

## Transportation—Land

This section 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 commuting travel, highway mileage and finances, motor vehicle travel, accidents, sales, and registrations, automobile operating costs, and characteristics of public transit, railroads, and pipelines.

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. Interstate Commerce Commission (ICC) presents data on interstate land transport in its publications, the *Annual Report to Congress* and the *Transport Statistics in the United States*, which contain data on railroads and motor carriers subject to ICC regulations.

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*.

Various censuses and surveys conducted by the U.S. Bureau of the Census also provide data. Results of the censuses of transportation are presented in the *Truck Inventory and Use Survey*. The *Annual Survey of Manufactures* and reports of the censuses of manufactures, wholesale and retail trade, and service industries contain statistics on the motor vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Data on persons commuting to work were collected as part

### In Brief

Transportation outlays reached \$796.8 billion in 1996

State gasoline tax rates for 1995—  
*Lowest rate, 7.5 cents/gallon in Georgia*  
*Highest rate, 34 cents/gallon in Connecticut*

of the 1980 census and are in various census reports.

Data are also presented in many non-government 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; and the *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, DC. Useful annual handbooks in the field of transportation are *Motor Vehicle Facts and Figures* and *World Motor Vehicle Data*, issued by the American Automobile Manufacturers Association (AAMA), Detroit, MI; *Accident Facts*, issued by the National Safety Council, Chicago, IL; and *Transportation in America*, issued by the ENO Foundation for Transportation, Westport, Connecticut.

### Urban and rural highway mileage—

Beginning in 1980, mileage is classified in urban and rural categories, rather than municipal and rural. Urban denotes the federal-aid legislation definition of an area. Such areas include, as a minimum, a census place with a population of 5,000 to 49,999 or a designated urbanized area with a population of 50,000 or more. These federal-aid urban areas may extend beyond corporate and census boundaries, and thus are not necessarily coextensive with municipal boundaries. Rural in 1980 refers to nonfederal-aid urban area mileage. Prior to 1980, municipal referred to roads within

incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas and rural to nonmunicipal roads.

**Federal-Aid Highway Systems**—The Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 eliminated the historical Federal-Aid 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 they are intended to provide. 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.

**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 I 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 non-operating 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 1990, the criteria for class I and class II railroads were \$94.4 million and \$18.9 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. Effective January 1, 1992, the ICC adopted new revenue classification levels as follows: Class I—\$250 million or more; Class II—less than \$250 million but in excess of \$20 million; Class III—\$20 million or less. The inflation adjustment index still applies. Class II and class III railroads are currently exempted from filing any financial report with the Commission. The form is used for reclassifying carriers.

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

## No. 1013. Passenger and Freight Transportation Outlays, by Type of Transport: 1980 to 1996

[In millions of dollars. Freight data include outlays for mail and express. ICC=Interstate Commerce Commission]

TYPE OF TRANSPORT	1980	1985	1990	1991	1992	1993	1994	1995	1996
<b>Total outlays</b> <sup>1</sup> . . . . .	<b>338,148</b>	<b>492,156</b>	<b>630,419</b>	<b>601,774</b>	<b>644,580</b>	<b>683,697</b>	<b>715,177</b>	<b>759,947</b>	<b>796,826</b>
Passenger:									
Private transportation . . . . .	284,752	418,213	528,298	498,157	538,223	575,942	604,792	641,250	672,682
Automobiles <sup>2</sup> . . . . .	276,699	410,313	518,026	488,260	529,309	566,467	594,373	630,559	661,626
New and used cars . . . . .	73,266	139,300	165,500	153,300	152,900	165,000	184,400	181,800	186,600
Tires, tubes, accessories . . . . .	22,234	29,647	25,444	25,630	32,780	34,760	31,680	40,667	43,222
Gasoline and oil . . . . .	99,724	106,588	120,444	113,190	116,050	118,910	117,920	127,333	135,333
Insurance less claims . . . . .	11,465	11,647	20,111	24,970	28,050	29,480	31,460	31,111	32,556
Interest on debt . . . . .	17,548	26,743	35,535	25,960	25,740	28,060	34,457	40,693	41,824
Auto registration fees . . . . .	2,892	4,774	6,054	6,328	7,138	7,369	7,423	7,043	6,951
Operator's permit and fees . . . . .	370	547	638	702	781	738	823	823	839
Repair, greasing, washing, parking, tolls <sup>3</sup> . . . . .	37,999	58,118	91,778	89,980	103,840	112,200	116,400	128,700	140,100
Air . . . . .	8,053	7,900	10,272	9,897	8,914	9,475	10,419	10,691	11,056
For-hire transportation . . . . .	53,396	73,943	102,121	103,617	106,357	107,755	110,385	118,697	124,143
Local <sup>4</sup> . . . . .	19,784	27,317	34,169	35,391	36,041	37,401	38,868	42,589	42,005
Bus and transit <sup>5</sup> . . . . .	9,297	13,548	16,651	17,278	17,932	18,722	20,006	20,963	19,739
School bus . . . . .	3,833	5,900	7,605	7,879	8,060	7,618	7,847	9,082	10,404
Taxi . . . . .	5,195	5,636	7,111	7,556	7,333	7,556	7,778	8,046	8,208
Railroad commutation . . . . .	1,459	2,233	2,802	2,678	2,716	3,505	3,107	4,498	3,654
Intercity . . . . .	28,345	39,518	53,033	52,613	53,063	52,798	53,798	57,728	63,141
Air . . . . .	25,098	35,860	49,506	48,938	49,242	49,297	50,514	53,976	59,289
Rail <sup>6</sup> . . . . .	1,517	1,642	1,719	1,736	1,855	1,773	1,810	2,194	2,231
Bus . . . . .	1,709	1,989	1,750	1,875	1,899	1,667	1,410	1,481	1,540
International . . . . .	5,267	7,108	14,919	15,613	17,253	17,556	17,719	18,380	18,996
Freight, total <sup>4</sup> . . . . .	213,736	273,612	350,949	355,215	375,093	396,306	419,904	444,452	467,208
Highway . . . . .	155,331	205,645	270,776	274,381	292,930	311,878	330,716	348,109	368,545
Truck, intercity . . . . .	94,551	123,200	162,300	164,600	176,800	189,700	204,876	219,627	235,440
Truck, local . . . . .	60,545	82,200	108,350	109,650	116,000	122,050	125,712	128,352	132,973
Rail . . . . .	27,858	29,150	30,067	30,003	30,473	30,775	33,121	34,343	35,059
Water . . . . .	15,498	18,448	20,121	20,306	19,895	20,768	21,150	24,873	24,961
Oil pipeline . . . . .	7,548	8,910	8,505	8,101	8,521	8,421	8,273	9,051	8,625
Air carrier . . . . .	4,013	6,817	13,706	14,353	14,950	15,805	17,239	18,735	20,118

<sup>1</sup> Total outlays less than sum of passenger and freight totals, as estimated freight costs included in costs of new cars, gasoline, oil, tires, and tubes have been excluded to prevent duplication.  
<sup>2</sup> Includes business-owned vehicles. <sup>3</sup> Includes storage and rental. <sup>4</sup> Includes items not shown separately. <sup>5</sup> Includes federal, state, and local government operating subsidies and capital grants.  
<sup>6</sup> Includes federal operating subsidies and capital grants for Amtrak.

Source: Eno Transportation Foundation, Inc., Lansdowne, VA, *Transportation in America*, annual (copyright).

## No. 1014. Transportation Industry Summary: 1992

[Includes only establishments with payroll. N.e.c.=Not elsewhere classified]

KIND OF BUSINESS	SIC code <sup>1</sup>	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll	Paid employees for pay period including March 12 (number)
<b>Total transportation, except U.S. Post Office.</b>	<b>(X)</b>	<b>(NA)</b>	<b>327,623</b>	<b>92,211</b>	<b>(NA)</b>	<b>3,356,872</b>
Railroad transportation <sup>2</sup>	40	(NA)	28,349	8,753	(NA)	197,421
Passenger transportation	41	17,805	12,649	5,191	1,246	354,913
Local and suburban passenger transportation	411	8,275	5,968	2,624	613	153,278
Local and suburban transit	4111	1,135	1,364	838	199	37,653
Other local passenger transportation	4119	7,140	4,604	1,786	414	115,625
Sightseeing bus	4119 pt	277	342	104	22	5,565
Limousine service	4119 pt	2,430	964	278	64	20,739
Ambulance/rescue service, except by air	4119 pt	3,070	2,507	1,104	256	66,885
Other local passenger transport, n.e.c.	4119 pt	1,363	791	300	72	22,436
Taxicabs	412	3,337	992	306	75	26,338
Other bus transport and terminal service	413, 4, 5, 7	6,193	5,689	2,261	558	175,297
Intercity and rural bus service	413	607	1,092	483	116	20,404
Charter bus service	414	1,307	1,269	394	86	24,604
Local charter bus	4141	429	375	125	29	7,699
Charter bus, except local	4142	878	894	269	58	16,905
School buses	415	4,260	3,315	1,380	355	130,093
Bus terminal and service facilities	417	19	12	4	1	196
Motor freight transportation and warehousing	42	110,908	143,794	39,896	9,196	1,580,095
Trucking and courier services, except air	421	101,169	135,437	37,760	8,691	1,484,655
Local trucking without storage	4212	49,870	33,554	8,043	1,799	354,742
Household goods moving	4212 pt	2,566	661	196	43	13,237
General freight	4212 pt	12,186	8,404	2,250	522	97,594
Garbage and trash collection	4212 pt	7,405	10,985	2,473	577	94,054
Dump trucking	4212 pt	13,383	6,807	1,418	277	66,956
Other local trucking without storage	4212 pt	14,330	6,698	1,707	380	82,901
Hazardous materials	4212 pt	1,279	885	238	57	9,270
Agricultural products	4212 pt	6,203	2,188	478	106	26,897
Other local trucking without storage, n.e.c.	4212 pt	6,848	3,625	990	218	46,734
Trucking, except local	4213	40,821	78,358	20,974	4,808	758,435
Household goods moving	4213 pt	3,248	7,433	1,354	302	61,592
General freight trucking	4213 pt	25,014	55,257	15,880	3,650	553,202
Other trucking, except local	4213 pt	12,559	15,668	3,741	856	143,641
Hazardous products	4213 pt	1,666	2,759	720	170	25,617
Agricultural products	4213 pt	4,483	3,304	665	146	30,518
Other trucking, except storage, n.e.c.	4213 pt	6,410	9,605	2,356	540	87,506
Local trucking with storage	4214	4,512	4,191	1,346	303	64,417
Household goods moving	4214 pt	2,641	2,175	703	155	36,483
Other local trucking with storage	4214 pt	1,871	2,016	643	149	27,934
Courier services, except by air	4215	5,966	19,334	7,396	1,780	307,061
Public warehousing and storage	422	9,718	8,330	2,127	504	95,145
Farm products warehousing and storage	4221	584	656	130	31	6,497
Refrigerated warehousing and storage	4222	929	1,745	464	111	18,963
General warehousing and storage	4225	6,753	3,919	983	233	49,091
General goods warehousing	4225 pt	2,251	2,641	832	196	37,814
Self-service or miniwarehousing	4225 pt	4,502	1,279	151	37	11,277
Special warehousing and storage, n.e.c.	4226	1,452	2,009	551	129	20,594
Trucking terminal facilities	423	21	27	8	2	295
Pipelines, except natural gas	46	844	7,063	821	203	16,779
Refined petroleum pipelines	4613	358	2,010	252	61	5,578
Other pipelines	4612, 9	486	5,053	569	142	11,201
Crude petroleum pipelines	4612	405	4,409	531	132	10,355
Pipelines, n.e.c.	4619	81	644	38	10	846
Transportation services	47	46,593	23,890	7,850	1,854	329,202
Arrangement of passenger transportation	472	31,793	10,573	3,921	931	192,981
Travel agencies	4724	27,688	6,964	2,836	673	149,140
Other arrangement of passenger transportation	4725,9	4,105	3,608	1,086	258	43,841
Tour operators	4725	3,008	1,865	690	155	30,519
Arrangement of passenger transportation, n.e.c.	4729	1,097	1,744	396	102	13,322
Freight shipping services	473	12,553	9,159	3,233	761	106,979
Freight forwarding	4731 pt	5,308	4,156	1,437	335	48,903
Arrangement of freight and cargo, n.e.c.	4731 pt	7,245	5,002	1,796	426	58,076
Other transportation services	474, 8	2,247	4,158	696	162	29,242
Rental of railroad cars	474	125	1,881	85	23	1,926
Misc. services incidental to transportation	478	2,122	2,277	612	140	27,316
Packing and crating	4783	835	522	155	33	8,123
Fixed facilities, inspect./weighing services	4785	263	221	65	15	2,810
Transportation services, n.e.c.	4789	1,024	1,534	392	91	16,383

NA Not available. X Not applicable. <sup>1</sup>1987 Standard Industrial Classification, see text, Section 13. <sup>2</sup>Includes Class I Freight railroads only. Source: Association of American Railroads, Washington DC, *Railroad Facts*, annual.

Source: Except as noted, U.S. Bureau of the Census, *Census of Transportation, Communications and Utilities: 1992*.

**No. 1015. Employment and Earnings in Transportation, by Industry: 1980 to 1997**

[Annual averages of monthly figures. Based on Current Employment Statistics program; see Appendix III]

INDUSTRY	SIC <sup>1</sup> code	1980	1985	1990	1992	1993	1994	1995	1996	1997
NUMBER (1,000)										
<b>Total transportation . . . . .</b>	<b>(X)</b>	<b>2,960</b>	<b>2,997</b>	<b>3,511</b>	<b>3,495</b>	<b>3,598</b>	<b>3,761</b>	<b>3,904</b>	<b>4,019</b>	<b>4,106</b>
Railroads . . . . .	40	532	359	279	254	248	241	238	231	227
Class I railroads . . . . .	4011	482	323	241	222	218	214	212	206	202
Local and interurban passengers . . . . .	41	265	277	338	361	379	404	419	437	451
Trucking and warehousing . . . . .	42	(NA)	(NA)	1,395	1,385	1,444	1,526	1,587	1,637	1,667
Water transportation . . . . .	44	211	185	177	173	168	172	175	174	180
Air transportation . . . . .	45	(NA)	(NA)	968	964	988	1,023	1,068	1,107	1,128
Pipelines, exc. natural gas . . . . .	46	21	19	19	19	18	17	15	15	14
Transportation services . . . . .	47	(NA)	(NA)	336	338	352	378	401	418	439
AVERAGE WEEKLY EARNINGS (dol.)										
Class I railroads . . . . .	4011	427	595	727	736	782	786	811	850	892
Local and interurban passengers . . . . .	41	217	261	310	334	342	354	358	367	374
Trucking and warehousing . . . . .	42	358	405	450	467	484	499	501	515	532
Pipelines, exc. natural gas . . . . .	46	441	629	711	772	817	872	888	909	902

NA Not available. X Not applicable. <sup>1</sup> 1987 Standard Industrial Classification, see text, Section 13.

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

**No. 1016. Volume of Domestic Intercity Freight and Passenger Traffic, by Type of Transport: 1980 to 1996**

[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 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue]

TYPE OF TRANSPORT	TRAFFIC VOLUME						PERCENT DISTRIBUTION					
	1980	1985	1990	1994	1995	1996	1980	1985	1990	1994	1995	1996
<b>Freight traffic, total . . . . .</b>	<b>2,487</b>	<b>2,458</b>	<b>2,895</b>	<b>3,261</b>	<b>3,407</b>	<b>3,563</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Railroads . . . . .	932	895	1,091	1,275	1,375	1,426	37.5	38.0	35.6	37.7	37.9	37.6
Truck:												
ICC truck . . . . .	242	250	311	391	401	437	9.7	9.9	10.4	10.7	11.0	11.3
Non-ICC truck . . . . .	313	360	424	517	520	549	12.6	11.8	14.9	14.6	15.1	15.6
Water:												
Rivers/canals . . . . .	311	306	390	388	406	417	12.5	12.8	13.0	13.5	13.3	13.0
Great Lakes . . . . .	96	76	85	87	91	90	3.9	4.0	2.7	2.9	2.5	2.5
Oil pipelines . . . . .	588	564	584	591	601	631	23.6	23.2	23.1	20.2	19.9	19.5
Domestic airways <sup>1</sup> . . . . .	5	7	10	12	13	13	0.2	0.2	0.3	0.4	0.3	0.4
<b>Passenger traffic, total . . . . .</b>	<b>1,468</b>	<b>1,636</b>	<b>2,034</b>	<b>2,280</b>	<b>2,354</b>	<b>(NA)</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Private automobiles . . . . .	1,210	1,310	1,639	1,842	1,898	(NA)	82.5	82.7	79.4	80.6	81.3	81.3
Domestic airways <sup>2</sup> . . . . .	15	12	13	11	11	(NA)	1.0	14.7	0.0	0.6	0.6	0.5
Air, public carrier . . . . .	204	278	346	388	403	(NA)	13.9	0.0	0.0	17.0	16.3	16.5
Bus <sup>3</sup> . . . . .	27	24	23	25	28	(NA)	1.9	1.8	1.4	1.1	1.1	1.1
Railroads <sup>4</sup> . . . . .	11	11	13	14	14	(NA)	0.7	0.7	0.7	0.6	0.7	0.7

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., Lansdowne VA, *Transportation in America*, annual (copyright).

## No. 1017. Commodity Shipments — Value, Tons and Ton-Miles: 1993

MODE OF TRANSPORTATION	VALUE		TONS		TON-MILES		
	Number (mil. dol.)	Percent	Number (1,000)	Percent	Number (mil.)	Percent	Avg. miles per shipment <sup>1</sup>
<b>All commodities . . . . .</b>	<b>5,846,334</b>	<b>100.0</b>	<b>9,688,493</b>	<b>100.0</b>	<b>2,420,915</b>	<b>100.0</b>	<b>424</b>
Farm products . . . . .	142,442	2.4	636,630	6.6	276,260	11.4	220
Forest products . . . . .	1,700	-	30,520	0.3	3,635	0.2	222
Fresh fish or other marine products . . . . .	11,062	0.2	2,995	-	1,746	0.1	159
Metallic ores. . . . .	20,278	0.3	149,562	1.5	36,895	1.5	358
Coal. . . . .	23,449	0.4	1,129,945	11.7	487,791	20.1	86
Crude petroleum, natural gas, or gasoline. . . . .	(S)	-	(S)	-	(S)	-	(S)
Nonmetallic minerals. . . . .	20,695	0.4	1,786,381	18.4	155,417	6.4	112
Ordnance or accessories . . . . .	17,174	0.3	663	-	629	-	919
Food or kindred products . . . . .	856,884	14.7	859,764	8.9	270,984	11.2	102
Tobacco products, excluding insecticides . . . . .	60,640	1.0	3,225	-	931	-	146
Textile mill products . . . . .	102,189	1.7	24,757	0.3	11,341	0.5	711
Apparel or other finished textile products . . . . .	291,203	5.0	15,128	0.2	9,967	0.4	925
Lumber or wood products, excluding furniture . . . . .	126,662	2.2	663,351	6.8	120,669	5.0	227
Furniture or fixtures. . . . .	69,471	1.2	16,568	0.2	9,789	0.4	547
Pulp, paper, or allied products. . . . .	195,002	3.3	217,233	2.2	100,721	4.2	186
Printed matter . . . . .	(S)	-	(S)	-	(S)	-	(S)
Chemicals or allied products. . . . .	532,907	9.1	545,405	5.6	236,856	9.8	349
Petroleum or coal products. . . . .	359,471	6.1	1,885,833	19.5	287,081	11.9	101
Rubber or miscellaneous plastics products . . . . .	175,267	3.0	52,349	0.5	25,528	1.1	466
Leather or leather products . . . . .	50,645	0.9	2,401	-	2,182	0.1	941
Clay, concrete, glass, or stone products . . . . .	91,365	1.6	799,481	8.3	84,032	3.5	349
Primary metal products . . . . .	228,610	3.9	266,409	2.7	97,266	4.0	275
Fabricated metal products . . . . .	237,316	4.1	84,895	0.9	30,489	1.3	395
Machinery, excluding electrical . . . . .	442,770	7.6	34,180	0.4	19,112	0.8	519
Electrical machinery, equipment, or supplies . . . . .	411,030	7.0	30,156	0.3	19,591	0.8	660
Transportation equipment. . . . .	652,474	11.2	87,617	0.9	49,098	2.0	339
Instruments, photographic goods, optical goods, watches, or clocks . . . . .	198,492	3.4	8,600	0.1	5,390	0.2	656
Waste or scrap materials . . . . .	18,258	0.3	130,894	1.4	27,591	1.1	160
Containers, carriers or devices, shipping, returned empty. . . . .	1,144	-	702	-	230	-	229
Waste hazardous materials/substances . . . . .	558	-	813	-	314	-	190
Commodity unknown. . . . .	21,941	0.4	7,804	0.1	2,522	0.1	477

- Represents zero. S Data do not meet publication standards due to high sampling variability or other reasons. <sup>1</sup> Excludes shipments of STCC 27, printed matter.

Source: U.S. Bureau of Transportation Statistics, *National Transportation Statistics, 1996*. Data from U.S. Bureau of the Census, *1993 Commodity Flow Survey, U.S. Preliminary Report, TC92-CF-52(P)*, July 1995.

## No. 1018. Transportation Accidents, Deaths, and Injuries: 1990 to 1996

[For related data, see also Table 1047]

YEAR AND CASUALTY	TYPE OF TRANSPORT											Hazardous materials <sup>11</sup>	
	Motor vehicle <sup>1</sup> (1,000)	Railroad <sup>2</sup>	Air carriers				General aviation	Recreational boating <sup>5</sup>	Gas pipe-lines <sup>7</sup>	Liquid pipe-lines <sup>8</sup>	Water-borne <sup>9</sup>		Rail Rapid Transit <sup>10</sup>
			Total	Air-lines <sup>3</sup>	Com-muter air carriers <sup>4</sup>	On demand air carriers <sup>5</sup>							
<b>Accidents:</b>													
1990 . . . . .	6,471	2,879	146	24	16	106	2,215	6,411	198	180	3,613	12,178	8,882
1995 . . . . .	6,699	2,459	123	36	11	75	2,055	8,019	161	188	4,196	14,327	14,741
1996 . . . . .	6,842	2,443	139	38	12	89	1,905	8,026	185	195	3,799	13,748	13,801
<b>Deaths:</b>													
1990 . . . . .	44.6	599	95	39	7	50	765	865	6	3	85	117	8
1995 . . . . .	41.8	567	229	168	9	52	734	829	18	3	46	79	7
1996 . . . . .	41.9	551	457	380	14	63	631	709	15	5	50	74	120
<b>Injuries:</b>													
1990 . . . . .	3,231	22,736	86	39	11	36	391	3,822	69	7	175	10,036	443
1995 . . . . .	3,465	12,546	64	25	25	14	395	4,141	53	11	145	11,238	399
1996 . . . . .	3,511	10,948	99	77	2	20	359	4,442	72	13	129	11,093	1,168

<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. <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; prior data are credited to the year filed. <sup>8</sup> Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. <sup>9</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 of efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. <sup>10</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>11</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. 1019. Highway Mileage—Functional Systems and Urban/Rural: 1996**

[As of Dec. 31. For definition of urban, rural, see text, Section 21]

STATE	FUNCTIONAL SYSTEMS					Urban	Rural
	Total	Inter-state <sup>1</sup>	Other arterial	Collector	Local		
<b>U.S.<sup>1</sup></b> .....	<b>3,933,985</b>	<b>46,286</b>	<b>378,827</b>	<b>795,275</b>	<b>2,704,727</b>	<b>833,623</b>	<b>3,100,362</b>
AL .....	93,340	904	8,748	22,473	63,378	20,116	73,224
AK .....	13,255	1,086	1,512	2,982	7,904	1,795	11,460
AZ .....	54,895	1,169	4,838	10,303	40,334	16,233	38,662
AR .....	77,746	541	6,885	21,057	50,192	7,698	70,048
CA .....	170,506	2,424	28,067	42,136	107,904	83,109	87,397
CO .....	84,797	954	8,337	17,885	58,930	13,658	71,139
CT .....	20,600	344	3,045	4,162	14,239	11,680	8,920
DE .....	5,715	41	626	1,166	4,105	1,982	3,733
DC .....	1,413	13	271	304	977	1,413	-
FL .....	114,422	1,471	12,384	21,135	85,338	48,339	66,083
GA .....	111,746	1,241	13,226	25,222	74,166	26,655	85,091
HI .....	4,142	43	786	1,128	2,524	1,851	2,291
ID .....	59,674	611	3,678	10,059	45,836	3,773	55,901
IL .....	137,577	2,163	13,956	25,239	99,981	35,689	101,888
IN .....	92,970	1,172	8,037	24,803	61,161	19,644	73,326
IA .....	112,708	781	9,429	32,419	71,010	9,349	103,359
KS .....	133,386	872	9,320	34,255	89,948	9,757	123,629
KY .....	73,158	762	5,526	18,753	49,263	10,283	62,875
LA .....	60,667	893	5,332	13,844	41,905	13,965	46,702
ME .....	22,577	368	2,327	6,397	13,969	2,615	19,962
MD .....	29,680	482	3,780	6,292	20,431	13,899	15,781
MA .....	34,725	565	5,843	8,023	22,828	22,675	12,050
MI .....	117,620	1,239	12,409	28,343	78,151	28,142	89,478
MN .....	130,613	913	12,737	31,029	87,462	15,381	115,232
MS .....	73,202	685	7,093	16,517	49,887	7,921	65,281
MO .....	122,748	1,178	9,582	26,673	86,921	16,415	106,333
MT .....	69,809	1,190	6,002	16,703	46,207	2,420	67,389
NE .....	92,805	480	7,901	21,183	63,651	5,121	87,684
NV .....	45,039	563	2,990	6,105	36,283	5,298	39,741
NH .....	15,106	224	1,582	2,998	10,586	2,916	12,190
NJ .....	35,924	422	5,724	6,752	25,191	24,241	11,683
NM .....	59,455	1,000	4,516	7,157	47,236	6,133	53,322
NY .....	112,347	1,499	14,453	24,543	75,878	40,646	71,701
NC .....	97,509	981	9,162	19,456	69,578	22,432	75,077
ND .....	86,808	571	5,872	11,621	68,965	1,823	84,985
OH .....	114,642	1,573	11,015	25,739	79,872	33,191	81,451
OK .....	112,664	930	7,973	26,372	78,371	13,034	99,630
OR .....	83,190	728	6,539	18,970	58,139	10,151	73,039
PA .....	118,952	1,750	13,621	23,526	83,809	33,202	85,750
RI .....	6,001	69	821	1,362	4,254	4,641	1,360
SC .....	64,359	829	6,871	14,858	43,267	10,574	53,785
SD .....	83,375	678	6,286	19,478	57,132	1,940	81,435
TN .....	85,795	1,062	8,713	19,714	57,940	17,277	68,518
TX .....	296,259	3,234	29,355	72,163	200,426	82,197	214,062
UT .....	41,718	940	3,332	8,368	29,629	6,412	35,306
VT .....	14,192	320	1,316	3,326	9,441	1,334	12,858
VA .....	69,384	1,107	8,304	16,157	45,750	18,530	50,854
WA .....	79,555	763	7,614	18,829	54,388	17,647	61,908
WV .....	35,130	550	3,248	9,240	22,537	3,177	31,953
WI .....	111,435	745	11,857	22,931	77,393	15,982	95,453
WY .....	34,115	913	3,666	10,997	19,011	2,321	31,794

- Represents zero. <sup>1</sup> Also includes freeways and expressways. <sup>2</sup> Includes Puerto Rico not shown separately.

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



### No. 1020. Highway Mileage—Urban and Rural, by Type and Control, and Federal-Aid Highway System: 1980 to 1996

[In thousands, except percent. As of Dec. 31. Data for urban and rural mileage are not comparable to years prior to 1980 because of classification changes; see text, Section 21]

TYPE AND CONTROL	1980	1985	1990	1991	1992	1993	1994	1995	1996
<b>Total mileage</b> <sup>1</sup> . . . . .	<b>23,955</b>	<b>3,862</b>	<b>3,880</b>	<b>3,889</b>	<b>3,902</b>	<b>3,905</b>	<b>3,906</b>	<b>3,912</b>	<b>3,934</b>
Urban mileage . . . . .	624	691	757	750	785	803	814	814	834
Under state control . . . . .	79	111	96	96	104	106	110	112	113
Under local control . . . . .	543	578	661	653	680	696	702	706	719
Rural mileage . . . . .	23,331	3,171	3,123	3,139	3,117	3,102	3,093	3,093	3,100
Under state control . . . . .	702	773	703	703	697	675	690	691	693
Under local control . . . . .	2,270	2,173	2,242	2,255	2,239	2,247	2,229	2,231	2,238
Under federal control . . . . .	262	225	178	182	181	180	174	170	169

<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.

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

### No. 1021. Highway Pavement Condition, by Type of Road System: 1996

CONDITION	URBAN AREAS						RURAL AREAS				
	Total	Inter-state	Other			Collector	Total	Inter-state	Other principal arterial	Minor arterial	Major collector
			Free-ways and express-ways	Principal arterial	Minor arterial						
Percent of road mileage rated—											
Above Average . . . . .	35	38	33	25	42	34	42	55	43	39	40
Average . . . . .	42	53	55	49	37	39	42	41	49	51	38
Below Average . . . . .	23	9	12	26	21	27	17	4	7	11	22

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

### No. 1022. Funding for Highways: 1980 to 1996

[In millions of dollars. Data compiled from reports of state and local authorities]

TYPE	1980	1985	1990	1992	1993	1994	1995	1996
<b>Total receipts</b> . . . . .	<b>39,715</b>	<b>61,506</b>	<b>75,294</b>	<b>86,703</b>	<b>88,380</b>	<b>88,296</b>	<b>95,313</b>	<b>101,497</b>
Current income . . . . .	37,604	54,957	69,730	77,404	80,610	80,514	87,694	92,179
Other taxes and fees . . . . .	11,808	15,127	19,827	19,933	19,375	19,872	21,390	21,274
Investment income, other receipts . . . . .	3,237	4,231	5,639	6,582	6,834	6,166	6,742	7,083
Bond issue proceeds <sup>1</sup> . . . . .	2,111	6,549	5,564	9,299	7,770	7,782	7,619	9,318
Funds from (+) or to (-) reserves <sup>2</sup> . . . . .	2,080	-4,058	114	-3,155	-1,955	962	-2,809	-3,339
Total funds available . . . . .	41,795	57,448	75,408	83,548	86,425	89,258	92,504	98,158
<b>Total disbursements</b> . . . . .	<b>41,795</b>	<b>57,448</b>	<b>75,408</b>	<b>83,548</b>	<b>86,425</b>	<b>89,258</b>	<b>92,504</b>	<b>98,158</b>
Current disbursements . . . . .	40,084	54,725	72,457	78,959	81,233	85,109	87,843	93,663
Capital outlay . . . . .	20,337	27,138	35,151	38,309	39,528	41,780	43,097	46,519
Maintenance and traffic services . . . . .	11,445	16,032	20,365	22,223	22,894	23,607	24,455	25,803
Administration and research . . . . .	3,022	4,033	6,501	7,718	7,921	8,398	8,332	8,645
Law enforcement and safety . . . . .	3,824	5,334	7,235	7,088	7,157	7,518	7,977	8,774
Interest on debt . . . . .	1,456	2,188	3,205	3,621	3,733	3,806	3,982	3,922
Bond retirement . . . . .	1,711	2,723	2,951	4,589	5,192	4,149	4,661	4,495

<sup>1</sup> Excludes issue and redemption of short-term notes and refunding bonds. <sup>2</sup> Plus sign (+) indicates net receipt of funds from other levels of government; minus sign (-) indicates net disbursement of funds to other levels.

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



**No. 1023. Disbursement of State Highway Funds, by State: 1990 to 1996**

[In millions of dollars. Comprises disbursements from current revenues. Includes transactions by state toll authorities. Excludes amounts allocated for collection expenses and nonhighway purposes, and bonds redeemed by refunding]

STATE	1990	1995	1996	STATE	1990	1995	1996	STATE	1990	1995	1996
<b>U.S. . . .</b>	<b>53,580</b>	<b>67,261</b>	<b>71,736</b>	KS . . . . .	697	1,019	1,162	ND . . . . .	189	270	266
AL . . . . .	866	1,002	1,064	KY . . . . .	1,008	1,342	1,372	OH . . . . .	2,271	2,637	2,709
AK . . . . .	336	438	453	LA . . . . .	923	1,195	1,417	OK . . . . .	827	828	918
AZ . . . . .	1,525	1,199	1,532	ME . . . . .	332	379	509	OR . . . . .	765	888	995
AR . . . . .	456	666	755	MD . . . . .	1,464	1,289	1,449	PA . . . . .	2,885	3,153	3,118
CA . . . . .	4,294	5,966	531	MA . . . . .	1,055	2,501	2,545	RI . . . . .	214	290	297
CO . . . . .	714	922	922	MI . . . . .	1,526	1,974	1,966	SC . . . . .	585	668	678
CT . . . . .	1,204	1,153	1,202	MN . . . . .	1,228	1,210	1,374	SD . . . . .	232	286	289
DE . . . . .	315	441	452	MS . . . . .	529	662	826	TN . . . . .	1,174	1,230	1,283
DC . . . . .	273	140	163	MO . . . . .	937	1,313	1,402	TX . . . . .	3,001	3,593	4,312
FL . . . . .	1,677	3,402	3,472	MT . . . . .	302	388	377	UT . . . . .	355	431	457
GA . . . . .	1,278	1,437	1,675	NE . . . . .	449	578	595	VT . . . . .	165	194	192
HI . . . . .	297	307	405	NV . . . . .	309	484	468	VA . . . . .	1,874	2,107	2,321
ID . . . . .	300	350	359	NH . . . . .	299	328	346	WA . . . . .	1,251	1,842	1,766
IL . . . . .	2,645	2,985	3,097	NJ . . . . .	1,831	2,102	2,928	WV . . . . .	650	781	935
IN . . . . .	1,218	1,368	1,444	NM . . . . .	409	535	532	WI . . . . .	979	1,252	1,324
IA . . . . .	869	1,078	1,128	NY . . . . .	2,874	4,515	4,424	WY . . . . .	297	272	283
				NC . . . . .	1,428	1,871	1,939				

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

**No. 1024. Federal Grants to State and Local Governments for Highway Trust Fund and Federal Transit Administration (FTA), by State: 1997**

[Year ending Sept. 30]

STATE	HIGHWAY TRUST FUND		FTA		STATE	HIGHWAY TRUST FUND		FTA		STATE	HIGHWAY TRUST FUND		FTA	
	Total (mil. dol.)	Per cap-ita	Total (mil. dol.)	Per cap-ita		Total (mil. dol.)	Per cap-ita	Total (mil. dol.)	Per cap-ita		Total (mil. dol.)	Per cap-ita	Total (mil. dol.)	Per cap-ita
<b>U.S. . . . .</b>	<b>20,467</b>	<b>75.4</b>	<b>4,555</b>	<b>16.8</b>	KS . . . . .	186	71.7	5	2.1	ND . . . . .	141	220.5	4	6.8
AL . . . . .	299	69.3	10	2.4	KY . . . . .	293	74.9	16	4.1	OH . . . . .	763	68.2	94	8.4
AK . . . . .	240	394.0	2	2.9	LA . . . . .	256	58.8	48	11.1	OK . . . . .	270	81.4	13	4.0
AZ . . . . .	334	73.2	35	7.7	ME . . . . .	118	94.9	3	2.8	OR . . . . .	340	104.7	164	50.6
AR . . . . .	285	113.1	9	3.6	MD . . . . .	419	82.3	90	17.6	PA . . . . .	934	77.7	256	21.3
CA . . . . .	2,097	65.0	675	20.9	MA . . . . .	1,025	167.5	225	36.8	RI . . . . .	106	107.4	7	7.1
CO . . . . .	207	53.3	20	5.2	MI . . . . .	605	61.9	68	6.9	SC . . . . .	252	67.0	10	2.8
CT . . . . .	368	112.7	72	21.9	MN . . . . .	302	64.5	13	2.7	SD . . . . .	146	197.3	5	6.6
DE . . . . .	86	116.9	6	7.6	MS . . . . .	195	71.4	7	2.6	TN . . . . .	378	70.5	40	7.4
DC . . . . .	94	178.0	117	220.6	MO . . . . .	444	82.2	62	11.5	TX . . . . .	1,179	60.7	173	8.9
FL . . . . .	736	50.3	154	10.5	MT . . . . .	171	195.1	3	2.9	UT . . . . .	153	74.4	43	20.9
GA . . . . .	473	63.2	119	15.8	NE . . . . .	167	101.0	6	3.3	VT . . . . .	89	151.6	7	12.5
HI . . . . .	207	174.2	10	8.1	NV . . . . .	148	88.5	22	13.3	VA . . . . .	442	65.6	37	5.5
ID . . . . .	161	133.0	4	3.2	NH . . . . .	105	89.3	3	2.9	WA . . . . .	467	83.2	92	16.3
IL . . . . .	704	59.1	281	23.6	NJ . . . . .	644	80.0	352	43.7	WV . . . . .	219	120.3	13	7.1
IN . . . . .	429	73.1	40	6.8	NM . . . . .	201	116.3	11	6.6	WI . . . . .	329	63.7	40	7.7
IA . . . . .	229	80.3	20	6.9	NY . . . . .	1,201	66.2	752	41.4	WY . . . . .	134	279.2	1	2.9
					NC . . . . .	448	60.3	35	4.8					

<sup>1</sup> Based on Bureau of the Census resident population as of July 1; excluding population of the territories. Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year*, annual.

**No. 1025. State Gasoline Tax Rates, 1994 and 1995, and Motor Fuel Tax Receipts, 1996**

STATE	RATE <sup>1</sup> (cents/gal.)		Re-ceipts, 1996 (mil. dol.)	STATE	RATE <sup>1</sup> (cents/gal.)		Re-ceipts, 1996 (mil. dol.)	STATE	RATE <sup>1</sup> (cents/gal.)		Re-ceipts, 1996 (mil. dol.)
	1994	1995			1994	1995			1994	1995	
AL . . . . .	18.0	18.0	531	KY . . . . .	16.4	16.4	401	ND . . . . .	18.0	18.0	93
AK . . . . .	8.0	8.0	20	LA . . . . .	20.0	20.0	528	OH . . . . .	22.0	22.0	1,348
AZ . . . . .	18.0	18.0	483	ME . . . . .	19.0	19.0	149	OK . . . . .	17.0	17.0	367
AR . . . . .	18.7	18.7	340	MD . . . . .	23.5	23.5	606	OR . . . . .	24.0	24.0	372
CA . . . . .	18.0	18.0	2,721	MA . . . . .	21.0	21.0	599	PA . . . . .	22.4	22.4	1,311
CO . . . . .	22.0	22.0	440	MI . . . . .	15.0	15.0	762	RI . . . . .	28.0	29.0	124
CT . . . . .	31.0	34.0	498	MN . . . . .	20.0	20.0	516	SC . . . . .	16.0	16.0	383
DE . . . . .	22.0	23.0	93	MS . . . . .	18.4	18.4	336	SD . . . . .	18.0	18.0	93
DC . . . . .	20.0	20.0	32	MO . . . . .	15.1	15.0	589	TN . . . . .	20.0	20.0	663
FL . . . . .	12.1	12.3	1,291	MT . . . . .	27.0	27.0	170	TX . . . . .	20.0	20.0	2,337
GA . . . . .	7.5	7.5	411	NE . . . . .	25.4	25.4	251	UT . . . . .	19.0	19.0	217
HI . . . . .	16.0	16.0	68	NV . . . . .	24.0	24.0	236	VT . . . . .	16.0	16.0	67
ID . . . . .	21.0	21.0	185	NH . . . . .	18.7	18.7	115	VA . . . . .	17.5	17.5	693
IL . . . . .	19.0	19.0	1,140	NJ . . . . .	10.5	10.5	464	WA . . . . .	23.0	23.0	679
IN . . . . .	15.0	15.0	663	NM . . . . .	21.0	18.0	223	WV . . . . .	25.4	25.4	262
IA . . . . .	20.0	20.0	376	NY . . . . .	22.6	21.9	1,326	WI . . . . .	23.1	23.4	687
KS . . . . .	18.0	18.0	297	NC . . . . .	21.3	21.6	1,172	WY . . . . .	9.0	9.0	54

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

## No. 1026. Price Trends for Federal-Aid Highway Construction: 1980 to 1996

YEAR	Common excavation (cu.yd.)	SURFACING			STRUCTURES				Composite index
		Portland cement concrete (sq. yd.)	Bituminous concrete (ton)	Index	Reinforcing steel (lb.)	Structural steel (lb.)	Structural concrete (cu. yd.)	Index	
Average contract price:									
1980.....	1.83	14.92	25.29	(X)	0.48	0.94	226.68	(X)	(X)
1985.....	2.24	14.31	28.52	(X)	0.44	0.80	243.60	(X)	(X)
1986.....	2.28	15.63	26.48	(X)	0.44	0.85	236.37	(X)	(X)
1987.....	2.42	14.80	24.65	(X)	0.44	0.89	240.81	(X)	(X)
1988.....	2.72	14.33	24.91	(X)	0.49	0.92	274.12	(X)	(X)
1989.....	2.40	15.17	24.08	(X)	0.56	1.02	283.40	(X)	(X)
1990.....	2.38	15.91	24.52	(X)	0.53	1.01	286.18	(X)	(X)
1991.....	2.32	16.58	25.52	(X)	0.51	1.03	264.98	(X)	(X)
1992.....	2.20	17.80	24.66	(X)	0.52	0.92	259.61	(X)	(X)
1993.....	2.50	18.81	26.26	(X)	0.47	0.86	261.89	(X)	(X)
1994 (3d qtr.).....	3.12	21.09	30.29	(X)	0.49	0.86	285.08	(X)	(X)
Index (1987=100):									
1980.....	75.5	101.3	102.6	102.2	109.6	106.3	94.1	100.0	97.2
1985.....	92.4	97.1	115.7	109.6	100.7	89.9	101.2	98.1	102.0
1986.....	94.0	106.1	107.4	107.0	100.3	96.0	98.2	98.0	101.1
1987.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1988.....	112.2	97.3	101.1	99.8	112.1	104.4	113.8	111.0	106.6
1989.....	99.0	103.0	97.7	99.4	126.2	115.0	117.7	118.4	107.7
1990.....	98.1	108.0	99.5	102.3	120.0	114.1	118.8	117.8	108.5
1991.....	95.5	112.5	103.6	106.5	114.6	116.4	110.0	112.5	107.5
1992.....	90.8	120.8	100.1	106.9	117.9	103.5	107.8	108.4	105.1
1993.....	103.2	127.7	106.6	113.5	106.0	97.3	108.7	105.3	108.3
1994.....	128.6	143.2	122.9	122.3	111.1	96.9	118.4	109.0	115.1
1995.....	(NA)	(NA)	(NA)	127.9	(NA)	(NA)	(NA)	119.5	121.9
1996.....	(NA)	(NA)	(NA)	118.7	(NA)	(NA)	(NA)	121.6	120.2

NA Not available. X Not applicable.

Source: U.S. Federal Highway Administration, *Price Trends for Federal-Aid Highway Construction, Third Quarter 1994*.

## No. 1027. Public Highway Debt—State and Local Governments: 1980 to 1995

[In millions of dollars. Long-term obligations. Data are for varying calendar and fiscal years. Excludes duplicated and interunit obligations]

ITEM	1980	1985	1988	1989	1990	1991	1992	1993	1994	1995
Total debt issued.....	2,357	8,194	4,594	5,900	5,838	9,516	12,988	14,178	10,833	11,306
State.....	1,135	5,397	2,702	3,775	3,277	6,252	9,460	10,035	5,739	4,718
Local.....	1,222	2,797	1,892	2,125	2,561	3,264	3,528	4,143	5,094	6,587
Total debt redeemed.....	1,982	4,606	2,774	3,729	5,158	6,138	7,665	10,823	6,103	5,635
State.....	1,109	3,835	1,547	2,813	2,041	4,352	5,388	8,082	3,622	2,940
Local.....	873	771	1,227	916	3,117	1,786	2,277	2,741	2,481	2,695
Total debt outstanding.....	27,519	33,379	41,663	43,834	44,514	47,892	53,539	58,373	63,062	68,733
Local.....	7,427	12,100	15,927	17,136	16,580	18,058	19,353	22,965	25,613	29,505

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

## No. 1028. Alternative Fueled Vehicles in Use, by Fuel Type: 1996 to 1998

FUEL	ALTERNATIVE FUELED VEHICLES			FUEL CONSUMPTION (1,000 gasoline-equivalent gallons)		
	1996	1997	1998	1996	1997	1998
<b>Fuels</b> .....	<b>352,421</b>	<b>380,352</b>	<b>402,790</b>	<b>297,231</b>	<b>321,389</b>	<b>342,557</b>
Liquified petroleum gases (LPG).....	263,000	271,000	279,000	239,158	244,612	252,981
Compressed natural gas (CNG).....	60,144	73,773	85,122	46,923	63,258	74,998
Liquified natural gas (LNG).....	663	965	1,136	3,247	4,567	5,090
M85 (Mixture: 85% methanol + 15% gasoline).....	20,265	20,656	21,370	3,390	3,625	3,832
Neat methanol (M100).....	172	172	172	347	347	347
E85 (Mixture: 85% ethanol+15% gasoline).....	4,536	9,389	10,872	694	1,416	1,614
E95 (Mixture: 95% ethanol + 5% gasoline).....	361	357	357	2,699	2,628	2,628
Electricity.....	3,280	4,040	4,761	773	936	1,067

Source: Energy Information Administration, *Alternatives to Traditional Transportation Fuels 1996*.

### No. 1029. Motor Vehicle Registrations, 1980 to 1996, and Drivers Licenses, and Motorcycle Registrations 1996, by State

[In thousands, except as indicated. 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]

STATE	AUTOMOBILES, TRUCKS, AND BUSES <sup>1</sup>						1996		Motorcycle <sup>1</sup> registration (incl. official)	Drivers licenses
	1980	1985	1990	1993	1994	1995	1996			
							Total	Auto-mobiles (incl. taxis)		
<b>U.S. . . . .</b>	<b>155,796</b>	<b>171,654</b>	<b>188,798</b>	<b>194,063</b>	<b>198,045</b>	<b>201,530</b>	<b>206,365</b>	<b>128,439</b>	<b>3,832</b>	<b>179,539</b>
AL. . . . .	2,938	3,338	3,744	3,390	3,177	3,553	3,324	1,746	36	3,138
AK. . . . .	262	353	477	489	533	542	531	226	13	440
AZ. . . . .	1,917	2,235	2,825	2,892	2,813	2,873	2,983	1,750	71	2,727
AR. . . . .	1,574	1,384	1,448	1,528	1,567	1,613	1,633	853	16	1,752
CA. . . . .	16,873	18,899	21,926	22,824	22,339	22,432	25,214	15,223	513	20,249
CO. . . . .	2,342	2,759	3,155	3,032	2,750	2,812	3,433	1,891	94	2,757
CT. . . . .	2,147	2,465	2,623	2,594	2,599	2,622	2,609	1,930	48	2,344
DE. . . . .	397	465	526	555	578	592	593	391	10	529
DC. . . . .	268	326	262	264	249	243	237	195	1	333
FL. . . . .	7,614	9,865	10,950	10,170	10,252	10,369	10,889	7,192	198	11,400
GA. . . . .	3,818	4,580	5,489	5,632	5,990	6,120	6,283	3,818	73	4,966
HI. . . . .	570	651	771	763	779	802	786	500	25	733
ID. . . . .	834	854	1,054	1,023	1,035	1,043	1,061	479	34	820
IL. . . . .	7,477	7,727	7,873	8,070	8,698	8,973	8,817	6,232	171	7,610
IN. . . . .	3,826	4,024	4,366	4,670	4,889	5,072	5,216	3,146	96	3,704
IA. . . . .	2,329	2,696	2,632	2,738	2,766	2,814	2,869	1,642	132	1,956
KY. . . . .	2,007	2,148	2,012	1,922	2,083	2,085	2,110	1,151	49	1,788
KY. . . . .	2,593	2,615	2,909	2,629	2,666	2,631	2,696	1,585	37	2,567
LA. . . . .	2,779	3,012	2,995	3,166	3,426	3,286	3,318	1,871	37	2,624
ME. . . . .	724	840	977	1,028	946	967	959	573	27	874
MD. . . . .	2,803	3,276	3,607	3,560	3,640	3,654	3,635	2,557	38	3,377
MA. . . . .	3,749	3,738	3,726	3,837	4,027	4,502	4,702	3,528	91	4,355
MI. . . . .	6,488	6,727	7,209	7,399	7,574	7,674	8,010	5,045	149	6,717
MN. . . . .	3,091	3,385	3,508	3,716	4,057	3,882	3,861	2,263	116	2,830
MS. . . . .	1,577	1,746	1,875	2,000	2,063	2,144	2,182	1,257	30	1,700
MO. . . . .	3,271	3,558	3,905	4,066	4,208	4,255	4,350	2,568	54	3,749
MT. . . . .	680	652	783	939	950	968	973	431	21	574
NE. . . . .	1,254	1,257	1,384	1,439	1,458	1,467	1,479	797	18	1,160
NV. . . . .	655	709	853	937	985	1,047	1,096	610	22	1,117
NH. . . . .	704	974	946	959	992	1,122	1,112	733	52	915
NJ. . . . .	4,761	4,909	5,652	5,641	5,839	5,906	5,822	4,348	91	5,486
NM. . . . .	1,068	1,176	1,301	1,421	1,422	1,484	1,545	759	31	1,179
NY. . . . .	8,002	9,042	10,196	10,163	10,196	10,274	10,636	7,915	135	10,484
NC. . . . .	4,532	4,450	5,162	5,365	5,443	5,682	5,759	3,474	67	5,187
ND. . . . .	627	655	630	662	685	695	679	334	16	449
OH. . . . .	7,771	8,102	8,410	9,279	9,664	9,810	9,770	6,570	219	7,853
OK. . . . .	2,583	2,864	2,649	2,771	2,806	2,856	3,082	1,675	59	2,396
OR. . . . .	2,081	2,204	2,445	2,624	2,753	2,785	2,851	1,503	60	2,613
PA. . . . .	6,926	7,209	7,971	8,282	8,482	8,481	8,640	5,893	178	8,221
RI. . . . .	623	610	672	695	699	699	696	508	17	669
SC. . . . .	1,996	2,222	2,521	2,684	2,743	2,833	2,791	1,754	39	2,575
SD. . . . .	601	650	704	808	769	709	751	366	25	519
TN. . . . .	3,271	3,754	4,444	4,964	5,059	5,400	4,830	2,975	79	3,806
TX. . . . .	10,475	12,444	12,800	13,118	13,626	13,682	13,487	7,391	144	12,568
UT. . . . .	992	1,099	1,206	1,335	1,415	1,447	1,445	802	23	1,319
VT. . . . .	347	398	462	483	489	492	503	298	18	469
VA. . . . .	3,626	4,253	4,938	5,408	5,507	5,613	5,576	3,603	57	4,692
WA. . . . .	3,225	3,526	4,257	4,413	4,465	4,503	4,603	2,619	104	3,908
WV. . . . .	1,320	1,143	1,225	1,345	1,462	1,425	1,406	785	15	1,274
WI. . . . .	2,941	3,187	3,815	3,815	3,926	3,993	3,972	2,460	169	3,724
WY. . . . .	467	500	528	558	508	601	562	227	15	343

<sup>1</sup> Excludes vehicles owned by military services.

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

### No. 1030. Selected Motor Vehicle Indicators, by Model Year: 1992 to 1997

[In thousands of units, except as indicated. A model year begins on Oct. 1, and ends on Sept. 30. It covers the fourth quarter of one calendar year and the first three quarters of the next calendar year]

SALES AND EXPENDITURES	1992	1993	1994	1995	1996	1997
New motor vehicle sales . . . . .	12,868	13,913	15,179	15,233	15,460	15,380
New-car sales . . . . .	8,160	8,428	8,936	8,736	8,654	8,259
Domestic . . . . .	6,195	6,595	7,173	7,167	7,361	6,924
U.S. nameplates . . . . .	5,048	5,348	5,707	5,518	5,428	4,964
Transplants . . . . .	1,146	1,247	1,466	1,649	1,933	1,960
Import . . . . .	1,966	1,833	1,763	1,570	1,293	1,335
New-truck sales . . . . .	4,707	5,486	6,244	6,498	6,806	7,121
Light . . . . .	4,446	5,167	5,869	6,070	6,389	6,707
Domestic . . . . .	4,026	4,789	5,499	5,666	5,976	6,155
Import . . . . .	421	378	370	404	413	552
Other . . . . .	261	320	375	427	417	414
Domestic-car production . . . . .	5,643	5,827	6,548	6,466	6,194	5,879
Avg. expenditure per new car <sup>1</sup> (dollar) . . . . .	16,893	17,526	18,431	18,849	19,397	20,305
Domestic (dollar) . . . . .	16,281	16,595	17,406	17,695	18,064	18,580
Import (dollar) . . . . .	18,861	20,998	22,598	24,111	26,972	29,296

<sup>1</sup> BEA estimate based on the manufacturer's suggested retail price.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, November 1997. Data from American Automobile Manufacturers Assoc., Inc. and Ward's Automotive Reports; seasonally adjusted by BEA.

### No. 1031. U.S. Truck Market — Import Penetration: 1975 to 1996

[Represents retail sales]

YEAR	U.S. sales total	DOMESTIC (lbs GVWR) <sup>1 2</sup>				IMPORTS		PERCENT OF U.S. MARKET	
		Total	14,000 lbs. & under	14,001-33,000	Over 33,000	Total imports	From Japan	From Japan	Total imports
1975 . . . . .	2,478,219	2,248,904	1,973,853	191,903	83,148	229,315	228,097	9.2	9.3
1976 . . . . .	3,181,254	2,943,872	2,662,587	183,999	97,286	237,382	236,211	7.4	7.5
1977 . . . . .	3,675,439	3,352,255	3,011,667	199,945	140,643	323,184	321,364	8.7	8.8
1978 . . . . .	4,109,079	3,773,166	3,406,419	205,139	161,608	335,913	333,662	8.1	8.2
1979 . . . . .	3,479,794	3,009,867	2,635,604	200,969	173,294	469,701	465,701	13.4	13.5
1980 . . . . .	2,487,239	2,000,669	1,734,664	149,213	116,792	486,570	480,547	19.3	19.6
1981 . . . . .	2,260,318	1,809,188	1,587,093	122,395	99,700	451,130	443,504	19.6	20.0
1982 . . . . .	2,559,881	2,145,947	1,968,473	101,697	75,777	413,934	407,486	15.9	16.2
1983 . . . . .	3,129,476	2,658,269	2,477,238	99,384	81,647	471,207	463,515	14.8	15.1
1984 . . . . .	4,093,199	3,475,416	3,208,366	129,357	137,693	617,783	607,758	14.8	15.1
1985 . . . . .	4,681,698	3,902,417	3,629,080	139,756	133,581	779,281	768,625	16.4	16.6
1986 . . . . .	4,862,717	3,921,408	3,676,129	133,465	111,814	941,309	926,729	19.1	19.4
1987 . . . . .	4,912,374	4,054,738	3,790,606	133,872	130,260	857,636	840,297	17.1	17.5
1988 . . . . .	5,148,964	4,508,059	4,199,643	160,544	147,872	640,905	623,540	12.1	12.4
1989 . . . . .	4,941,220	4,403,299	4,113,467	145,104	144,728	537,921	514,532	10.4	10.9
1990 . . . . .	4,846,162	4,215,003	3,956,835	137,031	121,137	631,159	610,688	12.6	13.0
1991 . . . . .	4,364,672	3,813,173	3,605,779	108,751	98,643	551,499	539,556	12.4	12.6
1992 . . . . .	4,903,362	4,481,325	4,247,097	115,198	119,030	422,037	412,961	8.4	8.6
1993 . . . . .	5,680,994	5,287,379	5,000,430	129,063	157,886	393,615	381,433	6.7	6.9
1994 . . . . .	6,420,857	5,995,227	5,657,634	151,897	185,696	425,630	406,682	6.3	6.6
1995 . . . . .	6,481,357	6,064,154	5,690,903	171,948	201,303	417,203	393,573	6.1	6.4
1996 . . . . .	6,929,591	6,477,802	6,131,646	176,147	170,009	451,789	416,211	6.0	6.5

<sup>1</sup>GVWR = Gross vehicle gross weight rating in U.S. pounds. <sup>2</sup> North American built.

Source: American Automobile Manufacturers Association, Washington, DC, *Motor Vehicle Facts and Figures*, annual (copyright).

## No. 1032. Motor Vehicle Production and Trade: 1980 to 1996

ITEM	Unit	1980	1990	1991	1992	1993	1994	1995	1996
United States . . . . .	1,000 . . .	8,010	9,784	8,811	9,702	10,898	12,263	11,985	11,799
Passenger car production . . . . .	1,000 . . .	6,376	6,078	5,439	5,664	5,981	6,614	6,351	6,083
Truck and bus production . . . . .	1,000 . . .	1,634	3,706	3,372	4,038	4,917	5,649	5,635	5,716
Imports:									
Passenger cars (new) <sup>1 2</sup> . . . . .	1,000 . . .	3,116	3,945	3,736	3,575	3,808	4,097	4,114	4,064
Canada . . . . .	1,000 . . .	595	1,220	1,196	1,200	1,468	1,591	1,678	1,688
Germany, Federal Republic of . . . . .	1,000 . . .	339	245	172	206	184	188	207	234
Japan . . . . .	1,000 . . .	1,992	1,868	1,789	1,637	1,597	1,593	1,387	1,191
Trucks and buses (new) <sup>2</sup> . . . . .	1,000 . . .	747	766	716	777	722	708	662	688
Japan . . . . .	1,000 . . .	483	302	283	197	154	170	90	52
All-terrain vehicles . . . . .	1,000 . . .	(NA)	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Motorcycles, total <sup>3</sup> . . . . .	1,000 . . .	1,120	169	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Import value:									
Passenger cars (new) <sup>1</sup> . . . . .	Mil. dol. .	16,675	45,716	45,564	46,729	52,208	61,367	64,526	66,916
Trucks and buses, (new) <sup>1</sup> . . . . .	Mil. dol. .	1,985	8,155	8,221	10,000	10,104	10,909	11,792	12,381
Motorcycles <sup>3 4</sup> . . . . .	Mil. dol. .	1,142	361	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Exports, number:									
Passenger cars (new) <sup>1</sup> . . . . .	1,000 . . .	617	794	755	851	864	1,019	989	974
Trucks and buses (new) exports . . . . .	1,000 . . .	186	159	208	161	181	274	254	316
Export value <sup>5</sup> . . . . .	Mil. dol. .	16,015	38,086	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Passenger cars (new) <sup>5</sup> . . . . .	Mil. dol. .	3,932	9,708	9,886	11,893	12,476	14,591	14,251	14,392
Trucks and buses (new) <sup>5</sup> . . . . .	Mil. dol. .	2,977	2,845	3,388	3,073	3,399	5,238	5,209	6,246
Parts and accessories <sup>6</sup> . . . . .	Mil. dol. .	9,106	24,996	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Factory sales:									
Passenger cars . . . . .	1,000 . . .	6,400	6,050	5,407	5,685	5,962	6,549	6,310	6,140
Trucks and buses . . . . .	1,000 . . .	1,667	3,725	3,387	4,062	4,895	5,640	5,713	5,776
Retail sales:									
Passenger cars (new) <sup>1</sup> . . . . .	1,000 . . .	8,979	9,300	8,175	8,213	8,518	8,991	8,635	8,527
Domestics <sup>7</sup> . . . . .	1,000 . . .	6,581	6,897	6,137	6,277	6,742	7,255	7,129	7,254
Imports <sup>8</sup> . . . . .	1,000 . . .	2,398	2,403	2,038	1,937	1,776	1,735	1,506	1,273
Trucks and buses <sup>9</sup> . . . . .	1,000 . . .	2,232	4,261	3,606	4,247	5,000	5,658	5,691	6,132
Light duty (up to 14,000 GVW) <sup>10</sup> . . . . .	1,000 . . .	1,964	3,984	3,621	4,264	5,015	5,673	5,703	(NA)
Med. duty (14,001-26,000 GVW) <sup>10</sup> . . . . .	1,000 . . .	92	71	50	57	64	69	80	(NA)
Heavy duty (over 26,000 GVW) <sup>10</sup> . . . . .	1,000 . . .	176	207	171	192	239	284	308	(NA)
Under 6,000 pounds . . . . .	1,000 . . .	985	2,866	2,719	3,212	3,754	4,132	4,031	4,398
Utility . . . . .	1,000 . . .	51	490	549	666	721	1,130	1,258	1,392
Van . . . . .	1,000 . . .	79	31	17	21	18	12	12	18
Minivan (cargo) . . . . .	1,000 . . .	(X)	83	66	63	70	82	73	64
Station wagon (truck chassis) . . . . .	1,000 . . .	(X)	112	110	201	321	-	-	-
Mini-passenger carrier . . . . .	1,000 . . .	(X)	750	706	840	1,002	1,132	1,113	1,098
6,000 to 10,000 pounds <sup>11</sup> . . . . .	1,000 . . .	975	1,097	876	1,021	1,232	1,506	1,631	1,690
Utility . . . . .	1,000 . . .	108	68	37	51	60	72	144	243
Van . . . . .	1,000 . . .	172	254	203	241	279	275	274	254
Pickup, conventional . . . . .	1,000 . . .	546	568	476	524	647	883	967	936
Station wagon (truck chassis) . . . . .	1,000 . . .	39	85	55	80	115	125	109	137
10,001 pounds and over . . . . .	1,000 . . .	271	298	242	275	330	388	428	(NA)

- Represents zero. NA Not available. X Not applicable. <sup>1</sup> Based on data from U.S. Dept. of Commerce. <sup>2</sup> Includes other countries, not shown separately. <sup>3</sup> Source: Motorcycle Industry Council, Inc., Irvine, CA. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles and all-terrain vehicles. Excludes moped imports (motorcycle imports less than 51 cc's) from all countries (except Japan). <sup>4</sup> Represents c.i.f. value. <sup>5</sup> Covers assembled and unassembled vehicles. <sup>6</sup> Includes rubber tires and tubes and used vehicles. <sup>7</sup> Includes domestic models produced in Canada and Mexico. <sup>8</sup> Excludes domestic models produced in Canada. <sup>9</sup> Excludes motorcoaches and light-duty imports from foreign manufacturers. Includes imports sold by franchised dealers of U.S. manufacturers. Starting in 1987, includes sales of trucks over 10,000 lbs. GVW by foreign manufacturers. <sup>10</sup> Gross vehicle weight (fully loaded vehicle). <sup>11</sup> Includes vehicles, not shown separately.

## No. 1033. Motor Vehicles in Use: 1980 to 1995

ITEM	Unit	1980	1985	1990	1991	1992	1993	1994	1995
<b>Cars in use, total . . . . .</b>	<b>Million . .</b>	<b>104.6</b>	<b>114.7</b>	<b>123.3</b>	<b>123.3</b>	<b>120.3</b>	<b>121.1</b>	<b>122.0</b>	<b>123.2</b>
Under 5 years . . . . .	Million . .	52.3	48.7	56.5	54.6	50.4	47.0	45.4	46.2
6-8 years . . . . .	Million . .	25.2	27.8	22.6	25.5	27.5	28.7	27.7	26.9
9-11 years . . . . .	Million . .	14.6	17.2	19.1	16.7	16.0	22.5	25.1	23.3
12 years and over . . . . .	Million . .	12.5	21.0	25.1	26.6	26.4	31.1	31.4	26.8
Average age . . . . .	Years . . .	6.6	7.6	7.8	7.9	8.1	8.3	8.4	8.5
Cars retired from use <sup>1</sup> . . . . .	1,000 . . .	8,405	7,729	8,897	8,565	11,194	7,366	7,824	7,414
<b>Trucks in use, total . . . . .</b>	<b>Million . .</b>	<b>35.2</b>	<b>42.4</b>	<b>56.0</b>	<b>58.2</b>	<b>61.2</b>	<b>62.5</b>	<b>71.4</b>	<b>70.2</b>
Under 3 years . . . . .	Million . .	8.8	9.0	12.8	12.0	11.3	12.1	13.7	15.4
3-5 years . . . . .	Million . .	8.1	6.3	13.2	14.0	14.0	12.9	12.7	12.4
6-8 years . . . . .	Million . .	7.4	10.2	8.0	9.9	11.9	14.0	13.6	13.1
9-11 years . . . . .	Million . .	4.4	6.2	6.6	5.3	5.6	11.7	11.3	10.7
12 years and over . . . . .	Million . .	6.5	10.7	15.5	17.0	18.3	23.2	20.1	18.6
Average age . . . . .	Years . . .	7.1	8.1	8.0	8.1	8.4	8.6	8.4	8.4
Trucks retired from use <sup>1</sup> . . . . .	1,000 . . .	1,732	2,100	2,177	2,284	1,587	1,048	4,545	2,918

<sup>1</sup> For years ending June 30. Represents vehicles failing to re-register.

Source of tables 1032 and 1033: Except as noted, American Automobile Manufacturers Association Inc., Washington, DC, *Motor Vehicle Facts and Figures*, annual (copyright); and *World Motor Vehicle Data*, annual (copyright).

### No. 1034. Motor Vehicle Registrations: 1980 to 1995

[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]

ITEM	1980	1990	1992	1993	1994	1995
<b>All motor vehicles</b> . . . . .	<b>155,796,219</b>	<b>188,797,914</b>	<b>190,362,228</b>	<b>194,063,482</b>	<b>198,045,365</b>	<b>201,530,021</b>
Private and commercial . . . . .	153,265,069	185,540,912	186,960,290	190,642,869	194,531,748	197,941,202
Publicly owned . . . . .	2,531,150	3,257,002	3,401,938	3,420,613	3,513,617	3,588,819
Automobiles <sup>1</sup> . . . . .	121,600,843	133,700,497	126,581,148	127,327,189	127,883,469	128,386,775
Private and commercial . . . . .	120,743,495	132,164,330	125,087,687	125,843,591	126,396,989	126,899,713
Publicly owned . . . . .	857,348	1,536,167	1,493,461	1,483,598	1,486,480	1,487,062
Buses . . . . .	528,789	626,987	644,732	654,432	670,423	685,503
Private and commercial . . . . .	253,854	275,493	275,245	276,093	282,507	287,873
Publicly owned . . . . .	274,935	351,494	369,487	378,339	387,916	397,630
Trucks <sup>1</sup> . . . . .	33,666,587	54,470,430	63,136,348	66,081,861	69,491,473	72,457,743
Private and commercial . . . . .	32,267,720	53,101,089	61,597,358	64,523,185	67,852,252	70,753,616
Publicly owned . . . . .	1,398,867	1,369,341	1,538,990	1,558,676	1,639,221	1,704,127

<sup>1</sup> Trucks include pickups, panels and delivery vans. Beginning 1985, 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. 1035. Motor Vehicle Tires and Batteries: 1980 to 1995

[In millions]

ITEM	1980	1985	1990	1991	1992	1993	1994	1995
Tires, passenger car, total <sup>1</sup> . . . . .	145.9	200.9	218.8	214.8	213.6	214.5	228.6	235.0
Radials . . . . .	83.5	164.7	200.2	200.4	202.1	205.7	221.4	227.4
Replacement . . . . .	106.9	141.5	155.3	151.2	152.3	155.4	165.8	165.1
Tires, truck and bus, total <sup>1</sup> . . . . .	31.1	41.1	46.0	46.9	46.9	42.4	45.0	48.4
Radials . . . . .	3.8	19.7	29.4	30.6	32.5	32.4	36.1	40.3
Replacement . . . . .	24.4	32.1	33.9	35.2	36.6	32.9	33.7	35.7
Batteries, total <sup>2</sup> . . . . .	61.7	74.4	80.1	80.3	79.7	79.8	(NA)	(NA)
Replacement automobile batteries . . . . .	50.1	58.7	63.5	64.4	65.2	66.6	(NA)	(NA)

<sup>1</sup> Includes original equipment. Also includes exports, not shown separately. <sup>2</sup> Source: Battery Council International, Chicago, IL, and U.S. Bureau of the Census.

Source: Except as noted, The Rubber Manufacturers Association, Inc., Washington, DC, *RMA Monthly Tire Report*.

### No. 1036. Automobile Output and Trade in National Income Accounts in Chained (1992) Dollars: 1990 to 1997

[In billions of dollars. Vehicle output equals final dollar sales value of new vehicles, plus net dollar value of used vehicle sales adjusted for changes in inventories and net balance of vehicle exports and imports]

ITEM	1990	1991	1992	1993	1994	1995	1996	1997
<b>Auto output, total</b> . . . . .	<b>125.8</b>	<b>111.9</b>	<b>121.6</b>	<b>125.3</b>	<b>132.3</b>	<b>127.6</b>	<b>119.9</b>	<b>120.0</b>
Final sales . . . . .	129.8	112.9	122.1	125.2	131.8	125.2	124.4	119.6
Personal consumption expenditures . . . . .	133.3	111.1	117.6	121.6	123.7	122.0	121.2	121.4
Producers' durable equipment . . . . .	33.0	35.4	35.3	38.8	47.8	43.4	45.1	46.8
Net exports . . . . .	-38.7	-35.4	-32.8	-36.6	-41.3	-42.2	-43.6	-50.1
Government purchases . . . . .	2.4	1.8	2.0	1.9	2.0	2.2	2.1	2.0
Change in business inventories . . . . .	-3.9	-1.0	-0.4	0.1	0.4	2.2	-4.7	0.3
New . . . . .	-3.6	-1.2	0.1	1.0	0.9	2.5	-5.2	1.1
Used . . . . .	-0.3	0.2	-0.5	-0.8	-0.4	-0.1	0.3	-0.7

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-94*, forthcoming; and *Survey of Current Business*, May 1997.

### No. 1037. Recreational Vehicles—Number and Retail Value of Shipments: 1980 to 1996

ITEM	1980	1985	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
<b>NUMBER (1,000)</b>												
<b>Total</b> . . . . .	<b>181.4</b>	<b>351.7</b>	<b>393.6</b>	<b>420.0</b>	<b>388.3</b>	<b>347.3</b>	<b>293.7</b>	<b>282.7</b>	<b>420.2</b>	<b>518.8</b>	<b>475.2</b>	<b>466.8</b>
Motorized homes . . . . .	99.9	233.5	255.7	277.1	261.6	226.5	172.6	226.3	243.8	306.7	281.0	274.6
Travel trailers . . . . .	52.0	75.4	86.2	89.6	82.9	80.4	77.6	102.5	113.6	128.0	121.2	123.9
Folding camping trailers . . . . .	24.5	35.9	41.6	42.3	33.9	30.7	33.9	43.3	51.9	61.7	61.1	57.3
Truck campers . . . . .	5.0	6.9	10.1	11.0	9.9	9.7	9.6	10.6	10.9	11.4	11.9	11.0
<b>RETAIL VALUE (mil. dol.)</b>												
<b>Total</b> . . . . .	<b>1,952</b>	<b>6,904</b>	<b>8,288</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>
Motorized homes . . . . .	1,381	5,724	6,826	7,543	7,420	6,660	5,284	6,963	(NA)	9,897	9,768	9,788
Travel trailers . . . . .	485	997	1,219	1,254	1,252	1,220	1,107	1,523	1,644	1,912	1,927	2,171
Folding camping trailers . . . . .	69	137	167	175	147	134	146	189	(NA)	276	290	284
Truck campers . . . . .	17	46	76	88	81	86	87	99	(NA)	112	119	122

NA Not available.

Source: Recreation Vehicle Industry Association, Reston, VA, *RV's ... A Year-End Report/1989*. Data also in American Automobile Manufacturers Association of the United States, Inc., Washington, DC, *Motor Vehicle Facts and Figures*, annual (copyright).

No. 1038. Transportation to Work: 1990

[In thousands, except as indicated. Based on workers 16 years old or older]

STATE	MEANS OF TRANSPORTATION TO WORK			Worked at home	Average travel time to work <sup>1</sup> (minutes)	HOUSEHOLDS WITH VEHICLES AVAILABLE		
	Car, truck, van		Percent using public transportation			None	One vehicle	Two or more vehicles
	Drove alone	Car-pooled						
<b>United States. . . . .</b>	<b>84,215</b>	<b>15,378</b>	<b>5.3</b>	<b>3,406</b>	<b>22.4</b>	<b>10,602</b>	<b>31,039</b>	<b>50,306</b>
Alabama . . . . .	1,374	267	0.8	31	21.2	156	466	885
Alaska . . . . .	165	40	2.4	11	16.7	23	64	102
Arizona . . . . .	1,178	239	2.1	48	21.6	107	532	730
Arkansas . . . . .	765	153	0.5	28	19.0	88	303	501
California . . . . .	9,982	2,036	4.9	453	24.6	923	3,452	6,006
Colorado . . . . .	1,217	210	2.9	67	20.7	89	412	781
Connecticut . . . . .	1,301	187	3.9	45	21.1	124	386	721
Delaware . . . . .	258	43	2.4	8	20.0	20	80	147
District of Columbia . . . . .	107	37	36.6	9	27.1	93	103	53
Florida . . . . .	4,468	819	2.0	132	21.8	474	2,106	2,555
Georgia . . . . .	2,379	468	2.8	65	22.7	244	730	1,393
Hawaii . . . . .	344	116	7.4	19	23.8	35	129	193
Idaho . . . . .	330	53	1.9	21	17.3	17	101	243
Illinois . . . . .	3,742	653	10.1	144	25.1	588	1,476	2,138
Indiana . . . . .	2,040	332	1.3	73	20.4	175	670	1,221
Iowa . . . . .	971	157	1.2	89	16.2	75	332	657
Kansas . . . . .	929	136	0.6	49	17.2	60	302	583
Kentucky . . . . .	1,195	229	1.6	47	20.7	159	447	773
Louisiana . . . . .	1,239	247	3.0	31	22.3	209	542	749
Maine . . . . .	424	80	0.9	24	19.0	40	159	266
Maryland . . . . .	1,733	376	8.1	65	27.0	216	554	979
Massachusetts . . . . .	2,148	318	8.3	75	22.7	321	819	1,107
Michigan . . . . .	3,328	429	1.6	100	21.2	344	1,133	1,943
Minnesota . . . . .	1,593	247	3.6	116	19.1	142	517	988
Mississippi . . . . .	777	184	0.8	19	20.6	111	307	494
Missouri . . . . .	1,816	312	2.0	84	21.6	191	652	1,118
Montana . . . . .	250	41	0.6	22	14.8	20	91	194
Nebraska . . . . .	590	87	1.2	44	15.8	43	182	377
Nevada . . . . .	444	94	2.7	12	19.8	36	174	256
New Hampshire . . . . .	443	70	0.7	20	21.9	26	132	254
New Jersey . . . . .	2,731	472	8.8	80	25.3	360	966	1,468
New Mexico . . . . .	472	96	1.0	24	19.1	38	185	320
New York . . . . .	4,461	861	24.8	213	28.6	1,994	2,153	2,492
North Carolina . . . . .	2,528	530	1.0	71	19.8	242	786	1,489
North Dakota . . . . .	210	31	0.6	24	13.0	16	73	152
Ohio . . . . .	3,889	521	2.5	119	20.7	416	1,351	2,320
Oklahoma . . . . .	1,079	191	0.6	41	19.3	91	414	701
Oregon . . . . .	949	165	3.4	56	19.6	88	355	660
Pennsylvania . . . . .	3,818	690	6.4	145	21.6	681	1,589	2,226
Rhode Island . . . . .	376	58	2.5	10	19.2	40	132	206
South Carolina . . . . .	1,235	277	1.1	31	20.5	137	402	720
South Dakota . . . . .	233	33	0.3	31	13.8	17	76	166
Tennessee . . . . .	1,763	324	1.3	52	21.5	181	593	1,079
Texas . . . . .	5,821	1,134	2.2	185	22.2	489	2,190	3,392
Utah . . . . .	541	111	2.3	26	18.9	29	153	355
Vermont . . . . .	200	36	0.7	17	18.0	17	72	122
Virginia . . . . .	2,281	500	4.0	103	24.0	205	717	1,370
Washington . . . . .	1,701	282	4.5	86	22.0	141	582	1,149
West Virginia . . . . .	493	107	1.1	16	21.0	94	247	347
Wisconsin . . . . .	1,751	270	2.5	114	18.3	170	600	1,052
Wyoming . . . . .	154	28	1.4	9	15.4	8	48	113

<sup>1</sup> Excludes persons who worked at home.

Source: U.S. Bureau of the Census, *Census of Population and Housing, 1990*.



### No. 1039. National Personal Transportation Survey (NPTS)— Summary of Travel Trends: 1969 to 1990

[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). Contains data from previous NPTS surveys. 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]

CHARACTERISTIC	Unit	1969	1977	1983	1990	Percent change, 1969-90	Annual percent change, 1969-90
<b>Households, total</b> . . . . .	<b>1,000</b> . . .	<b>62,504</b>	<b>75,412</b>	<b>85,371</b>	<b>93,347</b>	<b>49.0</b>	<b>1.9</b>
1 person . . . . .	1,000 . . .	10,980	16,214	19,354	22,999	109.0	3.6
2 persons . . . . .	1,000 . . .	18,448	22,925	27,169	30,114	63.0	2.4
3 persons . . . . .	1,000 . . .	10,746	13,046	14,756	16,128	50.0	2.0
4 persons or more . . . . .	1,000 . . .	22,330	23,227	24,092	24,106	8.0	0.4
<b>Persons, total</b> . . . . .	<b>1,000</b> . . .	<b>197,213</b>	<b>213,141</b>	<b>229,453</b>	<b>239,416</b>	<b>21.0</b>	<b>0.9</b>
Under 16 yrs. old . . . . .	1,000 . . .	60,100	54,958	53,682	54,303	-10.0	-0.5
16-19 yrs. old . . . . .	1,000 . . .	14,598	16,552	15,268	13,851	-5.0	-0.2
20-34 yrs. old . . . . .	1,000 . . .	40,060	52,252	60,788	59,517	47.0	1.9
35-64 yrs. old . . . . .	1,000 . . .	62,982	66,988	75,353	82,480	31.0	1.3
65 yrs. old and over . . . . .	1,000 . . .	19,473	22,391	24,362	26,955	38.0	1.6
5 yrs. old and over . . . . .	1,000 . . .	(NA)	198,434	212,932	222,101	12.0	0.9
<b>Males, total</b> . . . . .	<b>1,000</b> . . .	<b>94,465</b>	<b>102,521</b>	<b>111,514</b>	<b>114,441</b>	<b>21.0</b>	<b>0.8</b>
16 yrs. old and over . . . . .	1,000 . . .	66,652	74,542	83,645	86,432	30.0	1.1
<b>Females</b> . . . . .	<b>1,000</b> . . .	<b>102,748</b>	<b>110,620</b>	<b>117,939</b>	<b>124,975</b>	<b>22.0</b>	<b>0.8</b>
16 yrs. old and over . . . . .	1,000 . . .	73,526	83,721	92,080	96,371	31.0	1.1
<b>Licensed drivers</b> . . . . .	<b>1,000</b> . . .	<b>102,986</b>	<b>127,552</b>	<b>147,015</b>	<b>163,025</b>	<b>58.0</b>	<b>2.2</b>
Male . . . . .	1,000 . . .	57,981	66,199	75,639	80,289	38.0	1.6
Female . . . . .	1,000 . . .	45,005	61,353	71,376	82,707	84.0	2.9
<b>Workers</b> . . . . .	<b>1,000</b> . . .	<b>75,758</b>	<b>93,019</b>	<b>103,244</b>	<b>118,343</b>	<b>56.0</b>	<b>2.1</b>
Male . . . . .	1,000 . . .	48,487	55,625	58,849	63,996	32.0	1.3
Female . . . . .	1,000 . . .	27,271	37,394	44,395	54,334	99.0	3.3
<b>Households with—</b>							
No vehicle . . . . .	1,000 . . .	12,876	11,538	11,548	8,573	-33.0	-1.9
One vehicle . . . . .	1,000 . . .	30,252	26,092	28,780	30,654	1.0	0.1
Two vehicles . . . . .	1,000 . . .	16,501	25,942	28,632	35,872	117.0	3.8
Three or more Vehicles . . . . .	1,000 . . .	2,875	11,840	16,411	18,248	535.0	9.2
All vehicles available . . . . .	1,000 . . .	72,500	120,098	143,714	165,221	128.0	4.0
<b>Vehicle trips</b> . . . . .	<b>Millions</b>	<b>87,284</b>	<b>108,826</b>	<b>126,874</b>	<b>158,927</b>	<b>82.0</b>	<b>2.9</b>
<b>Vehicle miles of travel (VMT)</b> . . . . .	<b>Millions</b>	<b>775,940</b>	<b>907,603</b>	<b>1,002,139</b>	<b>1,409,600</b>	<b>82.0</b>	<b>2.9</b>
<b>Person trips</b> . . . . .	<b>Millions</b>	<b>145,146</b>	<b>211,778</b>	<b>224,385</b>	<b>249,562</b>	<b>72.0</b>	<b>2.6</b>
<b>Person miles of travel</b> . . . . .	<b>Millions</b>	<b>1,404,137</b>	<b>1,879,215</b>	<b>1,946,662</b>	<b>2,315,300</b>	<b>65.0</b>	<b>2.4</b>
<b>Ratios:</b>							
Persons per household . . . . .	Number . . .	2.316	2.83	2.69	2.56	(NA)	(NA)
Vehicles per household . . . . .	Number . . .	2.116	1.59	1.68	1.77	(NA)	(NA)
Licensed drivers per household . . . . .	Number . . .	2.165	1.69	1.72	1.75	(NA)	(NA)
Vehicles per licensed driver . . . . .	Number . . .	2.070	0.94	0.98	1.01	(NA)	(NA)
Workers per household . . . . .	Number . . .	2.121	1.23	1.21	1.27	(NA)	(NA)
Vehicles per worker . . . . .	Number . . .	2.096	1.29	1.39	1.40	(NA)	(NA)
Daily vehicle trips per household . . . . .	Number . . .	2.383	3.95	4.07	4.66	(NA)	(NA)
Daily VMT per household . . . . .	Number . . .	234.01	32.97	32.16	41.37	(NA)	(NA)
Average vehicle trip length (miles) . . . . .	Number . . .	28.89	8.34	7.90	8.87	(NA)	(NA)
<b>Average annual VMT</b> . . . . .	<b>Miles</b> . . .	<b>12,423</b>	<b>12,036</b>	<b>11,739</b>	<b>15,100</b>	<b>22.0</b>	<b>(NA)</b>
Home to work . . . . .	Miles . . .	4,183	3,815	3,538	4,853	16.0	(NA)
Shopping . . . . .	Miles . . .	929	1,336	1,567	1,743	88.0	(NA)
Other family or personal business . . . . .	Miles . . .	1,270	1,444	1,816	3,014	137.0	(NA)
Social and recreational . . . . .	Miles . . .	4,094	3,286	3,534	4,060	-1.0	(NA)
<b>Average annual vehicle trips</b> . . . . .	<b>Number</b> . . .	<b>1,396</b>	<b>1,442</b>	<b>1,486</b>	<b>1,702</b>	<b>22.0</b>	<b>(NA)</b>
Home to work . . . . .	Number . . .	445	423	414	448	0.7	(NA)
Shopping . . . . .	Number . . .	213	268	297	345	62.0	(NA)
Other family or personal business . . . . .	Number . . .	195	215	272	411	111.0	(NA)
Social and recreational . . . . .	Number . . .	312	320	335	349	12.0	(NA)
<b>Average vehicle trip length</b> . . . . .	<b>Miles</b> . . .	<b>8.9</b>	<b>8.4</b>	<b>7.9</b>	<b>9.0</b>	<b>1.0</b>	<b>(NA)</b>
Home to work . . . . .	Miles . . .	9.4	9.1	8.5	11.0	17.0	(NA)
Shopping . . . . .	Miles . . .	4.4	5.0	5.3	5.1	16.0	(NA)
Other family or personal business . . . . .	Miles . . .	6.5	6.8	6.7	7.4	14.0	(NA)
Social and recreational . . . . .	Miles . . .	13.1	10.3	10.5	11.8	-10.0	(NA)
<b>Average vehicle occupancy</b> <sup>3</sup> . . . . .	<b>Persons</b> . . .	<b>(NA)</b>	<b>1.9</b>	<b>1.7</b>	<b>1.6</b>	<b>4.1.3</b>	<b>(NA)</b>
Home to work . . . . .	Persons . . .	(NA)	1.3	1.3	1.1	4.1.3	(NA)
Shopping . . . . .	Persons . . .	(NA)	2.1	1.8	1.7	4.1.6	(NA)
Other family or personal business . . . . .	Persons . . .	(NA)	2.0	1.8	1.8	4.0.8	(NA)
Social and recreational . . . . .	Persons . . .	(NA)	2.4	2.1	2.1	4.1.0	(NA)
<b>Journey-to-work trip mode</b> . . . . .	<b>Percent</b> . . .	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>(NS)</b>	<b>(NS)</b>
Auto . . . . .	Percent . . .	82.7	80.5	77.6	91.4	(NS)	(NS)
Truck <sup>5</sup> . . . . .	Percent . . .	8.1	12.5	14.8	(NA)	(NS)	(NS)
Public transit . . . . .	Percent . . .	8.4	4.7	5.8	5.5	(NS)	(NS)
Other . . . . .	Percent . . .	0.8	2.3	1.8	3.1	(NS)	(NS)

NA Not available. NS Percent change irrelevant. <sup>1</sup> Includes "don't know" and "refusals". <sup>2</sup> Excludes pickups and other light-trucks as household vehicles. <sup>3</sup> Includes other purposes not shown separately. <sup>4</sup> Change from 1977. <sup>5</sup> Household based trucks, primarily pickups.

Source: Federal Highway Administration, *National Personal Transportation Survey, Summary of Travel Trends, 1969, 1977, 1983, and 1990.*

**No. 1040. Roadway Congestion: 1993**

[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]

URBANIZED AREA	DAILY VEHICLE MILES OF TRAVEL		VEHICLE HOURS OF DELAY		ANNUAL CONGESTION COST		
	Total miles (1,000)	Per lane-mile of freeway	Total hours	Per 1,000 persons	Per driver (dol.)	Per capita (dol.)	Delay and fuel cost (mil. dol.)
<b>Total, average . . . . .</b>	<b>17,760</b>	<b>13,180</b>	<b>232,570</b>	<b>90</b>	<b>500</b>	<b>390</b>	<b>1,060</b>
<b>Northeastern cities . . . . .</b>	<b>28,090</b>	<b>13,100</b>	<b>485,060</b>	<b>100</b>	<b>550</b>	<b>450</b>	<b>2,200</b>
Baltimore MD . . . . .	18,800	13,570	169,250	80	460	360	770
Boston MA . . . . .	21,750	14,310	363,330	120	660	550	1,650
Hartford CT . . . . .	7,070	11,490	45,990	70	450	340	210
New York NY . . . . .	88,080	13,970	1,729,640	100	580	460	7,900
Philadelphia PA . . . . .	20,920	12,090	300,170	60	320	250	1,330
Pittsburgh PA . . . . .	9,420	8,050	134,960	70	380	310	600
Washington DC . . . . .	30,630	18,230	652,050	190	1,030	860	2,960
<b>Midwestern cities . . . . .</b>	<b>16,700</b>	<b>12,750</b>	<b>158,690</b>	<b>60</b>	<b>350</b>	<b>270</b>	<b>720</b>
Chicago IL . . . . .	42,130	16,300	660,800	90	500	390	2,990
Cincinnati OH . . . . .	13,480	13,680	64,710	50	310	240	300
Cleveland OH . . . . .	15,410	12,840	78,370	40	260	200	360
Columbus OH . . . . .	10,180	12,110	55,730	60	320	250	250
Detroit MI . . . . .	29,600	16,130	541,240	140	820	600	2,420
Indianapolis IN . . . . .	9,500	11,590	41,460	40	250	200	190
Kansas City MO . . . . .	15,630	9,990	51,210	40	230	180	230
Louisville KY . . . . .	7,600	11,780	41,100	50	280	220	180
Milwaukee WI . . . . .	7,800	12,890	54,100	40	260	200	250
Minn.-St. Paul MN . . . . .	20,700	13,350	135,750	60	360	290	620
Oklahoma City OK . . . . .	7,750	10,470	29,150	30	200	150	130
St. Louis MO . . . . .	20,600	11,870	150,670	80	440	340	680
<b>Southern cities . . . . .</b>	<b>9,020</b>	<b>12,570</b>	<b>103,490</b>	<b>80</b>	<b>460</b>	<b>360</b>	<b>470</b>
Atlanta GA . . . . .	33,000	15,350	339,210	140	800	640	1,530
Charlotte NC . . . . .	3,830	11,610	36,660	70	380	310	170
Ft. Lauderdale FL . . . . .	9,300	12,830	91,720	70	380	320	420
Jacksonville FL . . . . .	6,520	12,540	71,950	90	540	420	330
Memphis TN . . . . .	5,400	11,490	32,550	40	210	160	150
Miami FL . . . . .	10,580	15,900	259,170	130	760	600	1,160
Nashville TN . . . . .	7,750	11,570	40,060	70	370	300	180
New Orleans LA . . . . .	5,510	13,280	75,380	70	410	310	340
Norfolk VA . . . . .	6,080	10,470	76,530	80	440	350	350
Orlando FL . . . . .	6,730	10,350	60,130	60	350	290	270
Tampa FL . . . . .	4,500	12,860	55,090	70	400	320	240
<b>Southwestern cities . . . . .</b>	<b>11,800</b>	<b>12,300</b>	<b>134,270</b>	<b>80</b>	<b>490</b>	<b>380</b>	<b>610</b>
Albuquerque NM . . . . .	2,920	11,680	32,140	60	350	270	150
Austin TX . . . . .	6,580	12,180	68,310	120	670	530	310
Corpus Christi TX . . . . .	2,160	9,370	6,010	20	130	90	30
Dallas TX . . . . .	25,700	14,120	304,990	140	810	640	1,400
Denver CO . . . . .	13,480	13,480	172,580	100	580	470	790
El Paso TX . . . . .	3,820	10,190	15,210	30	170	120	70
Fort Worth TX . . . . .	13,840	12,300	128,930	100	630	480	590
Houston TX . . . . .	32,960	14,650	436,450	150	890	680	2,000
Phoenix AZ . . . . .	10,400	13,870	196,050	90	550	420	890
Salt Lake City UT . . . . .	6,430	11,800	31,460	40	210	160	140
San Antonio TX . . . . .	11,530	11,640	84,820	70	420	320	390
<b>Western cities . . . . .</b>	<b>29,130</b>	<b>15,650</b>	<b>412,630</b>	<b>120</b>	<b>720</b>	<b>570</b>	<b>1,890</b>
Honolulu HI . . . . .	5,600	14,000	68,750	100	550	470	320
Los Angeles CA . . . . .	113,000	20,430	1,891,260	160	920	720	8,620
Portland OR . . . . .	8,640	13,820	98,450	90	510	410	450
Sacramento CA . . . . .	10,630	13,040	87,680	70	430	330	400
San Bernardino-Riverside, CA . . . . .	15,500	16,060	232,260	170	1,100	790	1,070
San Diego CA . . . . .	27,830	15,900	169,010	70	390	310	790
San Fran-Oak CA . . . . .	42,840	17,480	662,760	170	960	790	3,060
San Jose CA . . . . .	16,880	13,720	193,680	130	750	580	890
Seattle-Everett WA . . . . .	21,300	16,380	309,820	160	870	740	1,420

Source: Texas Transportation Institute, College Station, Texas; *Roadway Congestion in Major Urban Areas*, annual (copyright).

## No. 1041. Motor Vehicle Accidents—Number and Deaths: 1972 to 1996

ITEM	Unit	1972 <sup>1</sup>	1980	1985	1990	1992	1993	1994	1995	1996
Motor vehicle accidents <sup>2</sup>	Million	17.0	17.9	19.3	11.5	(NA)	11.9	11.2	10.7	11.2
Cars	Million	24.5	22.8	25.6	14.3	(NA)	14.1	13.5	12.3	13.3
Trucks	Million	3.5	5.5	6.1	4.4	(NA)	5.9	5.2	4.5	4.8
Motorcycles	1,000	343	560	480	180	(NA)	187	178	152	135
Motor vehicle deaths within 1 yr. <sup>3</sup>	1,000	56.3	53.2	45.9	46.8	41.0	41.9	42.7	43.9	43.3
Noncollision accidents	1,000	15.8	14.7	12.6	4.9	4.1	4.2	4.3	4.4	4.6
Collision accidents:										
With other motor vehicles	1,000	23.9	23.0	19.9	19.9	17.6	18.3	19.3	19.4	19.3
With pedestrians	1,000	10.3	9.7	8.5	7.3	6.3	6.4	5.9	6.3	6.1
With fixed objects	1,000	3.9	3.7	3.2	13.1	11.7	11.5	11.8	12.3	12.0
Deaths within 30 days <sup>4</sup>	1,000	54.6	51.1	43.8	44.6	39.3	40.2	40.7	41.8	41.9
Vehicle occupants	1,000	41.4	36.8	31.5	33.9	30.5	31.1	32.0	33.1	33.4
Pedestrians	1,000	10.2	8.1	6.8	6.5	5.5	5.6	5.5	5.6	5.4
Motorcyclists <sup>5</sup>	1,000	3.0	5.1	4.6	3.2	2.4	2.4	2.3	2.2	2.2
Bicyclists <sup>4,6</sup>	1,000	1.0	1.0	0.9	0.9	0.7	0.8	0.8	0.8	0.8
Traffic death rates: <sup>4,6</sup>										
Per 100,000 resident population	Rate	26.2	22.5	18.4	17.9	15.4	15.6	15.6	15.9	15.8
Per 100,000 registered vehicles	Rate	44.5	34.8	26.5	24.3	21.2	21.3	21.2	21.2	20.8
Per 100 million vehicle miles	Rate	4.3	3.3	2.5	2.1	1.7	1.7	1.7	1.7	1.7
Per 100,000 licensed drivers	Rate	46.1	35.2	27.9	26.7	22.7	23.2	23.2	23.6	23.3
Motor vehicle accidents <sup>7</sup>	Million	24.9	24.1	32.5	33.4	31.8	32.8	33.9	34.5	35.0
Injuries <sup>7</sup>	1,000	5,190	5,230	5,044	5,560	5,445	5,675	5,885	6,025	6,115
Economic loss <sup>8</sup>	Bill. dol.	28.7	57.1	76.0	95.9	98.1	104.1	110.5	115.6	120.8

NA Not available. <sup>1</sup> Represents peak year for deaths from motor vehicle accidents. <sup>2</sup> Covers only accidents occurring on the road. <sup>3</sup> Deaths that occur within 1 year of accident. Includes collision categories not shown separately. <sup>4</sup> Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, unpublished data from Fatal Accident Reporting System. <sup>5</sup> Includes motor scooters and motorized bicycles (mopeds). <sup>6</sup> Based on 30-day definition of traffic deaths. <sup>7</sup> Source: Insurance Information Institute, New York, NY, *Insurance Facts* (copyright). Estimates based on official reports from a representative cross-section of states. Includes all motor vehicle accidents on and off the road and all injuries regardless of length of disability. <sup>8</sup> Wage loss; legal, medical, hospital, and funeral expenses; insurance administrative costs; and property damage.

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

## No. 1042. Motor Vehicle Deaths, by State: 1990 to 1996

[Includes both traffic and nontraffic motor vehicle deaths. See source for definitions]

STATE	1990	1994	1995	1996	MILEAGE RATE <sup>1</sup>		STATE	1990	1994	1995	1996	MILEAGE RATE <sup>1</sup>	
					1990	1996						1990	1996
					U.S. . . . .	47,151						42,700	43,363
AL . . . . .	1,234	1,083	1,111	1,142	2.9	2.2	MT . . . . .	225	202	215	198	2.7	2.1
AK . . . . .	102	85	86	80	2.6	1.9	NE . . . . .	289	271	254	293	2.1	1.8
AZ . . . . .	947	915	1,040	993	2.7	2.5	NV . . . . .	405	294	312	348	4.0	2.4
AR . . . . .	625	611	631	615	3.0	2.3	NH . . . . .	154	119	118	134	1.6	1.2
CA . . . . .	5,411	4,226	4,165	3,972	2.1	1.4	NJ . . . . .	908	761	776	818	1.5	1.3
CO . . . . .	583	585	645	434	2.1	1.2	NM . . . . .	534	447	485	481	3.3	2.2
CT . . . . .	395	310	318	310	1.5	1.1	NY . . . . .	2,318	1,658	1,668	1,562	2.2	1.3
DE . . . . .	151	112	123	120	2.3	1.6	NC . . . . .	1,489	1,431	1,438	1,492	2.4	1.9
DC . . . . .	91	-	-	(NA)	2.7	(NA)	ND . . . . .	128	88	74	85	2.2	1.3
FL . . . . .	3,049	2,735	2,812	2,813	2.8	2.2	OH . . . . .	1,708	1,371	1,357	1,393	2.0	1.4
GA . . . . .	1,659	1,438	1,494	1,578	2.3	1.8	OK . . . . .	684	695	674	775	2.1	2.0
HI . . . . .	186	122	127	145	2.3	1.8	OR . . . . .	608	491	572	524	2.3	1.7
ID . . . . .	259	249	263	258	2.6	2.1	PA . . . . .	1,767	1,441	1,480	1,470	2.1	1.5
IL . . . . .	1,650	1,554	1,589	1,475	2.0	1.5	RI . . . . .	104	63	69	69	1.5	1.0
IN . . . . .	1,097	979	960	981	2.0	1.5	SC . . . . .	987	847	882	930	2.9	2.4
IA . . . . .	481	478	527	465	2.1	1.8	SD . . . . .	166	154	158	175	2.4	2.2
KS . . . . .	453	442	438	491	2.0	1.9	TN . . . . .	1,312	1,214	1,240	1,211	2.8	2.1
KY . . . . .	850	791	856	844	2.5	2.0	TX . . . . .	3,381	3,142	3,172	3,738	2.1	2.0
LA . . . . .	1,023	838	880	809	2.7	2.1	UT . . . . .	296	343	321	321	2.0	1.7
ME . . . . .	215	188	189	168	1.8	1.3	VT . . . . .	94	77	106	88	1.6	1.4
MD . . . . .	741	656	682	614	1.8	1.3	VA . . . . .	1,091	930	900	869	1.8	1.2
MA . . . . .	655	440	448	417	1.4	0.9	WA . . . . .	875	641	654	690	2.0	1.4
MI . . . . .	1,633	1,419	1,537	1,505	2.0	1.7	WV . . . . .	502	356	376	344	3.3	1.9
MN . . . . .	644	644	597	576	1.7	1.3	WI . . . . .	825	712	739	759	1.9	1.5
MS . . . . .	863	792	868	811	3.5	2.7	WY . . . . .	130	144	170	143	2.2	2.0

- Represents zero. NA Not available. <sup>1</sup> Deaths per 100 million vehicle miles.

Source: National Safety Council, Itasca, IL, *Accident Facts*, annual (copyright).

## No. 1043. Fatal Motor Vehicle Accidents—National Summary: 1980 to 1996

[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	1980	1985	1990	1992	1993	1994	1995	1996
<b>Fatal accidents, total</b> . . . . .	<b>45,284</b>	<b>39,196</b>	<b>39,836</b>	<b>34,942</b>	<b>35,780</b>	<b>36,254</b>	<b>37,241</b>	<b>37,351</b>
One vehicle involved . . . . .	28,306	22,875	23,445	20,388	20,569	20,526	21,256	21,046
Two or more vehicles involved . . . . .	16,978	16,321	16,391	14,554	15,211	15,728	15,985	16,305
<b>Persons killed in fatal accidents</b> . . . . .	<b>51,091</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>41,907</b>
Occupants <sup>1</sup> . . . . .	41,927	36,043	37,134	32,880	33,574	34,318	35,291	35,579
Drivers . . . . .	28,816	25,337	25,750	22,584	23,142	23,691	24,390	24,456
Passengers . . . . .	12,972	10,619	11,276	10,211	10,361	10,518	10,784	11,021
Nonmotorists <sup>1</sup> . . . . .	9,164	7,782	7,465	6,370	6,576	6,398	6,526	6,328
Pedestrians . . . . .	8,070	6,808	6,482	5,549	5,649	5,489	5,584	5,412
Pedalcyclists . . . . .	965	890	859	723	816	802	833	761
<b>Occupant fatalities by type of vehicle, total</b> . . . . .	<b>41,927</b>	<b>36,043</b>	<b>37,134</b>	<b>32,880</b>	<b>33,574</b>	<b>34,318</b>	<b>35,291</b>	<b>35,579</b>
Passenger cars <sup>1</sup> . . . . .	27,449	23,212	24,092	21,387	21,566	21,997	22,423	22,416
Mini-compact . . . . .	3,141	3,571	3,556	2,714	2,635	2,339	2,207	2,011
Subcompact . . . . .	4,158	4,422	4,753	4,314	4,333	4,721	4,584	4,506
Compact . . . . .	927	2,635	5,310	5,354	5,707	6,322	6,899	7,161
Intermediate . . . . .	3,878	4,391	4,849	4,418	4,483	4,407	4,666	4,626
Full size . . . . .	4,831	2,974	2,386	2,120	2,067	2,074	2,116	2,111
Largest size . . . . .	6,746	3,612	2,249	1,676	1,608	1,486	1,297	1,246
Motorcycles . . . . .	4,961	4,417	3,129	2,291	2,336	2,190	2,114	2,045
Other motorized cycles . . . . .	183	147	115	104	113	130	212	115
Multipurpose vehicles . . . . .	895	855	1,214	1,335	1,521	1,757	1,935	2,138
Light trucks . . . . .	6,591	5,834	7,387	6,763	6,990	7,147	7,633	7,763
Pickup . . . . .	5,483	4,640	5,979	5,385	5,538	5,574	5,938	5,884
Van . . . . .	1,000	791	1,154	1,292	1,365	1,508	1,639	1,829
Medium trucks . . . . .	285	157	134	99	90	109	96	89
Heavy trucks . . . . .	977	820	571	486	515	561	552	532
Buses . . . . .	46	57	32	28	18	18	33	21
<b>Persons involved in fatal accident</b> . . . . .	<b>113,289</b>	<b>104,045</b>	<b>107,777</b>	<b>95,691</b>	<b>97,589</b>	<b>98,945</b>	<b>102,102</b>	<b>102,955</b>
Occupants <sup>1</sup> . . . . .	103,049	95,482	99,297	88,367	90,150	91,644	94,621	95,810
Drivers . . . . .	62,957	57,883	58,893	51,901	53,401	54,549	56,164	56,793
Passengers . . . . .	39,892	37,477	40,229	36,330	36,599	36,898	38,252	38,772
Nonoccupants . . . . .	10,240	8,563	8,480	7,324	7,439	7,301	7,478	7,138
Vehicle miles traveled (VMT) (100 million) . . . . .	15,273	17,742	21,444	22,471	22,967	23,576	24,227	24,822
Licensed drivers (1,000) . . . . .	145,295	156,868	167,015	173,125	173,149	175,403	176,628	179,539
Registered vehicles (1,000) . . . . .	161,490	177,098	192,915	194,427	198,041	201,802	197,065	201,626
Fatalities by road type <sup>1</sup> . . . . .	(NA)	(NA)	44,599	39,250	40,150	40,716	41,817	41,907
Interstate . . . . .	4,427	4,148	4,993	4,350	4,566	4,713	4,835	5,231
Federal-aid primary . . . . .	(NA)	14,526	14,203	12,052	(NA)	(NA)	(NA)	(NA)
Federal-aid secondary . . . . .	(NA)	6,429	6,892	5,849	(NA)	(NA)	(NA)	(NA)
Federal-aid urban . . . . .	(NA)	8,116	8,432	6,582	(NA)	(NA)	(NA)	(NA)
Nonfederal-aid . . . . .	(NA)	10,408	10,039	8,826	(NA)	(NA)	(NA)	(NA)
Fatal accidents by the highest blood alcohol concentration (BAC) in accident:								
0.00 percent . . . . .	(NA)	48.5	50.6	54.5	56.5	59.3	58.7	59.2
0.01 to 0.09 percent . . . . .	(NA)	10.3	9.7	9.1	8.5	8.5	8.6	8.7
0.10 percent and over . . . . .	(NA)	41.2	39.7	36.4	35.0	32.2	32.6	32.2
RATES								
Fatality rate by age group:								
Under 5 years old . . . . .	6.9	5.2	4.9	4.5	4.5	4.8	4.3	4.6
5 years to 15 years old . . . . .	8.7	7.4	6.4	5.9	5.8	6.0	5.9	5.7
16 years to 24 years old . . . . .	46.0	37.1	35.2	29.5	30.2	30.8	31.1	30.5
25 years to 44 years old . . . . .	24.6	19.6	19.7	16.6	16.9	16.3	17.2	16.9
45 years to 64 years old . . . . .	17.2	14.5	14.9	13.1	13.0	13.3	13.4	13.7
65 years to 79 years old . . . . .	19.6	18.0	18.8	17.9	17.9	18.7	18.5	18.6
80 years old and over . . . . .	25.3	25.1	26.8	26.0	28.0	28.2	27.8	27.9
Fatalities per 100 million VMT . . . . .	3.3	2.5	2.1	1.8	1.7	1.7	1.7	1.7
Fatalities per 100,000 licensed drivers . . . . .	35.2	27.9	26.7	22.7	23.2	23.2	23.7	23.3
Licensed driver per person . . . . .	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
VMT per registered vehicle . . . . .	9,458	10,018	11,107	11,558	12,189	11,683	11,793	11,807
Fatalities per 100,000 registered vehicles . . . . .	31.6	24.8	23.1	20.2	21.3	20.2	21.2	20.8
Fatal crashes per 100 million VMT . . . . .	2.9	2.2	1.9	1.6	1.6	1.5	1.5	1.5
Involved vehicles per fatal crash . . . . .	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Fatalities per fatal crash . . . . .	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Average occupants per fatal crash . . . . .	2.3	2.4	2.5	2.5	2.5	2.5	2.5	2.6
Fatalities per 100,000 population . . . . .	22.5	18.4	17.9	15.4	15.6	15.6	15.8	15.8

NA Not available. <sup>1</sup> Includes items not shown separately.

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

**No. 1044. Motor Vehicle Occupants and Non-Occupants Killed and Injured: 1985 to 1996**

[Vehicle occupants accounted for almost 84 percent of traffic fatalities in 1995. The remaining 16 percent were pedestrians, pedalcyclists, and other non-occupants]

YEAR	Total	OCCUPANTS					NON-OCCUPANTS				Other
		Total	Passenger cars	Light trucks	Large trucks	Motorcycles	Buses	Total	Pedestrian	Pedalcyclist	
<b>KILLED</b>											
1985	43,825	36,043	23,212	6,689	977	4,564	57	7,782	6,808	890	84
1986	46,087	38,234	24,944	7,317	926	4,566	39	7,853	6,779	941	133
1987	46,390	38,565	25,132	8,058	852	4,036	51	7,825	6,745	948	132
1988	47,087	39,170	25,808	8,306	911	3,662	54	7,917	6,870	911	136
1989	45,582	38,087	25,063	8,551	858	3,141	50	7,495	6,556	832	107
1990	44,599	37,134	24,092	8,601	705	3,244	32	7,465	6,482	859	124
1991	41,508	34,740	22,385	8,391	661	2,806	31	6,768	5,801	843	124
1992	39,250	32,880	21,387	8,098	585	2,395	28	6,370	5,549	723	98
1993	40,150	33,574	21,566	8,511	605	2,449	18	6,576	5,649	816	111
1994	40,716	34,318	21,997	8,904	670	2,320	18	6,398	5,489	802	107
1995	41,817	35,291	22,423	9,568	648	2,227	33	6,526	5,584	833	109
1996	41,907	35,581	22,416	9,901	621	2,160	21	6,326	5,412	761	153
<b>INJURED</b>											
1988	3,416,000	3,224,000	2,585,000	478,000	37,000	105,000	15,000	192,000	110,000	75,000	8,000
1989	3,284,000	3,088,000	2,431,000	511,000	43,000	83,000	15,000	196,000	112,000	73,000	11,000
1990	3,231,000	3,044,000	2,376,000	505,000	42,000	84,000	33,000	187,000	105,000	75,000	7,000
1991	3,097,000	2,931,000	2,235,000	563,000	28,000	80,000	21,000	166,000	88,000	67,000	11,000
1992	3,070,000	2,908,000	2,232,000	545,000	34,000	65,000	20,000	162,000	89,000	63,000	10,000
1993	3,125,000	2,958,000	2,257,000	590,000	32,000	58,000	17,000	166,000	93,000	65,000	9,000
1994	3,215,000	3,056,000	2,332,000	619,000	30,000	56,000	15,000	159,000	90,000	60,000	9,000
1995	3,386,000	3,232,000	2,416,000	709,000	30,000	55,000	18,000	154,000	84,000	61,000	9,000
1996	3,511,000	3,360,000	2,478,000	768,000	33,000	56,000	20,000	151,000	82,000	59,000	11,000

Source: U.S. National Highway Traffic Safety Administration, *Traffic Safety Facts 1995, Overview*, annual.

**No. 1045. Traffic Fatalities in Crashes Involving a Medium/Heavy Truck, by State: 1996**

[Medium/heavy trucks represents trucks over 10,000 pounds GVW, including single unit trucks]

STATE	Total	Occupant fatalities med/heavy trucks	Occupant fatalities other vehicles	Non-occupant fatalities	STATE	Total	Occupant fatalities med/heavy trucks	Occupant fatalities other vehicles	Non-occupant fatalities
<b>United States . . . .</b>	<b>5,126</b>	<b>621</b>	<b>4,072</b>	<b>433</b>	Missouri . . . . .	168	19	139	10
Alabama . . . . .	151	19	123	9	Montana . . . . .	21	1	18	2
Alaska . . . . .	6	-	5	1	Nebraska . . . . .	63	7	55	1
Arizona . . . . .	98	11	78	9	Nevada . . . . .	44	5	35	4
Arkansas . . . . .	104	24	78	2	New Hampshire . . . . .	12	-	11	1
California . . . . .	390	58	273	59	New Jersey . . . . .	84	8	64	12
Colorado . . . . .	63	7	53	3	New Mexico . . . . .	56	7	39	10
Connecticut . . . . .	34	5	24	5	New York . . . . .	161	16	107	38
Delaware . . . . .	14	1	11	2	North Carolina . . . . .	183	19	155	9
District of Columbia . . . . .	4	-	2	2	North Dakota . . . . .	12	-	12	-
Florida . . . . .	305	25	250	30	Ohio . . . . .	225	16	201	8
Georgia . . . . .	221	37	169	15	Oklahoma . . . . .	99	23	75	1
Hawaii . . . . .	13	2	9	2	Oregon . . . . .	64	9	54	1
Idaho . . . . .	38	8	29	1	Pennsylvania . . . . .	185	22	145	18
Illinois . . . . .	152	16	124	12	Rhode Island . . . . .	6	1	1	4
Indiana . . . . .	166	18	141	7	South Carolina . . . . .	111	14	90	7
Iowa . . . . .	83	5	74	4	South Dakota . . . . .	24	1	21	2
Kansas . . . . .	64	15	48	1	Tennessee . . . . .	175	23	140	12
Kentucky . . . . .	100	16	75	9	Texas . . . . .	450	53	370	27
Louisiana . . . . .	94	8	69	17	Utah . . . . .	35	4	27	4
Maine . . . . .	15	2	13	-	Vermont . . . . .	10	-	9	1
Maryland . . . . .	70	7	57	6	Virginia . . . . .	121	20	91	10
Massachusetts . . . . .	39	2	25	12	Washington . . . . .	73	10	54	9
Michigan . . . . .	162	15	135	12	West Virginia . . . . .	60	19	41	-
Minnesota . . . . .	77	2	68	7	Wisconsin . . . . .	105	3	96	6
Mississippi . . . . .	100	16	77	7	Wyoming . . . . .	16	2	12	2

- Represents zero.

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

**No. 1046. Speeding-Related Traffic Fatalities and Costs by Road Type and Speed Limit: 1996**

[Includes fatalities that occurred on roads for which the speed limit was unknown. Includes costs for crashes that occurred on unknown road types. Totals may not equal sum of components due to independent rounding]

STATE	Traffic fatalities, total	SPEEDING-RELATED FATALITIES BY ROAD TYPE AND SPEED							
		Interstate		Noninterstate					
		Over 55 mph	55 mph	55 mph	50 mph	45 mph	40 mph	35 mph	Under 35 mph
<b>United States . . . . .</b>	<b>41,907</b>	<b>1,210</b>	<b>476</b>	<b>4,439</b>	<b>543</b>	<b>1,429</b>	<b>815</b>	<b>1,316</b>	<b>1,411</b>
Alabama . . . . .	1,143	37	11	157	16	109	29	39	26
Alaska . . . . .	80	1	5	6	-	4	1	2	4
Arizona . . . . .	993	29	19	46	15	49	35	37	38
Arkansas . . . . .	615	11	9	126	-	21	11	15	17
California . . . . .	3,989	230	15	385	55	126	113	179	142
Colorado . . . . .	617	39	8	98	15	27	23	25	30
Connecticut . . . . .	310	-	8	8	-	10	7	17	37
Delaware . . . . .	116	-	1	4	11	-	3	2	3
District of Columbia . . . . .	62	-	1	-	2	4	-	2	21
Florida . . . . .	2,753	51	36	128	29	119	66	84	92
Georgia . . . . .	1,574	28	18	168	7	46	13	47	36
Hawaii . . . . .	148	-	3	5	1	6	-	18	19
Idaho . . . . .	258	15	1	29	14	7	-	14	10
Illinois . . . . .	1,477	33	48	215	5	18	30	7	128
Indiana . . . . .	984	12	11	58	8	17	19	21	32
Iowa . . . . .	465	9	-	24	5	7	-	10	8
Kansas . . . . .	491	7	3	52	4	4	8	9	17
Kentucky . . . . .	841	13	6	165	-	19	-	38	8
Louisiana . . . . .	781	9	8	73	7	21	7	18	15
Maine . . . . .	169	2	1	11	16	27	3	9	6
Maryland . . . . .	608	3	8	10	11	6	17	10	23
Massachusetts . . . . .	417	19	6	5	2	8	16	23	30
Michigan . . . . .	1,505	28	19	178	8	35	12	34	45
Minnesota . . . . .	576	2	8	102	7	8	1	4	21
Mississippi . . . . .	811	20	7	49	19	16	11	8	9
Missouri . . . . .	1,149	52	15	216	4	21	27	49	43
Montana . . . . .	200	5	1	22	-	3	-	4	3
Nebraska . . . . .	293	16	-	11	29	2	2	3	6
Nevada . . . . .	348	19	-	9	4	29	-	17	14
New Hampshire . . . . .	134	-	2	3	3	2	6	7	7
New Jersey . . . . .	818	-	14	12	20	5	6	2	23
New Mexico . . . . .	481	30	2	44	15	15	4	24	15
New York . . . . .	1,564	10	15	163	16	17	26	18	53
North Carolina . . . . .	1,493	22	15	334	2	79	1	70	6
North Dakota . . . . .	85	1	-	35	1	1	-	1	3
Ohio . . . . .	1,395	23	6	203	3	23	12	44	38
Oklahoma . . . . .	772	47	8	66	15	46	21	14	12
Oregon . . . . .	524	11	2	90	-	8	12	14	6
Pennsylvania . . . . .	1,469	28	20	160	12	114	66	87	41
Rhode Island . . . . .	69	-	4	1	5	1	-	2	12
South Carolina . . . . .	930	40	14	177	12	89	19	45	38
South Dakota . . . . .	175	5	2	20	1	8	1	1	1
Tennessee . . . . .	1,239	23	14	124	10	56	38	26	41
Texas . . . . .	3,741	163	61	274	48	114	101	115	122
Utah . . . . .	321	28	2	17	7	3	14	4	10
Vermont . . . . .	88	5	1	1	22	1	7	8	3
Virginia . . . . .	875	22	10	129	1	35	4	17	15
Washington . . . . .	712	22	3	51	49	15	14	45	38
West Virginia . . . . .	345	12	1	51	2	7	3	15	7
Wisconsin . . . . .	761	13	4	119	2	16	4	10	26
Wyoming . . . . .	143	15	-	5	3	5	2	2	11

- Represents or rounds to zero.

Source: U.S. National Highway Traffic Safety Administration, *Traffic Safety Facts 1995, Speeding. Traffic Safety Facts 1995, Speeding.*

## No. 1047. Highway Mileage—Travel Summary: 1980 to 1994

YEAR AND TYPE OF SYSTEM	Highway mileage (1,000)	Vehicle miles of travel (bil.)	Daily vehicle miles per mile	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES <sup>2</sup>	
				Number	Rate <sup>1</sup>	Number (1,000)	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
1980	3,857	1,527	1,082	45,284	2.96	2,008	131	51,091	3.35
1985	3,862	1,774	1,259	39,168	2.21	2,219	125	43,825	2.47
1990	3,880	2,148	1,516	39,779	1.85	2,501	116	44,529	2.07
1991	3,889	2,172	1,530	36,895	1.70	2,210	102	41,462	(NA)
1992	3,902	2,240	1,568	34,928	1.56	2,216	99	39,235	1.75
1993	3,905	2,297	1,611	35,750	1.56	(NA)	(NA)	40,115	1.75
1994	3,907	2,360	1,655	36,223	1.53	(NA)	(NA)	40,676	1.72

NA Not available. <sup>1</sup>Rate per 100 million vehicle miles of travel. <sup>2</sup>Represents fatalities occurring within 30 days of accident. Excludes nontraffic accidents which, for example, occur outside the rights-of-way or other boundaries of roads that are open for public use.

Source: U.S. Federal Highway Administration, *Fatal and Injury Accident Rates on Public Roads in the United States*, annual.

## No. 1048. Alcohol Involvement for Drivers in Fatal Crashes: 1985 and 1995

[BAC = blood alcohol concentration]

DRIVERS INVOLVED IN FATAL CRASHES	1985		1995		Change in percentage, 1985-95
	Number of drivers	Percentage with BAC of .10% or greater	Number of drivers	Percentage with BAC of .10% or greater	
<b>Total drivers <sup>1</sup></b>	<b>57,883</b>	<b>25.7</b>	<b>56,155</b>	<b>19.3</b>	<b>-25.0</b>
Drivers by age group:					
16 to 20 years old	9,386	23.9	7,738	12.7	-47.0
21 to 24 years old	9,046	35.3	6,268	27.8	-21.0
25 to 34 years old	15,257	32.4	13,029	26.8	-17.0
35 to 44 years old	8,892	24.3	10,664	22.8	-6.0
45 to 64 years old	9,262	16.7	10,884	14.3	-14.0
65 years old and over	4,479	7.6	6,238	5.0	-34.0
Drivers by sex:					
Male	44,846	28.2	41,216	21.8	-23.0
Female	12,142	15.5	14,179	11.2	-28.0
Drivers by vehicle type:					
Passenger cars	34,071	26.1	30,692	19.2	-27.0
Light trucks	12,372	28.7	17,420	22.4	-22.0
Large trucks	5,091	3.6	4,391	1.3	-62.0
Motorcycles	4,598	39.3	2,257	29.1	-26.0

<sup>1</sup> Does not add, due to unknown or other data not included.

Source: National Safety Council, Itasca, IL, *Accident Facts*, 1997 edition (copyright).

## No. 1049. Age of Driver and Number in Accidents, 1996

AGE GROUP	Number	Percent	DRIVERS IN ACCIDENTS					
			Fatal		All		Per number of drivers	
			Number	Percent	Number	Percent	Fatal <sup>1</sup>	All <sup>2</sup>
<b>Total</b>	<b>177,820,000</b>	<b>100.0</b>	<b>57,400</b>	<b>100.0</b>	<b>18,900,000</b>	<b>100.0</b>	<b>32</b>	<b>11</b>
Under 16 years old	61,000	(Z)	500	0.9	90,000	0.5	( <sup>3</sup> )	( <sup>3</sup> )
16 years old	1,578,000	0.9	1,200	2.1	580,000	3.1	76	37
17 years old	2,195,000	1.2	1,600	2.8	670,000	3.5	73	31
18 years old	2,432,000	1.4	1,900	3.3	710,000	3.8	78	29
19 years old	2,653,000	1.5	1,800	3.1	670,000	3.5	68	25
19 years old and under	8,919,000	5.0	7,000	12.2	2,720,000	14.4	78	30
20 years old	2,828,000	1.6	1,800	3.1	600,000	3.2	64	21
21 years old	2,864,000	1.6	1,900	3.3	590,000	3.1	66	21
22 years old	2,880,000	1.6	1,800	3.1	560,000	3.0	63	19
23 years old	3,065,000	1.7	1,600	2.8	540,000	2.9	52	18
24 years old	3,625,000	2.0	1,600	2.8	540,000	2.9	44	15
20 to 24 years old	15,262,000	8.6	8,700	15.2	2,830,000	15.0	57	19
25 to 34 years old	37,781,000	21.2	13,000	22.6	4,600,000	24.3	34	12
35 to 44 years old	40,415,000	22.7	11,700	20.4	3,840,000	20.3	29	10
45 to 54 years old	30,928,000	17.4	7,100	12.4	2,360,000	12.5	23	8
55 to 64 years old	19,345,000	10.9	4,100	7.1	1,210,000	6.4	21	6
65 to 74 years old	15,648,000	8.8	3,000	5.2	810,000	4.3	19	5
75 years old and over	9,522,000	5.4	2,800	4.9	530,000	2.8	29	6

Z Less than .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, *Accident Facts*, 1997 edition (copyright).



No. 1050. State Legislation—Alcohol and Road Safety Laws: Various Years

STATE	ALCOHOL LEGISLATION				MANDATORY BELT USE LAW		Motor-cycle helmet law <sup>5</sup>	Work zone speed law	1995/96 SPEED LIMIT CHANGES	
	Administrative license revocation since <sup>1</sup>	BAC limit <sup>2</sup>	Zero tolerance limit for minors <sup>3</sup>	Alcohol ignition interlock device <sup>4</sup>	Enforcement	Seating positions			Road types affected <sup>6</sup>	Applicable vehicles
Alabama . . . . .	No	.10	No	No	Secondary	Front	Yes	Yes	1, 2	Raised to 70
Alaska . . . . .	5/83	.10	(NA)	Yes	Secondary	All	18	No	No change	Remained at 65
Arizona . . . . .	1992	.10	.00	No	Secondary	Front	18	No	3	Raised to 75
Arkansas . . . . .	3/95	.10	.02	Yes	Secondary	Front	Yes	(NA)	No change	Remained at 65
California . . . . .	1989	.08	.01	Yes	Primary	All	Yes	Yes	4	Raised to 70
Colorado . . . . .	Yes	.10	No	Yes	Secondary	7Front	No	Yes	(NA)	Raised to 65
Connecticut . . . . .	1/90	.10	.02	No	Primary	7Front	18	8No	No change	Remained at 55
Delaware . . . . .	Yes	.10	.02	Yes	Secondary	Front	9 <sup>10</sup> 19	Yes	1	Raised to 65
District of Columbia . . . . .	Yes	.10	.00	No	Secondary	11Front	Yes	Yes	No change	Remained at 55
Florida . . . . .	Yes	.08	No	Yes	Secondary	Front	Yes	Yes	5	Raised to 70
Georgia . . . . .	(NA)	.10	.04	Yes	Secondary	Front	Yes	Yes	1	Raised to 70
Hawaii . . . . .	6/90	.08	No	No	Primary	Front	18	No	No change	Remained at 55
Idaho . . . . .	7/94	.10	.02	Yes	Secondary	Front	18	No	1	Raised to 75
Illinois . . . . .	1/86	.10	.00	Yes	Secondary	Front	No	Yes	1, 2, 3, 6	Remained at 65
Indiana . . . . .	Yes	.10	.02	Yes	Secondary	Front	9 <sup>18</sup>	Yes	1	Remained at 65
Iowa . . . . .	(NA)	.10	.02	Yes	Primary	Front	No	Yes	No change	Remained at 65
Kansas . . . . .	1988	.08	.02	Yes	Secondary	Front	18	Yes	7	Raised to 70
Kentucky . . . . .	No	.10	.02	No	Secondary	All	Yes	No	1, 5	Remained at 65
Louisiana . . . . .	1/84	.10	12.04	Yes	Primary	Front	Yes	No	No change	Remained at 65
Maine <sup>13</sup> . . . . .	(NA)	.08	(NA)	No	(NA)	(NA)	9 <sup>14</sup> 15	(NA)	No change	Remained at 65
Maryland . . . . .	5/89	15.10	.01	Yes	Secondary	7 <sup>11</sup> Front	Yes	No	No change	Remained at 65
Massachusetts <sup>13</sup> . . . . .	(NA)	.10	(NA)	No	Secondary	All	Yes	(NA)	No change	Remained at 65
Michigan . . . . .	No	.10	.02	Yes	Secondary	7Front	Yes	Yes	No change	Remained at 65
Minnesota . . . . .	1976	.10	.01	No	Secondary	7Front	9 <sup>18</sup>	Yes	No change	Remained at 65
Mississippi . . . . .	No	.10	.08	No	Secondary	Front	Yes	Yes	1, 2	Raised to 70
Missouri . . . . .	1987	.10	No	No	Secondary	Front	Yes	Yes	2, 9	Raised to 70
Montana . . . . .	No	.10	.02	No	Secondary	All	18	Yes	All	(T)
Nebraska . . . . .	1/93	.10	.02	Yes	Secondary	Front	Yes	No	1	Raised to 75
Nevada . . . . .	1983	.10	No	Yes	Secondary	All	Yes	No	All	Raised to 75
New Hampshire . . . . .	1/94	.08	.01	No	(NA)	(NA)	18	Yes	1	Remained at 65
New Jersey <sup>13</sup> . . . . .	(NA)	.10	.01	No	Secondary	7Front	Yes	8No	No change	Remained at 55
New Mexico <sup>13</sup> . . . . .	(NA)	.08	.02	No	Primary	7Front	18	(NA)	(NA)	Raised to 75
New York . . . . .	11/94	15.10	(NA)	17Yes	Primary	7Front	Yes	(NA)	1	Raised to 65
North Carolina . . . . .	1983	.08	No	No	Primary	Front	Yes	Yes	8	Raised to 65
North Dakota . . . . .	1983	.10	No	No	Secondary	Front	18	Yes	No change	Remained at 65
Ohio . . . . .	9/93	.10	.02	Yes	Secondary	Front	14 <sup>18</sup>	8No	No change	Remained at 65
Oklahoma . . . . .	(NA)	.10	.00	Yes	Secondary	Front	18	Yes	Varies	Raised to 75
Oregon . . . . .	1983	.08	.00	Yes	Primary	All	Yes	No	No change	Remained at 65
Pennsylvania . . . . .	No	.10	No	No	Secondary	Front	Yes	Yes	9	Raised to 65
Rhode Island . . . . .	No	.10	.04	17Yes	Secondary	All	(18)	No	1	Raised to 65
South Carolina . . . . .	No	.10	No	No	Secondary	19Front	21	Yes	No change	Remained at 65
South Dakota . . . . .	No	.10	No	No	Secondary	Front	18	Yes	All	Raised to 75
Tennessee . . . . .	No	.10	.02	Yes	Secondary	7Front	Yes	Yes	2, 8	Raised to 65
Texas . . . . .	1995	.10	.07	17Yes	Primary	Front	Yes	Yes	1, 2	Raised to 70
Utah . . . . .	1983	.08	.00	Yes	Secondary	Front	18	(NA)	1	Raised to 75
Vermont <sup>16</sup> . . . . .	Yes	.08	12.02	No	Secondary	All	Yes	No	No change	Remained at 65
Virginia . . . . .	1/95	.08	.02	Yes	Secondary	Front	Yes	No	No change	Remained at 65
Washington . . . . .	206/94	.10	.02	Yes	Secondary	All	Yes	Yes	1	Raised to 75
West Virginia . . . . .	(NA)	.10	.02	Yes	Secondary	7Front	Yes	Yes	No change	Remained at 65
Wisconsin <sup>18</sup> . . . . .	1/88	21.10	22.00	17Yes	Secondary	19Front	9 <sup>18</sup>	Yes	1, 4	Remained at 65
Wyoming . . . . .	1973	.10	No	No	Secondary	Front	18	No	1, 3, 4	Raised to 75

NA Not available. <sup>1</sup>Year original law became effective, not when grandfather clauses expired. <sup>2</sup>Blood alcohol concentration that constitutes the threshold of legal intoxication. <sup>3</sup>Blood alcohol concentration that constitutes "zero tolerance" threshold for minors less than 21 years old unless noted. <sup>4</sup>Legislation for instruments designed to prevent drivers from starting their cars when breath alcohol content is at or above a set point. <sup>5</sup>Presence of law or age below which riders are required to wear helmet. <sup>6</sup>"1" means rural interstates; "2" means four-lane highways; "3" means rural highways; "4" means inter/intra state freeways; "5" means rural interstates/turmpikes; "6" means county and township roads with no posted speed limit; "7" means separate multilane highways designated/posted by secretary of transportation; "8" means interstates within municipal city limits; "9" means turnpikes; "10" means interstates outside urban areas of population 50,000 or more plus others where posted. <sup>7</sup>Required for certain ages at all seating positions. <sup>8</sup>No work zone speed law per se, but double fine for violation. <sup>9</sup>Plus instruction permit holders. <sup>10</sup>Helmet possession required by all. <sup>11</sup>Excluding front center seat. <sup>12</sup>Blood alcohol concentration that constitutes "zero tolerance" threshold for minors less than 18 years of age. <sup>13</sup>Data from 1994/1995. <sup>14</sup>Plus novice license holders. <sup>15</sup>BAC of .07 is prima facie evidence of DUI (MD); BAC of .05-.10 constitutes driving while ability impaired (NY). <sup>16</sup>Revocation by judicial action (NY) or Dept. of Motor Vehicles (VT). <sup>17</sup>For repeat offenders. <sup>18</sup>Operators under 21 for first year; passengers. <sup>19</sup>Belt use required in rear seat if lap/shoulder belt is available. <sup>20</sup>Applies only to second DUI offense. <sup>21</sup>Different legal limit for repeat offenders. <sup>22</sup>Blood alcohol concentration that constitutes "zero tolerance" threshold for minors less than 19 years of age.

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

### No. 1051. Motor Vehicle Safety Defect Recalls, by Domestic and Foreign Manufacturers: 1980 to 1996

[Covers manufacturers reporting to U.S. National Highway Traffic Administration under Section 151 of National Traffic and Motor Vehicle Safety Act of 1966, as amended]

MANUFACTURER	Unit	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996
Motor vehicles:											
<b>Total recall campaigns</b> <sup>1</sup> . . .	Number . . .	167	173	237	208	220	187	221	244	266	265
Domestic . . . . .	Number . . .	129	137	182	159	168	142	178	178	190	197
Foreign . . . . .	Number . . .	38	36	55	49	52	45	43	66	76	68
<b>Total vehicles recalled</b> . . .	1,000 . . .	4,868	5,629	7,137	5,985	8,279	10,122	10,922	6,063	18,295	17,084
Domestic . . . . .	1,000 . . .	3,943	4,995	6,173	4,070	6,646	6,545	7,655	4,280	9,041	15,104
Foreign . . . . .	1,000 . . .	925	634	964	1,915	1,633	3,577	3,267	1,784	9,259	1,980
Motor vehicle tires:											
Recall campaigns <sup>1</sup> . . . . .	Number . . .	24	19	11	13	12	7	5	5	3	1
Tires recalled . . . . .	1,000 . . .	7,070	28	115	172	153	8	5	93	10	6

<sup>1</sup> A recall campaign is the notification to the Secretary of the U.S. Dept. of Transportation and to owners, purchasers, and dealers of motor vehicles and motor vehicle equipment.

Source: U.S. National Highway Traffic Safety Administration, *Motor Vehicles Recall Campaigns*, annual.

### No. 1052. Cost of Owning and Operating an Automobile: 1980 to 1997

ITEM	Unit	1980	1990	1992	1993	1994	1995	1996	1997
Cost per mile <sup>1</sup> . . . . .	Cents . . . .	27.95	40.96	45.77	45.14	46.65	48.91	51.43	53.08
Cost per 10,000 miles <sup>1</sup> . . . . .	Dollars . . .	2,795	4,096	4,577	4,514	4,665	4,891	5,143	5,308
Variable cost . . . . .	Cents/mile .	7.62	8.40	9.10	9.30	9.20	10.00	10.10	10.80
Gas and oil . . . . .	Cents/mile .	5.86	5.40	6.00	6.00	5.60	6.00	5.90	6.60
Maintenance . . . . .	Cents/mile .	1.12	2.10	2.20	2.40	2.50	2.60	2.80	2.80
Tires . . . . .	Cents/mile .	0.64	0.90	0.90	0.90	1.10	1.40	1.40	1.40
Fixed cost . . . . .	Dollars . . .	(NA)	(NA)	3,667	3,584	3,745	3,891	4,133	4,228
Insurance . . . . .	Dollars . . .	490	675	747	724	697	716	782	809
License and registration . . . . .	Dollars . . .	82	165	179	183	204	211	229	220
Depreciation . . . . .	Dollars . . .	1,038	2,357	2,780	2,883	2,988	3,099	3,208	3,268
Finance charge . . . . .	Dollars . . .	423	680	832	696	695	729	778	793

NA Not available. <sup>1</sup> Beginning 1990, not comparable to previous data.

Source: American Automobile Manufacturers Association Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual (copyright).

### No. 1053. Domestic Motor Fuel Consumption, by Type of Vehicle: 1970 to 1996

[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	FUEL CONSUMPTION					AVG. FUEL CONSUMPTION PER VEHICLE (gal.)			AVG. MILES PER GALLON		
	All vehicles (bil. gal.)	Avg. annual percent change <sup>1</sup>	Cars <sup>2</sup> (bil. gal.)	Buses <sup>3</sup> (bil. gal.)	Trucks <sup>4</sup> (bil. gal.)	Cars <sup>2</sup>	Buses <sup>3</sup>	Trucks <sup>4</sup>	Cars <sup>2</sup>	Buses <sup>3</sup>	Trucks <sup>4</sup>
1970 . . . . .	92.3	5.4	67.7	0.8	11.3	688	2,172	2,467	13.5	5.5	5.5
1975 . . . . .	109.0	2.5	74.1	1.1	14.6	619	2,279	2,722	14.0	5.8	5.6
1980 . . . . .	115.0	-5.9	70.0	1.0	20.0	507	1,926	3,447	16.0	6.0	5.4
1981 . . . . .	114.5	-0.4	69.1	1.1	20.3	496	1,938	3,565	16.4	5.9	5.3
1982 . . . . .	113.4	-0.9	69.1	1.0	20.4	496	1,756	3,647	16.8	5.9	5.5
1983 . . . . .	116.1	2.4	70.3	0.9	20.8	497	1,507	3,769	17.0	5.9	5.6
1984 . . . . .	118.7	2.3	70.6	0.8	21.4	495	1,398	3,967	17.3	5.7	5.7
1985 . . . . .	121.3	2.2	71.5	0.8	21.4	505	1,405	3,570	17.5	5.4	5.8
1986 . . . . .	125.2	3.2	73.2	0.9	21.8	507	1,496	3,821	17.4	5.3	5.8
1987 . . . . .	127.5	1.8	73.3	0.9	22.5	500	1,527	3,937	18.0	5.8	5.9
1988 . . . . .	130.1	2.0	73.3	0.9	22.9	487	1,524	3,736	18.7	5.8	6.0
1989 . . . . .	131.9	1.4	73.9	0.9	23.5	486	1,519	3,776	18.9	6.0	6.1
1990 . . . . .	130.8	-0.8	69.6	0.9	24.5	461	1,428	3,953	20.2	6.4	6.0
1991 . . . . .	128.6	-1.7	64.3	0.9	25.0	443	1,369	4,047	21.1	6.7	6.0
1992 . . . . .	132.9	3.3	65.4	0.9	25.5	455	1,362	4,210	20.9	6.6	6.0
1993 . . . . .	137.3	3.3	67.0	0.9	26.2	462	1,420	4,309	20.5	6.6	6.1
1994 . . . . .	140.8	2.5	67.9	1.0	27.7	462	1,438	4,102	20.7	6.6	6.1
1995 . . . . .	143.8	2.1	68.1	1.0	29.0	530	1,412	4,315	21.1	6.6	6.1
1996 . . . . .	146.7	2.0	68.9	1.0	29.5	531	1,414	4,205	21.3	6.6	6.2

<sup>1</sup> From prior year, except 1970, change from 1965. <sup>2</sup> Includes taxicabs. The format used to report some vehicle types was changed. In previous years, some other two-axle four-tire vehicles were included in the passenger car category. Other two-axle four-tire vehicles are now separate from the truck category. <sup>3</sup> Includes school buses. <sup>4</sup> Includes combinations.

Source: U.S. Federal Highway Administration, *Highway Statistics Summary to 1985*, and *Highway Statistics*, annual.

**No. 1054. Motor Vehicle Travel, by Type of Vehicle and by Speed: 1970 to 1996**

[Travel in billions of vehicle-miles, except as indicated. 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 Oct. 1975 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)			MOTOR VEHICLE SPEED ON RURAL INTERSTATE				
	Total	Cars <sup>1</sup>	Buses	Trucks	Passenger vehicles		Trucks	Citations recorded (1,000) <sup>2</sup>	Avg. speed (miles per hour)	Percent of vehicles exceeding—		
					Cars <sup>1</sup>	Buses				55 mph	60 mph	65 mph
1970	1,110	917	4.5	186	10.3	12.0	9.9	200	63.8	87	69	44
1980	1,527	1,122	6.1	291	8.8	11.5	10.4	667	57.5	66	25	7
1985	1,775	1,256	4.5	391	9.4	7.5	10.5	8,449	59.5	75	44	17
1986	1,835	1,280	4.7	424	9.5	7.9	10.8	8,549	59.7	76	46	18
1987	1,921	1,325	5.3	457	9.7	8.9	11.1	7,992	59.7	74	46	19
1988	2,026	1,380	5.5	502	10.0	8.9	11.5	7,566	59.5	74	46	19
1989	2,096	1,412	5.7	536	10.2	9.1	11.7	7,488	60.1	77	49	22
1990	2,144	1,418	5.7	575	10.3	9.1	11.9	7,511	60.4	78	50	23
1991	2,172	1,367	5.8	649	10.3	9.1	12.2	7,594	59.9	76	48	21
1992	2,247	1,381	5.8	707	10.6	9.0	12.4	7,004	61.2	81	56	28
1993	2,296	1,385	6.1	746	10.5	9.4	12.4	6,433	60.8	78	51	24
1994	2,358	1,416	6.4	765	10.8	9.6	12.2	(NA)	(NA)	(NA)	(NA)	(NA)
1995	2,423	1,448	6.4	790	11.1	9.4	12.0	(NA)	(NA)	(NA)	(NA)	(NA)
1996	2,482	1,468	6.5	815	11.3	9.4	11.8	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Includes motorcycles. <sup>2</sup> Citations issued for 55 mph violations.

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

**No. 1055. Passenger Transit Industry—Summary: 1985 to 1996**

[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	1992	1993	1994	1995	1996
Operating systems	Number	4,972	5,078	5,086	5,088	5,973	5,973	5,973
Motor bus systems	Number	2,631	2,688	2,693	1,934	2,250	2,250	2,250
Passenger vehicles, active <sup>1</sup>	Number	94,368	92,961	102,251	107,316	115,943	115,874	119,556
Motor bus	Number	64,258	58,714	63,080	64,850	68,123	67,107	67,874
Trolley bus	Number	676	832	907	851	877	885	871
Heavy rail	Number	9,326	10,419	10,245	10,261	10,138	10,157	10,201
Light rail	Number	717	913	1,058	1,025	1,054	999	1,140
Commuter rail	Number	4,035	4,415	4,413	4,494	4,517	4,565	4,665
Demand response	Number	14,490	16,471	20,695	23,527	28,729	29,352	31,853
Operating funding, total	Mil. dol	12,195	16,053	16,915	17,276	17,968	18,241	19,756
Passenger funding	Mil. dol	4,575	5,891	6,152	6,351	6,756	6,801	7,417
Other operating funding <sup>2</sup>	Mil. dol	702	895	646	764	2,271	2,812	3,068
Operating assistance	Mil. dol	6,918	9,267	10,117	10,161	8,941	8,628	9,271
Federal	Mil. dol	940	970	969	966	916	817	567
Local	Mil. dol	4,597	5,327	5,268	5,491	4,171	3,981	4,312
State <sup>3</sup>	Mil. dol	( <sup>4</sup> )	2,970	3,898	3,704	3,854	3,830	4,392
Total expense	Mil. dol	14,077	17,979	20,034	20,679	21,653	21,540	22,457
Operating expense	Mil. dol	12,381	15,742	16,781	17,350	17,920	17,849	18,503
Vehicle operations	Mil. dol	5,655	6,654	7,660	7,941	8,212	8,282	8,623
Maintenance	Mil. dol	3,672	4,631	4,831	4,894	5,004	5,047	4,891
General administration	Mil. dol	2,505	3,450	2,674	2,714	2,752	2,590	3,155
Purchased transportation	Mil. dol	549	1,008	1,616	1,800	1,952	1,930	1,834
Reconciling expense	Mil. dol	1,696	2,237	3,253	3,329	3,733	3,691	3,954
Capital expenditure, federal	Mil. dol	2,510	2,380	2,613	3,465	3,577	5,481	4,125
Vehicle-miles operated <sup>1</sup>	Mil. dol	2,791	3,242	3,355	3,435	3,467	3,550	3,663
Motor bus	Million	1,863	2,130	2,178	2,210	2,162	2,184	2,165
Trolley bus	Million	16	14	14	13	14	14	14
Heavy rail	Million	451	537	525	522	532	537	543
Light rail	Million	17	24	29	28	34	35	38
Commuter rail	Million	183	213	219	224	231	238	242
Demand response	Million	247	306	364	406	464	507	617
Passengers carried <sup>1</sup>	Million	8,636	8,799	8,501	8,217	7,949	7,763	7,975
Motor bus	Million	5,675	5,677	5,517	5,381	4,871	4,848	4,912
Trolley bus	Million	142	126	126	121	118	119	117
Heavy rail	Million	2,290	2,346	2,207	2,046	2,169	2,033	2,157
Light rail	Million	132	175	188	188	284	251	261
Commuter rail	Million	275	328	314	322	339	344	353
Demand response	Million	59	68	72	81	88	88	95
Avg. funding per passenger	Cents	53.0	66.9	72.4	77.3	85.0	87.1	87.6
Employees, number (avg.) <sup>5</sup>	1,000	270	273	279	299	304	311	306
Payroll, employee	Mil. dol	5,843	7,226	7,671	7,932	8,224	8,213	8,687
Fringe benefits, employee	Mil. dol	2,868	3,986	4,319	4,400	4,452	4,484	4,563

<sup>1</sup> Includes other not shown separately. <sup>2</sup> Beginning 1994, 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. <sup>4</sup> For 1985, state and local combined. <sup>5</sup> Through 1992, represents employee equivalents of 2,080 hours = one employee; beginning 1993, equals actual employees.

Source: American Public Transit Association, Washington, DC, *Transit Fact Book*, annual. <<http://www.apta.com/pubs/stats/index.htm>>

**No. 1056. Class I Intercity Motor Carriers of Passengers: 1980 to 1996**

[Carriers subject to ICC regulations. See text, Section 21. Minus sign (-) indicates deficit]

ITEM	Unit	1980	1985	1988	1989	1990	1991	1992	1993	1994	1995	1996
Carriers reporting <sup>1</sup>	Number.	48	43	21	20	21	21	21	21	20	20	17
Number of employees, average	1,000 . . .	31	24	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Compensation of employees	Mil. dol . . .	599	518	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Operating revenue	Mil. dol . . .	1,397	1,233	1,122	1,205	943	980	938	928	870	917	912
Passenger revenue <sup>2</sup>	Mil. dol . . .	947	836	825	890	738	793	755	721	721	770	772
Special bus revenue and other	Mil. dol . . .	215	184	155	165	90	187	183	177	149	147	140
Operating expenses	Mil. dol . . .	1,318	1,168	1,059	1,133	1,015	967	874	880	919	899	878
Net operating revenue	Mil. dol . . .	79	65	63	72	-72	13	64	48	-49	18	33
Ordinary income:												
Before income taxes	Mil. dol . . .	107	65	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
After income taxes	Mil. dol . . .	90	53	(NA)	12	-180	162	21	14	-67	-9	13
Passenger vehicles in service <sup>2</sup>	1,000 . . .	8.6	8.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Vehicle-miles, passenger	Million . . .	781	567	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Revenue passengers carried	Million . . .	134	88	55	54	43	42	41	40	41	43	37
Expense per vehicle-mile	Dollar . . .	1.69	2.06	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Excludes carriers preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers. <sup>2</sup> Regular route intercity and local.

Source: Through 1993, U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, part 2, annual, thereafter, U.S. Bureau of Transportation Statistics, *Selected Earnings Data, Class I Motor Carriers of Passengers*.

**No. 1057. Passenger Transportation Arrangement: 1993 to 1995**

[In millions of dollars, except percent. Represents SIC 4722]

SOURCE OF RECEIPTS	1993	1994	1995	OPERATING EXPENSES	1993	1994	1995
	<b>Receipts, total <sup>1</sup></b>	<b>11,073</b>	<b>11,795</b>	<b>12,891</b>	<b>Expenses, total <sup>1</sup></b>	<b>10,136</b>	<b>10,889</b>
Air carriers	6,138	6,375	6,846	Payroll, annual	4,031	4,526	4,818
Water carriers	528	584	663	Employer contributions <sup>2</sup>	558	628	663
Hotels and motels	758	808	867	Lease and rental payments	908	908	1,021
Motor coaches	388	397	413	Advertising and promotion	713	746	753
Railroads	125	126	145	Taxes and licenses	144	163	181
Rental cars	189	204	242	Utilities	386	388	412
Package tours	2,158	2,425	2,634	Depreciation	339	361	381
Other	789	876	1,081	Office Supplies	294	325	352
				Repair Services	134	152	168
				Other	2,629	2,692	2,806

<sup>1</sup> Receipts for firms primarily engaged in arranging passenger transportation. These estimates exclude receipts of transportation companies (airlines, railroads, etc.). <sup>2</sup> Includes contributions to social security and other supplemental benefits.

Source: U.S. Bureau of the Census, *Service Annual Survey*.

**No. 1058. Motor Freight Transportation and Warehousing Services—Revenues, Expenses, and Payroll Expenses, and Payroll: 1995 and 1996**

[In millions of dollars]

KIND OF BUSINESS	SIC <sup>1</sup> code	OPERATING REVENUE		OPERATING EXPENSES		ANNUAL PAYROLL	
		1995	1996	1995	1996	1995	1996
<b>Motor freight transport. and warehousing services <sup>2</sup></b>	<b>42</b>	<b>172,727</b>	<b>184,259</b>	<b>160,321</b>	<b>172,058</b>	<b>49,373</b>	<b>52,522</b>
Trucking and courier services, except by air <sup>3</sup>	421	161,806	172,743	151,628	162,825	46,478	49,432
Local trucking without storage	4212	43,830	46,589	38,695	41,325	9,885	10,701
Trucking, except local	4213	91,675	97,586	88,061	94,390	26,635	28,161
Local trucking with storage	4214	5,154	5,502	4,817	5,121	1,633	1,681
Courier services, except by air	4215	21,147	23,066	20,055	21,989	8,325	8,889
Public warehousing and storage	422	10,874	11,463	8,652	9,189	2,883	3,076
Farm product warehousing and storage	4221	749	688	595	560	182	176
Refrigerated warehousing and storage	4222	2,107	2,203	1,747	1,857	588	617
General warehousing and storage	4225	6,143	6,522	4,777	5,030	1,613	1,710
Special warehousing and storage <sup>4</sup>	4226	1,875	2,050	1,533	1,742	500	573

<sup>1</sup> Standard Industrial Classification. <sup>2</sup> Includes terminal and joint terminal maintenance facilities for motor carrier transportation (SIC 4231) not shown separately. <sup>3</sup> Excludes private motor carriers that operate as auxiliary establishments to nontransportation companies and independent owner-operators with no paid employees. <sup>4</sup> Includes household goods warehousing.

Source: U.S. Bureau of the Census, *Current Business Reports, 1996 Motor Freight Transportation and Warehousing Survey*.

## No. 1059. Bus Profile: 1980 to 1996

ITEM	Unit	1980	1990	1994	1995	1996
<b>FINANCIAL</b>						
Expenditures, school bus . . . . .	Mil. dol. .	3,833	7,605	7,847	9,082	10,404
Operating revenues, intercity bus, Class I . . . . .	Mil. dol. .	1,397	943	870	917	912
Operating expenses, intercity bus, Class I . . . . .	Mil. dol. .	1,318	1,026	919	899	878
<b>INVENTORY</b>						
Operating companies, intercity bus, Class I . . . . .	Number .	61	31	27	28	27
Vehicles:						
Commercial and federal bus . . . . .	Number .	110,576	118,726	122,705	125,057	127,214
School and other bus . . . . .	Number .	418,225	508,261	547,718	560,447	596,395
<b>PERFORMANCE</b>						
Vehicle-miles, all buses:						
Rural and urban highway . . . . .	Millions .	6,059	5,726	6,409	6,383	6,535
Revenue:						
Passenger miles, intercity bus . . . . .	Millions .	(NA)	121,400	135,900	136,104	138,542
Passengers, intercity bus . . . . .	1,000 .	370,000	334,000	343,200	366,500	360,000
Avg. miles traveled per vehicle, all buses . . . . .	Miles . .	11,458	9,133	9,560	9,312	9,381
Avg. annual fuel consumption, all buses . . . . .	Gallon .	1,926	1,428	1,430	1,412	1,414
Avg. miles per gallon, all buses . . . . .	Mpg . . .	6.0	6.4	6.6	6.6	6.6
Average revenue per passenger mile . . . . .	Cents . .	7.3	11.6	11.6	12.2	12.4
<b>SAFETY</b>						
Fatalities:						
School bus related . . . . .	Number .	150	115	105	122	136
School bus occupants . . . . .	Number .	9	11	3	13	10
Other vehicle occupants . . . . .	Number .	88	64	64	72	101
Nonoccupants . . . . .	Number .	53	40	38	37	25
Fatalities in vehicular accidents, all buses . . . . .	Number .	390	340	286	306	297
Occupant fatality rate:						
Per 100 million vehicle-miles, all buses . . . . .	Rate . . .	0.8	0.6	0.3	0.5	0.9
Per 10,000 registered vehicles, all buses . . . . .	Rate . . .	0.9	0.5	0.3	0.5	0.8

NA Not available.

Source: U.S. Bureau of Transportation Statistics, *National Transportation Statistics, 1997*.

## No. 1060. Truck Profile: 1980 to 1996

ITEM	Unit	1980	1990	1994	1995	1996
<b>FINANCIAL</b>						
Intercity revenue . . . . .	Mil. dol. .	(NA)	127,314	157,910	165,271	(NA)
Class I intercity motor carriers of property:						
Operating revenue, total . . . . .	Mil. dol. .	1,290	46,710	(NA)	(NA)	(NA)
Operating expenses, total . . . . .	Mil. dol. .	29,012	118,968	147,911	155,920	(NA)
<b>INVENTORY</b>						
Truck registrations, total . . . . .	1,000 . .	5,791	6,196	6,588	6,719	7,006
<b>PERFORMANCE</b>						
Vehicle miles, total . . . . .	Millions .	108,491	146,242	170,216	178,156	182,756
Average miles traveled per vehicle:						
All trucks, total . . . . .	Avg. miles	18,736	23,603	25,838	26,514	26,084
Ton-miles, intercity . . . . .	Millions .	555,000	735,000	908,000	921,000	986,000
Average fuel consumption per vehicle . . . . .	Gallons . .	3,447	3,953	4,202	4,315	4,205
Highway-user taxes, total . . . . .	Mil. dol. .	9,888	19,356	23,836	25,116	(NA)
<b>SAFETY</b>						
Occupant fatalities . . . . .	Number . .	8,748	9,306	9,574	10,216	10,522
Vehicle involvement, total (per 100 million vehicle-miles) . . . . .	Rate . . .	4.5	2.9	2.4	2.4	2.4

NA Not available.

Source: U.S. Bureau of Transportation Statistics, *National Transportation Statistics, 1997*.

### No. 1061. Trucking and Courier Services—Operating Revenue, Operating Expenses, and Equipment, by Type of Carrier: 1994 to 1996

[In millions of dollars, except as indicated. Data cover SIC group 421. Excludes private motor carriers that operate as auxiliary establishments to nontransportation companies and independent owner-operators with no paid employees]

ITEM	ALL CARRIERS			SPECIALTY CARRIERS			GENERAL CARRIERS		
	1994	1995	1996	1994	1995	1996	1994	1995	1996
Operating revenues:									
<b>Total</b> <sup>1</sup>	<b>155,713</b>	<b>161,806</b>	<b>172,743</b>	<b>45,034</b>	<b>49,139</b>	<b>52,464</b>	<b>110,679</b>	<b>112,667</b>	<b>120,279</b>
Motor carrier	148,002	153,881	163,786	41,078	44,969	47,883	106,924	108,912	115,903
Local trucking	43,592	48,731	52,301	23,420	27,181	29,045	20,172	21,550	23,256
Long-distance trucking	104,410	105,150	111,485	17,658	17,788	18,838	86,752	87,362	92,647
Operating expenses:									
<b>Total</b>	<b>145,216</b>	<b>151,628</b>	<b>162,825</b>	<b>41,052</b>	<b>44,556</b>	<b>47,685</b>	<b>104,164</b>	<b>107,072</b>	<b>115,140</b>
Annual payroll	43,544	46,478	49,432	10,151	11,254	12,008	33,393	35,224	37,424
Employer contrib. to soc. sec. and other benefits	12,025	12,666	13,020	2,429	2,536	2,699	9,596	10,130	10,321
Purchased fuels	12,114	12,051	13,667	2,880	3,151	3,497	9,234	8,900	10,170
Purchased transportation	28,222	28,757	30,979	7,573	7,449	8,036	20,649	21,308	22,943
Lease and rental	2,664	2,794	2,970	736	738	767	1,928	2,056	2,203
Insurance	5,517	5,638	5,864	1,783	1,888	1,892	3,734	3,750	3,972
Maintenance and repair	8,936	8,876	9,281	2,679	2,894	3,107	6,257	5,982	6,174
Depreciation	8,085	8,702	9,186	2,436	2,882	3,028	5,649	5,820	6,158
Taxes and licenses	3,356	3,410	3,517	807	893	922	2,549	2,517	2,595
Drug and alcohol testing and rehabilitation programs	80	96	102	24	28	28	56	68	74
Other operating expenses	20,673	22,160	24,807	9,554	10,843	11,701	11,119	11,317	13,106
Equipment (1,000 units): <sup>2</sup>									
Trucks	287	295	(NA)	147	154	(NA)	140	141	(NA)
Truck-tractors	681	758	(NA)	133	150	(NA)	548	608	(NA)
Trailers (full and semi)	1,456	1,583	(NA)	212	222	(NA)	1,244	1,361	(NA)

NA Not available. <sup>1</sup> Includes other revenue not shown separately. <sup>2</sup> Represents revenue generating equipment as of December 31, 1994. Includes owned and leased equipment.

Source: U.S. Bureau of the Census, *Current Business Reports, 1995 Motor Freight Transportation and Warehousing Survey*.

### No. 1062. Class I Intercity Motor Carriers of Property, by Carrier: 1980 to 1993

[See headnote, Table 1056. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user. Minus sign (-) indicates loss]

ITEM	Unit	1980	1985	1989	1990	1991	1992	1993
<b>Common carriers, gen. freight reporting</b>	<b>Number</b>	<b>298</b>	<b>237</b>	<b>192</b>	<b>191</b>	<b>201</b>	<b>208</b>	<b>220</b>
Number of employees, average	1,000	413	376	461	465	474	490	511
Compensation of employees	Mil. dol	9,803	10,217	12,854	13,556	14,032	14,967	15,987
Operating revenues	Mil. dol	19,725	22,314	27,405	29,682	31,619	34,594	37,600
Operating expenses	Mil. dol	18,870	21,037	26,242	28,340	30,269	32,977	35,729
Ordinary income before taxes	Mil. dol	701	1,198	988	1,146	1,180	1,453	1,641
Net income	Mil. dol	-72	658	659	746	749	878	985
Intercity vehicle-miles	Million	6,547	5,760	6,557	6,804	7,615	8,674	9,770
Intercity revenue freight carried	Mil. ton	178	136	145	157	169	196	225
<b>Common carriers, other reporting</b> <sup>1</sup>	<b>Number</b>	<b>441</b>	<b>397</b>	<b>337</b>	<b>322</b>	<b>295</b>	<b>330</b>	<b>304</b>
Number of employees, average	1,000	101	76	84	87	74	88	83
Compensation of employees	Mil. dol	1,931	1,783	2,105	2,236	1,920	2,358	2,333
Operating revenues	Mil. dol	8,792	7,962	8,321	9,042	7,761	9,367	9,315
Operating expenses	Mil. dol	8,426	7,752	8,081	8,702	7,509	8,942	8,875
Ordinary income before taxes	Mil. dol	230	123	117	198	122	309	354
Net income	Mil. dol	14	94	88	153	85	221	250
Intercity vehicle-miles	Million	6,889	5,714	6,320	6,566	5,372	6,696	6,295
Intercity revenue freight carried	Mil. ton	324	303	278	302	253	298	296
<b>Contract carrier, other</b> <sup>1</sup>	<b>Number</b>	<b>69</b>	<b>64</b>	<b>77</b>	<b>87</b>	<b>83</b>	<b>113</b>	<b>115</b>
Number of employees, average	1,000	14	22	29	34	34	42	40
Compensation of employees	Mil. dol	336	630	893	1,082	989	1,325	1,321
Operating revenues	Mil. dol	1,272	1,942	2,946	3,486	3,644	4,501	4,581
Operating expenses	Mil. dol	1,207	1,807	2,888	3,422	3,547	4,333	4,367
Ordinary income before taxes	Mil. dol	48	103	15	3	53	127	181
Net income	Mil. dol	28	69	3	-13	20	80	123
Intercity vehicle-miles	Million	934	1,227	1,826	2,044	2,339	2,933	2,913
Intercity revenue freight carried	Mil. ton	37	41	80	80	76	110	99
<b>Carriers of household goods reporting</b>	<b>Number</b>	<b>28</b>	<b>40</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>32</b>	<b>31</b>
Number of employees, average	1,000	10	11	12	13	12	12	10
Compensation of employees	Mil. dol	157	240	276	296	298	291	252
Operating revenues	Mil. dol	1,824	2,684	3,114	3,152	3,026	3,180	3,274
Intercity freight	Mil. dol	1,676	2,388	2,703	2,702	2,318	2,787	2,834
Operating expenses	Mil. dol	1,781	2,635	3,059	3,129	2,973	3,159	3,198
Ordinary income before taxes	Mil. dol	74	79	41	12	27	-1	48
Net income	Mil. dol	42	54	28	8	17	8	62
Power units, intercity service	1,000	25	35	(NA)	(NA)	(NA)	(NA)	(NA)
Intercity vehicle-miles	Million	969	1,171	1,229	1,366	1,086	1,136	949
Intercity revenue freight carried	Mil. ton	5	7	7	8	7	9	5

NA Not available. <sup>1</sup> Other than general freight.

Source: Through 1992, U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 2, annual; thereafter, U.S. Bureau of Transportation Statistics, *National Transportation Statistics*, annual.



## No. 1063. Railroads, Class I—Summary: 1980 to 1996

[As of Dec. 31, or calendar year data, except as noted. Compiled from annual reports of class I railroads only except where noted. Beginning 1985, financial data are not comparable with earlier years due to change in method of accounting for track and related structures. Minus sign (-) indicates deficit]

ITEM	Unit	1980	1985	1990	1991	1992	1993	1994	1995	1996
Class I line-hauling companies <sup>1</sup>	Number.	40	23	14	14	13	13	13	11	10
Employees <sup>2</sup>	1,000 . . .	458	302	216	206	197	193	190	188	182
Compensation . . . . .	Mil. dol . . .	11,318	10,563	8,654	8,695	8,753	8,732	8,874	9,070	9,202
Average per hour . . . . .	Dollars . . .	10.2	14.3	15.8	16.8	17.8	17.9	18.5	19.0	20.1
Average per year . . . . .	Dollars . . .	24,995	34,991	39,987	42,131	44,336	45,354	46,714	48,188	50,611
Mileage:										
Railroad line owned <sup>3</sup>	1,000 . . .	178	162	146	144	141	140	138	137	136
Railroad track owned <sup>4</sup>	1,000 . . .	292	269	244	242	238	236	232	228	228
Equipment:										
Locomotives in service . . . . .	Number.	28,094	22,548	18,835	18,344	18,004	18,161	18,505	18,812	19,269
Average horsepower . . . . .	1,000 lb . . .	2,302	2,469	2,665	2,714	2,750	2,777	2,832	2,927	2,985
Cars in service:										
Passenger train . . . . .	Number.	4,347	2,502	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Freight train <sup>5</sup> . . . . .	1,000 . . .	1,711	1,422	1,212	1,190	1,173	1,173	1,192	1,219	1,241
Freight cars <sup>6</sup> . . . . .	1,000 . . .	1,168	867	659	633	605	587	591	583	571
Income and expenses:										
Operating revenues . . . . .	Mil. dol . . .	28,258	27,586	28,370	27,845	28,349	28,825	30,809	32,279	32,693
Operating expenses . . . . .	Mil. dol . . .	26,355	25,225	24,652	28,061	25,325	24,517	25,511	27,897	26,331
Net revenue from operations . . . . .	Mil. dol . . .	1,902	2,361	3,718	-216	3,024	4,308	5,298	4,383	6,361
Income before fixed charges . . . . .	Mil. dol . . .	2,897	3,393	4,627	928	4,127	4,990	6,184	5,016	7,055
Provision for taxes <sup>7</sup> . . . . .	Mil. dol . . .	592	660	1,088	-156	1,092	1,810	1,935	1,556	2,056
Ordinary income . . . . .	Mil. dol . . .	1,129	1,788	1,961	-91	2,025	2,258	3,315	2,439	3,885
Net income . . . . .	Mil. dol . . .	1,129	1,882	1,977	-281	1,800	2,240	3,298	2,324	3,885
Net railway operating income . . . . .	Mil. dol . . .	1,339	1,746	2,648	-37	1,955	2,517	3,392	2,858	4,338
Total taxes <sup>8</sup> . . . . .	Mil. dol . . .	2,585	3,169	3,780	2,649	3,732	4,343	4,512	4,075	4,669
Indus. return on net investment . . . . .	Percent . . .	4.2	4.6	8.1	1.3	6.3	7.1	9.4	7.0	9.4
Gross capital expenditures . . . . .	Mil. dol . . .	3,238	4,485	3,591	3,439	3,680	4,504	5,035	5,720	6,550
Balance sheet:										
Total property investment . . . . .	Mil. dol . . .	43,923	64,241	70,348	71,622	72,677	75,217	78,384	86,186	90,046
Accrued depreciation and amortization . . . . .	Mil. dol . . .	10,706	19,756	22,222	23,057	23,378	23,892	24,200	23,439	23,932
Net investment . . . . .	Mil. dol . . .	33,419	46,237	48,126	48,565	49,299	51,325	54,184	62,746	66,113
Shareholder's equity . . . . .	Mil. dol . . .	19,860	27,605	23,662	22,603	23,115	24,658	27,389	31,419	32,255
Net working capital . . . . .	Mil. dol . . .	922	1,084	-3505	-3988	-4372	-3295	-3059	-2634	-2,942
Cash dividends . . . . .	Mil. dol . . .	610	1,444	2,074	915	830	1,054	1,398	1,518	3,937
AMTRAK passenger traffic:										
Passenger revenue . . . . .	Mil. dol . . .	(NA)	604.9	941.9	962.3	933.2	777.6	717.9	734.1	756.2
Revenue passengers carried . . . . .	1,000 . . .	21,303	20,945	22,382	21,693	21,678	21,511	21,239	20,349	19,700
Revenue passenger miles . . . . .	Million . . .	4,645	4,977	6,125	6,249	6,181	6,068	5,869	5,401	5,066
Averages:										
Revenue per passenger . . . . .	Dollars . . .	(NA)	28.9	42.1	44.4	43.0	36.1	33.8	36.1	38.4
Revenue per passenger mile . . . . .	Cents . . .	(NA)	12.2	15.4	15.4	15.1	12.8	12.2	13.6	14.9
Trip per passenger . . . . .	Miles . . .	218.1	237.6	273.7	288.0	285.1	277.7	(NA)	(NA)	(NA)
Freight service:										
Freight revenue . . . . .	Mil. dol . . .	26,200	26,688	24,471	26,949	27,508	27,991	29,931	31,356	31,889
Per ton-mile . . . . .	Cents . . .	2.8	3.0	2.7	2.6	2.6	2.5	2.5	2.4	2.4
Per ton originated . . . . .	Dollar . . .	17.7	20.2	19.3	19.5	19.7	20.0	20.4	20.2	19.8
Revenue-tons originated . . . . .	Million . . .	1,492	1,320	1,425	1,383	1,399	1,397	1,470	1,550	1,611
Revenue-tons carried . . . . .	Million . . .	2,434	1,985	2,024	1,987	2,022	2,047	2,185	2,322	2,229
Tons carried one mile . . . . .	Billion . . .	919	877	1,034	1,039	1,067	1,109	1,201	1,306	1,356
Average miles of road operated . . . . .	1,000 . . .	179	161	133	130	126	124	123	125	127
Revenue ton-miles per mile of road . . . . .	1,000 . . .	5,133	5,446	7,763	8,001	8,451	8,965	9,735	10,439	10,704
Revenue per ton-mile . . . . .	Cents . . .	3	3	3	3	3	3	2	2	2
Train miles . . . . .	Million . . .	428	347	380	375	390	405	441	458	469
Net ton-miles per train-mile <sup>9</sup> . . . . .	Number.	2,175	2,574	2,755	2,796	2,759	2,759	2,746	2,870	2,912
Net ton-miles per loaded car-mile <sup>9</sup> . . . . .	Number.	63.5	62.7	69.1	71.6	70.9	71.6	72.2	73.6	75.0
Train-miles per train-hour . . . . .	Miles . . .	18.2	21.9	23.7	23.7	23.7	23.1	22.4	21.8	22.0
Haul per ton, U.S. as a system . . . . .	Miles . . .	616	664	726	751	763	794	817	843	842
Accident: <sup>10</sup>										
All railroads . . . . .	Number.	63,663	35,340	26,440	24,662	22,553	20,400	18,038	15,586	13,108
Persons killed . . . . .	Number.	1,417	1,036	1,297	1,194	1,170	1,279	1,226	1,146	1,023
Persons injured . . . . .	Number.	62,246	34,304	25,143	23,468	21,383	19,121	16,812	14,440	12,085
Class I railroads . . . . .	Number.	57,755	29,388	20,450	18,728	17,055	15,058	12,428	10,565	8,000
Persons killed . . . . .	Number.	1,344	955	1,166	1,069	1,047	1,124	1,080	994	818
Persons injured . . . . .	Number.	56,411	28,433	19,284	17,659	16,008	13,934	11,348	9,571	7,182

NA Not available. <sup>1</sup> See text, Section 21, for definition of Class I. <sup>2</sup> Average midmonth 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. 1064. Railroads, Class I-Cars of Revenue Freight Loaded, 1970 to 1997, and by Commodity Group, 1996 and 1997

[In thousands. Figures are 52-week totals. N.e.c.= Not elsewhere classified]

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1996	1997		1996	1997
1970 . . .	27,160	1,450	Coal . . . . .	6,694	6,709	Metals and products . . . . .	579	600
1975 . . .	23,217	1,308	Metallic ores . . . . .	443	360	Stone, clay, and glass products . . . . .	477	483
1980 . . .	22,598	1,661	Chemicals, allied products . . . . .	1,524	1,578	Crushed stone, gravel, sand . . . . .	679	687
1985 . . .	19,574	2,863	Grain . . . . .	1,235	1,200	Nonmetallic minerals, n.e.c . . . . .	480	466
1990 . . .	16,177	(NA)	Motor vehicles and equipment . . . . .	2,003	1,050	Waste and scrap materials . . . . .	487	489
1993 . . .	15,911	(NA)	Pulp, paper, allied products . . . . .	527	525	Lumber, wood products, n.e.c. <sup>1</sup> . . . . .	268	275
1994 . . .	16,763	(NA)	Primary forest products . . . . .	352	344	Coke . . . . .	262	242
1995 . . .	16,706	(NA)	Food and kindred prod., n.e.c. . . . .	415	412	Petroleum product . . . . .	276	291
1996 . . .	16,521	(NA)	Grain mill products . . . . .	490	505	All other carloads . . . . .	328	346
1997,prel	16,564	(NA)						

NA Not available. <sup>1</sup> Excludes furniture.

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

### No. 1065. Railroads, Class I Line-Haul-Revenue Freight Originated, by Commodity Group: 1980 to 1996

COMMODITY GROUP	1980	1985	1990	1991	1992	1993	1994	1995	1996
<b>Carloads (1,000) <sup>1</sup></b>	<b>22,223</b>	<b>19,501</b>	<b>21,401</b>	<b>20,868</b>	<b>21,205</b>	<b>21,683</b>	<b>23,179</b>	<b>23,726</b>	<b>24,159</b>
Coal . . . . .	5,789	5,684	5,912	5,683	5,572	5,310	5,681	6,095	6,746
Farm products . . . . .	1,866	1,494	1,689	1,605	1,646	1,636	1,459	1,692	1,530
Chemicals, allied products . . . . .	1,322	1,296	1,531	1,556	1,568	1,606	1,695	1,642	1,639
Food and kindred products . . . . .	1,767	1,224	1,307	1,316	1,352	1,380	1,381	1,377	1,302
Nonmetallic minerals <sup>2</sup> . . . . .	1,474	1,196	1,202	1,075	1,029	1,044	1,138	1,159	1,176
Transportation equipment . . . . .	1,004	1,202	1,091	1,068	1,181	1,355	1,448	1,473	1,442
Lumber and wood products <sup>3</sup> . . . . .	1,384	948	780	716	726	710	771	719	682
Pulp, paper, allied products . . . . .	954	703	611	616	618	620	651	628	589
Petroleum and coal products . . . . .	596	491	573	533	583	584	602	596	567
Stone, clay, and glass products . . . . .	776	551	539	479	483	487	512	516	491
Metallic ores . . . . .	1,258	511	508	499	489	443	440	463	443
Primary metal products . . . . .	756	449	477	469	481	528	579	575	597
Waste and scrap materials . . . . .	632	429	439	433	487	558	604	623	605
Machinery, exc. electrical . . . . .	77	35	39	39	39	37	40	41	40
Fabricated metal products <sup>4</sup> . . . . .	72	31	31	34	32	37	37	32	29
<b>Tons (mil.) <sup>1</sup></b>	<b>1,492</b>	<b>1,320</b>	<b>1,425</b>	<b>1,383</b>	<b>1,399</b>	<b>1,397</b>	<b>1,470</b>	<b>1,550</b>	<b>1,611</b>
Coal . . . . .	522	538	579	560	554	534	574	627	705
Farm products . . . . .	156	127	147	144	149	147	131	154	142
Chemicals, allied products . . . . .	108	106	126	127	130	134	142	138	139
Nonmetallic minerals <sup>2</sup> . . . . .	125	108	109	99	94	96	106	110	113
Food and kindred products . . . . .	92	74	81	83	86	88	88	91	87
Lumber and wood products <sup>3</sup> . . . . .	86	63	53	48	50	49	54	51	49
Metallic ores . . . . .	105	47	47	45	45	41	40	44	42
Stone, clay, and glass products . . . . .	54	44	44	39	40	40	42	43	42
Petroleum and coal products . . . . .	38	33	40	37	41	41	43	43	42
Primary metal products . . . . .	53	34	38	37	39	43	47	47	49
Pulp, paper, allied products . . . . .	42	36	33	33	34	34	37	36	33
Waste and scrap materials . . . . .	34	26	28	27	30	35	37	38	38
Transportation equipment . . . . .	24	27	23	22	25	29	30	30	29
Machinery, exc. electrical . . . . .	2	1	1	1	1	1	1	1	1
Fabricated metal products <sup>4</sup> . . . . .	2	1	1	1	1	1	1	1	1
<b>Gross revenue (mil. dol.) <sup>1</sup></b>	<b>26,938</b>	<b>28,225</b>	<b>29,775</b>	<b>29,319</b>	<b>29,777</b>	<b>30,376</b>	<b>32,424</b>	<b>33,782</b>	<b>34,310</b>
Coal . . . . .	4,956	6,556	6,954	6,903	6,717	6,481	7,021	7,356	7,706
Chemicals, allied products . . . . .	2,946	3,342	3,933	4,043	4,123	4,277	4,520	4,553	4,660
Transportation equipment . . . . .	1,917	3,110	3,100	2,633	2,753	3,021	3,257	3,269	3,390
Farm products . . . . .	2,801	1,977	2,422	2,332	2,454	2,528	2,407	3,020	2,807
Food and kindred products . . . . .	2,837	2,256	2,188	2,254	2,308	2,336	2,427	2,464	2,378
Pulp, paper, allied products . . . . .	1,652	1,641	1,486	1,502	1,508	1,511	1,510	1,543	1,485
Lumber and wood products <sup>3</sup> . . . . .	1,543	1,525	1,390	1,282	1,342	1,324	1,421	1,385	1,409
Primary metal products . . . . .	1,332	872	979	977	970	1,021	1,114	1,199	1,254
Stone, clay, and glass products . . . . .	1,025	960	931	878	911	944	1,009	1,044	1,033
Petroleum and coal products . . . . .	865	861	918	888	943	929	967	997	1,013
Nonmetallic minerals <sup>2</sup> . . . . .	948	949	885	824	812	818	862	875	895
Waste and scrap materials . . . . .	513	446	504	515	558	613	655	685	702
Metallic ores . . . . .	597	403	408	400	409	385	378	394	382
Machinery, exc. electrical . . . . .	176	72	67	62	61	59	65	69	70
Fabricated metal products <sup>4</sup> . . . . .	110	48	42	48	45	50	50	44	41

<sup>1</sup> Includes commodity groups and small packaged freight shipments, not shown separately. <sup>2</sup> Except fuels. <sup>3</sup> Except furniture. <sup>4</sup> Except ordnance, machinery, and transport.

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

**No. 1066. Railroad Freight—Producer Price Indexes: 1980 to 1997**

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

COMMODITY	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997
<b>Total railroad freight . . . . .</b>	<b>75.9</b>	<b>99.9</b>	<b>107.5</b>	<b>109.3</b>	<b>109.9</b>	<b>110.9</b>	<b>111.8</b>	<b>111.7</b>	<b>111.5</b>	<b>112.1</b>
Coal . . . . .	75.8	100.0	104.2	105.2	105.9	106.6	107.5	107.3	106.7	107.0
Farm products . . . . .	75.6	99.0	110.4	111.4	111.1	113.7	114.5	115.6	115.7	120.4
Food products . . . . .	75.2	100.0	105.4	108.1	108.7	109.0	111.0	111.2	108.5	107.6
Metallic ores . . . . .	74.5	100.2	106.5	106.7	106.6	106.7	104.6	101.9	103.5	103.4
Chemicals or allied products . . . . .	75.6	100.1	111.7	113.5	115.6	116.2	117.6	120.0	119.2	119.6
Nonmetallic minerals . . . . .	72.2	100.1	111.7	115.9	117.6	119.3	119.7	119.5	119.2	120.6
Wood or lumber products . . . . .	72.7	100.0	107.5	108.6	108.8	109.7	110.0	110.0	112.8	111.0
Transportation equipment . . . . .	81.7	100.0	107.5	109.7	110.8	111.1	115.3	112.8	114.0	113.2
Pulp, paper, or allied products . . . . .	76.7	100.0	108.0	111.5	111.8	112.6	111.1	108.7	(NA)	111.2
Primary metal products . . . . .	77.8	99.7	113.1	116.1	117.5	116.3	115.6	115.6	115.4	114.0
Clay, concrete, glass, or stone products . . . . .	74.2	100.0	114.1	117.1	116.5	117.9	120.1	121.4	121.1	119.8
Petroleum and coal products . . . . .	76.1	99.7	109.2	111.6	109.5	110.6	114.8	114.3	114.1	120.5

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.**No. 1067. Petroleum Pipeline Companies—Characteristics: 1980 to 1996**

[Covers pipeline companies operating in interstate commerce and subject to jurisdiction of Federal Energy Regulatory Commission]

ITEM	Unit	1980	1985	1990	1991	1992	1993	1994	1995	1996
Total miles of pipeline . . . . .	1,000 . . . . .	173	171	168	172	164	164	159	177	169
Gathering lines . . . . .	1,000 . . . . .	36	35	32	31	29	29	30	35	32
Trunk lines . . . . .	1,000 . . . . .	136	136	136	141	136	135	128	142	137
Total deliveries . . . . .	Mil. bbl. . . . .	10,600	10,745	11,378	11,496	11,447	12,219	12,159	12,862	12,635
Crude oil . . . . .	Mil. bbl. . . . .	6,405	6,239	6,563	6,685	6,541	6,708	6,785	6,952	6,975
Products . . . . .	Mil. bbl. . . . .	4,195	4,506	4,816	4,811	4,906	5,511	5,373	5,910	5,660
Total trunk line traffic . . . . .	Bil. bbl-miles . . . . .	3,405	3,342	3,500	3,470	3,428	3,051	3,566	3,619	3,734
Crude oil . . . . .	Bil. bbl-miles . . . . .	1,948	1,842	1,891	1,899	1,853	1,382	1,823	1,899	1,912
Products . . . . .	Bil. bbl-miles . . . . .	1,458	1,500	1,609	1,571	1,575	1,669	1,743	1,720	1,822
Carrier property value . . . . .	Mil. dol. . . . .	19,752	21,605	25,828	26,943	27,106	31,625	26,363	27,460	28,043
Operating revenues . . . . .	Mil. dol. . . . .	6,356	7,461	7,149	6,798	7,154	6,931	7,281	7,711	7,321
Net income . . . . .	Mil. dol. . . . .	1,912	2,431	2,340	1,788	2,061	1,763	2,148	2,670	2,372

Source: PennWell Publishing Co., Houston, Texas, *Oil & Gas Journal*, annual (copyright).**No. 1068. Major Interstate Natural Gas Pipeline Companies—Summary: 1985 to 1991**

[The classification of A and B interstate natural gas pipeline companies changed to major companies and nonmajor companies. Major natural gas pipeline companies are those whose combined sales for resale and natural gas transported or stored for a fee exceed 50 billion cubic feet. They account for more than 85 percent of all interstate natural gas]

ITEM	Unit	1985	1986	1987	1988	1989	1990	1991
Sales . . . . .	Tril. cu. ft. . . . .	11.3	7.8	6.5	6.4	5.6	4.5	3.9
Residential . . . . .	Tril. cu. ft. . . . .	0.3	0.2	0.2	0.3	0.1	0.2	0.2
Commercial, industrial . . . . .	Tril. cu. ft. . . . .	1.1	0.5	0.4	0.5	0.5	0.4	0.3
For resale . . . . .	Tril. cu. ft. . . . .	9.9	7.1	5.8	5.6	4.9	3.9	3.3
Operating revenues . . . . .	Mil. dol. . . . .	49,106	33,859	27,565	27,501	25,695	22,574	21,420
From sales <sup>1</sup> . . . . .	Mil. dol. . . . .	44,996	29,508	22,942	22,512	19,786	15,981	14,135
From transportation of gas of others . . . . .	Mil. dol. . . . .	2,272	3,027	3,622	4,059	4,959	5,505	6,117
Other . . . . .	Mil. dol. . . . .	1,838	1,325	1,002	929	950	1,088	1,167
Operation, maintenance expenses . . . . .	Mil. dol. . . . .	42,528	27,460	21,794	22,742	20,829	17,446	17,335
Production . . . . .	Mil. dol. . . . .	36,739	22,208	16,955	17,625	15,257	12,124	11,663
Storage . . . . .	Mil. dol. . . . .	418	420	409	436	458	417	460
Transmission . . . . .	Mil. dol. . . . .	3,409	2,984	2,598	2,589	2,589	2,720	2,880
Distribution . . . . .	Mil. dol. . . . .	132	80	80	127	94	112	133
Administrative, general, and other . . . . .	Mil. dol. . . . .	1,830	1,768	1,752	1,966	2,430	2,074	2,048
Pipeline mileage . . . . .	1,000 . . . . .	230.2	217.3	249.5	246.9	253.2	230.2	249.5
Transmission lines . . . . .	1,000 . . . . .	189.7	184.6	181.2	191.6	194.1	195.5	146.8
Field lines . . . . .	1,000 . . . . .	69.6	64.5	62.9	55.5	55.1	54.0	50.7
Storage . . . . .	1,000 . . . . .	4.8	4.6	4.3	4.8	4.8	5.0	4.7

<sup>1</sup> Includes other ultimate customers not shown separately.Source: U.S. Energy Information Administration, *Statistics of Interstate Natural Gas Pipeline Companies*, annual.