
Trolley bus	Million	142	126	119	121	117	120
Heavy rail	Million	2,290	2,346	2,033	2,430	2,393	2,521
Light rail	Million	132	175	251	262	276	292
Commuter rail	Million	275	328	344	357	381	396
Demand response	Million	59	68	88	99	95	100
Avg. funding per passenger	Cents	53.0	66.9	87.6	88.8	87.1	90.3
Employees, number (avg.) <sup>4</sup>	1,000	270	273	311	334	339	350
Payroll, employee	Mil. dol	5,843	7,226	8,213	8,772	9,211	9,495
Fringe benefits, employee	Mil. dol	2,868	3,986	4,484	4,504	4,844	5,052

NA Not available. <sup>1</sup> Includes other categories not shown separately. <sup>2</sup> Beginning 1995, includes taxes levied directly by transit agency and other dedicated funds, formerly included in Local. <sup>3</sup> Includes other operating revenue, nonoperating revenue, and auxiliary income. Data for 1985 are state and local combined. <sup>4</sup> Through 1990, represents employee equivalents of 2,080 hours = one employee; beginning 1995, equals actual employees.

Source: American Public Transportation Association, Washington, DC, *Public Transportation Fact Book*, annual.



## No. 1105. Domestic Motor Fuel Consumption by Type of Vehicle: 1970 to 1999

[92.3 represents 92,300,000,000. Comprises all fuel types used for propulsion of vehicles under state motor fuels laws. Excludes federal purchases for military use. Minus sign (-) indicates decrease]

Year	Annual fuel consumption (bil. gal)						Average miles per gallon				
	All vehicles	Avg. annual percent change <sup>1</sup>	Cars <sup>2</sup>	Vans, pickups, SUVs	Buses <sup>3</sup>	Trucks <sup>4</sup> (bil. gal.)	All vehicles	Cars <sup>2</sup>	Vans, pickups, SUVs	Buses <sup>3</sup>	Trucks <sup>4</sup> (bil. gal.)
1970 ..	92.3	4.8	67.8	12.3	0.8	11.3	12.0	13.5	10.0	5.5	5.5
1975 ..	109.0	2.5	74.3	19.1	1.1	14.6	12.2	14.0	10.5	5.8	5.6
1980 ..	115.0	-5.9	70.2	23.8	1.0	20.0	13.3	16.0	12.2	6.0	5.4
1981 ..	114.5	-0.4	69.3	23.7	1.1	20.4	13.6	16.5	12.5	5.9	5.3
1982 ..	113.4	-1.0	69.3	22.7	1.0	20.4	14.1	16.9	13.5	5.9	5.5
1983 ..	116.1	2.4	70.5	23.9	0.9	20.8	14.2	17.1	13.7	5.9	5.6
1984 ..	118.7	2.2	70.8	25.6	0.8	21.4	14.5	17.4	14.0	5.7	5.8
1985 ..	121.3	2.2	71.7	27.4	0.8	21.4	14.6	17.5	14.3	5.4	5.7
1986 ..	125.2	3.2	73.4	29.1	0.9	21.9	14.7	17.4	14.6	5.3	5.8
1987 ..	127.5	1.8	73.5	30.6	0.9	22.5	15.1	18.0	14.9	5.8	5.9
1988 ..	130.1	2.0	73.5	32.7	0.9	22.9	15.6	18.8	15.4	5.8	6.0
1989 ..	131.9	1.4	74.1	33.3	0.9	23.5	15.9	18.0	16.1	6.0	6.1
1990 ..	130.8	-0.8	69.8	35.6	0.9	24.5	16.4	20.3	16.1	6.4	6.0
1991 ..	128.6	-1.7	64.5	38.2	0.9	25.0	16.9	21.2	17.0	6.7	6.0
1992 ..	132.9	3.3	65.6	40.9	0.9	25.5	16.9	21.0	17.3	6.6	6.0
1993 ..	137.3	3.3	67.2	42.9	0.9	26.2	16.7	20.6	17.4	6.6	6.1
1994 ..	140.8	2.5	68.1	44.1	1.0	27.7	16.7	20.8	17.3	6.6	6.1
1995 ..	143.8	2.1	68.1	45.6	1.0	29.0	16.8	21.1	17.3	6.6	6.1
1996 ..	147.4	2.5	69.2	47.4	1.0	29.6	16.9	21.2	17.2	6.6	6.2
1997 ..	150.4	2.0	69.9	49.4	1.0	29.9	17.0	21.5	17.2	6.7	6.4
1998 ..	155.4	3.3	71.7	50.5	1.1	32.0	16.9	21.6	17.2	6.7	6.1
1999 ..	160.7	3.4	73.2	52.8	1.1	33.4	16.8	21.4	17.1	6.7	6.1

<sup>1</sup> Change from immediate prior year. <sup>2</sup> Includes motorcycles through 1994. Thereafter in total, not shown separately. <sup>3</sup> Includes school buses. <sup>4</sup> Includes combinations.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## No. 1106. Class I Intercity Motor Carriers of Passengers: 1990 to 1999

[943 represents \$943,000,000. For carriers whose adjusted annual gross operating revenues are \$5 million or more. Intercity carriers have intercity revenues which are 50 percent or more of their total operating revenues. Minus sign (-) indicated deficit]

Item	Unit	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Number of intercity carriers <sup>1</sup> . . . . .	Number.	21	21	21	21	20	20	17	17	15	14
Operating revenue . . . . .	Mil. dol.	943	980	938	928	870	917	912	1,000	999	1,268
Intercity regular route . . . . .	Mil. dol.	739	792	755	747	718	767	771	834	860	1,075
Other . . . . .	Mil. dol.	204	189	182	182	152	150	141	165	139	192
Operating expenses . . . . .	Mil. dol.	1,026	967	874	880	919	899	878	948	947	1,258
Operating income . . . . .	Mil. dol.	-83	13	63	48	-48	18	33	52	52	9
Revenue passengers . . . . .	Million..	44	42	41	40	41	43	37	52	47	54
Intercity regular route passengers . . . . .	Million..	37	36	36	35	36	38	34	41	37	42
Other passengers . . . . .	Million..	7	5	5	5	4	5	4	12	10	12
Average fare, intercity regular route . . . . .	Dol. . . .	20.22	21.86	21.15	21.32	19.77	20.10	22.85	20.57	23.14	25.56

<sup>1</sup> Excludes carriers preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers.

Source: Bureau of Transportation Statistics, *Selected Earnings Data, Class I Motor Carriers of Passengers. Carriers of Passengers, 1988-1997, 1998, and 1999.*

## No. 1107. Bus Profile: 1980 to 1999

[3,833 represents \$3,833,000,000]

Item	Unit	1980	1990	1995	1998	1999
<b>FINANCIAL</b>						
Expenditures, school bus	Mil. dol.	3,833	7,605	9,889	10,326	10,340
Operating revenues, intercity bus, Class I <sup>1</sup>	Mil. dol.	1,397	943	917	999	1,268
Operating expenses, intercity bus, Class I <sup>1</sup>	Mil. dol.	1,318	1,026	899	947	1,258
<b>INVENTORY</b>						
Operating companies, intercity bus, Class I	Number	61	31	20	16	14
Vehicles:						
Commercial & federal bus	Number	110,576	118,726	125,057	133,070	136,748
School & other bus	Number	418,225	508,261	560,447	582,470	592,029
Employees:						
Intercity & rural bus	Number	38,000	26,300	23,800	24,400	23,700
School bus	Number	79,900	111,200	131,100	141,000	146,700
<b>PERFORMANCE</b>						
Vehicle-miles, all buses:						
Rural & urban highway	Millions	6,059	5,726	6,383	7,007	7,663
Rural highway	Millions	3,035	3,444	3,817	4,251	4,668
Urban highway	Millions	3,024	2,283	2,566	2,756	2,995
Revenue:						
Passenger miles, intercity bus	Millions	(NA)	121,400	136,104	148,558	162,466
Passengers, intercity bus	1,000	370,000	334,000	366,500	357,600	358,900
Avg. miles traveled per vehicle, all buses	Miles	11,458	9,133	9,312	9,793	10,515
Avg. annual fuel consumption, all buses	Gallon	1,926	1,428	1,412	1,454	1,573
Avg. miles per gallon, all buses	Mpg	6.0	6.4	6.6	6.7	6.7
Average revenue per passenger mile	Cents	7.3	11.6	12.2	12.8	12.8
<b>SAFETY</b>						
Fatalities:						
School bus related	Number	150	115	123	126	164
School bus occupants	Number	9	11	13	6	10
Other vehicle occupants	Number	88	64	72	90	126
Nonoccupants	Number	53	40	38	30	28
Vehicles involved in fatal accidents, all buses	Number	390	340	271	289	319
Occupant fatality rate:						
Per 100 million vehicle-miles, all buses	Rate	0.8	0.5	0.5	0.5	0.8
Per 10,000 registered vehicles, all buses	Rate	0.9	0.5	0.5	0.5	0.8

NA Not available. <sup>1</sup> Intercity regular route carriers only.

Source: U.S. Bureau of Transportation Statistics, *National Transportation Statistics, annual*.

## No. 1108. Truck Profile: 1980 to 1999

[5,791 represents 5,791,000]

Item	Unit	1980	1990	1995	1998	1999
<b>INVENTORY</b>						
Truck registrations, total	1,000	5,791	6,196	6,719	7,732	7,792
Single-unit 2-axle 6-tire vehicle	1,000	4,374	4,487	5,024	5,735	5,763
Combination trucks	1,000	1,417	1,709	1,696	1,997	2,029
Employees:						
Trucking & courier services	1,000	1,182	1,274	1,440	1,569	1,611
Truck drivers & deliverymen	1,000	1,931	2,148	2,861	2,685	2,643
<b>PERFORMANCE</b>						
Vehicle miles, total:						
Rural highway, total	Millions	108,491	146,242	178,156	196,380	202,697
Urban highway, total	Millions	68,776	89,692	106,031	115,142	117,956
Single unit 2-axle 6-tire vehicle	Millions	39,715	56,550	72,125	81,238	84,741
Combination trucks	Millions	39,813	51,901	62,705	68,021	70,311
Passenger miles:	Millions	68,678	94,341	115,451	128,359	132,386
Single unit 2-axle 6-tire vehicle	Millions	39,813	51,901	62,705	68,021	70,311
Combination trucks	Millions	68,678	94,341	115,451	128,359	132,386
Average miles traveled per vehicle:						
All trucks, total	Avg. mile	18,736	23,603	26,514	25,397	26,015
Single unit 2-axle 6-tire vehicle	Avg. mile	9,103	11,567	12,482	11,861	12,201
Combination trucks	Avg. mile	48,472	55,206	68,083	64,265	65,261
Ton-miles, intercity	Millions	555,000	735,000	921,000	1,027,000	1,093,000
Fuel consumed, all trucks	Mil. gal	19,960	24,490	28,993	31,975	33,363
Single unit 2-axle 6-tire vehicle	Mil. gal	6,923	8,357	9,216	6,817	7,122
Combination trucks	Mil. gal	13,037	16,133	19,777	25,158	26,240
Average fuel consumption per vehicle:						
Single unit 2-axle 6-tire vehicle	Gallons	3,447	3,953	4,315	4,135	4,282
Combination trucks	Gallons	1,583	1,862	1,835	1,189	1,236
Highway-user taxes, total	Mil. dol	9,201	9,441	11,663	12,596	12,935
<b>SAFETY</b>						
Occupant fatalities	Number	8,748	9,306	10,216	11,447	12,001
Light trucks	Number	7,486	8,601	9,568	10,705	11,243
Large trucks	Number	1,262	705	648	742	758
Vehicle involvement, total (per 100 million vehicle-miles)	Rate	4.5	2.9	2.4	2.3	2.2

NA Not available.

Source: U.S. Bureau of Transportation Statistics, *National Transportation Statistics, annual*.

## No. 1109. Trucks by Use, Body Type, Miles, and Acquisition: 1992 and 1997

[In thousands (59,200.8 represents 59,200,800), except percent change. Based on the 1997 Economic Census; see Appendix III. Minus sign (-) indicates decrease]

Vehicular and operational characteristics	All trucks			Trucks, excluding pickups, panels, minivans, sport, utilities, and station wagons		
	1992	1997	Percent change, 1992-97	1992	1997	Percent change, 1992-97
<b>MAJOR USE</b>						
<b>Total</b> .....	<b>59,200.8</b>	<b>72,800.3</b>	<b>23.0</b>	<b>5,112.4</b>	<b>5,664.7</b>	<b>10.8</b>
Agriculture .....	3,554.6	3,377.8	-5.0	898.7	854.7	-4.9
Forestry and lumbering .....	264.5	276.7	4.6	100.6	112.1	11.4
Mining and quarrying .....	220.4	250.7	13.7	79.2	82.1	3.7
Construction .....	4,986.3	6,033.9	21.0	1,015.4	1,161.8	14.4
Manufacturing .....	786.7	729.4	-7.3	257.6	258.6	0.4
Wholesale trade .....	1,136.1	1,264.6	11.3	438.3	440.4	0.5
Retail trade .....	1,950.9	2,243.8	15.0	434.9	469.3	7.9
For-hire transportation .....	889.2	1,059.4	19.1	769.6	938.2	21.9
Utilities .....	541.2	663.8	22.7	183.4	204.9	11.7
Services .....	3,123.3	4,233.5	35.5	421.2	591.4	40.4
Daily rental .....	307.6	508.0	65.1	90.6	171.2	89.0
One-way rental .....	17.1	31.2	82.5	14.1	28.3	100.7
Personal transportation .....	40,441.9	50,934.5	25.9	231.0	183.0	-20.8
Not in use .....	981.0	1,193.1	21.6	177.8	168.6	-5.2
<b>BODY TYPE</b>						
Pickup .....	33,659.6	36,191.8	7.5	(X)	(X)	(X)
Minivan .....	6,129.6	9,837.9	60.5	(X)	(X)	(X)
Panel or van .....	5,701.0	5,572.7	-2.3	(X)	(X)	(X)
Utility vehicle .....	8,598.1	15,533.1	80.7	(X)	(X)	(X)
Sport utility .....	7,140.2	13,762.5	92.7	(X)	(X)	(X)
Station wagon .....	1,457.9	1,770.7	21.5	(X)	(X)	(X)
Multistop or stepvan .....	408.4	560.4	37.2	408.4	560.4	37.2
Platform with added devices ..	295.7	308.2	4.2	295.7	308.2	4.2
Low boy or depressed center ..	89.8	111.1	23.7	89.8	111.1	23.7
Basic platform .....	1,183.3	1,176.1	-0.6	1,183.3	1,176.1	-0.6
Livestock truck .....	48.3	39.1	-19.0	48.3	39.1	-19.0
Insulated nonrefrigerated van ..	23.3	34.5	48.1	23.3	34.5	48.1
Insulated refrigerated van .....	204.8	234.0	14.3	204.8	234.0	14.3
Drop-frame van .....	60.1	54.9	-8.7	60.1	54.9	-8.7
Open-top van .....	20.1	20.8	3.5	20.1	20.8	3.5
Basic enclosed van .....	785.4	1,009.0	28.5	785.4	1,009.0	28.5
Beverage .....	73.0	70.2	-3.8	73.0	70.2	-3.8
Utility .....	157.0	152.0	-3.2	157.0	152.0	-3.2
Winch or crane .....	58.8	55.0	-6.5	58.8	55.0	-6.5
Wrecker .....	104.1	111.9	7.5	104.1	111.9	7.5
Pole or logging .....	53.9	55.7	3.3	53.9	55.7	3.3
Auto transport .....	22.3	20.1	-9.9	22.3	20.1	-9.9
Service truck .....	144.1	168.6	17.0	144.1	168.6	17.0
Yard tractor .....	8.1	10.8	33.3	8.1	10.8	33.3
Oilfield truck .....	26.5	26.1	-1.5	26.5	26.1	-1.5
Grain body .....	310.8	299.1	-3.8	310.8	299.1	-3.8
Garbage hauler .....	72.4	91.6	26.5	72.4	91.6	26.5
Dump truck .....	611.9	670.8	9.6	611.9	670.8	9.6
Tank truck (liquids or gases) ..	231.9	249.4	7.5	231.9	249.4	7.5
Tank truck (dry bulk) .....	33.8	39.7	17.5	33.8	39.7	17.5
Concrete mixer .....	61.0	73.1	19.8	61.0	73.1	19.8
Other .....	23.7	22.6	-4.6	23.7	22.6	-4.6
<b>ANNUAL MILES</b>						
Less than 5,000 .....	12,284.3	13,045.1	6.2	1,663.1	1,554.2	-6.5
5,000 to 9,999 .....	12,273.1	13,465.5	9.7	751.9	753.4	0.2
10,000 to 19,999 .....	22,656.5	29,974.6	32.3	978.6	1,128.8	15.3
20,000 to 29,999 .....	7,499.5	10,198.5	36.0	512.6	585.4	14.2
30,000 to 49,999 .....	3,215.3	4,349.9	35.3	458.8	571.1	24.5
50,000 to 74,999 .....	717.0	951.3	32.7	284.9	374.5	31.4
75,000 or more .....	554.9	815.5	47.0	462.3	697.3	50.8
<b>VEHICLE ACQUISITION</b>						
Purchased new .....	26,967.2	30,052.9	11.4	2,091.2	2,323.6	11.1
Purchased used .....	30,417.3	37,834.5	24.4	2,601.1	2,762.6	6.2
Leased from someone else .....	1,397.1	4,039.3	189.1	373.6	522.2	39.8
Other and not reported .....	419.1	873.6	108.4	46.5	56.3	21.1

X Not applicable.

Source: U.S. Census Bureau, 1997 Economic Census, Vehicle Inventory and Use Survey, 1997, Series EC97TV-US, issued October 1999.

## No. 1110. Truck Transportation, Couriers and Messengers, and Warehousing and Storage—Estimated Revenue

[In millions of dollars (207,535 represents \$207,535,000,000), except percent. For taxable and tax-exempt employer firms. Estimates have been adjusted to the results of the 1997 Economic Census. Based on the North American Industry Classification System; see text, Section 15, Business Enterprise]

Kind of business	NAICS code <sup>1</sup>	Revenue		Percent change, 1998-99
		1998	1999	
<b>Selected transportation industries . . . . .</b>	<b>48, 49</b>	<b>207,535</b>	<b>221,729</b>	<b>6.8</b>
Truck transportation . . . . .	484	150,816	162,083	7.5
General freight trucking . . . . .	4841	94,419	101,817	7.8
General freight trucking, local . . . . .	48411	13,717	14,273	4.1
General freight trucking, long-distance . . . . .	48412	80,702	87,544	8.5
General freight trucking, long-distance, truckload . . . . .	484121	53,085	57,851	9.0
General freight trucking, long-distance, less than truckload . . . . .	484122	27,617	29,693	7.5
Specialized freight trucking . . . . .	4842	56,396	60,266	6.9
Used household and office goods moving . . . . .	48421	13,063	14,931	14.3
Specialized freight (except used goods) trucking, local . . . . .	48422	22,314	24,088	8.0
Specialized freight (except used goods) trucking, long-distance . . . . .	48423	21,019	21,247	1.1
Couriers and messengers . . . . .	492	44,890	47,355	5.5
Couriers . . . . .	4921	41,002	43,157	5.3
Local messengers and local delivery . . . . .	4922	3,887	4,198	8.0
Warehousing and storage . . . . .	493	11,829	12,291	3.9
General warehousing and storage . . . . .	49311	6,230	6,592	5.8
Refrigerated warehousing and storage . . . . .	49312	2,344	2,400	2.4
Farm product warehousing and storage . . . . .	49313	614	642	4.6
Other warehousing and storage . . . . .	49319	2,641	2,656	0.6

<sup>1</sup> Based in the North American Industry Classification System; see text Section 15, Business Enterprise. Source: U.S. Census Bureau, 1999 Service Annual Survey, *Truck Transportation, Messenger Services and Warehousing*.

## No. 1111. Truck Transportation—Summary

[In millions of dollars (150,816 represents \$150,816,000,000), except as indicated. For taxable and tax-exempt employer firms. Covers NAICS 484. Estimates have been adjusted to the results of the 1997 Economic Census. Based on the North American Industry Classification System; see text, Section 15, Business Enterprise. Minus sign (-) indicates decrease]

Item	1998	1999	Percent change, 1998-99
<b>Total operating revenue . . . . .</b>	<b>150,816</b>	<b>162,083</b>	<b>7.5</b>
Total motor carrier revenue . . . . .	142,148	152,158	7.0
Local trucking . . . . .	44,871	49,164	9.6
Long-distance trucking <sup>1</sup> . . . . .	97,277	102,994	5.9
Size of shipments:			
Less-than-truckload . . . . .	40,568	44,526	9.8
Truckload . . . . .	101,580	107,632	6.0
Commodities handled:			
Agricultural and fish products . . . . .	12,101	12,232	1.1
Grains, alcohol, and tobacco products . . . . .	5,025	5,441	8.3
Stone, nonmetallic minerals, and metallic ores . . . . .	9,026	9,502	5.3
Coal and petroleum products . . . . .	5,443	5,530	1.6
Pharmaceutical and chemical products . . . . .	8,434	8,794	4.3
Wood products, textiles, and leathers . . . . .	14,412	14,804	2.7
Base metal and machinery . . . . .	11,465	11,674	1.8
Electronic, motorized vehicles, and precision instruments . . . . .	7,889	9,010	14.2
Used household and office goods . . . . .	9,098	9,878	8.6
New furniture and miscellaneous manufactured products . . . . .	13,625	15,189	11.5
Other goods . . . . .	45,632	50,104	9.8
Hazardous materials . . . . .	9,688	9,535	-1.6
Origin and destination of shipments:			
U.S. to U.S. . . . .	137,191	146,476	6.8
U.S. to Canada . . . . .	1,597	1,791	12.1
U.S. to Mexico . . . . .	827	1,218	47.2
Canada to U.S. . . . .	1,137	1,180	3.8
Mexico to U.S. . . . .	723	881	21.9
All other destinations . . . . .	674	612	-9.1
Inventory of revenue generating equipment (1,000):			
Trucks . . . . .	190	204	7.4
Owned . . . . .	157	168	7.0
Leased . . . . .	34	37	8.8
Truck-tractors . . . . .	867	900	3.8
Owned . . . . .	741	763	3.0
Leased . . . . .	127	137	7.9
Trailers . . . . .	1,796	1,857	3.4
Owned . . . . .	1,502	1,550	3.2
Leased . . . . .	293	307	4.8
Highway miles traveled (mil.):			
Total . . . . .	79,148	84,729	7.1
By loaded or partially loaded vehicles . . . . .	63,117	67,811	7.4
By empty vehicles . . . . .	16,031	16,917	5.5

<sup>1</sup> Local trucking is the carrying of goods within a single metro area and its adjacent nonurban areas; long-distance trucking is the carrying of goods between metro areas. Source: U.S. Census Bureau, 1999 Service Annual Survey, *Truck Transportation, Messenger Services and Warehousing*.

## No. 1112. Railroads, Class I—Summary: 1990 to 1999

[As of Dec. 31, or calendar year data, except as noted (216 represents 216,000). Compiled from annual reports of class I railroads only except where noted. Minus sign (-) indicates deficit]

Item	Unit	1990	1992	1993	1994	1995	1996	1997	1998	1999
Class I line-hauling companies <sup>1</sup>	Number	14	13	13	13	11	10	9	9	9
Employees <sup>2</sup>	1,000	216	197	193	190	188	182	178	178	178
Compensation	Mil. dol.	8,654	8,753	8,732	8,874	9,070	9,202	9,235	9,938	9,603
Average per hour	Dollars	15.83	17.80	17.90	18.50	19.00	20.10	20.30	21.30	21.00
Average per year	Dollars	39,987	44,336	45,354	46,714	48,188	50,611	51,882	55,764	54,082
Mileage:										
Railroad line owned <sup>3</sup>	1,000	146	141	140	138	137	136	133	132	122
Railroad track owned <sup>4</sup>	1,000	244	238	236	232	228	228	225	224	207
Equipment:										
Locomotives in service	Number	18,835	18,004	18,161	18,505	18,812	19,269	19,684	20,261	20,256
Average horsepower	1,000 lb.	2,665	2,750	2,777	2,832	2,927	2,985	3,060	3,126	3,200
Cars in service:										
Passenger train	Number	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Freight train <sup>5</sup>	1,000	1,212	1,173	1,173	1,192	1,219	1,241	1,270	1,316	1,369
Freight cars <sup>6</sup>	1,000	659	605	587	591	583	571	568	576	579
Income and expenses:										
Operating revenues	Mil. dol.	28,370	28,349	28,825	30,809	32,279	32,693	33,118	33,151	33,521
Operating expenses	Mil. dol.	24,652	25,325	24,517	25,511	27,897	26,331	27,291	27,916	28,011
Net revenue from operations	Mil. dol.	3,718	3,024	4,308	5,298	4,383	6,361	5,827	5,235	5,510
Income before fixed charges	Mil. dol.	4,627	4,127	4,990	6,184	5,016	7,055	6,168	5,803	6,001
Provision for taxes <sup>7</sup>	Mil. dol.	1,088	1,092	1,810	1,935	1,556	2,056	1,886	1,573	1,664
Ordinary income	Mil. dol.	1,961	2,055	2,258	3,315	2,439	3,885	3,156	2,807	2,976
Net income	Mil. dol.	1,977	1,800	2,240	3,298	2,324	3,885	3,156	2,807	2,971
Net railway operating income	Mil. dol.	2,648	1,955	2,517	3,392	2,858	4,338	3,984	3,698	4,047
Total taxes <sup>8</sup>	Mil. dol.	3,780	3,732	4,343	4,512	4,075	4,669	4,514	4,411	4,459
Indus. return on net investment	Percent	8.1	6.3	7.1	9.4	7.0	9.4	7.6	7.0	6.9
Gross capital expenditures	Mil. dol.	3,591	3,680	4,504	5,035	5,720	6,550	6,737	7,357	6,193
Balance sheet:										
Total property investment	Mil. dol.	70,348	72,677	75,217	78,384	86,186	90,046	96,058	102,171	103,424
Accrued depreciation and amortization	Mil. dol.	22,222	23,378	23,892	24,200	23,439	23,932	21,862	23,338	23,177
Net investment	Mil. dol.	48,126	49,299	51,325	54,184	62,746	66,113	74,196	78,832	80,247
Shareholder's equity	Mil. dol.	23,662	23,115	24,658	27,389	31,419	32,255	34,996	32,976	30,478
Net working capital	Mil. dol.	-3,505	-4,372	-3,295	-3,059	-2,634	-2,942	-3,434	-4,443	-4,834
Cash dividends	Mil. dol.	2,074	830	1,054	1,398	1,518	3,937	995	1,521	2,084
AMTRAK passenger traffic:										
Passenger revenue	Mil. dol.	941.9	933.2	777.6	717.9	734.1	756.2	792.1	821.5	1,067.8
Revenue passengers carried	1,000	22,382	21,678	21,511	21,239	20,349	19,700	20,200	21,248	21,544
Revenue passenger miles	Million	6,125	6,181	6,068	5,869	5,401	5,066	5,166	5,325	5,289
Averages:										
Revenue per passenger	Dollars	42.1	43.0	36.1	33.8	36.1	38.4	39.2	38.7	49.6
Revenue per passenger mile	Cents	15.4	15.1	12.8	12.2	13.6	14.9	15.3	15.4	20.2
Freight service:										
Freight revenue	Mil. dol.	24,471	27,508	27,991	29,931	31,356	31,889	32,322	32,247	32,680
Per ton-mile	Cents	2.7	2.6	2.5	2.5	2.4	2.4	2.4	2.3	2.3
Per ton originated	Dollar	19.3	19.7	20.0	20.4	20.2	19.8	20.4	19.6	19.0
Revenue-tons originated	Million	1,425	1,399	1,397	1,470	1,550	1,611	1,585	1,649	1,717
Revenue-tons carried	Million	2,024	2,022	2,047	2,185	2,322	2,229	2,114	2,158	2,155
Tons carried one mile	Billion	1,034	1,067	1,109	1,201	1,306	1,356	1,349	1,377	1,433
Average miles of road operated	1,000	133	126	124	123	125	127	122	120	121
Revenue ton-miles per mile of road	1,000	7,763	8,451	8,965	9,735	10,439	10,704	11,087	11,491	11,848
Revenue per ton-mile	Cents	3	3	3	2	2	2	2	2	2
Train miles	Million	380	390	405	441	458	469	475	475	490
Net ton-miles per train-mile <sup>9</sup>	Number	2,755	2,759	2,759	2,746	2,870	2,912	2,861	2,923	2,947
Net ton-miles per loaded car-mile <sup>9</sup>	Number	69.1	70.9	71.6	72.2	73.6	75.0	74.0	73.2	73.8
Train-miles per train-hour	Miles	23.7	23.7	23.1	22.4	21.8	22.0	19.2	19.0	20
Haul per ton, U.S. as a system	Miles	726	763	794	817	843	842	851	835	835
Accidents/ incidents: <sup>10</sup>										
Persons killed	Number	1,297	1,170	1,279	1,226	1,146	1,039	1,063	1,008	932
Persons injured	Number	25,143	21,383	19,121	16,812	14,440	12,558	11,767	11,459	11,700

NA Not available. <sup>1</sup> See text, this section, for definition of Class I. <sup>2</sup> Average mid-month count. <sup>3</sup> Represents the aggregate length of roadway of all line-haul railroads. Excludes yard tracks, sidings, and parallel lines. (Includes estimate for class II and III railroads). <sup>4</sup> Includes multiple main tracks, yard tracks, and sidings owned by both line-haul and switching and terminal. (Includes estimate for class II and III railroads). <sup>5</sup> Includes cars owned by all railroads, private car companies, and shippers. <sup>6</sup> Class I railroads only. <sup>7</sup> Includes state income taxes. <sup>8</sup> Includes payroll, income, and other taxes. <sup>9</sup> Revenue and nonrevenue freight. <sup>10</sup> Source: Federal Railroad Admin., *Accident Bulletin*, annual. Includes highway grade crossing casualties.

Source: Except as noted, Association of American Railroads, Washington, DC, *Railroad Facts, Statistics of Railroads of Class I*, annual, and *Analysis of Class I Railroads*, annual.

## No. 1113. Railroads, Class I-Cars of Revenue Freight Loaded, 1970 to 2000, and by Commodity Group, 1999 and 2000

[In thousands (27,160 represents 27,160,000). Figures are 52-week totals]

Year	Car-loads <sup>1</sup>	Commodity group	Carloads		Commodity group	Carloads	
			1999 <sup>2</sup>	2000 <sup>3</sup>		1999 <sup>2</sup>	2000 <sup>3</sup>
1970	27,160	Coal	6,660	6,620	Metals and products	631	661
1980	22,598	Metallic ores	291	301	Stone, clay, and glass products	489	500
1990	16,177	Chemicals, allied products	1,502	1,484	Crushed stone, gravel, sand	798	840
1992	15,798	Grain	1,183	1,119	Nonmetallic minerals	448	419
1993	15,911	Motor vehicles and equipment	1,265	1,282	Waste and scrap materials	459	466
1994	16,763	Pulp, paper, and allied products	466	468	Lumber, wood products	279	275
1995 <sup>2</sup>	16,763	Primary forest products	264	246	Coke	192	199
1996 <sup>2</sup>	16,521	Food and kindred products	415	428	Petroleum products	284	296
1997 <sup>2</sup>	16,568	Grain mill products	449	451	All other carloads	331	299
1998 <sup>2</sup>	16,914						
1999 <sup>2</sup>	16,407						
2000 <sup>3</sup>	16,354						

<sup>1</sup> Beginning 1990 excludes intermodal. <sup>2</sup> Excludes two Class I railroads. <sup>3</sup> Preliminary. Excludes three Class I railroads.

Source: Association of American Railroads, Washington, DC, *Weekly Railroad Traffic*, annual.

## No. 1114. Railroads, Class I Line-Haul-Revenue Freight Originated by Commodity Group: 1990 to 1999

[21,401 represents 21,401,000]

Commodity group	1990	1992	1993	1994	1995	1996	1997	1998	1999
<b>Carloads (1,000)<sup>1</sup></b>	<b>21,401</b>	<b>21,205</b>	<b>21,683</b>	<b>23,179</b>	<b>23,726</b>	<b>24,159</b>	<b>25,016</b>	<b>25,705</b>	<b>27,096</b>
Coal	5,912	5,572	5,310	5,681	6,095	6,746	6,703	7,027	6,965
Transportation equipment	1,091	1,181	1,355	1,448	1,473	1,442	1,485	1,671	1,896
Chemicals, allied products	1,531	1,568	1,606	1,695	1,642	1,639	1,674	1,653	1,814
Farm products	1,689	1,646	1,636	1,459	1,692	1,530	1,408	1,404	1,477
Food and kindred products	1,307	1,352	1,380	1,381	1,377	1,302	1,295	1,282	1,354
Nonmetallic minerals	1,202	1,029	1,044	1,138	1,159	1,176	1,160	1,256	1,306
Primary metal products	477	481	528	579	575	597	604	644	682
Lumber and wood products	780	726	710	771	719	682	669	645	673
Waste and scrap materials	439	487	558	604	623	605	608	581	624
Pulp, paper, and allied products	611	618	620	651	628	589	582	547	612
Petroleum and coal products	573	583	584	602	596	567	534	510	543
Stone, clay, and glass products	539	483	487	512	516	491	485	475	538
Metallic ores	508	489	443	440	463	443	327	311	295
Machinery, exc. electrical	39	39	37	40	41	40	43	37	34
Fabricated metal products	31	32	37	37	32	29	29	27	27
<b>Tons (mil.)<sup>1</sup></b>	<b>1,425</b>	<b>1,399</b>	<b>1,397</b>	<b>1,470</b>	<b>1,550</b>	<b>1,611</b>	<b>1,585</b>	<b>1,649</b>	<b>1,717</b>
Coal	579	554	534	574	627	705	705	749	751
Chemicals, allied products	126	130	134	142	138	139	140	139	154
Farm products	147	149	147	131	154	142	126	129	139
Nonmetallic minerals	109	94	96	106	110	113	109	120	125
Food and kindred products	81	86	88	88	91	87	86	87	92
Primary metal products	38	39	43	47	47	49	50	53	56
Lumber and wood products	53	50	49	54	51	49	48	47	50
Stone, clay, and glass products	44	40	40	42	43	42	41	41	47
Petroleum and coal products	40	41	41	43	43	42	39	38	40
Transportation equipment	23	25	29	30	30	29	31	36	40
Waste and scrap materials	28	30	35	37	38	38	37	36	40
Pulp, paper, and allied products	33	34	34	37	36	33	32	31	35
Metallic ores	47	45	41	40	44	42	32	31	29
Machinery, exc. electrical	1	1	1	1	1	1	1	1	1
Fabricated metal products	1	1	1	1	1	1	1	1	1
<b>Gross revenue (mil. dol.)<sup>1</sup></b>	<b>29,775</b>	<b>29,777</b>	<b>30,376</b>	<b>32,424</b>	<b>33,782</b>	<b>34,310</b>	<b>34,964</b>	<b>34,898</b>	<b>35,441</b>
Coal	6,954	6,717	6,481	7,021	7,356	7,706	7,698	7,997	7,739
Chemicals, allied products	3,933	4,123	4,277	4,520	4,553	4,660	4,764	4,610	4,616
Transportation equipment	3,100	2,753	3,021	3,257	3,269	3,390	3,462	3,339	3,582
Farm products	2,422	2,454	2,528	2,407	3,020	2,807	2,645	2,529	2,720
Food and kindred products	2,188	2,308	2,336	2,427	2,464	2,378	2,385	2,378	2,400
Lumber and wood products	1,390	1,342	1,324	1,421	1,385	1,409	1,471	1,487	1,528
Pulp, paper, and allied products	1,486	1,508	1,511	1,510	1,543	1,485	1,507	1,472	1,457
Primary metal products	979	970	1,021	1,114	1,199	1,254	1,294	1,304	1,289
Stone, clay, and glass products	931	911	944	1,009	1,044	1,033	1,063	1,056	1,089
Petroleum and coal products	918	943	929	967	997	1,013	1,028	991	980
Nonmetallic minerals	885	812	818	862	875	895	899	920	955
Waste and scrap materials	504	558	613	655	685	702	711	693	689
Metallic ores	408	409	385	378	394	382	399	373	336
Machinery, exc. electrical	67	61	59	65	69	70	73	64	55
Fabricated metal products	42	45	50	50	44	41	41	37	38

<sup>1</sup> Includes commodity groups and small packaged freight shipments, not shown separately.

Source: Association of American Railroads, Washington, DC, *Freight Commodity Statistics*, annual.

## No. 1115. Railroad Freight—Producer Price Indexes: 1990 to 2000

[Dec. 1984=100. Reflects prices for shipping a fixed set of commodities under specified and unchanging conditions]

Commodity	1990	1994	1995	1996	1997	1998	1999	2000, prel.
<b>Railroad line-haul operating. . . . .</b>	<b>107.5</b>	<b>111.8</b>	<b>111.7</b>	<b>111.5</b>	<b>112.1</b>	<b>113.4</b>	<b>113.0</b>	<b>114.5</b>
Coal. . . . .	104.2	107.5	107.3	106.7	107.0	108.7	107.3	108.7
Farm products. . . . .	110.4	114.5	115.6	115.7	120.4	123.9	121.7	123.0
Food products. . . . .	105.4	111.0	111.2	108.5	107.6	107.4	99.7	100.4
Metallic ores. . . . .	106.5	104.6	101.9	103.5	103.4	104.4	103.8	105.6
Chemicals and allied products. . . . .	111.7	117.6	120.0	119.2	119.6	120.1	119.1	121.4
Nonmetallic minerals. . . . .	111.7	119.7	119.5	119.2	120.6	121.5	121.7	122.0
Lumber and wood products. . . . .	107.5	110.0	110.0	112.8	111.0	110.3	109.8	109.0
Transportation equipment. . . . .	107.5	115.3	112.8	114.0	113.2	113.4	113.3	112.8
Pulp, paper, and allied products. . . . .	108.0	111.1	108.7	(NA)	111.2	113.7	115.5	119.0
Primary metal products. . . . .	113.1	115.6	115.6	115.4	114.0	116.1	118.4	123.7
Stone, clay, glass, and concrete products. . . . .	114.1	120.2	121.4	121.1	119.8	121.8	122.6	128.6
Petroleum and coal products. . . . .	109.2	114.8	114.3	114.1	120.5	122.5	123.0	124.5

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

## No. 1116. Petroleum Pipeline Companies—Characteristics: 1980 to 1999

[173 represents 173,000. Covers pipeline companies operating in interstate commerce and subject to jurisdiction of Federal Energy Regulatory Commission]

Item	Unit	1980	1985	1990	1994	1995	1996	1997	1998	1999
Miles of pipeline, total. . . . .	1,000. . . . .	173	171	168	159	177	169	160	157	154
Gathering lines. . . . .	1,000. . . . .	36	35	32	30	35	32	31	21	20
Trunk lines. . . . .	1,000. . . . .	136	136	136	128	142	137	130	136	134
Total deliveries. . . . .	Mil. bbl. . . . .	10,600	10,745	11,378	12,159	12,862	12,635	12,481	12,914	13,317
Crude oil. . . . .	Mil. bbl. . . . .	6,405	6,239	6,563	6,785	6,952	6,975	6,795	7,639	7,551
Products. . . . .	Mil. bbl. . . . .	4,195	4,506	4,816	5,373	5,910	5,660	5,686	5,275	5,766
Total trunk line traffic. . . . .	Bil. bbl.-miles. . . . .	3,405	3,342	3,500	3,566	3,619	3,734	3,683	3,442	3,738
Crude oil. . . . .	Bil. bbl.-miles. . . . .	1,948	1,842	1,891	1,823	1,899	1,912	1,901	1,747	1,815
Products. . . . .	Bil. bbl.-miles. . . . .	1,458	1,500	1,609	1,743	1,720	1,822	1,782	1,696	1,923
Carrier property value. . . . .	Mil. dol. . . . .	19,752	21,605	25,828	26,363	27,460	28,043	30,655	30,181	33,780
Operating revenues. . . . .	Mil. dol. . . . .	6,356	7,461	7,149	7,281	7,711	7,321	7,215	6,890	7,220
Net income. . . . .	Mil. dol. . . . .	1,912	2,431	2,340	2,148	2,670	2,372	2,255	2,051	2,929

Source: PennWell Publishing Co., Houston, Texas, *Oil & Gas Journal*, annual (copyright).

## No. 1117. U.S. Postal Service Rates for Letters and Postcards: 1958 to 2001

[Domestic airmail letters discontinued in 1973 at 13 cents per ounce; superseded by express mail. Prior to February 3, 1991, international airmail rates were based on international zones which have been discontinued. Rates exclude Canada and Mexico]

Domestic mail date rate of change	Surface mail					International air mail date of rate change	Letters				
	Letters						First 1/2 ounce	Second 1/2 ounce	Each added 1/2 ounce	Post cards	Aero-grammes
	Each ounce	First ounce	Each added ounce	Post cards	Express mail						
1958 (Aug. 1) . . .	\$0.04	(X)	(X)	\$0.03	(X)	1961 (July 1) . . .	(X)	(X)	(X)	\$0.11	\$0.11
1963 (Jan. 7) . . .	\$0.05	(X)	(X)	\$0.04	(X)	1967 (May 1) . . .	(X)	(X)	(X)	\$0.13	\$0.13
1968 (Jan. 7) . . .	\$0.06	(X)	(X)	\$0.05	(X)	1971 (July 1) . . .	(X)	(X)	(X)	\$0.13	\$0.13
1971 (May 16) . . .	\$0.08	(X)	(X)	\$0.06	(X)	1974 (Mar. 2) . . .	(X)	(X)	(X)	\$0.18	\$0.18
1974 (Mar. 2) . . .	\$0.10	(X)	(X)	\$0.08	(X)	1976 (Jan. 3) . . .	(X)	(X)	(X)	\$0.21	\$0.22
1975 (Sept. 14) . . .	(X) \$0.10	\$0.09	\$0.07	(X)	(X)	1981 (Jan. 1) . . .	(X)	(X)	(X)	\$0.28	\$0.30
1975 (Dec. 31) . . .	2(X) \$0.13	2\$0.11	2\$0.09	(X)	(X)	1985 (Feb. 17) . . .	(X)	(X)	(X)	\$0.33	\$0.36
1978 (May 29) . . .	(X) \$0.15	\$0.13	\$0.10	(X)	(X)	1988 (Apr. 17) . . .	(X)	(X)	(X)	\$0.36	\$0.39
1981 (Mar. 22) . . .	(X) \$0.18	\$0.17	\$0.12	(X)	(X)	1991 (Feb. 3) . . .	\$0.50	\$0.45	3\$0.39	\$0.40	\$0.45
1981 (Nov. 1) . . .	(X) \$0.20	\$0.17	\$0.13	\$9.35	(X)	1995 (July 9) . . .	\$0.60	3\$0.40	(X)	\$0.40	\$0.45
1985 (Feb. 17) . . .	(X) \$0.22	\$0.17	\$0.14	\$10.75	(X)	1999 (Jan. 10) . . .	\$0.60	3\$0.40	(X)	\$0.50	\$0.50
1988 (Apr. 3) . . .	(X) \$0.25	\$0.20	\$0.15	4\$12.00	(X)	2001 (Jan. 7) . . .	3\$0.80	35\$1.70	(X)	\$0.70	\$0.70
1991 (Feb. 3) . . .	(X) \$0.29	\$0.23	\$0.19	4\$13.95	(X)						
1995 (Jan. 1) . . .	(X) \$0.32	\$0.23	\$0.20	4\$15.00	(X)						
1999 (Jan. 10) . . .	(X) \$0.33	\$0.22	\$0.20	4\$15.75	(X)						
2001 (Jan. 7) . . .	(X) \$0.34	\$0.21	\$0.20	4\$16.00	(X)						

X Not applicable. <sup>1</sup> Post office to addressee rates. Rates shown are for weights up to 2 pounds, all zones. Beginning Feb. 17, 1985, for weights between 2 and 5 lbs, \$12.85 is charged. Prior to Nov. 1, 1981, rate varied by weight and distances. Over 5 pounds still varies by distance. <sup>2</sup> As of October 11, 1975, surface mail service upgraded to level of airmail. <sup>3</sup> Up to the limit of 64 ounces. <sup>4</sup> Over 8 ounces and up to 2 pounds. <sup>5</sup> The rate increments changed to 1 oz.

Source: U.S. Postal Service, "United States Domestic Postage Rate: Recent History," and unpublished data.

# No. 1118. U.S. Postal Service—Summary: 1980 to 2000

[106,311 represents 106,311,000,000. For fiscal years. Includes Puerto Rico and all outlying areas. See text, this section, and Section 8, State and Local Government Finances and Employment]

Item	1980	1990	1995	1997	1998	1999	2000
<b>Offices, stations, and branches . . . . .</b>	<b>39,486</b>	<b>40,067</b>	<b>39,149</b>	<b>38,019</b>	<b>38,159</b>	<b>38,169</b>	<b>38,060</b>
Number of post offices . . . . .	30,326	28,959	28,392	28,060	27,952	27,893	27,876
Number of stations and branches . . . . .	9,160	11,108	10,757	9,959	10,207	10,276	10,184
<b>Pieces of mail handled (mil.) . . . . .</b>	<b>106,311</b>	<b>166,301</b>	<b>180,734</b>	<b>190,888</b>	<b>196,905</b>	<b>201,644</b>	<b>207,882</b>
Domestic <sup>1</sup> . . . . .	105,348	165,503	179,933	189,881	195,961	200,613	206,782
First class <sup>2</sup> . . . . .	60,276	89,270	96,296	99,660	100,434	101,937	103,526
Express mail . . . . .	17	59	57	64	66	69	71
Priority mail . . . . .	248	518	869	1,068	1,174	1,190	1,223
Periodicals (formerly 2d class) . . . . .	10,220	10,680	10,194	10,411	10,317	10,274	10,365
Standard A (formerly 3d class) . . . . .	30,381	63,725	71,112	77,254	82,508	85,662	90,057
Standard B (formerly 4th class) . . . . .	633	663	936	988	1,023	1,043	1,128
Mailgram . . . . .	39	14	5	5	4	4	4
U.S. Postal Service . . . . .	(NA)	538	412	377	380	382	363
Free for the blind . . . . .	28	35	52	53	53	53	47
International surface . . . . .	450	166	106	97	96	103	79
International air . . . . .	513	632	696	910	848	928	1,021
<b>Employees, total (1,000) . . . . .</b>	<b>667</b>	<b>843</b>	<b>875</b>	<b>893</b>	<b>905</b>	<b>906</b>	<b>901</b>
Career . . . . .	643	761	753	765	792	798	788
Headquarters . . . . .	3	2	2	2	2	2	2
Headquarters support . . . . .	(NA)	6	4	4	4	4	6
Inspection service . . . . .	5	4	4	4	4	4	4
Inspector General . . . . .	(X)	(X)	(X)	(Z)	(Z)	(Z)	1
Field career . . . . .	635	747	745	755	781	786	775
Postmasters . . . . .	29	27	27	26	26	26	26
Supervisors/managers . . . . .	36	43	35	36	37	39	39
Professional, administrative, and technical . . . . .	5	10	11	11	12	11	10
Clerks . . . . .	263	290	274	281	294	292	282
Mail handlers . . . . .	37	51	57	59	62	62	61
City carriers . . . . .	187	236	240	234	241	242	241
Motor vehicle operators . . . . .	6	7	8	9	9	9	9
Rural carriers . . . . .	33	42	46	50	52	55	57
Special delivery messengers . . . . .	3	2	2	1	(X)	(X)	(X)
Building and equipment maintenance . . . . .	27	33	38	40	41	42	42
Vehicle maintenance . . . . .	5	5	5	6	6	6	6
Other . . . . .	4	1	2	2	2	2	2
Noncareer . . . . .	25	83	122	128	113	108	114
Casuals . . . . .	5	27	26	33	26	25	30
Transitional . . . . .	(X)	(X)	32	27	17	12	13
Rural substitutes . . . . .	20	43	50	55	56	57	58
Relief/Leave replacements . . . . .	(X)	12	13	13	13	12	12
Nonbargaining temporary . . . . .	(X)	(Z)	1	1	1	1	1
Compensation and employee benefits (mil. dol.) . . . . .	16,541	34,214	41,931	43,835	45,596	47,333	49,532
Avg. salary per employee (dol.) <sup>4</sup> . . . . .	24,799	37,570	45,001	48,793	50,117	48,111	50,103
Pieces of mail per employee, (1,000) . . . . .	159	197	207	214	218	223	231
<b>Total revenue (mil. dol.) <sup>5</sup> . . . . .</b>	<b>19,253</b>	<b>40,074</b>	<b>54,509</b>	<b>58,331</b>	<b>60,116</b>	<b>62,755</b>	<b>64,581</b>
Operating postal revenue . . . . .	17,143	39,201	54,176	58,133	60,005	62,655	64,476
Mail revenue <sup>6</sup> . . . . .	16,377	37,892	52,490	56,267	58,033	60,418	62,284
First class mail . . . . .	10,146	24,023	31,955	33,398	33,861	34,933	35,516
Priority mail <sup>7</sup> . . . . .	612	1,555	3,075	3,857	4,187	4,533	4,837
Express mail <sup>8</sup> . . . . .	184	630	711	825	855	942	996
Mailgram . . . . .	15	8	2	2	2	2	2
Periodicals (formerly 2d class) . . . . .	863	1,509	1,972	2,068	2,072	2,115	2,171
Standard mail A (formerly 3d class) . . . . .	2,412	8,082	11,792	12,876	13,702	14,436	15,193
Standard mail B (formerly 4th class) . . . . .	805	919	1,525	1,628	1,754	1,829	1,912
International surface . . . . .	154	222	205	192	184	194	180
International air . . . . .	442	941	1,254	1,423	1,416	1,434	1,477
Service revenue . . . . .	765	1,310	1,687	1,866	1,972	2,237	2,191
Registry <sup>9</sup> . . . . .	157	174	118	95	89	95	98
Certified <sup>9</sup> . . . . .	120	310	560	343	386	377	385
Insurance <sup>9</sup> . . . . .	55	47	52	61	73	92	109
Collection-on-delivery . . . . .	21	26	21	22	18	20	22
Special delivery <sup>10</sup> . . . . .	73	6	3	1	(X)	(X)	(X)
Money orders . . . . .	95	155	196	212	210	228	235
Other <sup>9</sup> . . . . .	244	592	737	1,131	1,197	1,425	1,342
Operating expenses (mil. dol.) <sup>11</sup> . . . . .	19,413	40,490	50,730	54,873	57,786	60,642	62,992

NA Not available. X Not applicable. Z Fewer than 500. <sup>1</sup> Data for 1980 includes penalty and franked mail, not shown separately. <sup>2</sup> Items mailed at 1st class rates and weighing 11 ounces or less. <sup>3</sup> Includes discontinued operations, area offices, and nurses. <sup>4</sup> For career bargaining unit employees. Includes fringe benefits. <sup>5</sup> Net revenues after refunds of postage. Includes operating reimbursements, stamped envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Shown in year which gave rise to the earnings. <sup>6</sup> For 1980, includes penalty and franked mail, not shown separately. Later years have that mail distributed into the appropriate class. <sup>7</sup> Provides 2 to 3 day delivery service. <sup>8</sup> Overnight delivery of packages weighing up to 70 pounds. <sup>9</sup> Beginning 1997, return receipt revenue broken out from registry, certified, and insurance and included in "other." <sup>10</sup> Special delivery discontinued June 8, 1997. <sup>11</sup> Shown in year in which obligation was incurred.

Source: U.S. Postal Service, *Annual Report of the Postmaster General and Comprehensive Statement on Postal Operations*, annual; and unpublished data.