## Missouri

# Transportation Profile



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### Missouri Fast Facts 2000

#### Transportation System Extent

All public roads: 123,039 miles

Interstate: 1,178 miles Road bridges: 23,388

Class I railroad trackage: 3,616 miles

Inland waterways: 1,033 miles

Public use airports: 129 (13 certificated for

air carrier operations)<sup>1</sup>

#### Vehicles and Conveyances

Automobiles registered: 2.7 million

Light trucks registered: 1.7 million

Heavy trucks registered: 49,000

Buses registered: 13,000

Motorcycles registered: 61,000

Rail transit systems: 1 light rail

Numbered boats: 334,000

#### Geographic

Land area: 68,886 sq. miles (rank: 18)

Percent of land area owned by federal

government: 4.7<sup>2</sup> (rank: 30)

Persons per square mile: 81.2 (rank: 27)

Highest point: Taum Sauk Mountain

(1,772 ft.)

Lowest point: St. Francis River (230 ft.)

<sup>5</sup>1990

#### Political Subdivisions

Counties: 115

Municipal governments: 944<sup>3</sup> Congressional districts: 9<sup>4</sup>

#### Demographic

Population: 5,595,211 (rank: 17)

Percent urban population: 69<sup>5</sup> (rank: 26)

#### Socioeconomic

Gross state product: \$170 billion<sup>2</sup> (rank: 18)

Civilian labor force: 2.9 million<sup>2</sup> (rank: 17)

Median household income: \$47,462

(rank: 11)

#### Commuting (percent of workers)

Car, truck, or van—drove alone: 81.2

Car, truck, or van—carpooled: 10.8

Public transportation (including taxi): 1.2

Walked: 2.1

Other means: 1.1

Worked at home: 3.5

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 $<sup>^{1}2002</sup>$ 

<sup>&</sup>lt;sup>2</sup>1999

<sup>&</sup>lt;sup>3</sup>1997

<sup>&</sup>lt;sup>4</sup>Apportionment based on 2000 census

The Bureau of Transportation Statistics (BTS) presents a profile of transportation in Missouri—part of a series covering the 50 states and the District of Columbia. This collection of transportation information from BTS, other federal government agencies, and other national sources provides a picture of the state's infrastructure, freight movement and passenger travel, safety, vehicles, economy and finance, and energy and environment.

All tables do not necessarily appear in every state profile report due to geographic and other characteristics. For example, border-crossing data are given only for states bordering Canada and Mexico. Data source and accuracy profiles are provided at the end of the report.

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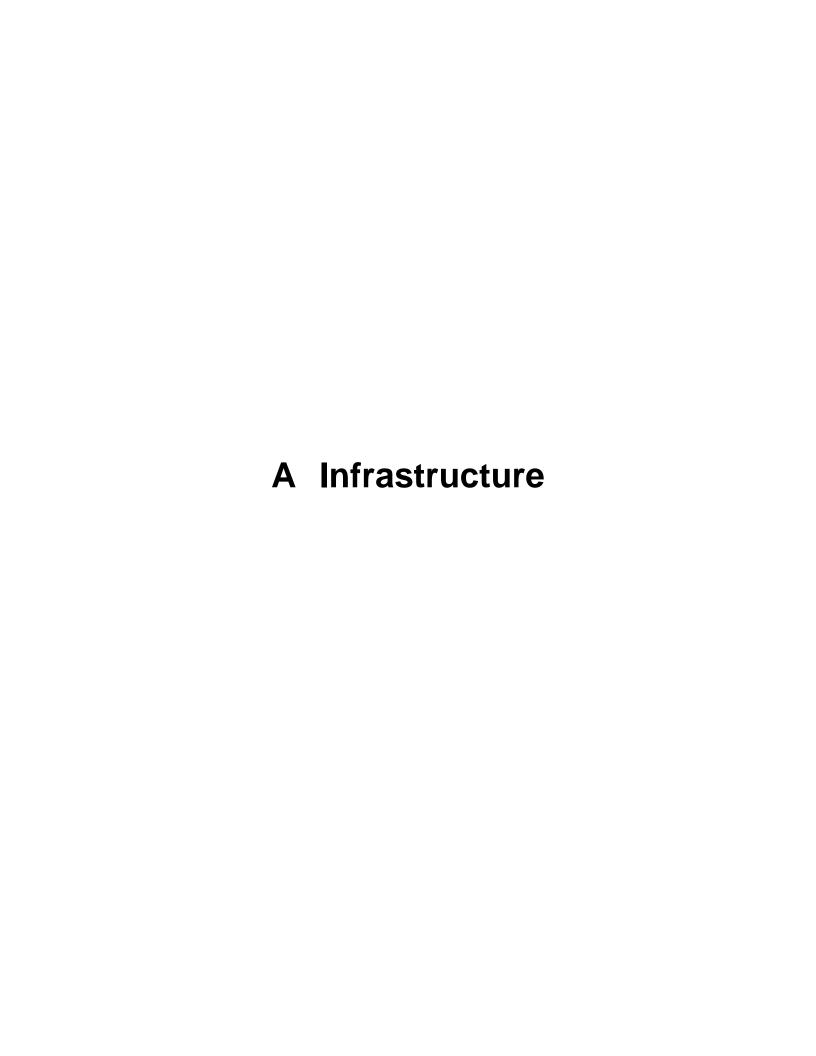


Table 1-1: Missouri Public Road Length, Miles by Functional System

	1995	1996	1997	1998	1999	2000
Total rural and urban	122,616	122,748	122,766	122,847	122,831	123,039
Rural	106,306	106,333	106,378	106,480	106,461	106,669
Interstate	810	809	809	806	806	806
Other principal arterial	3,043	3,052	3,051	3,100	3,105	3,105
Minor arterial	3,399	3,398	3,397	3,447	3,446	3,446
Major arterial	18,015	18,007	18,007	17,911	17,914	17,914
Minor collector	5,454	5,454	5,454	5,451	5,452	5,452
Local	75,585	75,613	75,660	75,765	75,738	75,946
Urban	16,310	16,415	16,388	16,367	16,370	16,370
Interstate	368	369	369	372	372	372
Other freeways and expressways	282	288	288	320	320	320
Other principal arterial	1,109	1,115	1,119	1,046	1,053	1,053
Minor arterial	1,725	1,729	1,737	1,787	1,782	1,782
Collector	1,603	1,606	1,610	1,609	1,612	1,612
Local	11,223	11,308	11,265	11,233	11,231	11,231

**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Washington, DC: annual editions, table HM-20, available at http://www.fhwa.dot.gov/ohim/hs00/hm20.htm as of Feb. 1, 2002.

Table 1-2: Missouri Public Road Length, Miles by Ownership: 2000

	National Highway System	Other federal-aid highway	Nonfederal- aid highway	Total
Total	4,376	26.034	92,627	123,037
State highway agency	4,342	22,604	5.461	32,407
County	, 0	652	70,482	71,134
Town, township, municipal	34	2,775	15,749	18,558
Other jurisdiction <sup>1</sup>	0	2	0	2
Federal agency <sup>2</sup>	0	1	935	936

<sup>&</sup>lt;sup>1</sup> Includes state park, state toll, other state agency, other local agency, and roadways not identified by ownership.

**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Washington, DC: annual editions, table HM-14, available at http://www.fhwa.dot.gov/ohim/hs00/hm14.htm as of Feb. 1, 2002.

<sup>&</sup>lt;sup>2</sup> Roadways in federal parks, forests, and reservations that are not part of the state and local highway systems.

Table 1-3: Missouri Toll Bridges, Tunnels, and Ferries: 2001

Facility	Financing or operating authority	Location	Length in miles	Toll collection direction	Electronic collection system
Noninterstate					
McKinley	City of Venice	From Venice, IL (across Mississippi River) to St. Louis, MO	1.2	Both ways	No
St. Francisville	Wayland Special Road District	From St. Francisville, MO (across Des Moines River) to Vincennes, IA	0.3	Both ways	No
Lake Bridge	Lake of the Ozarks Community Bridge Corporation	From Business Route 54 (across the Lake of Ozarks) to Route MM		Both ways	No
Vehicular toll ferries					
Akers	Dee Maggard	From Route K (across Current River) to Akers, MO	U	Both ways	No
Golden Eagle	Calhoun-Saint Charles Ferry Co.	From Kampville, MO (across Mississippi River) to Golden Eagle, IL	U	Both ways	No
Canton-Meyer	Allen Blackmore, Canton, MO	From Canton, MO (across Mississippi River) to Meyer, IL	U	Both ways	No
Winfield	Steven and Vincent Baalman	From Winfield, MO (across Mississippi River) to Near Batchtown, IL	U	Both ways	No
Ste. Genevieve	Modoc Ferry Inc.	From Ste. Genevieve, MO (across Mississippi River) to Prairie Du Rocker, IL	U	Both ways	No
Mississippi County Ferry	Mississippi County	From Dorena, MO (across Mississippi River) to Hickman, KY	U	Both ways	No

**KEY:** U = data are unavailable.

**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, *Toll Facilities in the United States: Bridges-Roads-Tunnels-Ferries,* Washington, DC: June 2001, available at http://www.fhwa.dot.gov/ohim/tollpage.htm as of Feb. 18, 2002.

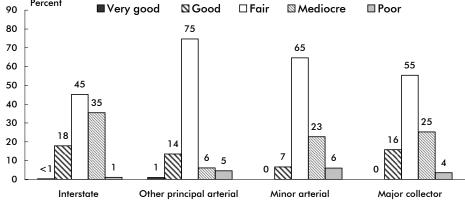
Table 1-4: Missouri Road Condition by Functional System -- Rural (Miles)

	1995	1996	1997	1998	1999	2000
Interstate (total reported)	810	809	809	806	807	806
Very good	38	38	40	7	3	3
Good	379	379	365	230	178	144
Fair	300	299	270	260	328	364
Mediocre	91	91	116	292	287	286
Poor	2	2	18	1 <i>7</i>	11	9
Not reported	0	0	0	0	0	0
Other principal arterial (total reported)	3,030	3,037	3,043	3,049	3,092	3,092
Very good	77	77	54	61	21	31
Good	868	869	850	562	498	419
Fair	2,029	2,034	2,008	2,182	2,331	2,310
Mediocre	51	51	94	218	199	189
Poor	5	6	37	26	43	143
Not reported	13	15	10	51	14	13
Minor arterial (total reported)	3,399	3,398	3,397	3,446	3,446	3,446
Very good	35	36	38	0	0	0
Good	1,142	1,146	1,169	685	540	228
Fair	2,114	2,106	2,080	2,347	2,421	2,228
Mediocre	108	110	110	402	439	783
Poor	0	0	0	12	46	207
Not reported	0	0	0	0	0	0
Major collector (total reported)	N	Ν	Ν	N	N	17,498
Very good	Ν	Ν	N	Ν	Ν	0
Good	Ν	Ν	N	Ν	Ν	2,768
Fair	Ν	Ν	Ν	Ν	Ν	9,693
Mediocre	Ν	Ν	Ν	Ν	Ν	4,416
Poor	Ν	Ν	Ν	Ν	Ν	621
Not reported	Ν	Ν	Ν	Ν	Ν	N

**KEY**: N = data do not exist.

**NOTE:** In 2000, the Federal Highway Administration began reporting road condition for rural major collectors using the International Roughness Index, if available. In prior years, data were only available using the Present Serviceability Rating.

Figure 1-1: Rural Road Conditions in Missouri: 2000



**NOTE FOR DATA ON THIS PAGE:** Road condition is based on measured pavement roughness using the International Roughness Index (IRI). IRI is a measure of surface condition. A comprehensive measure of pavement condition would require data on other pavement distresses such as rutting, cracking, and faulting.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Washington, DC: annual editions, tables HM-63 and HM-64, available at http://www.fhwa.dot.gov/ as of Feb. 1, 2002.

Table 1-5: Missouri Road Condition by Functional System -- Urban (Miles)

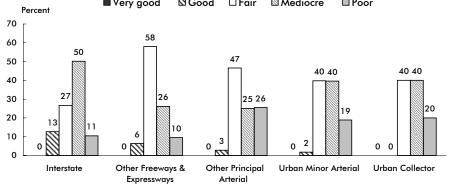
	1995	1996	1997	1998	1999	2000
Interstate (total reported)	368	369	370	371	370	371
Very good	4	4	5	1	0	0
Good	93	94	104	51	47	47
Fair	153	153	126	128	119	99
Mediocre	102	102	112	163	175	186
Poor	16	16	23	28	29	39
Not reported	0	0	0	0	0	0
Other freeways and expressways (total reported)	254	259	270	314	313	314
Very good	0	0	0	0	0	0
Good	23	24	25	29	21	20
Fair	201	202	210	206	213	182
Mediocre	21	23	28	66	73	82
Poor	9	10	7	13	6	30
Not reported	28	29	18	5	6	6
Other principal arterial (total reported)	634	639	653	669	670	674
Very good	0	0	1	0	0	0
Good	40	42	49	27	21	19
Fair	413	417	391	399	363	314
Mediocre	123	122	149	164	174	169
Poor	58	58	63	79	112	172
Not reported	475	476	466	377	384	379
Urban minor arterial (total reported)	N	Ν	N	Ν	Ν	498
Very good	N	N	Ν	Ν	Ν	0
Good	N	Ν	Ν	Ν	Ν	9
Fair	N	N	Ν	Ν	Ν	198
Mediocre	N	N	Ν	Ν	Ν	197
Poor	N	Ν	Ν	Ν	Ν	94
Not reported	N	N	N	Ν	Ν	Ν
Urban collector (total reported)	Ν	N	Ν	Ν	Ν	10
Very good	N	N	Ν	Ν	Ν	0
Good	N	N	Ν	Ν	Ν	0
Fair	N	N	Ν	Ν	Ν	4
Mediocre	N	N	Ν	Ν	Ν	4
Poor	N	N	Ν	Ν	Ν	2
Not reported	N	N	Ν	Ν	Ν	N

KEY: N = data do not exist.

NOTE: In 2000, the Federal Highway Administration began reporting road condition for urban minor arterials and urban collectors using the International Roughness Index, if available. In prior years, data were only available using the Present

■ Very good ☑ Good ☐ Fair ☑ Mediocre ☐ Poor

Figure 1-2: Urban Road Conditions in Missouri: 2000



NOTE FOR DATA ON THIS PAGE: Road condition is based on measured pavement roughness using the International Roughness Index (IRI). IRI is a measure of surface condition. A comprehensive measure of pavement condition would require data on other pavement distresses such as rutting, cracking, and faulting.

SOURCE FOR DATA ON THIS PAGE: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, Washington, DC: annual editions, tables HM-63 and HM-64, available at http://www.fhwa.dot.gov/ as of Feb. 1, 2002.

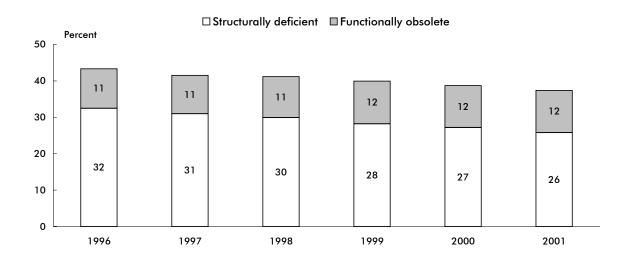
Table 1-6: Highway Bridge Condition: 2001

	All bridges	Structurally deficient	Functionally obsolete	Total o	f both
State	(number)	(number)	(number)	(number)	(percent)
Alabama	15,641	2,677	2,245	4,922	31.5
Alaska	1,433	169	243	412	28.8
Arizona	6,918	194	541	735	10.6
Arkansas	12,434	1,479	1,996	3,475	27.9
California	23,770	2,636	4,204	6,840	28.8
Colorado	8,082	596	847	1,443	17.9
Connecticut	4,171	362	943	1,305	31.3
Delaware	829	47	82	129	15.6
District of Columbia	243	25	136	161	66.3
Florida	11,303	300	1,814	2,114	18.7
Georgia	14,394	1,578	1,924	3,502	24.3
Hawaii	1,071	193	344	537	50.1
Idaho	4,069	320	436	756	18.6
Illinois	25,529	2,725	2,099	4,824	18.9
Indiana	18,067	2,257	2,161	4,418	24.5
Iowa	25,030	5,036	2,060	7,096	28.3
Kansas	25,638	3,465	2,959	6,424	25.1
Kentucky	13,442	1,189	2,864	4,053	30.2
Louisiana	13,426	2,425	2,166	4,591	34.2
Maine	2,367	354	512	866	36.6
Maryland	4,957	436	1,010	1,446	29.2
Massachusetts	4,986	696	1,792	2,488	49.9
Michigan	10,631	2,012	1,354	3,366	31.7
Minnesota	12,830	1,221	563	1,784	13.9
Mississippi	16,825	3,694	1,308	5,002	29.7
Missouri	23,604	6,083	2,747	8,830	37.4
	<u>-</u>	=	=	=	
Montana	5,009	570	560	1,130	22.6
Nebraska	15,493	2,676	1,661	4,337	28.0
Nevada	1,510	67	154	221	14.6
New Hampshire	2,354	387	415	802	34.1
New Jersey	6,366	930	1,420	2,350	36.9
New Mexico	3,790	348	355	703	18.5
New York	17,378	2,406	4,182	6,588	37.9
North Carolina	16,991	2,513	2,794	5,307	31.2
North Dakota	4,517	871	266	1,137	25.2
Ohio	27,952	3,304	3,862	7,166	25.6
Oklahoma	22,708	7,605	1,518	9,123	40.2
Oregon	7,309	362	1,291	1,653	22.6
Pennsylvania	22,092	5,418	4,022	9,440	42.7
Rhode Island	749	187	192	379	50.6
South Carolina	9,064	1,187	869	2,056	22.7
South Dakota	6,001	1,398	346	1,744	29.1
Tennessee	19,362	1,761	2,940	4,701	24.3
Texas	48,085	3,182	7,373	10,555	22.0
Utah	2,743	389	245	634	23.1
Vermont	2,714	452	503	955	35.2
Virginia	12,789	1,222	2,243	3,465	27.1
Washington	7,939	551	1,591	2,142	27.0
West Virginia	6,767	1,172	1,495	2,667	39.4
Wisconsin	13,516	1,862	795	2,657	19.7
Wyoming	3,076	389	253	642	20.9
United States	590,066	83,630	81,469	165,099	28.0

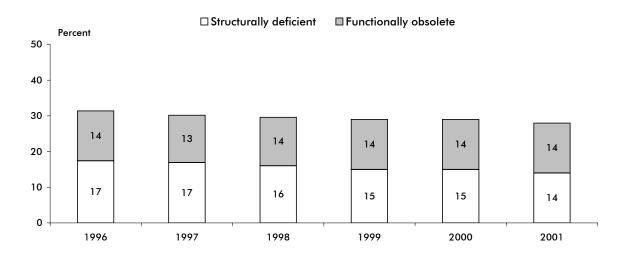
**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, *National Bridge Inventory: Deficient Bridges by State and Highway System,* Washington, DC: 2001, available at http://www.fhwa.dot.gov/bridge/britab.htm as of Jan. 31, 2002.

Figure 1-3: Highway Bridge Condition

#### Missouri



#### **United States**



**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, National Bridge Inventory: Deficient Bridges by State and Highway System, Washington, DC: 2001, available at http://www.fhwa.dot.gov/bridge/britab.htm as of Jan. 31, 2002.

Table 1-7: Characteristics of Directly Operated Motor Bus Transit in Missouri: 2000

	Directional route-miles				
	Exclusive	Controlled	Mixed		
Transit agency	right-of-way	right-of-way	right-of-way		
Bi-State Development Agency	6.4	2.7	1,981.7		
City Utilities of Springfield Transit Services (The Bus)	0.0	0.0	163.3		
Columbia Area Transit System	0.0	0.0	94.1		
Kansas City Area Transportation Authority	0.0	1.1	994.9		
St. Joseph Transit Management	0.0	0.0	40.6		
Total	6.4	3.8	3,274.6		

**NOTES:** Directional route-miles is the mileage in each direction over which public transportation vehicles travel while in revenue service. Directional route-miles are a measure of the facility or roadway, not the service carried on the facility such as the number of routes or vehicle-miles. Directional route-miles are computed with regard to direction of service, but without regard to the number of traffic lanes or rail tracks existing in the right-of-way. Exclusive right-of-way refers to lanes reserved at all times for transit use and other high occupancy vehicles (HOVs). Controlled right-of-way refers to lanes restricted for at least a portion of the day for use by transit vehicles and other HOVs. Mixed right-of-way refers to lanes used for general automobile traffic.

Directly operated transit is service provided by a public transit agency using its own employees to operate transit vehicles. Transit service purchased under contract by a public transit agency is not considered directly operated transit.

**SOURCE:** U.S. Department of Transportation, Federal Transit Administration, National Transit Database, Data Tables, available at http://www.ntdprogram.com/ as of Feb. 19, 2002.

Table 1-8: Characteristics of Rail Transit in Missouri: 2000

Transit agency	Directional route-miles	Miles of track	Number of crossings	Number of stations	Number of ADA accessible stations
<b>Light rail</b> Bi-State Development Agency, St. Louis (MetroLink)	34.0	36.2	12	18	18

**KEY**: ADA = Americans with Disabilities Act of 1990.

**NOTE**: Directional route-miles is the mileage in each direction over which public transportation vehicles travel while in revenue service. Directional route-miles are a measure of the facility or roadway, not the service carried on the facility such as the number of routes or vehicle-miles. Directional route-miles are computed with regard to direction of service, but without regard to the number of traffic lanes or rail tracks existing in the right-of-way.

**SOURCE:** American Public Transportation Association, *Public Transportation Fact Book, 2001*. Washington, DC: 2001, available at http://www.apta.com/stats/ as of June 27, 2002.

Table 1-9: Civil and Joint-Use Airports, Heliports, STOLports, and Seaplane Bases in Missouri: 2002<sup>1</sup>

		Seaplane					
Ownership and usage	Airports	Heliports	Heliports STOLports		Total		
Publicly owned	110	20	0	2	132		
Open to public	107	0	0	2	109		
Closed to public	3	20	0	0	23		
Privately owned	295	108	2	2	407		
Open to public	22	1	0	1	24		
Closed to public	273	107	2	1	383		
Total	405	128	2	4	539		

<sup>&</sup>lt;sup>1</sup>Data are current as of Jan. 31, 2002.

**KEY:** STOLport = Short take-off and landing airport.

**NOTE:** Publicly owned facilities are open for public use with no prior authorization or permission. Publicly owned facilities closed to the public include medical, law enforcement, and other such facilities.

**SOURCE**: U.S. Department of Transportation, Federal Aviation Administration, Office of Airports, Airport Safety Data Branch.

Table 1-10: Missouri Commercial Service Airport Enplanements: 2000 (For airports with scheduled service and 2,500 or more passengers enplaned)

Airport	Large certificated air carriers	Commuter and small certificated air carriers	Air taxi commuter operators	Foreign air carriers	Total enplanements
Lambert-St. Louis International Airport	15,109,940	177,971	227	355	15,288,493
Kansas City International Airport	5,749,388	126,330	137	27,441	5,903,296
Springfield-Branson Regional Airport	267,135	84,789	84	0	352,008
Columbia Regional Airport	25,189	11,343	41	0	36,573
Joplin Regional Airport	18,240	15,509	474	0	34,223
Waynesville Regional Airport at Forney Field	2,155	5,316	0	0	7,471
Cape Girardeau Regional Airport	3,115	4,229	5	0	7,349

**NOTE:** Rank order by total enplaned passengers on air carriers of all types, including foreign air carriers. Data differ from those in table 4-4, which include only enplanements on large certificated carriers.

**SOURCE:** U.S. Department of Transportation, Federal Aviation Administration, Office of the Associate Administrator for Airports, CY 2000 Enplanement Activity at U.S. Commercial Service Airports, available at http://www.faa.gov/arp/Planning/v3.htm as of Mar. 26, 2002

Table 1-11: Freight Railroads in Missouri and the United States: 2000

Number		mber	Miles operated <sup>2</sup>			
	of railroads				Missouri	
Type of railroad	United States	Missouri	United States	Excluding trackage rights	Including trackage rights	Percent of U.S. total
Total	562	16	172,101	4,141	4,541	2.6
Class I	8	5	120,597	3,224	3,616	3.0
Regional	35	3	20,978	741	741	3.5
Local	304	3	21,512	101	101	0.5
Switching and terminal	213	5	7,425	75	83	1.1
Canadian <sup>1</sup>	2	0	1,589	0	0	0.0

<sup>&</sup>lt;sup>1</sup> Refers to non-Class I, Canadian-owned lines.

#### NOTES:

- 1. As defined by the Surface Transportation Board in 2000, a Class I Railroad is a railroad with operating revenues of at least \$261.9 million.
- 2. A Regional Railroad is a non-Class I, line-haul railroad operating 350 or more miles of road or with revenues of at least \$40 million or both.
- 3. A Local Railroad is a railroad which is neither a Class I nor a Regional Railroad, and is engaged primarily in line-haul service.
- 4. A Switching and Terminal Railroad is a non-Class I Railroad engaged primarily in switching and/or terminal services for other railroads.

**SOURCE**: Association of American Railroads, *Railroads and States* - 2000, Washington, DC: 2002, available at http://www.aar.org/AboutTheIndustry/StateInformation.asp as of Mar. 19, 2002.

<sup>&</sup>lt;sup>2</sup> Miles operated is in terms of railroad so that a mile of single track is counted the same as a mile of double track. Sidings, turnouts, yard switching mileage, and mileage not operated are excluded. Miles operated under trackage rights provided by another (owning) railroad are included.

Table 1-12: Freight Railroads Operating in Missouri by Class: 2000

	Miles operated in
Railroad	Missouri <sup>1</sup>
Class I railroads	3,616
Burlington Northern and Santa Fe Railway Co.	1,785
CSX Transportation	13
Kansas City Southern Railway Co.	187
Norfolk Southern Corporation	410
Union Pacific Railroad Co.	1,221
Regional railroads	741
Gateway Western Railroad	236
I & M Rail Link, L.L.C.	158
Missouri and Northern Arkansas Railroad	347
Local railroads	101
Arkansas and Missouri Railroad	31
Columbia Terminal	21
Missouri Central Railroad Co.	49
Switching and terminal railroads	83
Chillicothe-Brunswick Rail Maintenance Authority	37
Manufacturers Railway Co.	10
Railroad Switching Service of Missouri	2
Semo Port Railroad, Inc.	8
Terminal Railroad Association of St. Louis	26

<sup>&</sup>lt;sup>1</sup> Miles operated is in terms of railroad so that a mile of single track is counted the same as a mile of double track. Sidings, turnouts, yard switching mileage, and mileage not operated are excluded. Miles operated under trackage rights provided by another (owning) railroad are included.

NOTE: For definition of railroad types see previous table.

**SOURCE:** Association of American Railroads, Railroads and States - 2000,

Washington, DC: 2002, available at

http://www.aar.org/AboutTheIndustry/StateInformation.asp as of Mar. 19, 2002.

Table 1-13: Missouri Water Ports Ranked in Top 150 U.S. Ports by Tonnage: 2000

		Millions of short tons			
Port	U.S. rank	Total	Foreign	Domestic	
St. Louis, MO and IL	23	33.3	0.0	33.3	
Kansas City	90	3.8	0.0	3.8	

**SOURCE:** U.S. Army Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 2000, Part 5 National Summaries, Alexandria, VA: 2001, available at http://www.wrsc.usace.army.mil/ndc/wcusnatl00.pdf as of Apr. 15, 2002.

Table 1-14: Inland Waterway Mileage: 2000 (Includes 39 states and the District of Columbia)

State	Miles	State	Miles
Alabama	1,270	Mississippi	873
Alaska	5,497	Missouri	1,033
Arkansas	1,860	Nebraska	318
California	286	New Hampshire	8
Connecticut	117	New Jersey	360
Delaware	99	New York	394
District of Columbia	7	North Carolina	1,152
Florida	1,540	Ohio	444
Georgia	721	Oklahoma	150
Idaho	111	Oregon	681
Illinois	1,095	Pennsylvania	259
Indiana	353	Rhode Island	39
lowa	492	South Carolina	482
Kansas	120	South Dakota	75
Kentucky	1,591	Tennessee	946
Louisiana	2,823	Texas	834
Maine	73	Virginia	674
Maryland	532	Washington	1,057
Massachusetts	90	West Virginia	682
Minnesota	258	Wisconsin	231

**NOTES**: Waterway mileages were determined by including the length of channels 1) with a controlling draft of nine feet or greater, 2) with commercial cargo traffic reported for 1998 and 1999, but 3) were not offshore (i.e., channels in coastal areas included only the miles from the entrance channel inward). Channels within major bays are included (e.g., Chesapeake Bay, San Francisco Bay, Puget Sound, Long Island Sound, major sounds and straits in southeastern Alaska). Channels in the Great Lakes are not included, but waterways connecting lakes and the St. Lawrence Seaway inside the United States are included.

**SOURCE:** U.S. Army Corps of Engineers, Navigation Data Center, National Waterway Network, January 2002.



Table 2-1: Highway Traffic Fatalities and Fatality Rates: 2000

					Fatality rate per		
							100 million
		Licensed	Registered	Vehicle-miles	100,000	100,000	vehicle-
_	Traffic	drivers	vehicles	traveled	licensed	registered	miles
State	fatalities	(thousands)	(thousands)	(millions)	drivers	vehicles	traveled
Alabama	995	3,521	4,015	56,534	28.3	24.8	1.8
Alaska	103	465	611	4,613	22.2	16.9	2.2
Arizona	1,036	3,434	3,960	49,768	30.2	26.2	2.1
Arkansas	652	1,948	1,865	29,167	33.5	35.0	2.2
California	3,753	21,244	28,146	306,649	17.7	13.3	1.2
Colorado	681	3,107	3,724	41,771	21.9	18.3	1.6
Connecticut	342	2,653	2,907	30,756	12.9	11.8	1.1
Delaware	123	557	641	8,240	22.1	19.2	1.5
District of Columbia	49	348	244	3,498	14.1	20.1	1.4
Florida	2,999	12,853	12,036	152,136	23.3	24.9	2.0
Georgia	1,541	5,550	7,243	105,010	27.8	21.3	1.5
Hawaii	131	769	758	8,543	17.0	17.3	1.5
Idaho	276	884	1,220	13,534	31.2	22.6	2.0
Illinois	1,418	7,961	9,168	102,866	17.8	15.5	1.4
Indiana	875	3,976	5,689	70,862	22.0	15.4	1.2
lowa	445	1,953	3,233	29,433	22.8	13.8	1.5
Kansas	461	1,908	2,346	28,130	24.2	19.7	1.6
Kentucky	820	2,694	2,870	46,803	30.4	28.6	1.8
Louisiana	937	2,759	3,605	40,849	34.0	26.0	2.3
Maine	169	920	1,053	14,190	18.4	16.1	1.2
Maryland	588	3,382	3,897	50,174	17.4	15.1	1.2
Massachusetts	433	4,490	5,372	52,796	9.6	8.1	0.8
Michigan	1,382	6,925	8,619	97,792	20.0	16.0	1.4
Minnesota	625	2,941	4,773	52,601	21.3	13.1	1.2
Mississippi	949	2,008	2,321	35,536	47.3	40.9	2.7
Missouri	1,157	3,856	4,641	67,083	30.0	24.9	1.7
Montana	237	679	1,053	9,882	34.9	22.5	2.4
Nebraska	276	1,195	1,640	18,081	23.1	16.8	1.5
Nevada	323	1,371	1,245	17,639	23.6	25.9	1.8
New Hampshire	126	930	1,100	12,021	13.6	11.5	1.0
New Jersey	731	5,655	6,502	67,446	12.9	11.2	1.1
New Mexico	430	1,239	1,557	22,760	34.7	27.6	1.9
New York	1,458	10,871	10,342	129,057	13.4	14.1	1.1
North Carolina	1,472	5,690	6,305	89,504	25.9	23.3	1.6
North Dakota	86	459	711	7,217	18.7	12.1	1.2
Ohio	1,351	8,206	10,722	105,898	16.5	12.6	1.3
Oklahoma	652	2,295	3,072	43,355	28.4	21.2	1.5
Oregon	451	2,495	3,091	35,010	18.1	14.6	1.3
Pennsylvania	1,520	8,229	9,476	102,337	18.5	16.0	1.5
Rhode Island	80	654	7,470	8,359	12.2	10.3	1.0
South Carolina	1,065	2,843	3,146	45,538	37.5	33.9	2.3
	·	·					
South Dakota Tennessee	173 1,306	544 4,251	822 4,891	8,432 65,732	31.8 30.7	21.0 26.7	2.1 2.0
Texas	3,769	13,462	14,257	220,064	28.0	26.4	1.7
Utah	3,769			22,597	25.5	22.5	1.7
Vermont	3/3 79	1,463 506	1,656 537	•	25.5 15.6	22.5 14.7	1.7
Virginia	930			6,811 74,901			
•		4,837 4,155	6,107 5,225	74,801 53,330	19.2	15.2	1.2
Washington	632	•	5,235	53,330	15.2	12.1	1.2
West Virginia	410	1,347	1,468	19,242	30.4	27.9	2.1
Wisconsin	799	3,770	4,545	57,266	21.2	17.6	1.4
Wyoming	152	371	605	8,090	41.0	25.1	1.9
United States	41,821	190,625	217,028	2,749,803	21.9	19.3	1.5

**SOURCES:** U.S. Department of Transportation, National Highway Traffic Safety Administration, *Traffic Safety Facts* 2000, Washington, DC: 2001, available at http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/TSFAnn/TSF2000.pdf as of Jan. 4, 2002; U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* 2000, Washington, DC: 2001, available at http://www.fhwa.dot.gov/ohim/ohimstat.htm as of Dec. 6, 2001.

Table 2-2: Passenger Car Occupants Killed and Restraint Use: 2000

	Restrair	nt used	No restra	int used	Restrai unkn		Total occ	
State	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Alabama	204	38.2	308	57.7	22	4.1	534	100.0
Alaska	11	39.3	17	60.7	0	0.0	28	100.0
Arizona	131	36.0	183	50.3	50	13.7	364	100.0
Arkansas	95	32.3	160	54.4	39	13.3	294	100.0
California	917	53.5	499	29.1	298	17.4	1,714	100.0
Colorado	129	47.1	142	51.8	3	1.1	274	100.0
Connecticut	69	38.1	90	49.7	22	12.2	181	100.0
Delaware	20	29.0	47	68.1	2	2.9	69	100.0
District of Columbia	4	22.2	7	38.9	7	38.9	18	100.0
Florida	523	37.7	836	60.3	27	1.9	1,386	100.0
Georgia	337	42.9	351	44.7	98	12.5	, 786	100.0
Hawaii	23	37.7	29	47.5	9	14.8	61	100.0
Idaho	42	35.9	69	59.0	6	5.1	117	100.0
Illinois	234	34.3	311	45.6	137	20.1	682	100.0
Indiana	203	43.0	222	47.0	47	10.0	472	100.0
lowa	107	41.6	98	38.1	52	20.2	257	100.0
Kansas	77	33.2	127	54.7	28	12.1	232	100.0
Kentucky	156	36.3	269	62.6	5	1.2	430	100.0
Louisiana	127	30.1	232	55.0	63	14.9	422	100.0
Maine	37	36.6	58	57.4	6	5.9	101	100.0
Maryland	167	55.3	11 <i>7</i>	38.7	18	6.0	302	100.0
Massachusetts	63	25.9	128	52.7	52	21.4	243	100.0
Michigan	364	51.3	260	36.6	86	12.1	710	100.0
Minnesota	129	37.5	174	50.6	41	11.9	344	100.0
Mississippi	144	28.3	354	69.5	11	2.2	509	100.0
Missouri	198	33.4	326	55.0	69	11.6	593	100.0
Montana	38	37.3	56	54.9	8	7.8	102	100.0
Nebraska	35	27.1	76	58.9	18	14.0	129	100.0
Nevada	52	38.2	81	59.6	3	2.2	136	100.0
New Hampshire	13	21.0	43	69.4	6	9.7	62	100.0
New Jersey	161	42.4	197	51.8	22	5.8	380	100.0
New Mexico	72	41.9	90	52.3	10	5.8	172	100.0
New York	360	50.8	290	40.9	59	8.3	709	100.0
North Carolina	369	45.0	354	43.2	97	11.8	820	100.0
North Dakota	8	19.0	33	78.6	1	2.4	42	100.0
Ohio	319	41.5	396	51.6	53	6.9	768	100.0
Oklahoma	128	40.4	187	59.0	2	0.6	317	100.0
Oregon	147	67.1	60	27.4	12	5.5	219	100.0
Pennsylvania	265	31.7	443	53.1	127	15.2	835	100.0
Rhode Island	8	18.6	33	76.7	2	4.7	43	100.0
South Carolina	158	38.3	246	59.7	8	1.9	412	100.0
South Dakota	11	15.3	58	80.6	3	4.2	72	100.0
Tennessee	207	28.6	479	66.1	39	5.4	725	100.0
Texas	914	54.7	723	43.2	35	2.1	1,672	100.0
Utah	66	39.3	97	57.7	5	3.0	168	100.0
Vermont	23	57.5	15	37.5	2	5.0	40	100.0
Virginia	199	40.4	264	53.7	29	5.9	492	100.0
Washington	153	44.5	185	53.8	6	1.7	344	100.0
West Virginia	71	31.1	151	66.2	6	2.6	228	100.0
Wisconsin	161	37.3	231	53.5	40	9.3	432	100.0
Wyoming	23	46.0	27	54.0	0	0.0	50	100.0
United States	8,472	41.3	10,229	49.9	1,791	8.7	20,492	100.0
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**NOTE:** Fatalities in this table include passenger car occupants only. Occupants of other vehicle types - light trucks, heavy trucks, motorcycles, and buses - are excluded as are other types of highway related fatalities such as pedestrian fatalities. Hence, the fatalities represented here are lower then those in table 2-1. Percents may not add to totals due to rounding.

**SOURCE:** U.S. Department of Transportation, National Highway Traffic Safety Administration, *Traffic Safety Facts* 2000, Washington, DC: 2001, available at http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/TSFAnn/TSF2000.pdf as of Jan. 4, 2002.

Table 2-3: Key Provisions of Safety Belt Use Laws: 2000

State	Effective <sup>1</sup>	Enforcement <sup>2</sup>	Fine	Seats	Vehicles exempted <sup>3</sup>
Alabama	7/18/1992	Primary	\$25	Front	Designed for more than 10 passengers
Alaska	9/12/1990	Secondary	\$15	All	School bus
Arizona	1/1/1991	Secondary	\$10	Front	Designed for more than 10 passengers; model year before 1972
Arkansas	7/15/1991	Secondary	\$25 4	Front	School bus, church bus, public bus
California	1/1/1986	Primary	\$20 <sup>5</sup>	All	None
Colorado	7/1/1987	Secondary	\$15	Front	Passenger bus, school bus
Connecticut	1/1/1986	Primary	\$15	Front	Truck or bus over 15,000 lbs.
Delaware	1/1/1992	Secondary	\$20	Front	None
District of Columbia	12/12/1985	Primary	\$50 6	All	Seating more than 8 people
Florida	7/1/1986	Secondary	\$30	Front	School bus, public bus, truck over 5,000 lbs.
Georgia	9/1/1988	Primary	\$15	Front	Designed for more than 10 passengers, pickup
Hawaii	2/16/1985	Primary	\$45	Front	Bus or school bus over 10,000 lbs.
Idaho	7/1/1986	Secondary	\$5	Front	Over 8,000 lbs.
Illinois	7/1/1985	Secondary	\$25	Front	None
Indiana	7/1/1987	Primary	\$25	Front	Truck, tractor, RV
lowa	7/1/1986	Primary	\$10	Front	None
Kansas	7/1/1986	Secondary	\$10	Front	Designed for more than 10 people, truck over 12.000 lbs.
Kentucky	7/13/1994	Secondary	\$25	All	Designed for more than 10 people
Louisiana	7/1/1986	Primary	\$25 <sup>7</sup>	Front	Manufactured before 1/1/81
Maine	12/27/1995	Secondary	\$50	All	None
		,			
Maryland	7/1/1986	Primary	\$25 \$25	Front All	Historic vehicle
Massachusetts	2/1/1994	Secondary		Front	Truck over 18,000 lbs., bus, taxi Bus
Michigan	7/1/1985	Primary	\$25 \$25	Front	
Minnesota	8/1/1986	Secondary	\$25 \$25		Farm pickup truck
Mississippi	3/20/1990	Secondary	\$25	Front	Farm vehicle, bus
Missouri	9/28/1985	Secondary	\$10	Front	Designed for more than 10 people, truck over 12,000 lbs.
Montana	10/1/1987	Secondary	\$20	All	None
Nebraska	1/1/1993	Secondary	\$25	Front	Manufactured before 1973
Nevada	7/1/1987	Secondary	\$25	All	Taxi, bus, school bus
New Hampshire	None	NA	NA	NA	NA
New Jersey	3/1/1985	Secondary	\$20	Front	None
New Mexico	1/1/1986	Primary	\$25	Front	Vehicle over 10,000 lbs.
New York	12/1/1984	Primary	\$50	Front	Bus, school bus, taxi
North Carolina		•	\$30 \$25		•
North Dakota	10/1/1985	Primary		Front Front	Designed for more than 10 people Designed for more than 10 people
	7/14/1994	Secondary	\$20 \$25		• • • • • • • • • • • • • • • • • • • •
Ohio	5/6/1986	Secondary	\$25	Front	None
Oklahoma	2/1/1987	Primary	\$20	Front	Farm vehicle, truck, truck tractor, RV
Oregon	12/7/1990	Primary	\$75	All	None
Pennsylvania	11/23/1987	Secondary	\$10	Front	Truck over 7,000 lbs.
Rhode Island	6/18/1991	Secondary	\$50	All	None
South Carolina	7/1/1989	Secondary	\$10	All	School bus, public bus
South Dakota	1/1/1995	Secondary	\$20	Front	Bus, school bus
Tennessee	4/21/1986	Secondary	\$50	Front	Vehicle over 8,500 lbs.
Texas	9/1/1985	Primary	\$50	Front	Designed for more than 10 people, truck over 15,000 lbs.
Utah	4/28/1986	Secondary	\$45	Front	Vehicle over 10,000 lbs., school/public bus, taxi
Vermont	1/1/1994	Secondary	\$10	All	Bus, taxi
Virginia	1/1/1988	Secondary	\$25	Front	Designed for more than 10 people, taxi
Washington	6/11/1986	Secondary	\$35	All	Designed for more than 10 people
•	9/1/1993	Secondary	\$25	Front	Designed for more than 10 people
West Virginia					
West Virginia Wisconsin	12/1/1987	Secondary	\$10	All	Taxi, farm truck

<sup>&</sup>lt;sup>1</sup> Effective date of first belt law in the state; <sup>2</sup> Primary enforcement enables police officers to stop vehicles and write citations whenever they observe a violation of the seat belt law. Secondary enforcement allows police officers to write a citation for seat belt infractions only after stopping a vehicle for some other traffic infraction; <sup>3</sup> Most states exempt vehicles not manufactured with seat belts; <sup>4</sup> Plus 3 points on license; <sup>5</sup> Fine for first offense; <sup>6</sup> Plus 2 points on license; <sup>7</sup> Penalty could include 30 days in jail.

**KEY:** NA = not applicable; RV = recreational vehicle.

**SOURCE:** U.S. Department of Transportation, National Highway Traffic Safety Administration, *Traffic Safety Facts* 2000, Washington, DC: 2001, available at http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/TSFAnn/TSF2000.pdf as of Jan. 4, 2002.

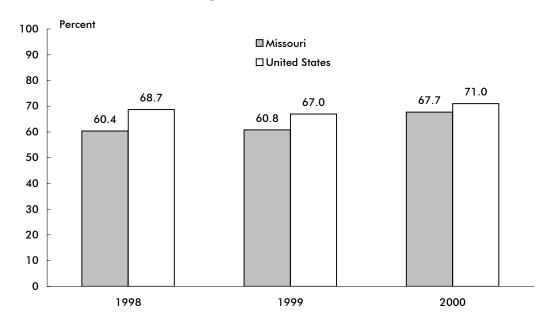
Table 2-4: Shoulder Belt Use: 2000

State	Percent
Alabama	70.6
Alaska	61.0
Arizona	75.2
Arkansas	52.4
California	88.9
Colorado	65.1
Connecticut	76.3
Delaware	66.1
District of Columbia	82.6
Florida	64.8
Georgia	73.6
Hawaii	80.4
Idaho	58.6
Illinois	70.2
Indiana	62.1
lowa	78.0
Kansas	61.6
Kentucky	60.0
Louisiana	68.2
Maine	Ν
Maryland	85.0
Massachusetts	50.0
Michigan	83.5
Minnesota	73.4
Mississippi	50.4
Missouri	67.7

State         Percent           Montana         75.6           Nebraska         70.5           Nevada         78.5           New Hampshire         N           New Jersey         74.2           New Mexico         86.6           New York         77.3           North Carolina         80.5           North Dakota         47.7           Ohio         65.3           Oklahoma         67.5           Oregon         83.6           Pennsylvania         70.7           Rhode Island         64.4           South Carolina         73.9           South Dakota         53.4           Tennessee         59.0           Texas         76.6           Utah         75.7           Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4           Wvomina         66.8		
Nebraska         70.5           Nevada         78.5           New Hampshire         N           New Jersey         74.2           New Mexico         86.6           New York         77.3           North Carolina         80.5           North Dakota         47.7           Ohio         65.3           Oklahoma         67.5           Oregon         83.6           Pennsylvania         70.7           Rhode Island         64.4           South Carolina         73.9           South Dakota         53.4           Tennessee         59.0           Texas         76.6           Utah         75.7           Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4	State	Percent
Nevada         78.5           New Hampshire         N           New Jersey         74.2           New Mexico         86.6           New York         77.3           North Carolina         80.5           North Dakota         47.7           Ohio         65.3           Oklahoma         67.5           Oregon         83.6           Pennsylvania         70.7           Rhode Island         64.4           South Carolina         73.9           South Dakota         53.4           Tennessee         59.0           Texas         76.6           Utah         75.7           Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4	Montana	75.6
New Hampshire         N           New Jersey         74.2           New Mexico         86.6           New York         77.3           North Carolina         80.5           North Dakota         47.7           Ohio         65.3           Oklahoma         67.5           Oregon         83.6           Pennsylvania         70.7           Rhode Island         64.4           South Carolina         73.9           South Dakota         53.4           Tennessee         59.0           Texas         76.6           Utah         75.7           Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4	Nebraska	70.5
New Jersey       74.2         New Mexico       86.6         New York       77.3         North Carolina       80.5         North Dakota       47.7         Ohio       65.3         Oklahoma       67.5         Oregon       83.6         Pennsylvania       70.7         Rhode Island       64.4         South Carolina       73.9         South Dakota       53.4         Tennessee       59.0         Texas       76.6         Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	Nevada	78.5
New Mexico         86.6           New York         77.3           North Carolina         80.5           North Dakota         47.7           Ohio         65.3           Oklahoma         67.5           Oregon         83.6           Pennsylvania         70.7           Rhode Island         64.4           South Carolina         73.9           South Dakota         53.4           Tennessee         59.0           Texas         76.6           Utah         75.7           Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4	New Hampshire	N
New York         77.3           North Carolina         80.5           North Dakota         47.7           Ohio         65.3           Oklahoma         67.5           Oregon         83.6           Pennsylvania         70.7           Rhode Island         64.4           South Carolina         73.9           South Dakota         53.4           Tennessee         59.0           Texas         76.6           Utah         75.7           Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4	New Jersey	74.2
North Carolina         80.5           North Dakota         47.7           Ohio         65.3           Oklahoma         67.5           Oregon         83.6           Pennsylvania         70.7           Rhode Island         64.4           South Carolina         73.9           South Dakota         53.4           Tennessee         59.0           Texas         76.6           Utah         75.7           Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4	New Mexico	86.6
North Dakota         47.7           Ohio         65.3           Oklahoma         67.5           Oregon         83.6           Pennsylvania         70.7           Rhode Island         64.4           South Carolina         73.9           South Dakota         53.4           Tennessee         59.0           Texas         76.6           Utah         75.7           Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4	New York	77.3
Ohio         65.3           Oklahoma         67.5           Oregon         83.6           Pennsylvania         70.7           Rhode Island         64.4           South Carolina         73.9           South Dakota         53.4           Tennessee         59.0           Texas         76.6           Utah         75.7           Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4	North Carolina	80.5
Oklahoma       67.5         Oregon       83.6         Pennsylvania       70.7         Rhode Island       64.4         South Carolina       73.9         South Dakota       53.4         Tennessee       59.0         Texas       76.6         Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	North Dakota	47.7
Oregon       83.6         Pennsylvania       70.7         Rhode Island       64.4         South Carolina       73.9         South Dakota       53.4         Tennessee       59.0         Texas       76.6         Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	Ohio	65.3
Pennsylvania       70.7         Rhode Island       64.4         South Carolina       73.9         South Dakota       53.4         Tennessee       59.0         Texas       76.6         Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	Oklahoma	67.5
Rhode Island       64.4         South Carolina       73.9         South Dakota       53.4         Tennessee       59.0         Texas       76.6         Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	Oregon	83.6
South Carolina       73.9         South Dakota       53.4         Tennessee       59.0         Texas       76.6         Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	Pennsylvania	70.7
South Dakota       53.4         Tennessee       59.0         Texas       76.6         Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	Rhode Island	64.4
Tennessee       59.0         Texas       76.6         Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	South Carolina	73.9
Texas       76.6         Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	South Dakota	53.4
Utah       75.7         Vermont       61.6         Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	Tennessee	59.0
Vermont         61.6           Virginia         69.6           Washington         81.6           West Virginia         49.5           Wisconsin         65.4	Texas	76.6
Virginia       69.6         Washington       81.6         West Virginia       49.5         Wisconsin       65.4	Utah	75.7
Washington 81.6 West Virginia 49.5 Wisconsin 65.4	Vermont	61.6
West Virginia 49.5 Wisconsin 65.4	Virginia	69.6
Wisconsin 65.4	Washington	81.6
Wisconsin 65.4	-	49.5
Wyomina 66.8	-	65.4
. ,	Wyoming	66.8

**KEY**: N = data do not exist.

Figure 2-1: Shoulder Belt Use



**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, National Highway Traffic Safety Administration, 1998-2000 State Shoulder Belt Use Survey Results, Research Note, Washington, DC: May 2001, available at http://www-nrd.nhtsa.dot.gov/departments/nrd-30/ncsa/availinf.html as of Mar. 20, 2002.

Table 2-5: Pedestrian Fatalities Involving Motor Vehicles: 2000

			Pedestrian fatalities as	State	Pedestrian fatality rate per
State	Total traffic fatalities	Pedestrians killed	percent of total	population (thousands)	100,000 population
Alabama	995	61	6.1	4,451	1.4
Alaska	103	8	7.8	653	1.2
Arizona	1,036	130	12.5	4,798	2.7
Arkansas	652	38	5.8	2,631	1.4
California	3,753	670	17.9	32,521	2.1
Colorado	681	80	11.7	4,168	1.9
Connecticut	342	49	14.3	3,284	1.5
Delaware	123	22	17.9	768	2.9
District of Columbia	49	18	36.7	523	3.4
Florida	2,999	492	16.4	15,233	3.2
Georgia	1,541	137	8.9	7,875	1.7
Hawaii	1,341	29	22.1	1,257	2.3
			2.2	•	
Idaho	276	6	2.2 13.2	1,347	0.4
Illinois	1,418	187		12,051	1.6
Indiana	875	51 25	5.8	6,045	0.8
lowa	445	25	5.6	2,900	0.9
Kansas	461	19	4.1	2,668	0.7
Kentucky	820	53	6.5	3,995	1.3
Louisiana	937	100	10.7	4,425	2.3
Maine	169	15	8.9	1,259	1.2
Maryland	588	91	15.5	5,275	1.7
Massachusetts	433	82	18.9	6,199	1.3
Michigan	1,382	170	12.3	9,679	1.8
Minnesota	625	38	6.1	4,830	0.8
Mississippi	949	64	6.7	2,816	2.3
Missouri	1,157	88	7.6	5,540	1.6
Montana	237	11	4.6	950	1.2
Nebraska	276	20	7.2	1,705	1.2
Nevada	323	43	13.3	1,871	2.3
New Hampshire	126	7	5.6	1,224	0.6
New Jersey	731	145	19.8	8,178	1.8
New Mexico	430	47	10.9	1,860	2.5
New York	1,458	335	23.0	18,146	1.8
North Carolina	1,472	144	9.8	7,777	1.9
North Dakota	86	5	5.8	662	0.8
Ohio	1,351	96	7.1	11,319	0.8
Oklahoma	652	43	6.6	3,373	1.3
Oregon	451	50	11.1	3,397	1.5
Pennsylvania	1,520	170	11.2	12,202	1.4
Rhode Island	80	6	7.5	998	0.6
South Carolina	1,065	84	7.9	3,858	2.2
South Dakota	173	13	7.5	777	1.7
Tennessee	1,306	99	7.6	5,657	1.7
Texas	3,769	412	10.9	20,119	2.0
Utah	373	33	8.8	2,207	1.5
	79	7	8.9	617	
Vermont					1.1
Virginia	930	92	9.9	6,997	1.3
Washington	632	66 25	10.4	5,858	1.1
West Virginia	410	25 51	6.1	1,841	1.4
Wisconsin	799	51	6.4	5,326	1.0
Wyoming	152	12	7.9	525	2.3
United States	41,821	4,739	11.3	274,634	1.7

**SOURCE:** U.S. Department of Transportation, National Highway Traffic Safety Administration, National Center for Statistics and Analysis, *Traffic Safety Facts 2000: Pedestrians*, Washington, DC: 2001, available at http://www.nhtsa.dot.gov/people/ncsa/factshet.html as of Dec. 5, 2001.

Table 2-6: Motor Vehicle Fatalities Involving High Blood Alcohol Concentration (BAC  $\geq$  0.10 grams per deciliter)

		1995			2000	
State	Total fatalities	Fatalities involving high blood alcohol	Percent	Total fatalities	Fatalities involving high blood alcohol	Percent
Alabama	1,113	381	34	995	326	33
Alaska	1,113	37	34 42	103	44	43
Arizona		347	34	1,036	354	
	1,031 631			652	139	34
Arkansas		148	23			21
California	4,192	1,308	31	3,753	1,061	28
Colorado Connecticut	645	226	35	681	198	29
	317	130	41	342	119	35
Delaware	121	38	31	123	49	40 20
District of Columbia	58	25	44	49	14	29
Florida	2,805	873	31	2,999	930	31
Georgia	1,488	400	27	1,541	438	28
Hawaii	130	41	32	131	37	28
Idaho	262	69	27	276	81	29
Illinois	1,586	551	35	1,418	489	34
Indiana	960	263	27	875	214	24
lowa	527	159	30	445	100	22
Kansas	442	152	34	461	118	26
Kentucky	849	227	27	820	203	25
Louisiana	883	353	40	937	352	38
Maine	187	44	24	169	38	22
Maryland	671	176	26	588	161	27
Massachusetts	444	148	33	433	153	35
Michigan	1,530	483	32	1,382	397	29
Minnesota	597	215	36	625	207	33
Mississippi	868	306	35	949	289	30
Missouri	1,109	450	41	1,157	387	33
Montana	215	79	37	237	92	39
Nebraska	254	64	25	276	70	25
Nevada	313	127	41	323	112	35
New Hampshire	118	30	25	126	40	31
New Jersey	773	243	32	731	231	32
New Mexico	485	202	42	430	159	37
New York	1,674	405	24	1,458	293	20
North Carolina	1,448	399	28	1,472	419	28
North Dakota	74	32	44	86	36	42
Ohio	1,366	344	25	1,351	411	30
Oklahoma	669	205	31	652	169	26
Oregon	572	176	31	451	132	29
Pennsylvania	1,480	485	33	1,520	511	34
Rhode Island	69	22	32	80	31	38
South Carolina	881	229	26	1,065	329	31
	158	63	40	1,003	66	38
South Dakota					399	
Tennessee	1,259	420	33	1,306		31
Texas	3,181	1,407	44	3,769	1,450	38
Utah Varranart	326	69	21	373	68 27	18
Vermont	106	33	31	79	27	34
Virginia	900	272	30	930	257	28
Washington	653	248	38	632	217	34
West Virginia	376	132	35	410	149	36
Wisconsin	745	263	35	799	288	36
Wyoming	170	63	37	152	40	26
United States	41,798	13,564	32	41,821	12,892	31

**SOURCE:** U.S. Department of Transportation, National Highway Traffic Safety Administration, National Center for Statistics and Analysis, *Traffic Safety Facts 2000: State Alcohol Estimates*, Washington, DC: 2001, available at http://www.nhtsa.dot.gov/people/ncsa/factshet.html as of Dec. 5, 2001.

Table 2-7: Impaired Driving Laws: 2000

		<u> </u>	Lower BAC for youthful		License sanction			
	Administrative per	Illegal per se	DWI offenders	(Mandator	y minimum for a <b>C</b>	OWI conviction)		
State	se (BAC level)	(BAC level)	(BAC level and age)	First offense	Second offense	Third offense		
Alabama	Y-0.08	0.08	Y-0.02 (<21)	S-90 days	R-1 yr	R-3 yrs		
Alaska	Y-0.10	0.10	Y-0.00 (<21)	R-30 days	R-1 yr	R-10 yrs		
Arizona	Y-0.10	0.10	Y-0.00 (<21)	S-90 days	R-1 yr	R-3 yrs		
Arkansas	Y-0.10	0.10	Y-0.02 (<21)	Nms	Nms	Nms		
California	Y-0.08	0.08	Y-0.01 (<21)	Nms	Nms	R-18 mos		
Colorado	Y-0.10	0.10	Y-0.02 (<21)	Nms	R-1 yr	R-1 yr		
Connecticut	Y-0.10	0.10	Y-0.02 (<21)	Nms	Nms	Nms		
Delaware	Y-0.10	0.10	Y-0.02 (<21)	Nms	R-6 mos	R-6 mos		
District of Columbia	Y-0.05	0.08	Y-0.00 (<21)	R-6 mos	R-1 yr	R-2 yrs		
Florida	Y-0.08	0.08	Y-0.02 (<21)	Nms	R-12 mos	R-24 mos		
Georgia	Y-0.10	0.10	Y-0.02 (<21)	Nms	S-120 days	R-5 yrs		
Hawaii	Y-0.08	0.08	Y-0.02 (<21)	S-30 days	S-1 yr	R-1 yr		
Idaho	Y-0.08	0.08	Y-0.02 (<21)	S-30 days	S-1 yr	S-1 yr		
Illinois	Y-0.08	0.08	Y-0.02 (<21)	Nms	Nms	Nms		
Indiana	Y-0.10	0.10	Y-0.02 (<21)	S-30 days	S-1 yr	S-1 yr		
lowa	Y-0.10	0.10	Y-0.02 (<21)	R-30 days	R-1 yr	R-1 yr		
Kansas	Y-0.08	0.08	Y-0.02 (<21)	S-30 days	S-1 yr	S-1 yr		
Kentucky	Α	0.08	Y-0.02 (<21)	S-30 days	R-12 mos	R-24 mos		
Louisiana	Y-0.10	0.10	Y-0.02 (<21)	Nms	Nms	Nms		
Maine	Y-0.08	0.08	Y-0.00 (<21)	S-60 days	S-18 mos	S-4 yrs		
Maryland	Y-0.10	0.10	Y-0.02 (<21)	Nms	Nms	Nms		
Massachusetts	Y-0.08	Ν	Y-0.02 (<21)	S-45 days	R-6 mos	R-2 yrs		
Michigan	N	0.10	Y-0.02 (<21)	Nms	R-1 yr	S-5 yrs		
Minnesota	Y-0.10	0.10	Y-0.00 (<21)	R-15 days	R-90 days	R-90 days		
Mississippi	Y-0.10	0.10	Y-0.02 (<21)	S-30 days	S-1 yr	S-3 yrs		
Missouri	Y-0.10	0.10	Y-0.02 (<21)	S-30 days	R-2 yrs	R-3 yrs		
Montana	N	0.10	Y-0.02 (<21)	Nms	R-3 mos	R-3 mos		
Nebraska	Y-0.10	0.10	Y-0.02 (<21)	R-60 days	R-1 yr	R-1 yr		
Nevada	Y-0.10	0.10	Y-0.02 (<21)	R-45 days	R-1 yr	R-1.5 yrs		
New Hampshire	Y-0.08	0.08	Y-0.02 (<21)	R-90 days	R-3 yrs	R-3 yrs		
New Jersey	N	0.10	Y-0.01 (<21)	R-6 mos	R-2 yrs	R-10 yrs		
New Mexico	Y-0.08	0.08	Y-0.02 (<21)	Nms	R-30 days	R-30 days		
New York	Α	0.10	Y-0.02 (<21)	Nms	R-I yr	R-1 yr		
North Carolina	Y-0.08	0.08	Y-0.00 (<21)	Nms	R-2 yrs	R-3 yrs		
North Dakota	Y-0.10	0.10	Y-0.02 (<21)	S-30 days	S-365 days	S-2 yrs		
Ohio	Y-0.10	0.10	Y-0.02 (<21)	S-15 days	S-30 days	S-180 days		
Oklahoma	Y-0.10	0.10	Y-0.00 (<21)	Nms	R-1 yr	R-1 yr		
Oregon	Y-0.08	0.08	Y-0.00 (<21)	Nms	S-90 days	S-1 yr		
Pennsylvania	N	0.10	Y-0.02 (<21)	S-1 mo	S-12 mos	S-12 mos		
Rhode Island	N	0.08	Y-0.02 (<21)	S-3 mos	S-1 yr	S-2 yrs		
South Carolina	Y-0.15	0.10	Y-0.02 (<21)	Nms	S-1 yr	S-4 yrs		
South Dakota	N	0.10	Y-0.02 (<21)	Nms	R-1 yr	R-1 yr		
Tennessee	N	0.10	Y-0.02 (<21)	Nms	R-2 yrs	R-3 yrs		
Texas	Y-0.08	0.08	Y-0.00 (<21)	Nms	Nms	Nms		
Utah	Y-0.08	0.08	Y-0.00 (<21)	S-90 days	R-1 yrs	R-1 yrs		
Vermont	Y-0.08	0.08	Y-0.02 (<21)	S-90 days	S-18 mos	R-2 yrs		
Virginia	Y-0.08	0.08	Y-0.02 (<21)	Nms	R-1 yr	R-3 yrs		
Washington	Y-0.08	0.08	Y-0.02 (<21)	S-30 days	R-1 yr	R-2 yrs		
West Virginia	Y-0.10	0.10	Y-0.02 (<21)	R-30 days	R-1 yr	R-1 yr		
Wisconsin	Y-0.10	0.10	Y-0.02 (<21)	Nms	R-60 days	R-90 days		
Wyoming	Y-0.10	0.10	Y-0.02 (<21)	Nms	S-1 yr	R-3 yrs		

**KEY:** BAC = blood alcohol concentration; DWI = driving while intoxicated; Y = yes; N = no; A = alternative; S = suspension; R = revocation; Nms = no mandatory sanction.

**NOTES:** An "administrative per se law" allows a state's driver licensing agency to either suspend or revoke a driver's license based on a specific alcohol (or drug) concentration or on some other criterion related to alcohol or drug use and driving. Such action is independent of any licensing action related to a DWI criminal offense. The term "illegal per se" refers to state laws that make it a criminal offense to operate a motor vehicle at or above a specified alcohol (or drug) concentration in the blood, breath, or urine. In those columns showing mandatory sanctions, "nms" does not mean that a state does not have a sanction. It only means that the state does not have a mandatory sanction for that offense or violation.

**SOURCE:** U.S. Department of Transportation, National Highway Traffic Safety Administration, *Traffic Safety Facts* 2000, Washington, DC: 2001, available at http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/TSFAnn/TSF2000.pdf as of Jan. 4, 2002.

Table 2-8: Maximum Posted Speed Limits by System: 2001 (Speed limit in miles per hour)<sup>1</sup>

	Interst	ate	Other limited-		
State	Rural	Urban	access roads <sup>2</sup>	Other roads	
Alabama	70	70	65	65	
Alaska	65	55	65	55	
Arizona	75	55	55	55	
Arkansas	70, Trucks: 65	55 55	60	55	
California	70, Trucks: 55	65	70	55	
Colorado	75, 110cks: 55	65	65	55	
Connecticut	65	55	65	55	
)elaware	65	55 55	65	55 55	
District of Columbia	NA NA	55 55	NA	25	
lorida	70	65	70	65	
eorgia	70 70	65	65	65	
lawaii	55	50	45	45	
laho	75, Trucks: 65	65	45 65	65	
inois	65, Trucks: 55	55	65	55	
ilnois Idiana	65, Trucks: 60	55	55	55 55	
	•	55 55	55 65	55 55	
owa	65 70	55 70	65 70		
ansas	70 65	70 55	70 55	65 55	
entucky 	65 70				
ouisiana 		55 5.5	70 55	65	
Naine	65	55	55	55	
aryland	65	65	65	55	
lassachusetts	65	65	65	55	
\ichigan 	70, Trucks: 55	65	70	55	
innesota	70	65	65	55	
ississippi	70	70	70	65	
Nissouri	70	60	70	65	
lontana	75, Trucks: 65	65	Day: 70, Night: 65	Day: 70, Night: 65	
ebraska	75	65	65	60	
evada	75	65	70	70	
ew Hampshire	65	65	55	55	
ew Jersey	65	55	65	55	
ew Mexico	75	55	65	55	
ew York	65	65	65	55	
orth Carolina	70	65	65	55	
orth Dakota	70	55	65	Day: 65, Night: 55	
Phio	65, Trucks: 55	65	55	55	
klahoma	75	70	70	70	
)regon	65, Trucks: 55	55	55	55	
ennsylvania	65	55	65	55	
hode Island	65	55	55	55	
outh Carolina	70	70	60	55	
outh Dakota	75	65	65	65	
ennessee	70	70	70	55	
exas	70	70	70	70	
tah	75	65	55	55	
ermont	65	55	50	50	
irginia	65	55	65	55	
/ashington	70, Trucks: 60	60	55	55	
est Virginia	70, 110cks. 00 70	55	65	55	
/isconsin	65	65	65	55	
Vyoming	75	60	65	65	

<sup>&</sup>lt;sup>1</sup> Many roads, particularly urban interstates, often have a lower posted speed limit than the maximum allowable shown in this

**KEY:** NA = not applicable.

NOTE: Interstates are divided into urban and rural sections based primarily on population size and population density.

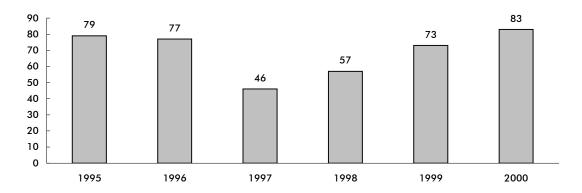
**SOURCE:** Insurance Institute for Highway Safety, Highway Loss Data Institute, available at http://www.hwysafety.org/safety\_facts/state\_laws/speed\_limit\_laws.htm as of Oct. 1, 2001.

<sup>&</sup>lt;sup>2</sup> Limited-access roads are multilaned roads with restricted access using exit and entrance ramps rather than intersections.

Table 2-9: Total Rail Accidents/Incidents: 2000

	Accidents/		Accidents/				
State	Incidents	<b>Fatalities</b>	Injuries	State	Incidents	<b>Fatalities</b>	Injuries
Alabama	257	20	143	Montana	156	4	108
Alaska	89	2	82	Nevada	40	1	25
Arizona	222	27	147	New Hampshire	18	0	15
Arkansas	371	30	225	New Jersey	528	28	432
California	1,133	101	808	Nebraska	362	8	247
Colorado	199	10	112	New Mexico	138	4	106
Connecticut	203	6	159	New York	1,330	32	1,168
Delaware	59	2	47	North Carolina	243	24	121
District of Columbia	107	0	90	North Dakota	122	9	82
Florida	405	45	303	Ohio	575	28	339
Georgia	395	23	231	Oklahoma	231	22	124
Hawaii	0	0	0	Oregon	214	9	152
Idaho	109	11	53	Pennsylvania	752	23	583
Illinois	1,484	69	1,109	Rhode Island	21	1	19
Indiana	540	36	317	South Carolina	192	20	141
lowa	367	9	211	South Dakota	64	3	43
Kansas	337	21	226	Tennessee	296	15	163
Kentucky	272	14	170	Texas	1,260	90	777
Louisiana	465	16	310	Utah	129	5	88
Maine	79	2	58	Vermont	29	1	22
Maryland	173	9	103	Virginia	252	13	169
Massachusetts	228	17	183	Washington	317	16	230
Michigan	434	23	300	West Virginia	128	9	93
Minnesota	431	11	303	Wisconsin	390	20	258
Mississippi	250	17	120	Wyoming	156	2	107
Missouri	367	29	221	United States	16,919	937	11,643

Figure 2-2: Missouri Train Accidents
(Excludes highway-grade crossing incidents and other incidents)



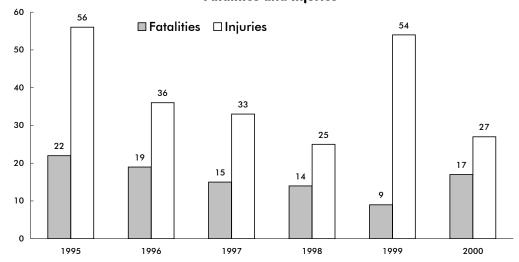
NOTE FOR DATA ON THIS PAGE: "Accidents/incidents" includes all events reportable to the U.S. Department of Transportation, Federal Railroad Administration under applicable regulations. These include: train accidents, reported on Form F 6180.54, comprised of collisions, derailments, and other events involving the operation of on-track equipment and causing reportable damage above an established threshold (\$6,600 in 1998); highway-rail grade crossing incidents, reported on Form F 6180.57, involving impact between railroad on-track equipment and highway users at crossings; and other incidents, reported on Form F 6180.55a, involving all other reportable incidents or exposures that cause a fatality or injury to any person, or an occupational illness to a railroad employee.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Federal Railroad Administration, Railroad Safety Statistics Annual Report 2000, Washington, DC: 2001, table 2-11, available at http://safetydata.fra.dot.gov/officeofsafety/ as of Oct. 22, 2001.

Table 2-10: Highway-Rail Grade Crossing Incidents: 2000

State	Number of grade crossings	Incidents	Fatalities	Injuries	State	Number of grade crossings	Incidents	Fatalities	Injuries
Alabama	5,418	95	10	39	Montana	3,514	24	1	2
Alaska	336	7	0	0	Nebraska	6,575	55	7	14
Arizona	1,628	29	8	13	Nevada	571	2	0	0
Arkansas	4,655	115	27	36	New Hampshire	637	3	0	0
California	12,775	174	27	54	New Jersey	2,493	36	5	10
Colorado	3,271	36	6	8	New Mexico	1,355	17	0	11
Connecticut	624	8	2	0	New York	6,216	41	5	14
Delaware	456	10	0	7	North Carolina	7,813	113	14	25
District of Columbia	42	2	0	0	North Dakota	6,343	17	6	2
Florida	5,324	86	15	67	Ohio	9,633	148	15	38
Georgia	8,453	128	10	38	Oklahoma	5,913	89	12	47
Hawaii	8	0	0	0	Oregon	5,213	30	0	13
Idaho	2,645	33	11	1	Pennsylvania	8,946	69	8	17
Illinois	13,916	217	31	68	Rhode Island	189	0	0	0
Indiana	9,129	194	23	55	South Carolina	4,270	80	10	24
Iowa	9,317	109	6	31	South Dakota	3,495	11	0	5
Kansas	10,756	67	11	18	Tennessee	5,062	90	8	26
Kentucky	5,037	69	5	20	Texas	18,289	388	52	164
Louisiana	6,726	181	14	88	Utah	1,755	18	2	7
Maine	1,680	8	1	1	Vermont	1,192	2	0	0
Maryland	1,390	19	1	2	Virginia	4,829	54	3	21
Massachusetts	1,679	12	1	4	Washington	5,749	45	1	10
Michigan	8,028	134	13	51	West Virginia	3,632	20	1	8
Minnesota	8,219	91	6	40	Wisconsin	7,043	122	15	49
Mississippi	4,850	113	15	44	Wyoming	1,151	3	0	0
Missouri	8,001	88	17	27	United States	256,241	3,502	425	1,219

Figure 2-3: Missouri Highway-Rail Grade Crossing Fatalities and Injuries



NOTE FOR DATA ON THIS PAGE: Any impact, regardless of severity, between railroad on-track equipment and any user of a public or private crossing site must be reported to the U.S. Department of Transportation, Federal Railroad Administration on Form F 6180.57. The vehicle crossing site includes sidewalks and pathways at, or associated with, the crossing. Counts of fatalities and injuries include motor vehicle occupants, people not in vehicles or on the trains, as well as people on the train or railroad equipment.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Federal Railroad Administration, Railroad Safety Statistics Annual Report 2000, Washington, DC: 2001, available at http://safetydata.fra.dot.gov/officeofsafety/ as of Oct. 22, 2001.

Table 2-11: Highway-Rail Grade Crossings by Type: 2000

	Miss	souri	United States		
	Number	Percent	Number	Percent	
Total	8,001	100.0	256,241	100.0	
Public, motor vehicle	4,709	58.9	155,370	60.6	
Private, motor vehicle	3,222	40.3	98,918	38.6	
Pedestrian	70	0.9	1,953	0.8	

**SOURCE:** U.S. Department of Transportation, Federal Railway Administration, Office of Railway Safety, Railroad Safety Statistics Annual Report 2000, Washington, DC: 2001, table 9-2, available at http://safetydata.fra.dot.gov/officeofsafety as of Nov. 21, 2001.

Table 2-12: Warning Devices at Public Highway-Rail Grade Crossings: 2000

	Miss	souri	United	States
	Number	Percent	Number	Percent
Total	4,709	100.0	155,370	100.0
Cross bucks	2,663	56.6	71,468	46.0
Gates	639	13.6	34,296	22.1
Flashing lights	917	19.5	27,100	17.4
Stop signs	125	2.7	11,630	7.5
Unknown	217	4.6	5,253	3.4
Special warning	93	2.0	3,723	2.4
HWTS, WW, bells	54	1.1	1,417	0.9
Other	1	< 0.1	483	0.3

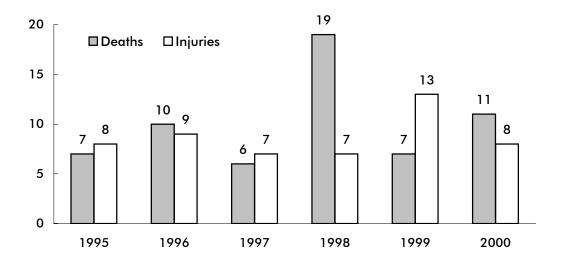
**KEY**: HWTS = highway traffic signals; WW = wigwags.

**SOURCE:** U.S. Department of Transportation, Federal Railway Administration, Office of Railway Safety, Railroad Safety Statistics Annual Report 2000, Washington, DC: 2001, table 9-4, available at http://safetydata.fra.dot.gov/officeofsafety as of Nov. 21, 2001.

Table 2-13: Types of People Injured in Missouri Train Accidents/Incidents: 2000 (Includes highway-rail crossing)

Type of person	Fatalities	Injuries
Worker on duty (railroad employee)	1	154
Employee not on duty	0	7
Passenger on train	0	8
Nontrespasser	15	25
Trespasser	13	9
Worker on duty (contractor)	0	5
Contractor (other)	0	12
Worker on duty (volunteer)	0	0
Volunteer (other)	0	0
Nontrespasser (off railroad property)	0	1

Figure 2-4: Railroad Trespasser Deaths and Injuries in Missouri (Excludes highway-rail crossing)



**NOTE FOR DATA ON THIS PAGE:** As defined by the U.S. Department of Transportation, Federal Railroad Administration, a trespasser is any person on a part of railroad property used in railroad operations whose presence is prohibited, forbidden, or unlawful. Employees who are trespassing on railroad property are reported as trespassers.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Federal Railroad Administration, Railroad Safety Statistics Annual Report 2000, Washington, DC: 2001, available at http://safetydata.fra.dot.gov/officeofsafety/ as of Oct. 22, 2001.

Table 2-14: Missouri Transit Safety Data: 2000

		Collision			ncollision		<b>Total property</b>
	Number of			Number of			damage
	incidents	<b>Fatalities</b>	Injuries	incidents	<b>Fatalities</b>	Injuries	(\$ thousands)
Automated guideway	0	0	0	0	0	0	0
Cable car	0	0	0	0	0	0	0
Commuter rail	0	0	0	0	0	0	0
Demand responsive	34	0	28	42	0	43	51
Ferry boat	0	0	0	0	0	0	0
Heavy rail	0	0	0	0	0	0	0
Light rail	2	2	2	66	0	66	26
Motor bus	330	1	817	580	0	585	455
Trolley bus	0	0	0	0	0	0	0
Van pool	2	0	0	0	0	0	3

Table 2-15: U.S. Transit Safety Data: 2000

	_	Collision			ncollision		Total property
	Number of			Number of			damage
	incidents	<b>Fatalities</b>	Injuries	incidents	<b>Fatalities</b>	Injuries	(\$ thousands)
Automated guideway	1	0	0	16	0	15	34
Cable car	10	0	15	10	0	11	10
Commuter rail	267	104	95	1,981	2	1,865	8,047
Demand responsive	3,055	6	1,603	1,510	11	1,494	6,910
Ferry boat	7	0	6	719	0	730	106
Heavy rail	389	55	316	12,388	22	10,530	5,034
Light rail	343	30	361	979	0	978	3,062
Motor bus	23,184	93	20,800	19,847	8	20,967	43,717
Trolley bus	122	0	103	257	0	265	103
Van pool	186	1	65	5	0	5	563

**NOTES FOR DATA ON THIS PAGE:** Collision includes at-grade crossings and suicides. Noncollision includes: 1) derailments/buses going off road; 2) personal casualties in parking facilities, inside vehicles, on right of way, boarding/alighting, and in station/bus stops; and 3) nonarson fires.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Federal Transit Administration, 2000 National Transit Database, available at http://www.ntdprogram.com as of Dec. 5, 2001.

Table 2-16: Recreational Boating Accidents: 2000

	Missouri	United States
Number of accidents		
Total	282	7,740
Fatal	10	616
Nonfatal injury	122	3,292
Property damage	150	3,832
Number of persons		
Killed	11	701
Injured	180	4,355

**NOTE:** Guam, Puerto Rico, and the Virgin Islands are included in the U.S. total.

■ Fatal accidents □ Fatalities 

Figure 2-5: Missouri Recreational Boating Accidents

**NOTES FOR DATA ON THIS PAGE:** An accident is listed under one category only, with fatal being the highest priority, followed by nonfatal injury, followed by property damage. For example, if two vessels are in an accident resulting in a fatality and a nonfatal injury, the accident is counted as a fatal accident involving two vessels.

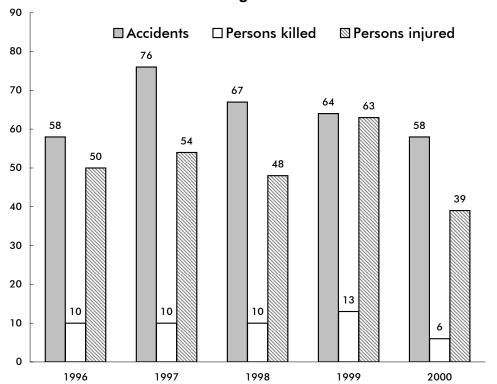
These data do not include: 1) accidents involving only slight injury not requiring medical treatment beyond first-aid; 2) accidents involving property damage of \$500 or less; 3) accidents not caused or contributed to by a vessel, its equipment, or its appendages; and 4) accidents in which the boat was used solely as a platform for other activities, such as swimming or skin diving. Such cases are not included because the victims freely left the safety of a boat. However, the data do include accidents involving people in the water who are struck by their boat or another boat.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, U.S. Coast Guard, *Boating Statistics*, 2000, Washington, DC: 2001, available at http://www.uscgboating.org/Saf/pdf/Boating\_Statistics\_2000.pdf as of Nov. 14, 2001.

Table 2-17: Alcohol Involvement in Recreational Boating

		1999	2000		
	Missouri	<b>United States</b>	Missouri	<b>United States</b>	
Number of accidents					
Total	64	633	58	696	
Number of persons					
Killed	13	191	6	215	
Injured	63	476	39	542	

Figure 2-6: Missouri Recreational Boating Accidents
Involving Alcohol



**NOTE FOR DATA ON THIS PAGE:** Alcohol involvement in a boating accident includes any accident in which alcoholic beverages are consumed in the boat and the investigating official has determined that the operator was impaired or affected while operating the boat.

**SOURCES FOR DATA ON THIS PAGE:** U.S. Department of Transportation, U.S. Coast Guard, *Boating Statistics* 2000, Washington, DC: 2001; U.S. Department of Transportation, U.S. Coast Guard, *Boating Statistics* 1999, Washington, DC: 2000, available at http://www.uscgboating.org/Saf/pdf/Boating\_Statistics\_2000.pdf and http://www.uscgboating.org/Saf/pdf/Boating\_Statistics\_1999.pdf as of Nov. 14, 2001.

Table 2-18: Hazardous Materials Incidents: 2000 (Not including pipelines)

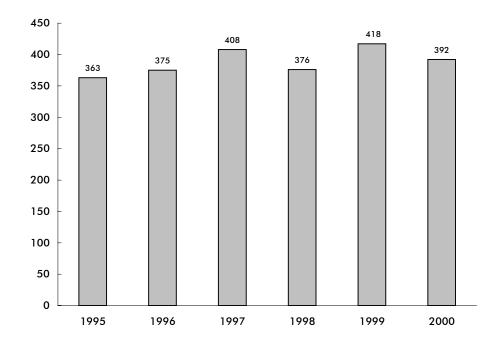
				Injuries	Damages	
	Incidents	Deaths	Total	Major	Minor	(\$ thousands)
Missouri	392	0	2	0	2	529
<b>United States</b>	17,514	13	246	18	228	72,728

NOTES: U.S. total includes U.S. territories or foreign locations.

Hazardous material incident locations are often listed as the terminals or sorting centers where they are discovered. Therefore, states with this type of a facility may show a disproportionate number of incidents.

Hazardous materials transportation incidents required to be reported are defined in the Code of Federal Regulations (CFR), 49 CFR Part 171.15, 171.16 (Form F 5800.1). Hazardous materials deaths and injuries are caused by the hazardous material in commerce.

Figure 2-7: Missouri Hazardous Materials Incidents (Not including pipelines)



**NOTE FOR DATA ON THIS PAGE:** Hazardous materials incident data are subject to revision and correction by the Office of Hazardous Materials Safety.

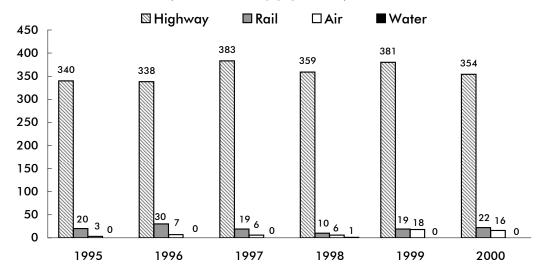
**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Research and Special Programs Administration, Office of Hazardous Materials Safety, *Hazmat Summary by State for Calendar Year 2000*, and earlier years, Washington, DC: 2002, available at http://hazmat.dot.gov as of Apr. 24, 2002.

Table 2-19: Missouri Hazardous Materials Incidents by Mode: 2000 (Not including pipelines)

			Injurie	es	Damages
Mode	Total incidents	Deaths	Major	Minor	(\$ thousands)
Highway	354	0	0	2	523
Rail	22	0	0	0	6
Air	16	0	0	0	0
Water <sup>1</sup>	0	0	0	0	0
Total	392	0	0	2	529

<sup>&</sup>lt;sup>1</sup> Includes only packaged shipments (i.e., nonbulk shipments).

Figure 2-8: Missouri Hazardous Materials Incidents by Mode (Not including pipelines)



**NOTE FOR DATA ON THIS PAGE:** Hazardous materials incident data are subject to revision and correction by the Office of Hazardous Materials Safety.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Research and Special Programs Administration, Office of Hazardous Materials Safety, *Hazmat Summary by State for Calendar Year 2000*, and earlier years, Washington, DC: 2002, available at http://hazmat.dot.gov/ as of Apr. 24, 2002.

**Table 2-20: Natural Gas Distribution Pipeline Incidents** 

	1995	1996	1997	1998	1999	2000
Missouri						
Number of incidents	1	6	5	4	4	5
Number of fatalities	0	2	0	0	1	1
Number of injuries	0	3	4	2	4	3
Property damage (\$ thousands)	80	1,370	270	578	87	260
United States, total						
Number of incidents	97	110	102	137	119	154
Number of fatalities	16	47 <sup>1</sup>	9	17	19	22
Number of injuries	43	109 <sup>1</sup>	67	65	85	59
Property damage (\$ thousands)	10,951	16,253 <sup>1</sup>	12,493	19,055	25,914	23,399

<sup>&</sup>lt;sup>1</sup> Includes 33 fatalities, 42 injuries, and \$5,000,000 property damage associated with an incident in San Juan, Puerto Rico that was attributed to natural gas at the time. The cause of the incident is currently in dispute and subject to litigation.

NOTE: Incidents are reported on Form RSPA F 7100.1.

**Table 2-21: Natural Gas Transmission Pipeline Incidents** 

	1995	1996	1997	1998	1999	2000
Missouri						
Number of incidents	0	2	1	0	0	0
Number of fatalities	0	0	0	0	0	0
Number of injuries	0	0	0	0	0	0
Property damage (\$ thousands)	0	240	500	0	0	0
United States, total						
Number of incidents	64	77	73	99	54	80
Number of fatalities	2	1	1	1	2	15
Number of injuries	10	5	5	11	8	18
Property damage (\$ thousands)	9,958	13,078	12,078	29,749	17,696	17,868

NOTE: Incidents are reported on Form RSPA F 7100.2.

## NOTES FOR DATA ON THIS PAGE: Incident means any of the following events:

Historical totals may change as the Office of Pipeline Safety receives supplemental information on incidents.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Research and Special Programs Administration, Office of Pipeline Safety, available at http://ops.dot.gov as of Jan. 7, 2002.

I. An event that involves a release of gas from a pipeline or of liquefied natural gas (LNG) facility and a) a death or personal injury necessitating in-patient hospitalization or b) estimated property damage, including cost of gas lost, of the operator or others, or both, of \$50,000 or more.

II. An event that results in an emergency shutdown of an LNG facility.

III. An event that is significant, in the judgment of the operator, even though it did not meet the criteria of I or II.

**Table 2-22: Hazardous Liquid Pipeline Incidents** 

	1995	1996	1997	1998	1999	2000
Missouri						
Number of incidents	1	5	2	3	1	0
Number of fatalities	0	0	0	0	0	0
Number of injuries	0	0	0	1	0	0
Property damage (\$ thousands)	75	251	225	12,091	10	0
United States, total						
Number of incidents	188	193	171	153	168	147
Number of fatalities	3	5	0	2	4	1
Number of injuries	11	13	5	6	20	4
Property damage (\$ thousands)	32,519	81,083	42,811	62,865	43,109	115,704

**NOTES**: Historical totals may change as the Office of Pipeline Safety receives supplemental information on incidents. Incidents are reported on Form RSPA F 7100.1. An accident report is required for each failure in a pipeline system in which there is a release of the hazardous liquid or carbon dioxide transported resulting in any of the following:

- 1. Explosion or fire not intentionally set by the operator;
- 2. Loss of 50 or more barrels (8 or more cubic meters) of hazardous liquid or carbon dioxide;
- 3. Escape to the atmosphere of more than 5 barrels (0.8 cubic meters) a day of highly volatile liquids;
- 4. Death of any person;
- 5. Bodily harm to any person resulting in: a. loss of consciousness; or b. necessity to carry the person from the scene; or c. necessity for medical treatment; or d. disability which prevents the discharge of normal duties or the pursuit of normal activities beyond the day of the accident;
- 6. Estimated property damage, including cost of clean-up and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.

**SOURCE**: U.S. Department of Transportation, Research and Special Programs Administration, Office of Pipeline Safety, available at http://ops.dot.gov as of Jan. 7, 2002.

C	Freight	Transportation

Table 3-1: Domestic Shipments to Missouri by State: 1997 (Descending order by weight)

State of origin	Rank	Value (\$ millions)	Weight (thousand short tons)	State of origin	Rank	Value (\$ millions)	Weight (thousand short tons)
Missouri	1	42,064	111,391	New York	27	4,497	458
Wyoming	2	307	33,922	New Jersey	28	2,079	445
Kansas	3	8,445	15,506	Virginia	29	931	351
Illinois	4	11,084	15,380	Oregon	30	472	260
lowa	5	3,901	5,505	West Virginia	31	320	237
Texas	6	5,612	4,921	Washington	32	586	202
Arkansas	7	3,737	3,981	Maryland	33	873	199
Louisiana	8	1,052	3,218	Montana	34	91	143
Indiana	9	6,360	2,948	Utah	35	244	132
Michigan	10	9,320	2,430	Arizona	36	1,055	127
Oklahoma	11	1,662	2,370	Idaho	37	202	119
Ohio	12	5,684	1,939	Delaware	38	109	111
Nebraska	13	1,236	1,852	Massachusetts	39	935	103
Colorado	14	874	1,476	Connecticut	40	809	81
Wisconsin	15	2,833	1,437	New Hampshire	41	239	51
Tennessee	16	2,848	1,348	Maine	42	148	34
Alabama	17	1,352	1,100	Vermont	43	134	25
Kentucky	18	2,063	1,084	Nevada	44	97	12
Georgia	19	3,993	1,034	Rhode Island	45	113	8
California	20	7,271	885	Alaska	46	S	S
North Carolina	21	1,863	772	District of Columbia	46	S	S
Pennsylvania	22	2,882	751	Hawaii	46	S	S
Mississippi	23	782	639	Minnesota	46	2,004	S
Florida	24	1,178	621	New Mexico	46	127	S
South Carolina	25	891	619	South Dakota	46	S	S
North Dakota	26	152	531	From all states		145,964	224,096

KEY: S = data do not meet publication standards because of high sampling variability or other reasons.

**NOTES:** The Commodity Flow Survey covers business establishments in mining, manufacturing, wholesale trade, and selected retail industries. The survey also covers selected auxiliary establishments (e.g., warehouses) of in-scope multiunit and retail companies. The survey excludes establishments classified as farms, forestry, fisheries, governments, construction, transportation, foreign establishments, services, and most establishments in retail. Due to industry-wide reporting problems, shipments by oil and gas extraction establishments are also excluded. "From all states" total includes all domestic shipments to the destination state, including intrastate shipments.

**SOURCE:** U.S. Department of Transportation, Bureau of Transportation Statistics and U.S. Department of Commerce, U.S. Census Bureau, 1997 Commodity Flow Survey, Washington, DC: 1999, available at http://www.bts.gov/ntda/cfs/cfs97od.html as of Nov. 2, 2001.

Table 3-2: Domestic Shipments from Missouri by State: 1997 (Descending order by weight)

State of destination	Rank	Value (\$ millions)	Weight (thousand short tons)	State of destination	Rank	Value (\$ millions)	Weight (thousand short tons)
Missouri	1	42,064	111,391	Massachusetts	27	967	393
Louisiana	2	1,994	10,365	Washington	28	942	391
Illinois	3	13,897	10,332	Utah	29	1,361	388
Kansas	4	7,328	7,270	Mississippi	30	1,159	365
Arkansas	5	3,500	6,506	Arizona	31	1,262	354
Texas	6	8,226	6,373	Virginia	32	1,358	347
Tennessee	7	2,887	6,328	Oregon	33	725	223
Indiana	8	4,425	2,557	Nevada	33	263	223
California	9	8,657	2,377	South Carolina	34	894	192
Oklahoma	10	2,188	2,181	Connecticut	35	357	106
Georgia	11	3,439	2,066	North Dakota	36	251	85
lowa	12	2,892	2,065	South Dakota	37	144	63
Pennsylvania	13	3,905	1,956	Montana	38	S	53
Ohio	14	4,302	1,390	New Hampshire	39	125	46
Wisconsin	15	2,065	1,289	Wyoming	40	146	42
Kentucky	16	1,637	1,134	Delaware	41	154	37
Florida	17	2,800	1,059	Maine	42	S	25
Michigan	18	4,122	1,031	Vermont	43	115	21
Minnesota	19	1,953	1,017	Rhode Island	44	94	14
Nebraska	20	1,989	968	Alaska	45	52	5
New Jersey	21	1,425	760	West Virginia	46	379	S
Alabama	22	1,176	711	New Mexico	47	338	S
North Carolina	23	3,285	552	Idaho	48	161	S
New York	24	2,214	543	District of Columbia	49	43	S
Maryland	25	1,352	525	Hawaii	50	S	S
Colorado	26	2,113	503	To all states		147,957	187,537

**KEY:** S = data do not meet publication standards because of high sampling variability or other reasons.

**NOTES:** The Commodity Flow Survey covers business establishments in mining, manufacturing, wholesale trade, and selected retail industries. The survey also covers selected auxiliary establishments (e.g., warehouses) of in-scope multiunit and retail companies. The survey excludes establishments classified as farms, forestry, fisheries, governments, construction, transportation, foreign establishments, services, and most establishments in retail. Due to industry-wide reporting problems, shipments by oil and gas extraction establishments are also excluded. "To all states" total includes all domestic shipments from the state of origin, including intrastate shipments.

**SOURCE:** U.S. Department of Transportation, Bureau of Transportation Statistics and U.S. Department of Commerce, U.S. Census Bureau, 1997 Commodity Flow Survey, Washington, DC: 1999, available at http://www.bts.gov/ntda/cfs/cfs97od.html as of Nov. 2, 2001.

Table 3-3: Shipments Originating in Missouri by Mode of Transportation: 1997

	Value	•	Short to	ns	Ton-mi	iles
	Number		Number		Number	
	(\$ millions)	Percent	(thousands)	Percent	(millions)	Percent
All modes	147,957	100.0	187,537	100.0	49,047	100.0
Single modes	121,192	81.9	181,456	96.8	46,468	94.7
Truck	98,922	66.9	147,252	78.5	22,766	46.4
For-hire	62,340	42.1	69,104	36.8	17,736	36.2
Private truck	36,326	24.6	76,246	40.7	4,922	10.0
Rail	18,338	12.4	14,308	7.6	10,285	21.0
Water	1,135	8.0	19,786	10.6	13,357	27.2
Shallow draft	1,135	8.0	19,786	10.6	13,357	27.2
Great Lakes	Z	Z	Z	Z	Z	Z
Deep draft	Z	Z	Z	Z	Z	Z
Air (including truck and air)	2,781	1.9	52	Z	60	0.1
Pipeline	16	Z	58	Z	S	S
Multiple modes	21,980	14.9	2,151	1.1	2,007	4.1
Parcel, U.S. Postal Service, or courier service	19,759	13.4	733	0.4	522	1.1
Truck and rail intermodal combination	2,202	1.5	1,408	8.0	1,419	2.9
Truck and water	S	S	S	S	S	S
Rail and water	Z	Z	Z	Z	Z	Z
Other multiple modes	S	Z S	S	S	S	S
Other and unknown modes	4,785	3.2	3,930	2.1	572	1.2

**KEY**:  $S = \text{data do not meet publication standards because of high sampling variability or other reasons; <math>Z = \text{zero or less than } 1$  unit of measurement.

**NOTES**: The Commodity Flow Survey covers business establishments in mining, manufacturing, wholesale trade, and selected retail industries. The survey also covers selected auxiliary establishments (e.g., warehouses) of in-scope multiunit and retail companies. The survey excludes establishments classified as farms, forestry, fisheries, governments, construction, transportation, foreign establishments, services, and most establishments in retail. Due to industry-wide reporting problems, shipments by oil and gas extraction establishments are also excluded.

**SOURCE**: U.S. Department of Transportation, Bureau of Transportation Statistics and U.S. Department of Commerce, U.S. Census Bureau, 1997 Commodity Flow Survey, Washington, DC: 1999, available at http://www.bts.gov/ntda/cfs/cfs97od.html as of Nov. 2, 2001.

Table 3-4: Domestic Shipments from Missouri by Truck: 1997 (Descending order by weight)

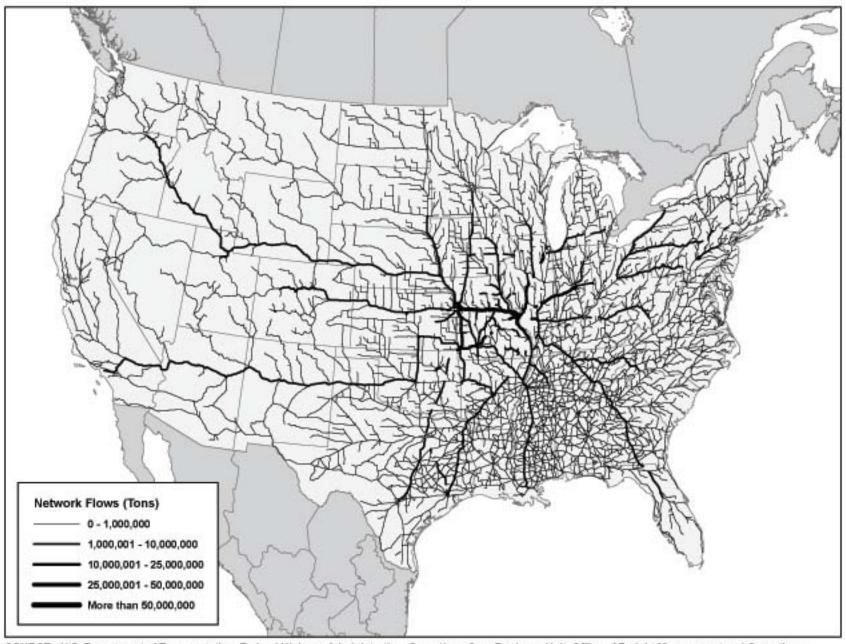
State of destination	Value (\$ millions)	Weight (thousand short tons)
Missouri	35,852	105,475
Illinois	8,792	7,499
Kansas	5,850	6,789
Arkansas	2,837	3,622
Texas	4,748	2,660
Indiana	3,573	1,968
lowa	2,092	1,687
Tennessee	2,063	1,531
Georgia	1,881	1,412
Oklahoma	1,570	1,338
All other states	29,664	13,271
Total, all states	98,922	147,252

Table 3-5: Domestic Shipments to Missouri by Truck: 1997 (Descending order by weight)

State of origin	Value (\$ millions)	Weight (thousand short tons)
Missouri	35,852	105,475
Kansas	7,403	11,688
Illinois	7,600	9,065
Texas	3,942	4,071
lowa	3,216	3,792
Arkansas	3,384	3,292
Indiana	5,504	2,497
Oklahoma	1,406	1,954
Ohio	4,100	1,571
Nebraska	1,061	1,393
All other states	33,136	13,465
Total, all states	106,604	158,263

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Bureau of Transportation Statistics and U.S. Department of Commerce, U.S. Census Bureau, 1997 Commodity Flow Survey, Washington, DC: 2000, data from CD-ROM, CD-EC97-CFS.

Map 3-1: Missouri Network Truck Flows: 1998



SOURCE: U.S. Department of Transportation, Federal Highway Administration, Operations Core Business Unit, Office of Freight Management and Operations

Table 3-6: Truck Shipments from Missouri by Commodity: 1997 (Descending order by weight)

Commodity (2-digit commodity code)	Value (\$ millions)	Weight (thousand short tons)
Gravel and crushed stone (12)	232	47,205
Nonmetallic mineral products (31)	1,887	16,549
Animal feed and products of animal origin, n.e.c. (04)	2,778	9,717
Other prepared foodstuffs and fats and oils (07)	8,628	7,567
Gasoline and aviation turbine fuel (17)	1,620	5,515
Chemical products and preparations, n.e.c. (23)	6,130	4,440
Cereal grains (02)	S	4,330
Milled grain products and preparations, and bakery products (06)	2,621	3,617
Fuel oils (18)	828	3,585
Alcoholic beverages (08)	2,891	3,513
Other agricultural products (03)	1,474	3,437
Base metal in primary or semifinished forms and in finished basic shapes (32)	3,899	3,241
Wood products (26)	1,528	2,639
Waste and scrap (41)	647	2,483
Motorized and other vehicles (including parts) (36)	8,663	2,126
Basic chemicals (20)	1,317	2,073
Fertilizers (22)	430	1,963
Articles of base metal (33)	3,424	1,915
Metallic ores and concentrates (14)	202	1,600
Meat, fish, seafood, and their preparations (05)	3,114	1,556
All other commodities	S	18,181
Total, all commodities	98,922	147,252

**KEY**: n.e.c. = not elsewhere classified; S = data do not meet publication standards because of high sampling variability or other reasons.

NOTE: There are 41 two-digit Standard Classification of Transported Goods (SCTG) commodity codes.

**SOURCE:** U.S. Department of Transportation, Bureau of Transportation Statistics and U.S. Department of Commerce, U.S. Census Bureau, 1997 Commodity Flow Survey, Washington, DC: 2000, data from CD-ROM, CD-EC97-CFS.

Table 3-7: Rail Shipments Terminating in Missouri (Short tons)

		Percent of			
Commodity	1999	total	2000	total	
Coal	50,449,027	69.1	47,428,812	68.5	
Farm products	4,517,054	6.2	3,967,817	5.7	
Transportation equipment	4,092,646	5.6	3,664,748	5.3	
Chemicals	2,664,980	3.6	3,506,290	5.1	
Food products	2,361,148	3.2	2,210,864	3.2	
All other commodities	8,940,510	12.2	8,457,612	12.2	
Missouri, total	73,025,365	100.0	69,236,143	100.0	

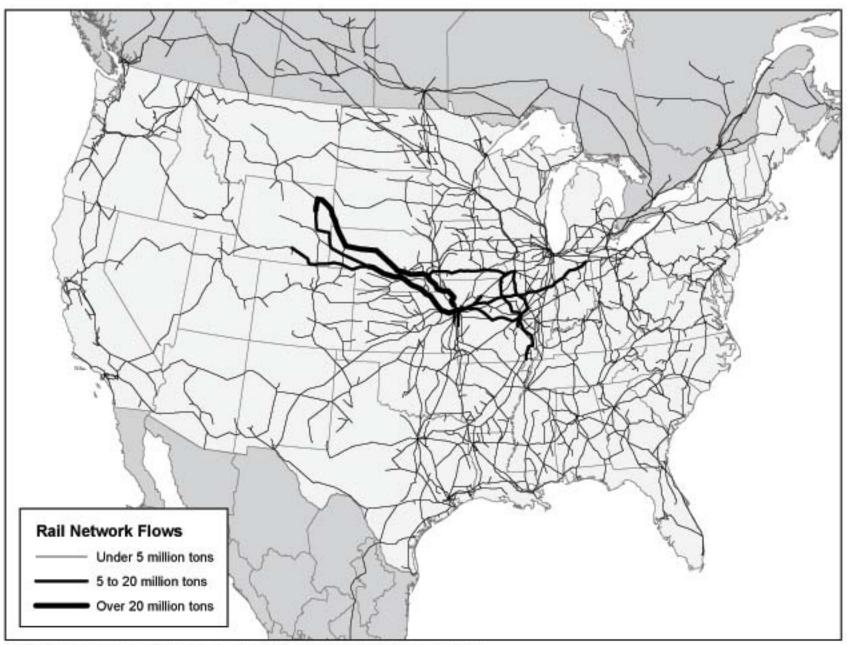
Table 3-8: Rail Shipments Originating in Missouri (Short tons)

		Percent of		Percent of
Commodity	1999	total	2000	total
Transportation equipment	3,934,298	21.2	3,882,768	20.7
Food products	3,523,988	19.0	3,671,380	19.5
Farm products	2,381,357	12.8	2,901,848	15.4
Mixed freight	2,409,720	13.0	2,220,880	11.8
Glass and stone products	2,090,236	11.2	2,059,352	11.0
All other commodities	4,253,941	22.9	4,061,220	21.6
Missouri, total	18,593,540	100.0	18,797,448	100.0

**NOTE FOR DATA ON THIS PAGE:** Includes the five largest commodities (by tonnage terminated or originated) of the 38 two-digit Standard Transportation Commodity Code groupings plus all others for state total. Includes intrastate shipments.

**SOURCES FOR DATA ON THIS PAGE:** Association of American Railroads, Railroads and States-2000, Washington, DC: January 2002, available at http://www.aar.org/abouttheindustry/stateinformation.asp as of Mar. 18, 2002; and Railroads and States -1999, Washington, DC: January 2002, available at http://www.aar.org/abouttheindustry/stateinformation.asp as of Mar. 18, 2002.

Map 3-2: Missouri Total Rail Flows: 1999



SOURCE: U.S. Department of Transportation, Federal Railroad Administration, Office of Policy

Table 3-9: Foreign and Domestic Waterborne Shipments Originating in Missouri by Destination: 2000

Destination	Short tons	Percent of total
Total originating in Missouri	26,055,302	100.0
Louisiana	10,031,973	38.5
Missouri (intrastate)	8,998,306	34.5
Tennessee	3,039,707	11.7
Illinois	941,651	3.6
West Virginia	677,929	2.6
Mississippi	538,491	2.1
Texas	498,697	1.9
Kentucky	362,999	1.4
lowa	296,354	1.1
Alabama	264,430	1.0
Arkansas	143,593	0.6
Wisconsin	98,121	0.4
Pennsylvania	58,771	0.2
Kansas	55,625	0.2
Ohio	25,526	< 0.1
Minnesota	11,765	< 0.1
Florida	5,425	< 0.1
Indiana	3,006	< 0.1
Oklahoma	1,607	< 0.1
Nebraska	1,326	< 0.1

Table 3-10: Foreign and Domestic Waterborne Shipments to Missouri by Origin: 2000

Origin	Short tons	Percent of total
Total shipped to Missouri	17,672,215	100.0
Missouri (intrastate)	8,998,306	50.9
Louisiana	2,890,886	16.4
Illinois	2,690,834	15.2
West Virginia	595,077	3.4
Ohio	549,669	3.1
Tennessee	426,854	2.4
Texas	401,798	2.3
Kentucky	215,140	1.2
Kansas	210,300	1.2
Alabama	194,805	1.1
Minnesota	166,597	0.9
Indiana	96,775	0.5
lowa	72,953	0.4
Oklahoma	54,130	0.3
Mississippi	52,140	0.3
Arkansas	38,097	0.2
Pennsylvania	13,416	< 0.1
Wisconsin	3,038	< 0.1
Nebraska	1,400	< 0.1

**SOURCE FOR DATA ON THIS PAGE:** U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *Origin and Destination of Waterborne Commerce of the United States*, 2000, available at http://www.wrsc.usace.army.mil as of Feb.12, 2002.

Table 3-11: Foreign and Domestic Waterborne Shipments Originating in Missouri by Commodity: 2000<sup>1</sup>

		Percent of
Commodity	Short tons	total
Total	26,055,302	100.0
Sand, gravel, shells, clay, salt, and slag	13,514,683	51.9
Food and food products	7,397,321	28.4
Primary nonmetal products	2,773,133	10.6
Iron ore, iron, and steel waste and scrap	230,434	0.9
Non-ferrous ores and scrap	44,606	0.2
Chemical fertilizers	40,507	0.2
Petroleum products	34,202	0.1
Lumber, logs, wood chips, and pulp	31,158	0.1
Unknown and not elsewhere classified products <sup>2</sup>	1,989,258	7.6

Table 3-12: Domestic Waterborne Shipments Originating in Missouri by Commodity: 2000<sup>1</sup>

		Percent of
Commodity	Short tons	total
Total	26,055,302	100.0
Sand, gravel, shells, clay, salt, and slag	13,514,683	51.9
Food and food products	7,397,321	28.4
Primary nonmetal products	2,773,133	10.6
Iron ore, iron, and steel waste and scrap	230,434	0.9
Non-ferrous ores and scrap	44,606	0.2
Chemical fertilizers	40,507	0.2
Petroleum products	34,202	0.1
Lumber, logs, wood chips, and pulp	31,158	0.1
Unknown and not elsewhere classified products <sup>2</sup>	1,989,258	7.6

<sup>&</sup>lt;sup>1</sup> "Domestic" includes intrastate shipments.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, State to State and Region to Region Commodity Tonnages, Public Domain database, available at http://www.wrsc.usace.army.mil/ndc/datapdom.htm as of Oct. 30, 2001.

<sup>&</sup>lt;sup>2</sup> To protect confidentiality, if three or more vessel operating companies do not carry a particular commodity from a state of origin to a state of destination, then that commodity is reclassified to "unknown and not elsewhere classified products."

Table 3-13: Foreign and Domestic Waterborne Shipments to Missouri by Commodity: 2000<sup>1</sup>

Commodity	Short tons	Percent of total
Total	17,672,215	100.0
Sand, gravel, shells, clay, salt, and slag	8,377,989	47.4
Coal, lignite, and coal coke	2,602,856	14.7
Petroleum products	1,296,279	7.3
Primary nonmetal products	1,234,848	7.0
Chemical fertilizers	855,758	4.8
Chemicals excluding fertilizers	445,001	2.5
Primary metal products	360,631	2.0
Non-ferrous ores and scrap	299,743	1.7
Food and food products	101,452	0.6
Unknown and not elsewhere classified products <sup>2</sup>	2,097,658	11.9

Table 3-14: Domestic Waterborne Shipments to Missouri by Commodity: 2000<sup>1</sup>

		Percent of
Commodity	Short tons	total
Total	17,672,215	100.0
Sand, gravel, shells, clay, salt, and slag	8,377,989	47.4
Coal, lignite, and coal coke	2,602,856	14.7
Petroleum products	1,296,279	7.3
Primary nonmetal products	1,234,848	7.0
Chemical fertilizers	855,758	4.8
Chemicals excluding fertilizers	445,001	2.5
Primary metal products	360,631	2.0
Non-ferrous ores and scrap	299,743	1.7
Food and food products	101,452	0.6
Unknown and not elsewhere classified products <sup>2</sup>	2,097,658	11.9

<sup>&</sup>lt;sup>1</sup> "Domestic" includes intrastate shipments

**SOURCE FOR DATA ON THIS PAGE:** U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, State to State and Region to Region Commodity Tonnages, Public Domain database, available at http://www.wrsc.usace.army.mil/ndc/datapdom.htm as of Oct. 30, 2001.

<sup>&</sup>lt;sup>2</sup> To protect confidentiality, if three or more vessel operating companies do not carry a particular commodity from a state of origin to a state of destination, then that commodity is reclassified to "unknown and not elsewhere classified products."

Table 3-15: Scheduled and Nonscheduled Air Freight and Mail Enplaned: 2000 (Short tons)

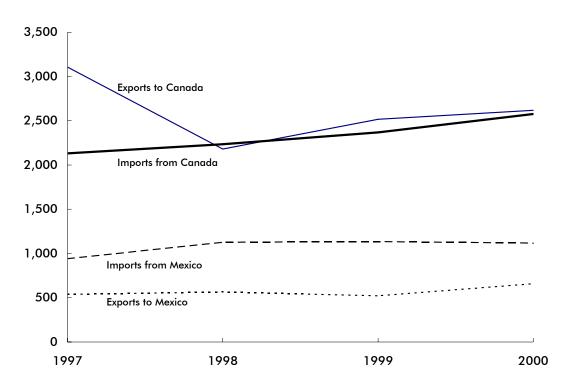
	Freight			Mail
State	Scheduled	Nonscheduled	Scheduled	Nonscheduled
Alabama	17,233	139,250	6,796	25
Alaska	467,057	141,482	52,354	10,232
Arizona	70,430	66,143	36,115	27,465
Arkansas	1,886	12,578	6,534	2,955
California	1,176,476	504,757	237,537	87,278
Colorado	106,816	61,503	55,370	31,711
Connecticut	14,802	54,627	10,260	1,575
Delaware	0	3,251	0	0
District of Columbia	92,526	6,208	46,511	6,615
Florida	461,831	334,177	85,818	14,182
Georgia	204,986	66,293	116,174	3,961
Hawaii	208,048	52,473	33,768	476
Idaho	11,231	5,064	3,065	1,307
Illinois	318,957	202,867	112,959	9,111
Indiana	408,262	85,326	24,814	134,145
lowa	15,346	53,766	7,429	3,984
Kansas	6,200	20,199	2,597	18
Kentucky	16,427	823,924	5,093	0
Louisiana	29,577	21,753	11,399	1,758
Maine	8,428	11,368	185	91
Maryland	25,723	24,781	19,850	3,573
Massachusetts	114,243	422,158	31,133	9,384
Michigan	87,127	68,108	41,678	4,848
Minnesota	85,691	51,285	59,550	9,192
Mississippi	398	11,338	2,198	0
Missouri	71,317	67,157	67,876	4,120
Montana	16,261	7,917	1,987	3,341
Nebraska	12,188	26,366	10,825	6,546
Nevada	45,636	12,641	30,407	1,373
New Hampshire	17,995	30,439	740	11
New Jersey	352,556	115,712	54,837	4,550
New Mexico	12,845	29,355	9,327	3,379
New York	317,258	167,388	113,892	5,622
North Carolina	85,996	85,765	35,985	3,498
North Dakota	5,424	383	222	2,820
Ohio	283,292	292,529	48,750	6,442
Oklahoma	25,773	16,804	9,022	9
Oregon	73,035	59,101	12,655	22,729
Pennsylvania	156,043	312,359	45,377	9,035
Puerto Rico	78,117	44,530	4,319	3,312
Rhode Island	3,883	2,753	2,543	0
South Carolina	17,237	76,688	3,234	6
South Dakota	8,114	12,298	1,040	4,583
Tennessee	1,324,829	60,779	31,342	6,417
Texas	440,864	482,724	138,548	47,644
Utah .	66,549	133,609	30,908	25,073
Vermont	3,257	19	122	0
Virginia	20,961	35,881	5,189	3,492
Washington	152,299	84,367	34,449	55,975
West Virginia	4,306	128	11.550	1 000
Wisconsin	30,060	19,618	11,558	1,088
Wyoming	6,786	5 422 002	1 714 249	594.050
United States, total	7,582,577	5,422,002	1,714,348	584,950

**SOURCE:** U.S. Department of Transportation, Bureau of Transportation Statistics, Airport Activity Statistics of Certificated Air Carriers: Summary Tables, Twelve Months Ending December 31, 2000, Washington, DC: 2001, available at http://www.bts.gov/publications/airactstats2000/ as of Oct. 29, 2001.

Table 3-16: Surface Merchandise Trade with Canada and Mexico: 2000 (Millions of current dollars)

	Exports to		Imports from	
	Canada	Mexico	Canada	Mexico
Missouri	2,618	659	2,577	1,119
United States, total	154,847	97,159	210,270	113,437

Figure 3-1: Missouri Surface Merchandise Trade with Canada and Mexico (Millions of current dollars)



**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Bureau of Transportation Statistics, *Transborder Surface Freight Data*, available at http://www.bts.gov/ntda/tbscd/reports.html as of August 2002.

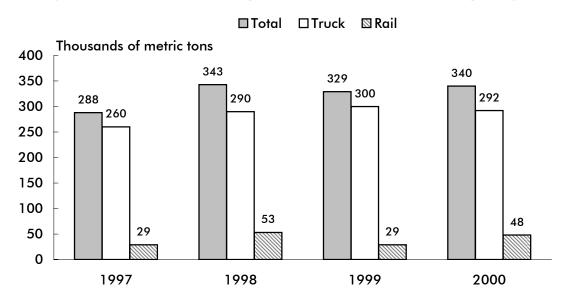
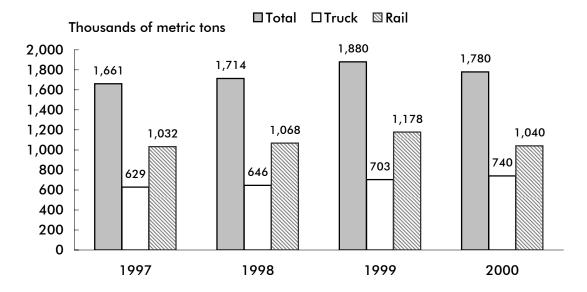


Figure 3-2: Truck and Rail Imports from Mexico to Missouri by Weight

Figure 3-3: Truck and Rail Imports from Canada to Missouri by Weight



**NOTES FOR DATA ON THIS PAGE:** Data do not include transshipment activity. Transshipments are shipments that enter or exit the United States by way of a U.S. Customs port on the northern or southern border, but whose origin or destination is a country other than Canada or Mexico. All figures are based on the declared gross shipment weight and include packaging. Shipping weight for imports may be underestimated because U.S. Customs Service does not require weight to be reported at the individual commodity level for surface trade.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Bureau of Transportation Statistics, *Transborder Surface Freight Data*, available at http://www.bts.gov/ntda/tbscd/reports.html as of August 2002.

## **D** Passenger Travel

Table 4-1: Commuting to Work: 2000

	Missouri		United States		
Mode	Number Percen		Number	Percent	
Total	2,592,613	100.0	127,448,586	100.0	
Car, truck, or van drove alone	2,106,076	81.2	97,243,457	76.3	
Car, truck, or van carpooled	280,511	10.8	14,299,090	11.2	
Public transportation (including taxi)	31,814	1.2	6,592,685	5.2	
Walked	54,601	2.1	3,417,546	2.7	
Other means	28,270	1.1	1,820,578	1.4	
Worked at home	91,341	3.5	4,075,230	3.2	
Mean travel time to work (minutes)	23.2		24.3		

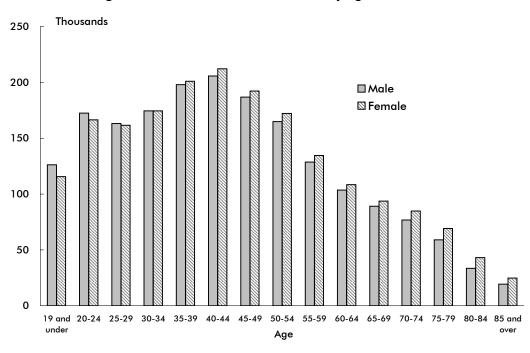
NOTE: Data are for workers 16 years and over.

**SOURCE:** U.S. Department of Commerce, U.S. Census Bureau, Census 2000 Supplementary Survey, Profile of Selected Economic Characteristics, available at http://www.census.gov/c2ss/www/ as of Oct. 16, 2001.

Table 4-2: Licensed Drivers: 2000

	Misso	ouri	United States		
Licensed drivers	Number	Percent	Number	Percent	
Total	3,856,271	100.0	190,625,023	100.0	
Male	1,901,549	49.3	95,796,069	50.3	
Female	1,954,722	50.7	94,828,953	49.7	

Figure 4-1: Licensed Drivers in Missouri by Age and Sex: 2000



**SOURCE FOR TABLE 4-2 and FIGURE 4-1:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* 2000, Washington, DC: 2001.

Table 4-3: Urban Transit Agencies in Missouri: 2000

Transit agencies	Modes provided	Urbanized area	Annual unlinked passenger trips	Average weekday unlinked trips	Operating funds expended (\$ millions)	expended	Vehicles available for maximum service
Bi-State Development Agency	Bus, demand responsive, light rail	St. Louis, MO-IL	52,137	168	127	134	678
Kansas City Area Transportation Authority	Bus, demand responsive, vanpool	Kansas City, MO-KS	15,193	51	49	14	435
City Utilities of Springfield Transit Services (The Bus)	Bus, demand responsive	Springfield, MO	1,262	4	4	4	28
Southwest Missouri State University (SMSU)	Bus	Springfield, MO	663	2	1	1	16
St. Joseph Transit Managament	Bus, demand responsive	St. Joseph, MO-KS	482	2	2	<1	21
Columbia Area Transit System	Bus, demand responsive	Columbia, MO	480	2	2	0	22

**SOURCE:** U.S. Department of Transportation, Federal Transit Administration, National Transit Database, available at http://www.ntdprogram.com/NTD/Profiles.nsf/ProfileInformation?OpenForm&2000&All as of Dec. 6, 2001.

Table 4-4: Missouri Airports in Top 50 by Passengers Enplaned: 2000

		Passenger
Airport	Rank	enplanements
Missouri, all airports	Kuiik	21,165,695
St. Louis (Lambert-St.Louis International)	13	15,101,246
Kansas City (Kansas City International)	36	5,748,758
Other top 50 airports		3,7 40,700
Atlanta, GA (Hartsfield International)	1	38,255,778
Chicago, IL (O'Hare International)	2	30,888,464
Dallas/Fort Worth, TX (Dallas/Fort Worth International)	3	27,841,040
Los Angeles, CA (Los Angeles International)	4	25,109,993
Denver, CO (Denver International)	5	17,643,261
Phoenix, AZ (Sky Harbor International)	6	17,239,215
Detroit, MI (Detroit Metropolitan)	7	16,929,968
Las Vegas, NV (McCarran International)	8	16,738,909
Minneapolis, MN (Minneapolis-St. Paul International)	9	16,710,197
San Francisco, CA (San Francisco International)	10	16,664,399
Houston, TX (George Bush Intercontinental)	11	15,814,709
	12	15,205,447
Newark, NJ (Newark International)	14	13,465,706
Orlando, FL (Orlando International)	15	, ,
Seattle, WA (Seattle-Tacoma International)		13,308,253
Miami, FL (Miami International)	16	12,654,506
Boston, MA (Logan International)	17	11,505,983
New York, NY (La Guardia)	18	11,425,705
Philadelphia, PA (Philadelphia International)	19	10,973,074
New York, NY (John F. Kennedy International)	20	10,648,410
Charlotte, NC (Charlotte/Douglas International)	21	10,377,837
Cincinnati, OH (Greater Cincinnati)	22	9,962,765
Baltimore, MD (Baltimore-Washington International)	23	8,979,425
Salt Lake City, UT (Salt Lake City International)	24	8,700,973
Honolulu, HI (Honolulu International)	25	8,684,893
Pittsburgh, PA (Pittsburgh International)	26	8,650,976
San Diego, CA (San Diego International-Lindbergh Field)	27	7,624,519
Tampa, FL (Tampa International)	28	7,430,829
Miami/Fort Lauderdale, FL (Fort Lauderdale-Hollywood International)	29	7,140,518
Washington, DC (Ronald Reagan Washington National)	30	6,983,212
Chicago, IL (Midway)	31	6,972,213
Washington, DC (Washington Dulles International)	32	6,649,323
Portland, OR (Portland International Jetport)	33	6,558,859
Cleveland, OH (Cleveland Hopkins International)	34	6,154,094
San Jose, CA (Norman Y. Mineta San Jose International)	35	6,044,278
Oakland, CA (Metropolitan Oakland International)	37	5,126,648
Memphis, TN (Memphis International)	38	4,977,238
Raleigh-Durham, NC (Raleigh-Durham International)	39	4,838,779
San Juan, PR (Luis Munoz Marin International)	40	4,834,298
New Orleans, LA (Louis Armstrong New Orleans International)	41	4,822,265
Nashville, TN (Nashville International)	42	4,365,127
Houston, TX (William P. Hobby)	43	4,322,108
Sacramento, CA (Sacramento International)	44	3,873,003
Los Angeles, CA (John Wayne Airport-Orange County)	45	3,828,324
Austin, TX (Robert Muller Municipal)	46	3,635,209
Indianapolis, IN (Indianapolis International)	47	3,629,716
Dallas, TX (Dallas Love Field)	48	3,594,539
Hartford/Springfield/Westfield, CT (Windsor Locks Bradley International)	49	3,508,023
San Antonio, TX (San Antonio International)	50	3,466,266
United States, all airports		638,902,993
Top 50 as % of all enplanements		84%

**NOTE:** Rank order by total enplaned passengers on large certificated U.S. air carriers, scheduled and nonscheduled operations, at all airports served within the 50 states, the District of Columbia, and other U.S. areas designated by the Federal Aviation Administration. These air carriers operate aircraft with more than 60 seats or a payload capacity of more than 18,000 pounds. Data for commuter, intrastate, and foreign-flag air carriers are not included. Data differ from those in table 1-11 which include enplaned passengers on air carriers of all types, including foreign-flag carriers.

**SOURCE:** U.S. Department of Transportation, Bureau of Transportation Statistics, Airport Activity Statistics of Certificated Air Carriers: Summary Tables, Twelve Months Ending December 31, 2000, Washington, DC: 2001, available at http://www.bts.gov/publications/airactstats2000/ as of Dec. 28, 2001.

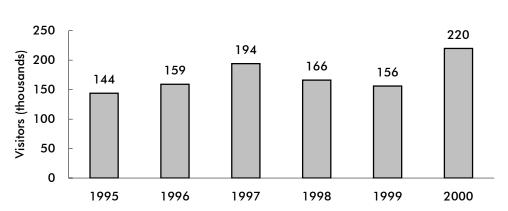


Figure 4-2: Overseas Visitors to Missouri<sup>1</sup>

**SOURCES:** U.S. Department of Commerce, International Trade Administration, Office of Tourism Industries, Overseas Visitors to Select U.S. States and Territories 2000-1999 (Ranked by 2000 Market Share), Washington, DC: 2001, available at http://tinet.ita.doc.gov/ as of Oct. 19, 2001; U.S. Department of Commerce, International Trade Administration, Office of Tourism Industries, Overseas Visitors to Select U.S. States and Territories 1996-1995, Washington, DC: 2001, available at http://tinet.ita.doc.gov/ as of Nov. 13, 2001.

<sup>&</sup>lt;sup>1</sup>International travelers to the United States from Canada and Mexico are not included.

## E Registered Vehicles and Vehicle-Miles Traveled

Table 5-1: Missouri and U.S. Motor-Vehicle Registrations: 2000

Motor vehicle type	Private and commercial	Publicly owned	Missouri total	United States total
All motor vehicles	4,607,179	33,390	4,640,569	225,821,241
Automobiles	2,707,773	7,442	2,715,215	133,621,420
Buses	4,574	8,411	12,985	746,125
Trucks <sup>1</sup>	1,833,935	17,494	1,851,429	87,107,628
Light trucks	1,709,882	U	1,709,882	77,796,827
Farm trucks	99,870	U	99,870	1,885,170
Truck tractors	49,029	U	49,029	1,587,611
Motorcycles	60,897	43	60,940	4,346,068

<sup>&</sup>lt;sup>1</sup> Includes light trucks (pickups, vans, sport utility vehicles, and other light trucks) as well as medium and large trucks.

**KEY**: U = data are unavailable.

**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* 2000, Washington, DC: 2001, tables MV-1 and MV-9.

Table 5-2: Missouri and U.S. Trailer and Semi-Trailer Registrations: 2000<sup>1</sup>

Туре	Missouri	United States
Total	350,584	21,541,490
Private and commercial	349,995	21,283,681
Commercial trailers <sup>2</sup>	100,607	4,685,606
Light farm trailers, car trailers, etc. <sup>3</sup>	249,388	14,113,392
House trailers	N	2,484,683
Publicly owned	589	257,809
Federal government	127	4,277
State, county, municipal government	462	253,532

<sup>&</sup>lt;sup>1</sup> The completeness of data on trailer registrations varies greatly among states. Data are reported to the extent available and, in some cases, are supplemented by estimates of the Federal Highway Administration.

**KEY**: N = data do not exist.

**NOTE**: Mobile homes and house trailers are shown for states that require registration and are able to segregate them from other trailers. In states where this classification is not available, house trailers are included with light car trailers.

**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* 2000, Washington, DC: 2001, table MV-11.

<sup>&</sup>lt;sup>2</sup> This row includes all commercial type vehicles and semi-trailers that are in private or for-hire use.

<sup>&</sup>lt;sup>3</sup> Several states do not require the registration of light farm or automobile trailers.

Table 5-3: Missouri Truck Characteristics and Use: 1997 (Percent unless otherwise specified)

Vehicular and operational characteristics	All trucks	Trucks, excluding pickups, panels, vans, sport utilities, and station wagons	Vehicular and operational characteristics	All trucks	Trucks, excluding pickups, panels, vans, sport utilities, and station wagons
Total, number (thousands)	1,626.7	135.8			
Major use	100.0	100.0	Year model	100.0	100.0
Agriculture	7.7	22.5	1 to 2 years old	15.5	9.9
Forestry and lumbering	0.1	1.5	3 to 4 years old	17.1	12.7
Mining and quarrying	0.2	0.8	Over 4 years old	67.4	77.3
Construction	8.7	18.3			
Manufacturing	0.7	4.0	Vehicle acquisition	100.0	100.0
Wholesale and retail trade	2.5	14.9	Purchased new	41.4	35.6
For-hire transportation	1.0	12.5	Purchased used	54.1	54.5
Utilities and service	7.3	16.7	Leased from someone or	4.5	9.9
Personal transportation	69.7	4.7	not reported		
Other and not reported	2.1	4.2			
			Truck type	100.0	100.0
Body type	100.0	100.0	Single-unit trucks	97.0	67.9
Pickup, panel, minivan, and	91.7	NA	2 axles	96.0	55.6
sport utility			3 axles or more	1.0	12.3
Platform and cattlerack	3.0	36.1	Combination	3.0	32.1
Van	2.1	24.6	3 axles	0.3	1.9
Public utility	0.2	2.5	4 axles	0.6	6.0
Multistop or stepvans	0.4	4.6	5 axles or more	2.0	24.3
Dump	0.8	9.1	Trailer not specified	V	V
Tank for liquids or dry bulk	0.4	4.9			
Other or not reported	1.5	18.2	Range of operation	100.0	100.0
			Local	67.6	57.0
Vehicle size	100.0	100.0	Short-range	22.0	20.2
Light	92.5	15.8	Long-range	5.4	16.6
Medium	2.3	22.2	Off-the-road or not		
Light-heavy	1.2	14.3	reported	5.0	6.1
Heavy-heavy	4.0	47.7			
			Fuel type	100.0	100.0
Annual miles driven	100.0	100.0	Gasoline	92.9	42.4
Less than 5,000	18.3	31.8	Diesel, liquefied gas,	7.1	57.4
5,000 to 9,999	18.2	14.0	and other		
10,000 to 19,999	41.3	15.1	Not reported	V	0.2
20,000 to 29,999	14.5	11.0			
30,000 or more	7.7	28.0			

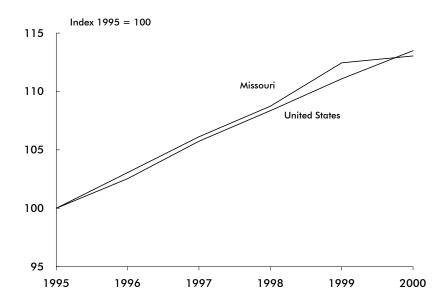
**KEY:** NA = not applicable; V = less than 0.05 percent.

**SOURCE**: U.S. Department of Commerce, U.S. Census Bureau, Vehicle Inventory and Use Survey, state-specific report, Washington, DC: 1999, available at http://www.census.gov/econ/www/viusmain.html as of Dec. 27, 2001.

Table 5-4: Highway Vehicle-Miles Traveled (VMT): 2000

	Total VMT	VMT per		Total VMT	VMT p
State	(millions)	capita	State	(millions)	capit
Alabama	56,534	12,716	Montana	9,882	10,81
Alaska	4,613	7,501	Nebraska	18,081	10,56
Arizona	49,768	11,428	Nevada	17,639	9,50
Arkansas	29,167	11,107	New Hampshire	12,021	9,68
California	306,649	9,053	New Jersey	67,446	8,01
Colorado	41,771	9,712	New Mexico	22,760	13,58
Connecticut	30,756	9,057	New York	129,057	6,80
Delaware	8,240	10,510	North Carolina	89,504	11,12
Dist. of Columbia	3,498	6,115	North Dakota	7,217	11,24
Florida	152,136	9,609	Ohio	105,898	9,32
Georgia	105,010	12,969	Oklahoma	43,355	12,56
Hawaii	8,543	7,014	Oregon	35,010	11,17
ldaho	13,534	10,467	Pennsylvania	102,337	8,31
Illinois	102,866	8,225	Rhode Island	8,359	8,32
Indiana	70,862	12,779	South Carolina	45,538	7,97
lowa	29,433	10,059	South Dakota	8,432	11,16
Kansas	28,130	10,599	Tennessee	65,732	11,69
Kentucky	46,803	11,579	Texas	220,064	10,61
Louisiana	40,849	9,430	Utah	22,597	11,22
Maine	14,190	11,129	Vermont	6,811	11,18
Maryland	50,174	9,809	Virginia	74,801	10,56
Massachusetts	52,796	8,513	Washington	53,330	9,25
Michigan	97,792	9,839	West Virginia	19,242	10,68
Minnesota	52,601	10,693	Wisconsin	57,266	10,26
Mississippi	35,536	12,187	Wyoming	8,090	16,41
Missouri	67,083	11,990	United States	2,749,803	9,81

Figure 5-1: Highway Vehicle-Miles Traveled, United States and Missouri



**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, annual editions, available at http://www.fhwa.dot.gov/ohim/ohimstat.htm as of Dec. 6, 2001.

Table 5-5: Highway, Demographic, and Geographic Characteristics of Urbanized Areas in Missouri: 2000

Federal-aid urbanized area	Total roadway miles	Total DVMT (thousands)	Estimated population (thousands)	Net land area (square miles)	Persons per square mile	Miles of roadway per thousand persons	Total DVMT per capita	Total estimated freeway lane miles <sup>2</sup>	Average daily traffic per freeway lane mile
St. Louis, MO-IL	8,064	58,761	2,044	1,124	1,819	3.9	28.7	1,766	14,578
Kansas City, MO-KS	7,545	41,187	1,422	1,036	1,373	5.3	29.0	1,717	11,246
Springfield	902	4,151	179	90	1,989	5.0	23.2	122	12,282
Columbia	382	2,100	93	57	1,632	4.1	22.6	114	8,645
St. Joseph, MO-KS	518	1,587	78	58	1,345	6.6	20.3	81	4,837
Joplin	527	1,992	72	74	973	7.3	27.7	37	8,561

<sup>&</sup>lt;sup>1</sup> A "federal-aid urbanized area" is an area with 50,000 or more persons that, at a minimum, encompasses the land area delineated as the urbanized area by the U.S. Census Bureau. Areas are ranked by population. <sup>2</sup> Lane miles estimated by the Federal Highway Administration (FHWA).

**KEY:** DVMT = daily vehicle-miles of travel.

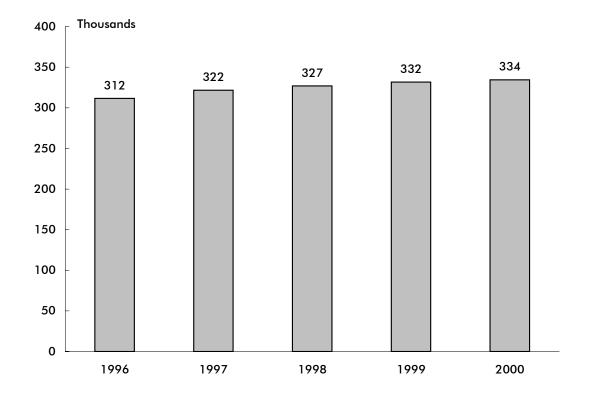
**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, 2000, Washington, DC: 2001, available at http://www.fhwa.dot.gov/ohim/ohimstat.htm as of Dec. 6, 2001.

Table 5-6: Missouri and U.S. Recreational Boat Registrations by Propulsion Type

	Misso	uri	United States		
	1999	2000	1999	2000	
Total	331,693	334,460	12,738,271	12,782,143	
Powered	327,543	330,976	11,811,562	11,648,769	
Nonpowered	3,514	3,455	481,191	547,271	
Other	636	29	445,518	590,103	

**NOTE:** Data are derived from reports of states and other jurisdictions with varying registration categories. "Other" includes boats not elsewhere classified by the reporting jurisdiction.

Figure 5-2: Missouri Recreational Boat Registrations



**NOTES FOR DATA ON THIS PAGE:** U.S. totals include Guam, Puerto Rico, the Virgin Islands, American Samoa, and the Northern Mariana Islands. Missouri statistics include all motorboats. U.S. total does not include sailboards, which are numbered in some states.

**SOURCES FOR DATA ON THIS PAGE:** U.S. Department of Transportation, U.S. Coast Guard, Boating Statistics, 2000 and Boating Statistics, 1999, Washington, DC: 2001, available at http://www.uscgboating.org/Saf/pdf/Boating\_Statistics\_2000.pdf and 1999.pdf as of Nov. 14, 2001.

Table 5-7: General Aviation and Air Taxi Aircraft and Hours Flown: 2000 (Excludes commuter aircraft)

		Hours flown
State	Active aircraft	(thousands)
Alabama	3,480	462
Alaska	5,925	692
Arizona	6,062	824
Arkansas	2,660	442
California	23,454	3,183
Colorado	5,246	651
Connecticut	1,793	241
Delaware	2,068	303
District of Columbia	152	13
Florida	14,096	2,299
Georgia	4,809	702
Hawaii	435	184
Idaho	2,328	336
Illinois	7,478	998
Indiana	3,964	503
lowa	2,772	331
Kansas	3,611	494
Kentucky	2,033	244
Louisiana	3,012	677
Maine	1,086	114
Maryland	3,436	487
Massachusetts	2,717	329
Michigan	7,236	935
Minnesota	5,141	707
Mississippi	2,038	256
Missouri	3,777	545
Montana	2,374	271
Nebraska	2,013	275
Nevada	2,715	774
New Hampshire	1,485	203
New Jersey	3,791	583
New Mexico	2,990	430
New York	6,082	816
North Carolina	5,620	769
North Dakota	1,585	419
Ohio	6,486	840
Oklahoma	4,080	648
Oregon	4,687	564
Pennsylvania	5,648	724
Rhode Island	393	45
South Carolina	2,689	387
South Dakota	1,376	157
Tennessee	4,228	638
Texas	18,869	2,980
Utah	1,673	234
Vermont	600	57
Virginia	3,354	414
Washington		912
	7,166 1,075	
West Virginia	1,075	136
Wisconsin	4,649	590
Wyoming	778 217.215	98
United States, total	217,215	30,916

**NOTE**: These data are derived from a sample survey of general aviation and air taxi aircraft. The data are estimates subject to sampling as well as nonsampling error.

**SOURCE**: U.S. Department of Transportation, Federal Aviation Administration, *General Aviation and Air Taxi Activity Survey: 2000*, Washington, DC: 2002, available at http://www.api.faa.gov/GASurvey/index.htm as of July 22, 2002.

Table 5-8: Active Aviation Pilots and Flight Instructors: 2000<sup>1</sup>

			Airplane pilots <sup>2</sup>				
		•		•	Airline		Flight
State	Total	Students	Private	Commercial	transport	Misc. <sup>3</sup>	instructor <sup>4</sup>
Alabama	7,262	1,170	3,065	1,649	1,084	294	920
Alaska	8,638	833	3,686	2,130	1,906	83	1,118
Arizona	17,429	2,329	6,508	3,345	4,654	593	2,617
Arkansas	4,988	776	2,153	1,206	788	65	634
California	71,053	10,173	31,571	13,448	12,786	3,075	8,984
Colorado	17,539	2,320	6,256	3,144	5,138	681	2,549
Connecticut	6,523	944	2,714	989	1,648	228	837
Delaware	1,462	245	532	236	413	36	233
District of Columbia	476	86	191	99	69	31	45
Florida	47,191	6,672	16,324	10,059	13,267	869	6,890
Georgia	18,087	2,441	6,053	2,845	6,448	300	2,107
Hawaii	2,927	471	611	587	1,031	227	399
Idaho	4,480	581	2,148	950	711	90	535
Illinois	21,521	3,497	9,168	3,832	4,606	418	3,054
Indiana	11,715	1,874	5,728	2,091	1,867	155	1,488
lowa	6,135	912	3,372	1,130	667	54	771
Kansas	8,412	1,169	4,136	1,729	1,268	110	1,184
Kentucky	6,720	988	2,397	1,155	2,104	76	919
Louisiana	5,894	911	2,224	1,474	1,035	250	701
Maine	3,105	444	1,494	608	522	37	384
Maryland	8,383	1,217	3,499	1,535	1,869	263	1,194
Massachusetts	9,692	1,583	4,535	1,711	1,480	383	1,242
Michigan	17,755	3,008	8,517	3,008	2,852	370	2,388
Minnesota	15,530	2,244	6,728	2,949	3,417	192	2,025
Mississippi	4,111	594	1,595	1,086	750	86	490
Missouri	11,070	1,549	5,008	2,045	2,312	156	1,548
Montana	3,613	481	1,718	878	469	67	431
Nebraska	4,141	654	2,054	884	524	25	432
Nevada	6,270	691	2,131	1,141	2,095	212	864
New Hampshire	4,242	499	1,544	676	1,417	106	613
New Jersey	11,403	1,826	4,909	1,833	2,417	418	1,517
New Mexico	4,406	787	1,788	916	772	143	549
New York	18,649	3,628	8,020	3,305	2,819	877	2,516
North Carolina	14,769	2,148	6,144	2,600	3,615	262	1,732
North Dakota	2,458	401	1,153	688	199	17	292
Ohio	19,301	3,065	8,602	3,338	3,857	439	2,839
Oklahoma	8,654	1,392	3,839	1,893	1,453	77	1,180
Oregon	9,942	1,625	4,972	1,910	1,175	260	1,123
Pennsylvania	18,022	2,683	7,604	3,075	4,124	536	2,575
Rhode Island	1,216	184	569	210	223	30	136
South Carolina	6,363	933	2,708	1,343	1,244	135	714
South Dakota	2,230	328	1,034	549	302	17	263
Tennessee	12,132	1,675	4,351	2,024	3,826	256	1,600
Texas	48,396	6,613	16,857	9,044	14,839	1,043	6,487
Utah	6,591	1,205	2,678	1,116	1,468	124	768
Vermont	1,487	220	681	261	264	61	162
Virginia	14,640	1,987	5,114	2,835	4,299	405	2,055
Washington	21,116	2,929	8,170	3,896	5,535	586	2,658
West Virginia	1,992	312	953	399	293	35	274
Wisconsin	11,275	1,768	5,682	1,884	1,830	111	1,455
Wyoming	1,812	254	901	354	273	30	195
United States, total	593,218	87,319	244,389	112,092	134,024	15,394	78,686

<sup>1</sup>An active pilot is a person who holds a pilot certificate and a valid medical certificate issued within the last 25 months.

**NOTE**: Excludes U.S. military personnel holding civilian certificates who are stationed in a foreign country and pilots in U.S. territories.

**SOURCE**: U.S. Department of Transportation, Federal Aviation Administration, U.S. Civil Airmen Statistics 2000, Washington, DC: 2002, available at http://www.api.faa.gov/CivilAir/index.htm as of July 22, 2002.

<sup>&</sup>lt;sup>2</sup>Includes pilots with an airplane only certificate and those with an airplane and a helicopter and/or glider certificate.

<sup>3</sup>Includes helicopter, glider, and recreational pilots. Does not include pilots holding an airplane certificate. A recreational pilot may fly no more than one passenger in a light, single engine aircraft with no more than four seats during good weather and daylight hours and, unless authorized, no more than 50 miles from the home airport.

<sup>&</sup>lt;sup>4</sup>Not included in total. A flight instructor must hold a flight instructor certificate in addition to a pilot certificate.

### **F** Economy and Finance

Table 6-1: Transportation and Warehousing Establishments and Employment in Missouri: 1999

Business type	Establishments <sup>1</sup> (number)	Number of employees	Annual payroll (\$ thousands)
Total transportation and warehousing	4,981	84,305	2,617
Air transportation	86	14,966	627
Water transportation	29	500-999	D
Truck transportation	3,435	40,967	1,300
Transit and ground passenger transportation	329	8,839	113
Pipeline transportation	39	250-499	D
Scenic and sightseeing transportation	24	100-249	D
Support activities for transportation	577	6,074	171
Couriers and messengers	295	9,505	276
Warehousing and storage	167	2,657	69

**KEY**: D = withheld to avoid disclosing data for individual companies.

Table 6-2: Transportation and Warehousing Establishments and Employment in the United States: 1999

Business type	Establishments <sup>1</sup> (number)	Number of employees	Annual payroll (\$ thousands)
Total transportation and warehousing	187,339	3,627,057	116,682,214
Air transportation	5,285	582,838	24,414,357
Water transportation	1,950	71,844	3,039,510
Truck transportation	108,749	1,384,178	43,626,168
Transit and ground passenger transportation	16,254	370,022	6,729,332
Pipeline transportation	2,550	48,149	3,032,689
Scenic and sightseeing transportation	2,267	22,877	540,702
Support activities for transportation	31,392	440,175	14,915,625
Couriers and messengers	11,938	578,368	16,725,960
Warehousing and storage	6,954	128,606	3,657,871

<sup>&</sup>lt;sup>1</sup> The transportation and warehousing sector (North American Industrial Classification System [NAICS] 48 and 49) includes industries providing transportation of passengers and cargo, warehousing and storage for goods, scenic and sightseeing transportation, and support activities related to modes of transportation. Establishments in these industries use transportation equipment or transportation related facilities as a productive asset. The type of equipment depends on the mode of transportation. The modes of transportation comprise air, rail, water, road, and pipeline.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Commerce, U.S. Census Bureau, 1999 County Business Patterns, Washington, DC: May 2001, available at http://www.census.gov/epcd/cbp/view/cbpview.html as of Oct. 25, 2001.

Table 6-3: Transportation Revenues Collected by State and Local Governments in Missouri (\$ millions)

	1995		19	96	19	97	19	98	19	99
Mode	State	Local								
Total (current \$)	802	250	826	266	912	295	938	291	945	317
Highway	802	29	826	33	912	36	938	36	945	37
Transit	Z	35	Z	36	Z	39	Z	40	Z	48
Air	Z	185	Z	196	Z	218	Z	215	Z	231
Water	Z	1	Z	1	Z	1	Z	1	Z	1
Total (chained 1996 \$)	820	256	826	266	889	287	899	279	882	297
Highway	820	30	826	33	889	36	899	34	882	35
Transit	Z	36	Z	36	Z	38	Z	38	Z	45
Air	Z	189	Z	196	Z	213	Z	206	Z	216
Water	Z	1	Z	1	Z	1	Z	1	Z	1

Table 6-4: Transportation Expenditures by State and Local Governments in Missouri<sup>1</sup> (\$ millions)

	19	95	19	96	19	97	19	98	19	99
Mode	State	Local								
Total (current \$)	930	972	915	1,014	998	1,185	1,005	1,270	1,113	1,566
Highway	928	596	915	658	998	715	1,004	759	1,113	830
Transit	1	223	Z	188	Z	216	Z	272	Z	281
Air	Z	152	Z	167	Z	251	Z	238	Z	454
Water	Z	1	Z	1	Z	2	1	1	Z	1
Total (chained 1996 \$)	951	994	915	1,014	973	1,155	964	1,218	1,040	1,463
Highway	949	609	915	658	973	697	963	728	1,040	775
Transit	2	228	Z	188	Z	211	Z	261	Z	263
Air	Z	156	Z	167	Z	245	Z	229	Z	424
Water	Z	1	Z	1	Z	2	1	1	Z	1

<sup>&</sup>lt;sup>1</sup> Includes federal grants.

**KEY FOR DATA ON THIS PAGE:** Z = zero or less than 1 unit of measurement.

**NOTE FOR DATA ON THIS PAGE:** Dollars are converted using a chain-type price index from U.S. Department of Commerce, Bureau of Economic Analysis, *National Income and Product Accounts Tables*, Washington, DC: 2001, table 7.1, available at http://www.bea.doc.gov/bea/dn/nipaweb/ as of Dec. 12, 2001.

**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Commerce, U.S. Census Bureau, State and Local Government Finance Estimates, available at ftp://ftp.census.gov/pub/outgoing/govs/ as of October 2001.

F-2

Table 6-5: State Motor-Fuel Tax Rates: 2000 (Cents per gallon)

State         Gasoline         Diesel         gas         Gasohol <sup>1</sup> Alabama         18.00         19.00         17.00         18.00           Alaska         8.00         8.00         0.00         0.00           Arizona         18.00         27.00         18.00         18.00           Arkansas         19.50         20.50         16.50         18.00           Colorado         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         20.00         20.00         18.01         22.50         18.01         22.50         18.01         22.50         18.01         22.50         18.01         18.02	(cerns per gunon)			1 ! :£! a al	
State				Liquified	
Alabama	Charles	O I'	<b>D</b> '1	•	<b>6</b> 1
Alaska         8.00         8.00         0.00         0.00           Arizona         18.00         27.00         18.00         18.00           Arkansas         19.50         20.50         16.50         18.00           California         18.00         18.00         6.00         18.00           Colorado         22.00         20.50         20.50         22.00           Connecticut         32.00         18.00         0.00         31.00           Delaware         23.00         22.00         22.00         23.00           District of Columbia         20.00         20.00         20.00         20.00           Florida         13.10         25.10         16.00         13.10           Georgia         7.50         7.50         7.50         7.50           Hawaii         16.00         16.00         11.00         16.00           Idoho         25.00         25.00         18.10         22.50           Illinois         19.00         21.50         19.00         19.00           Ildoho         16.00         16.00         0.00         15.00           Kentucky         16.40         13.40         15.00         19.00     <					
Arizona         18.00         27.00         18.00         18.00           Arkansas         19.50         20.50         16.50         18.60           California         18.00         18.00         6.00         18.00           Colorado         22.00         20.50         20.50         22.00           Connecticut         32.00         18.00         0.00         31.00           Delaware         23.00         22.00         22.00         23.00           District of Columbia         20.00         20.00         20.00         20.00           Florida         13.10         25.10         16.00         13.10           Georgia         7.50         7.50         7.50         7.50           Hawaii         16.00         16.00         11.00         16.00           Idaho         25.00         25.00         18.10         22.50           Illinois         19.00         21.50         19.00         19.00           Indiana         15.00         16.00         0.00         15.00           Iowa         20.00         22.50         20.00         19.00           Kansas         20.00         22.00         20.00         16.00					
Arkansas 19.50 20.50 16.50 18.60 California 18.00 18.00 6.00 18.00 6.00 18.00 Colorado 22.00 20.50 20.50 22.00 22.00 Connecticut 32.00 18.00 0.00 31.00 Delaware 23.00 22.00 22.00 23.00 20.00 20.00 18.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 16.00 13.10 25.10 16.00 11.00 16.00 16.00 11.00 16.00 16.00 10.00 15.00 16.00 25.00 25.00 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.10 22.50 18.00 20.00 22.50 20.00 19.00 20.00 16.00 20.00 19.00 20.00 20.00 16.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 19.00 20.00 20.00 15.00 20.00 20.00 19.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 2					
California         18.00         18.00         6.00         18.00           Colorado         22.00         20.50         20.50         22.00           Connecticut         32.00         18.00         0.00         31.00           Delaware         23.00         22.00         22.00         23.00           District of Columbia         20.00         20.00         20.00         20.00           Florida         13.10         25.10         16.00         13.10           Georgia         7.50         7.50         7.50         7.50           Hawaii         16.00         16.00         11.00         16.00           Idaho         25.00         25.00         18.10         22.50           Illinois         19.00         21.50         19.00         19.00           Indiana         15.00         16.00         0.00         15.00           Indiana         15.00         16.00         0.00         15.00           Indiana         15.00         22.00         19.00         20.00           Kansas         20.00         22.00         19.00         20.00           Kentucky         16.40         13.40         15.00         16.00					
Colorado         22.00         20.50         20.50         22.00           Connecticut         32.00         18.00         0.00         31.00           Delaware         23.00         22.00         22.00         23.00           District of Columbia         20.00         20.00         20.00         20.00           Florida         13.10         25.10         16.00         13.10           Georgia         7.50         7.50         7.50         7.50           Hawaii         16.00         16.00         11.00         16.00           Idaho         25.00         25.00         18.10         22.50           Illinois         19.00         21.50         19.00         19.00           Indiana         15.00         16.00         0.00         15.00           lowa         20.00         22.50         20.00         19.00           Kansas         20.00         22.50         20.00         19.00           Kansas         20.00         22.00         19.00         20.00           Maine         19.00         20.00         16.00         20.00           Mairie         19.00         21.00         8.10         21.00					
Connecticut   32.00   18.00   0.00   31.00   Delaware   23.00   22.00   22.00   23.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   25.00   16.00   13.10   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   19.00   19.00   16.00   16.00   19.00   16.00   16.00   19.00   16.00   19.00   16.00   19.00   16.00   19.00   16.00   19.00   16.00   19.00   16.00   19.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   16.00   20.00   20.00   16.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.00   20.					
Delaware					
District of Columbia   20.00   20.00   20.00   20.00   Florida   13.10   25.10   16.00   13.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10   3.10					
Florida					
Georgia   7.50   7.50   7.50   7.50   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600   1.600					
Hawaii					
Idaho	=				
Illinois					
Indiana					
Name					
Kansas         20.00         22.00         19.00         20.00           Kentucky         16.40         13.40         15.00         16.40           Louisiana         20.00         20.00         16.00         20.00           Maine         19.00         20.00         18.00         19.00           Maryland         23.50         24.25         23.50         23.50           Massachusetts         21.00         21.00         8.10         21.00           Michigan         19.00         15.00         19.00           Minnesota         20.00         20.00         15.00         20.00           Mississippi         18.40         18.40         18.40         18.40           Missouri         17.00         17.00         17.00         17.00           Montana         27.00         27.75         0.00         27.00           Nebraska         22.80         22.80         22.80         22.80           New dad         24.75         27.75         20.0         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Hersey         10.50         13.50         5.25         10.50 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Kentucky         16.40         13.40         15.00         16.40           Louisiana         20.00         20.00         16.00         20.00           Maine         19.00         20.00         18.00         19.00           Maryland         23.50         24.25         23.50         23.50           Massachusetts         21.00         21.00         8.10         21.00           Michigan         19.00         15.00         15.00         19.00           Minchigan         19.00         15.00         15.00         19.00           Minesota         20.00         20.00         15.00         20.00           Mississippi         18.40         18.40         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         18.50 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Louisiana         20.00         20.00         16.00         20.00           Maine         19.00         20.00         18.00         19.00           Maryland         23.50         24.25         23.50         23.50           Massachusetts         21.00         21.00         8.10         21.00           Michigan         19.00         15.00         15.00         19.00           Minnesota         20.00         20.00         15.00         20.00           Mississisippi         18.40         18.40         17.00         18.40           Missouri         17.00         17.00         17.00         17.00           Montana         27.00         27.75         0.00         27.00           Mebraska         22.80         22.80         22.80         22.80           Newada         24.75         27.75         20.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00					
Maine         19.00         20.00         18.00         19.00           Maryland         23.50         24.25         23.50         23.50           Massachusetts         21.00         21.00         8.10         21.00           Michigan         19.00         15.00         15.00         19.00           Minnesota         20.00         20.00         15.00         20.00           Mississispi         18.40         18.40         17.00         17.00         18.40           Missouri         17.00         17.00         17.00         17.00         17.00         17.00           Montana         27.00         27.75         0.00         27.00         Nebraska         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.80         22.90         20.00         <					
Maryland         23.50         24.25         23.50         23.50           Massachusetts         21.00         21.00         8.10         21.00           Michigan         19.00         15.00         15.00         19.00           Minnesota         20.00         20.00         15.00         20.00           Mississippi         18.40         17.00         17.00         17.00           Missouri         17.00         17.00         17.00         17.00           Montana         27.00         27.75         0.00         27.00           Nebraska         22.80         22.80         22.80         22.80           Nevada         24.75         27.75         20.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         18.00         19.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00					
Massachusetts         21.00         21.00         8.10         21.00           Michigan         19.00         15.00         15.00         19.00           Minnesota         20.00         20.00         15.00         20.00           Mississisippi         18.40         18.40         17.00         18.40           Missouri         17.00         17.00         17.00         17.00           Montana         27.00         27.75         0.00         27.00           Nebraska         22.80         22.80         22.80         22.80           Nevadda         24.75         27.75         22.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Hampshire         19.50         19.50         18.00         19.50           New Horico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Dakota         21.20         21.20         21.20         21.20           Ohio         22.00         22.00         22.00					
Michigan         19.00         15.00         15.00         19.00           Minnesota         20.00         20.00         15.00         20.00           Mississippi         18.40         18.40         17.00         18.40           Missouri         17.00         17.00         17.00         17.00           Montana         27.00         27.75         0.00         27.00           Nebraska         22.80         22.80         22.80         22.80           Nevada         24.75         27.75         20.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         <	•				
Minnesota         20.00         20.00         15.00         20.00           Mississippi         18.40         18.40         17.00         18.40           Missouri         17.00         17.00         17.00         17.00           Montana         27.00         27.75         0.00         27.00           Nebraska         22.80         22.80         22.80         22.80           Nevada         24.75         27.75         22.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         24.00         24.00					
Mississippi         18.40         18.40         17.00         17.00         17.00           Montana         27.00         27.75         0.00         27.00           Nebraska         22.80         22.80         22.80         22.80           Nevada         24.75         27.75         22.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00         22.00         22.00           Ohio         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         20.00         24.00         24.00         24.00	•				
Missouri         17.00         17.00         17.00         17.00           Montana         27.00         27.75         0.00         27.00           Nebraska         22.80         22.80         22.80         22.80           Nevada         24.75         27.75         22.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Montana         27.00         27.75         0.00         27.00           Nebraska         22.80         22.80         22.80         22.80           Nevada         24.75         27.75         22.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         29.00         29.00         <					
Nebraska         22.80         22.80         22.80         22.80           Nevada         24.75         27.75         22.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00         22.00           Ohio         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         29.00         29.00         29.00         29.00         29.00 <td< td=""><td>Missouri</td><td>17.00</td><td>17.00</td><td>17.00</td><td>17.00</td></td<>	Missouri	17.00	17.00	17.00	17.00
Nevada         24.75         27.75         22.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00         22.00         22.00           Ohio         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         22.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00 <t< td=""><td>Montana</td><td>27.00</td><td>27.75</td><td>0.00</td><td>27.00</td></t<>	Montana	27.00	27.75	0.00	27.00
New Hampshire         19.50         19.50         18.00         19.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00         22.00           Oklahoma         17.00         14.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         17.00         18.90         25.90         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         24.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         20.00         16.00	Nebraska	22.80	22.80	22.80	22.80
New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00           Oklahoma         17.00         14.00         17.00         17.00           Oregon         24.00         24.00         24.00         24.00         24.00           Pennsylvania         25.90         30.80         18.90         25.90         Rhode Island         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         20.00         16.00         16.00         16.00         16.00         16.00		24.75	27.75	22.00	24.75
New Mexico         18.50         19.50         0.00         18.50           New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00           Oklahoma         17.00         14.00         17.00         17.00           Oregon         24.00         24.00         24.00         24.00         24.00           Pennsylvania         25.90         30.80         18.90         25.90         Rhode Island         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00	New Hampshire	19.50	19.50	18.00	19.50
New York         29.30         27.95         8.00         29.30           North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00           Oklahoma         17.00         14.00         17.00         17.00           Oregon         24.00         24.00         24.00         24.00           Pennsylvania         25.90         30.80         18.90         25.90           Rhode Island         29.00         29.00         29.00         29.00           South Carolina         16.00         16.00         16.00         16.00           South Dakota         22.00         22.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         25.40         25.40	New Jersey	10.50	13.50	5.25	10.50
North Carolina         21.20         21.20         21.20         21.20           North Dakota         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00           Oklahoma         17.00         14.00         17.00         17.00           Oregon         24.00         24.00         24.00         24.00           Pennsylvania         25.90         30.80         18.90         25.90           Rhode Island         29.00         29.00         29.00         29.00           South Carolina         16.00         16.00         16.00         16.00           South Dakota         22.00         22.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         25.40         25.40	New Mexico	18.50	19.50	0.00	18.50
North Dakota         21.00         21.00         21.00         21.00           Ohio         22.00         22.00         22.00         22.00           Oklahoma         17.00         14.00         17.00         17.00           Oregon         24.00         24.00         24.00         24.00           Pennsylvania         25.90         30.80         18.90         25.90           Rhode Island         29.00         29.00         29.00         29.00           South Carolina         16.00         16.00         16.00         16.00           South Dakota         22.00         22.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.40         25.40         25.40	New York	29.30	27.95	8.00	29.30
Ohio         22.00         22.00         22.00         22.00           Oklahoma         17.00         14.00         17.00         17.00           Oregon         24.00         24.00         24.00         24.00           Pennsylvania         25.90         30.80         18.90         25.90           Rhode Island         29.00         29.00         29.00         29.00           South Carolina         16.00         16.00         16.00         16.00           South Dakota         22.00         22.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14	North Carolina	21.20	21.20	21.20	21.20
Oklahoma         17.00         14.00         17.00         17.00           Oregon         24.00         24.00         24.00         24.00         24.00           Pennsylvania         25.90         30.80         18.90         25.90         Rhode Island         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         29.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00         20.00	North Dakota	21.00	21.00	21.00	21.00
Oregon         24.00         24.00         24.00         24.00           Pennsylvania         25.90         30.80         18.90         25.90           Rhode Island         29.00         29.00         29.00         29.00           South Carolina         16.00         16.00         16.00         16.00           South Dakota         22.00         22.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.40           Wyoming         14.00         14.00         0.00         14.00	Ohio	22.00	22.00	22.00	22.00
Pennsylvania         25.90         30.80         18.90         25.90           Rhode Island         29.00         29.00         29.00         29.00           South Carolina         16.00         16.00         16.00         16.00           South Dakota         22.00         22.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.35           Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00	Oklahoma	17.00	14.00	17.00	17.00
Rhode Island         29.00         29.00         29.00         29.00           South Carolina         16.00         16.00         16.00         16.00           South Dakota         22.00         22.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.35           Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00	Oregon	24.00	24.00	24.00	24.00
South Carolina         16.00         16.00         16.00         16.00           South Dakota         22.00         22.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.35           Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00	Pennsylvania	25.90	30.80	18.90	25.90
South Dakota         22.00         22.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.35           Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00		29.00	29.00	29.00	29.00
Tennessee         20.00         17.00         14.00         20.00           Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.35           Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00	South Carolina	16.00	16.00	16.00	16.00
Texas         20.00         20.00         15.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.35           Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00	South Dakota	22.00	22.00	20.00	20.00
Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.35           Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00	Tennessee	20.00	17.00	14.00	20.00
Vermont         20.00         17.00         0.00         20.00           Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.35           Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00	Texas	20.00	20.00	15.00	20.00
Virginia       17.50       16.00       10.00       17.50         Washington       23.00       23.00       0.00       23.00         West Virginia       25.35       25.35       25.35       25.35         Wisconsin       25.40       25.40       25.40       25.40         Wyoming       14.00       14.00       0.00       14.00	Utah	24.50	24.50	24.50	24.50
Virginia         17.50         16.00         10.00         17.50           Washington         23.00         23.00         0.00         23.00           West Virginia         25.35         25.35         25.35         25.35           Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00	Vermont	20.00	17.00	0.00	20.00
Washington       23.00       23.00       0.00       23.00         West Virginia       25.35       25.35       25.35       25.35         Wisconsin       25.40       25.40       25.40       25.40         Wyoming       14.00       14.00       0.00       14.00	Virginia				
West Virginia       25.35       25.35       25.35       25.35         Wisconsin       25.40       25.40       25.40       25.40         Wyoming       14.00       14.00       0.00       14.00					
Wisconsin         25.40         25.40         25.40         25.40           Wyoming         14.00         14.00         0.00         14.00		25.35	25.35		
Wyoming 14.00 14.00 0.00 14.00	•				
		18.40		13.60	13.00

<sup>&</sup>lt;sup>1</sup> Tax rates for gasoline blended with 10 percent ethanol.

NOTE: Tax rates in effect as of Jan. 1, 2000.

**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* 2000, Washington, DC: 2001, table MF-121T.

# G Energy and Environment

Table 7-1: Transportation Energy Consumption: 1999 (Trillion Btu)

•	•			Petrole	um						Electrical	
		Distillate									system	
	Natural	fuel		Motor	Residual					Net	energy	
State	gas <sup>1</sup>	(diesel)	Jet fuel	gasoline <sup>2</sup>	fuel	Other <sup>3</sup>	Total	Ethanol⁴	Electricity	energy	losses⁵	Total
Alabama	22.9	118.4	11.1	298.0	6.5	3.7	437.8	S	0.0	460.7	0.0	460.7
Alaska	4.5	21.5	134.1	32.9	1.7	3.3	193.5	0.4	0.0	198.0	0.0	198.0
Arizona	19.0	92.0	54.6	283.9	0.0	3.1	433.5	1.3	0.0	452.5	0.0	452.5
Arkansas	9.1	84.5	25.9	172.6	0.0	5.1	288.0	0.0	0.0	297.2	0.0	297.2
California	12.9	373.3	559.5	1,749.0	175.3	23.6	2,880.6	4.9	1.8	2,895.3	3.6	2,898.9
Colorado	8.4	67.8	44.2	241.5	0.0	3.9	357.4	4.5	S	365.8	S	365.9
Connecticut	0.8	34.4	13.9	183.9	0.1	1.9	234.2	0.3	0.0	234.9	0.0	234.9
Delaware	0.1	8.6	0.6	47.7	13.2	0.5	70.6	0.0	0.0	70.6	0.0	70.6
Dist. of Columbia	0.3	3.6	0.0	20.5	0.0	0.3	24.5	0.0	0.6	25.3	1.2	26.5
Florida	7.2	210.3	164.3	897.5	57.4	8.7	1,338.1	0.1	0.2	1,345.4	0.4	1,345.8
Georgia	9.1	196.7	86.8	566.9	5.7	5.2	861.3	0.0	0.3	870.8	0.7	871.4
Hawaii	0.0	9.1	53.7	45.8	12.9	0.8	122.3	0.0	0.0	122.3	0.0	122.3
Idaho	4.7	34.0	4.9	80.8	0.0	1.2	121.0	0.0	0.0	125.7	0.0	125.7
Illinois	55.3	202.6	103.4	612.7	0.2	11.8	930.8	20.3	1.5	987.5	2.9	990.5
Indiana	14.6	186.4	63.5	373.7	1.9	5.1	630.6	9.0	0.1	645.3	0.1	645.4
lowa	7.9	74.9	5.0	185.9	0.0	3.8	269.6	6.7	S	277.5	S	277.5
Kansas	31.6	60.5	19.7	170.7	0.1	5.2	256.2	0.5	0.0	287.8	0.0	287.8
Kentucky	17.2	122.9	39.5	261.0	0.0	3.6	427.0	0.3	0.0	444.2	0.0	444.2
Louisiana	50.0	147.4	192.9	255.9	153.5	5.1	754.9	0.1	S	804.9	S	804.9
Maine	0.0	22.2	4.9	83.7	1.4	1.0	113.2	0.0	S	113.2	S	113.2
Maryland	3.4	73.3	22.3	295.0	7.4	2.2	400.3	0.2	0.5	404.1	1.0	405.1
Massachusetts	2.8	57.0	45.8	328.7	0.2	4.1	435.7	0.0	0.8	439.2	1.6	440.8
Michigan	23.3	132.7	51.7	624.5	0.3	12.2	821.4	3.4	S.S	844.7	S	844.8
Minnesota	22.5	93.4	71.4	306.5	S.S	5.8	477.1	19.5	0.0	499.6	0.0	499.6
Mississippi	66.1	81.2	54.8	196.2	6.9	3.6	342.7	0.0	0.0	408.9	0.0	408.9
		172.0		364.6	5.7 <b>S</b>			1.4	0.1	622.5		
Missouri	6.8		72.3			6.6	615.6				0.1	622.6
Montana	6.1	34.7	4.7	59.1	0.0	1.9	100.4	S	0.0	106.5	0.0	106.5
Nebraska	2.9	76.9	8.9	103.1	0.0	2.7	191.5	2.1	0.0	194.4	0.0	194.4
Nevada	0.9	36.9	47.4	111.7	0.0	0.9	196.9	2.3	0.0	197.8	0.0	197.8
New Hampshire	S	14.5	4.6	80.8	S	0.5	100.5	0.0	0.0	100.5	0.0	100.5
New Jersey	4.3	120.9	206.1	476.6	48.9	5.1	857.6	0.7	0.5	862.4	0.9	863.3
New Mexico	47.4	55.5	15.4	113.7	0.0	1.9	186.5	2.0	0.0	233.9	0.0	233.9
New York	8.6	147.5	51.7	690.6	47.1	7.3	944.2	1.2	9.1	961.9	17.7	979.6
North Carolina	10.9	132.6	38.6	502.6	1.0	5.3	680.0	3.0	0.0	690.9	0.0	690.9
North Dakota	9.9	26.0	2.3	43.0	0.0	1.2	72.5	0.4	0.0	82.4	0.0	82.4
Ohio	18.5	222.5	93.3	623.2	0.1	11.1	950.2	19.6	0.2	968.9	0.3	969.2
Oklahoma	24.5	111.7	37.3	223.3	0.0	5.7	378.0	0.0	0.0	402.5	0.0	402.5
Oregon	10.9	70.2	36.5	188.0	18.0	4.3	317.0	1.1	0.1	328.0	0.2	328.2
Pennsylvania	37.3	197.6	90.4	607.0	37.8	9.7	942.6	1.0	1.3	981.3	2.6	983.9
Rhode Island	0.3	9.3	6.0	49.8	S	0.5	65.6	0.0	0.0	65.9	0.0	65.9
South Carolina	3.7	85.8	8.7	273.0	2.8	2.3	372.7	0.0	0.0	376.4	0.0	376.4
South Dakota	6.1	21.1	4.4	51.5	0.0	1.3	78.2	1.8	0.0	84.3	0.0	84.3
Tennessee	25.9	131.7	67.0	360.3	0.0	5.1	564.2	0.0	S	590.1	S	590.1
Texas	73.0	479.2	594.8	1,252.3	131.9	17.6	2,475.8	4.8	0.1	2,548.8	0.1	2,549.0
Utah	2.8	45.1	42.2	119.2	0.0	1.7	208.2	0.9	S	211.1	S	211.1
Vermont	S	12.3	0.8	39.7	0.0	0.4	53.2	0.0	0.0	53.2	0.0	53.2
Virginia	8.3	142.3	52.8	438.1	9.2	3.9	646.5	2.8	0.3	655.1	0.6	655.7
Washington	8.2	95.9	125.6	325.2	57.4	4.6	608.9	2.5	0.1	617.1	0.1	617.3
West Virginia	31.5	46.9	1.0	100.5	0.0	1.7	150.1	S	0.0	181.6	0.0	181.6
Wisconsin	4.2	101.0	19.3	303.0	S.S	4.3	427.6	2.5	S	431.8	S	431.8
Wyoming	14.5	62.4	1.0	39.8	0.0	2.2	105.3	0.0	0.0	119.8	0.0	119.8
United States	761.1	5,160.9	3,461.8	15,855.4	798.9	234.8	25,511.8	121.6	17.5	26,290.3	34.3	26,324.6
Cimea diales	/ 01.1	3,100.7	5,701.0	10,000.4	, , 0.7	207.0	20,011.0	121.0	17.3	20,270.3	34.3	20,024.0

<sup>&</sup>lt;sup>1</sup> Includes supplemental gaseous fuels. Transportation use of natural gas is consumed in the operation of pipelines, primarily in compressors, or consumed as vehicle fuel.

**KEY:** Btu = British thermal unit; S = less than 0.05 trillion Btu.

NOTE: Totals may not equal sum of components due to rounding.

**SOURCE:** U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1999*, Washington, DC: May 2001, table 7, available at http://www.eia.doe.gov/pub/state.data/pdf/sedr.pdf as of Feb. 21, 2002.

<sup>&</sup>lt;sup>2</sup> Includes ethanol blended into motor gasoline.

 $<sup>^{3}</sup>$  Other is the sum of aviation gasoline, liquefied petroleum gas (LPG), and lubricants.

<sup>&</sup>lt;sup>4</sup> Ethanol blended into motor gasoline is included in motor gasoline, but is also shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total.

<sup>&</sup>lt;sup>5</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

Table 7-2: Energy Consumption by End-Use Sector: 1999 (Trillion Btu)

	=	End-use sectors <sup>2</sup>								
	Total energy	Transpor	Transportation Residential				rcial	Indust	rial	
State	consumed <sup>1</sup>	Number		Number		Number		Number	Percent	
Alabama	2,004.8	460.7	23.0	341.0	17.0	226.3	11.3	976.7	48.7	
Alaska	694.7	198.0	28.5	47.7	6.9	63.1	9.1	385.9	55.5	
Arizona	1,219.8	452.5	37.1	279.0	22.9	266.7	21.9	221.6	18.2	
Arkansas	1,203.7	297.2	24.7	193.3	16.1	123.8	10.3	589.4	49.0	
California	8,375.4	2,898.9	34.6	1,416.2	16.9	1,236.5	14.8	2,823.7	33.7	
Colorado	1,155.5	365.9	31.7	261.4	22.6	255.1	22.1	273.1	23.6	
Connecticut	839.3	234.9	28.0	245.2	29.2	196.8	23.4	162.4	19.3	
Delaware	278.8	70.6	25.3	56.0	20.1	44.8	16.1	107.4	38.5	
District of Columbia	169.8	26.5	15.6	33.5	19.7	106.2	62.5	3.7	2.2	
Florida	3,852.9	1,345.8	34.9	1,017.8	26.4	809.5	21.0	679.8	17.6	
Georgia	2,798.1	871.4	31.1	553.1	19.8	416.3	14.9	957.3	34.2	
Hawaii	241.4	122.3	50.7	23.0	9.5	24.8	10.3	71.3	29.5	
Idaho	518.3	125.7	24.3	95.9	18.5	86.9	16.8	209.8	40.5	
Illinois	3,882.6	990.5	25.5	897.4	23.1	722.0	18.6	1,272.6	32.8	
Indiana	2,735.8	645.4	23.6	483.6	17.7	300.7	11.0	1,306.2	47.7	
lowa	1,121.7	277.5	24.7	222.5	19.8	158.5	14.1	463.3	41.3	
Kansas	1,050.0	287.8	27.4	200.9	19.1	169.2	16.1	392.2	37.4	
Kentucky	1,830.2	444.2	24.3	315.9	17.3	219.0	12.0	851.1	46.5	
Louisiana	3,615.4	804.9	22.3	325.0	9.0	236.5	6.5	2,249.0	62.2	
Maine	528.6	113.2	21.4	97.6	18.5	57.6	10.9	260.2	49.2	
Maryland	1,378.2	405.1	29.4	358.6	26.0	337.1	24.5	277.4	20.1	
Massachusetts	1,569.1	440.8	28.1	411.7	26.2	325.2	20.7	391.4	24.9	
Michigan	3,239.6	844.8	26.1	744.3	23.0	568.1	17.5	1,082.5	33.4	
Minnesota	1,675.3	499.6	29.8	340.2	20.3	217.9	13.0	617.7	36.9	
Mississippi	1,208.5	408.9	33.8	202.6	16.8	145.6	12.0	451.4	37.4	
Missouri	1,768.0	622.6	35.2	431.7	24.4	334.1	18.9	379.6	21.5	
Montana	412.4	106.5	25.8	61.8	15.0	48.0	11.6	196.1	47.6	
Nebraska	602.0	194.4	32.3	130.0	21.6	111.3	18.5	166.2	27.6	
Nevada	615.3	197.8	32.1	122.4	19.9	97.1	15.8	198.0	32.2	
New Hampshire	335.4	100.5	30.0	81.9	24.4	56.2	16.8	96.9	28.9	
New Jersey	2,588.7	863.3	33.3	539.9	20.9	540.8	20.9	644.7	24.9	
New Mexico	635.0	233.9	36.8	93.2	14.7	105.6	16.6	202.4	31.9	
New York	4,283.0	979.6	22.9	1,092.3	25.5	1,216.1	28.4	994.9	23.2	
North Carolina	2,446.9	690.9	28.2	562.7	23.0	439.5	18.0	753.7	30.8	
North Dakota	365.7	82.4	22.5	54.2	14.8	42.6	11.6	186.4	51.0	
Ohio	4,323.4	969.2	22.4	866.7	20.0	632.1	14.6	1,855.3	42.9	
Oklahoma	1,377.5	402.5	29.2	259.1	18.8	197.7	14.4	518.2	37.6	
Oregon	1,109.2	328.2	29.6	238.4	21.5	190.5	17.2	352.1	31.7	
Pennsylvania	3,715.5	983.9	26.5	858.6	23.1	582.6	15.7	1,290.4	34.7	
Rhode Island	261.1	65.9	25.2	66.0	25.3	52.2	20.0	77.0	29.5	
South Carolina	1,493.0	376.4	25.2	288.1	19.3	210.3	14.1	618.2	41.4	
South Dakota	239.0	84.3	35.3	53.3	22.3	39.2	16.4	62.2	26.0	
Tennessee	2,070.5	590.1	28.5	441.5	21.3	328.1	15.8	710.8	34.3	
Texas	11,501.0	2,549.0	22.2	1,323.3	11.5	1,147.2	10.0	6,481.5	56.4	
Utah	693.9	211.1	30.4	127.5	18.4	120.2	17.3	235.1	33.9	
Vermont	165.0	53.2	32.2	42.6	25.8	29.4	17.8	39.9	24.2	
Virginia	2,227.3	655.7	29.4	494.4	22.2	462.8	20.8	614.4	27.6	
Washington	2,240.8	617.3	27.5	435.7	19.4	332.0	14.8	855.9	38.2	
West Virginia	735.4	181.6	24.7	141.9	19.3	101.0	13.7	310.8	42.3	
Wisconsin	1,810.5	431.8	23.8	375.8	20.8	285.4	15.8	717.4	39.6	
Wyoming	421.8	119.8	28.4	35.9	8.5	42.1	10.0	224.0	53.1	
United States	95,682.4	26,324.6	27.5	18,382.3	19.2	15,058.5	15.7	35,917.1	37.5	

<sup>&</sup>lt;sup>1</sup> U.S. total energy and U.S. industrial sector include 57.7 trillion Btu of net imports of coal coke that is not allocated to the states. State and U.S. totals include 92.6 trillion Btu of net imports of electricity generated from nonrenewable energy sources.

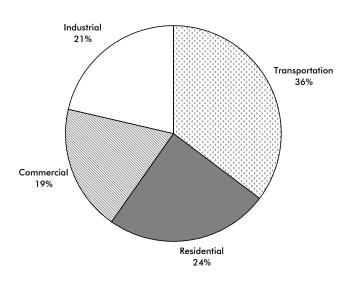
**KEY:** Btu = British thermal unit; Number = trillion Btu.

**SOURCE:** U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1999*, Washington, DC: May 2001, available at http://www.eia.doe.gov/pub/state.data/pdf/sedr.pdf as of Feb. 21, 2002.

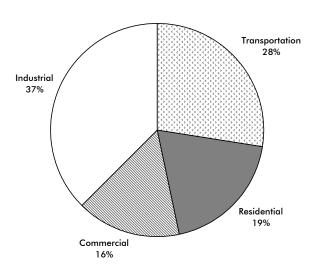
 $<sup>^{2}</sup>$  End-use sector data include electricity sales and associated electrical system energy losses.

Figure 7-1: Energy Consumption by End-Use Sector: 1999

#### Missouri



#### **United States**



**SOURCE:** U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1999*, Washington, DC: May 2001, table 9, available at http://www.eia.doe.gov/pub/state.data/pdf/sedr.pdf as of Feb. 21, 2002.



Figure 7-2: Missouri Transportation Energy Consumption

**KEY:** Btv = British thermal units.

**SOURCE**: U.S. Department of Energy, Energy Information Administration, State Energy Data Report 1999, Washington, DC: May 2001, available at http://www.eia.doe.gov/pub/state.data/pdf/sedr.pdf as of Feb. 21, 2002.

Table 7-3: Transportation Energy Consumption per Capita: 1999

		Petro	oleum	All ener	gy sources
	Population	Total	Per capita <sup>1</sup>	Total	Per capita <sup>1</sup>
State	(thousands)	(trillion Btu)	(million Btu)	(trillion Btu)	(million Btu)
Alabama	4,370	437.8	100.2	460.7	105.4
Alaska	620	193.5	312.1	198.0	319.4
Arizona	4,778	433.5	90.7	452.5	94.7
Arkansas	2,551	288.0	112.9	297.2	116.5
California	33,145	2,880.6	86.9	2,898.9	87.5
Colorado	4,056	357.4	88.1	365.9	90.2
Connecticut	3,282	234.2	71.4	234.9	71.6
Delaware	754	70.6	93.6	70.6	93.6
District of Columbia	519	24.5	47.2	26.5	51.1
Florida	15,111	1,338.1	88.6	1,345.8	89.1
Georgia	7,788	861.3	110.6	871.4	111.9
Hawaii	1,185	122.3	103.2	122.3	103.2
Idaho	1,252	121.0	96.6	125.7	100.4
Illinois	12,128	930.8	76.7	990.5	81.7
Indiana	5,943	630.6	106.1	645.4	108.6
lowa	2,869	269.6	94.0	277.5	96.7
Kansas	2,654	256.2	96.5	287.8	108.4
Kentucky	3,961	427.0	107.8	444.2	112.1
Louisiana	4,372	754.9	172.7	804.9	184.1
Maine	1,253	113.2	90.3	113.2	90.3
Maryland	5,172	400.3	77.4	405.1	78.3
Massachusetts	6,175	435.7	70.6	440.8	71.4
Michigan	9,864	821.4	83.3	844.8	85.6
Minnesota	4,776	477.1	99.9	499.6	104.6
Mississippi	2,768	342.7	123.8	408.9	147.7
Missouri	5,468	615.6	112.6	622.6	113.9
Montana	883	100.4	113.7	106.5	120.6
Nebraska	1,666	191.5	114.9	194.4	116.7
Nevada	1,809	196.9	108.8	197.8	109.3
New Hampshire	1,201	100.5	83.7	100.5	83.7
New Jersey	8,143	857.6	105.3	863.3	106.0
New Mexico	1,740	186.5	107.2	233.9	134.4
New York	18,197	944.2	51.9	979.6	53.8
North Carolina	7,651	680.0	88.9	690.9	90.3
North Dakota	634	72.5	114.4	82.4	130.0
Ohio	11,257	950.2	84.4	969.2	86.1
Oklahoma	3,358	378.0	112.6	402.5	119.9
Oregon	3,316	317.0	95.6	328.2	99.0
Pennsylvania	11,994	942.6	78.6	983.9	82.0
Rhode Island	, 991	65.6	66.2	65.9	66.5
South Carolina	3,886	372.7	95.9	376.4	96.9
South Dakota	733	78.2	106.7	84.3	115.0
Tennessee	5,484	564.2	102.9	590.1	107.6
Texas	20,044	2,475.8	123.5	2,549.0	127.2
Utah	2,130	208.2	97.7	, 211.1	99.1
Vermont	594	53.2	89.6	53.2	89.6
Virginia	6,873	646.5	94.1	655.7	95.4
Washington	5,756	608.9	105.8	617.3	107.2
West Virginia	1,807	150.1	83.1	181.6	100.5
Wisconsin	5,250	427.6	81.4	431.8	82.2
Wyoming	480	105.3	219.4	119.8	249.6
United States	272,691	25,511.8	93.6	26,324.6	96.5

 $<sup>^{\</sup>rm 1}$  Calculated by the Bureau of Transportation Statistics.

**KEY:** Btv = British thermal unit.

**SOURCE:** U.S. Department of Energy, Energy Information Administration, State Energy Data Report 1999, Washington, DC: May 2001, available at http://www.eia.doe.gov/pub/state.data/pdf/sedr.pdf as of Feb. 21, 2002.

Table 7-4: Missouri and U.S. Motor-Fuel Use: 2000<sup>1</sup> (Millions of gallons)

	•	Gaso	line		Specia	l fuel		
	Highw	Highway use		vay use	(mainly	diesel)	Total	use
		United		United		United		United
Vehicle ownership	Missouri	States	Missouri	States	Missouri	States	Missouri	States
Private and commercial	3,010	126,735	80	2,876	921	33,377	4,011	162,988
Public use	46	2,149	2	96	N	Ν	48	2,245
Total	3,056	128,884	82	2,972	921	33,377	4,059	165,232

<sup>&</sup>lt;sup>1</sup>Based on reports from state motor-fuel tax agencies. Gasohol is included with gasoline. Public use and nonhighway use were estimated by the Federal Highway Administration.

**KEY:** N = data do not exist.

**NOTE:** The term "motor fuel" applies to gasoline and all other fuels, including special fuels, coming under the purview of the state motor-fuel tax laws. "Special fuels" include diesel fuel and, to the extent they can be quantified, liquefied petroleum gases such as propane. Gasohol, a blend of gasoline and fuel alcohol, is included with gasoline.

**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* 2000, Washington, DC: October 2001, available at http://www.fhwa.dot.gov/ohim/hs00/pdf/mf21.pdf as of Apr. 20, 2002.

Table 7-5: Missouri Air Quality Nonattainment Areas for Carbon Monoxide (CO)

County	Area	Nonattainment in year	Redesignation to attainment	Classification	Part or whole county	Population (2000)
St. Louis	St. Louis, MO	95 96 97 98	3/29/99	Not Classified	Whole	348,189
St. Louis Co.	St. Louis, MO	95 96 97 98	3/29/99	Not Classified	Part	924,034

**NOTES:** Nonattainment areas do not meet the national primary or secondary ambient air quality standard for the specified pollutant. Nonattainment areas are classified based on design values: Serious = an area with a design value of 16.5 parts per million (ppm) and above; Moderate = an area with a design value of 9.1 up to 16.4 ppm.

**SOURCE:** U.S. Environmental Protection Agency, Green Book, available at http://www.epa.gov/oar/oaqps/greenbk/anay.html as of Apr. 20, 2002.

Table 7-6: Missouri Air Quality Nonattainment Areas for Ozone (O<sub>3</sub>)

			Redesignation to		Part or whole	Population
County	Area	Nonattainment in year	attainment	Classification	county	(2000)
Franklin	St. Louis, MO-IL	95 96 97 98 99 00 01	NA	Moderate	Whole	93,807
Jefferson	St. Louis, MO-IL	95 96 97 98 99 00 01	NA	Moderate	Whole	198,099
St. Charles	St. Louis, MO-IL	95 96 97 98 99 00 01	NA	Moderate	Whole	283,883
St. Louis	St. Louis, MO-IL	95 96 97 98 99 00 01	NA	Moderate	Whole	348,189
St. Louis Co.	St. Louis, MO-IL	95 96 97 98 99 00 01	NA	Moderate	Whole	1,016,315

**KEY**: NA = not applicable.

**NOTES:** Nonattainment areas do not meet the national primary or secondary ambient air quality standard (NAAQS) for the specified pollutant. Nonattainment areas are classified based on design values: Extreme = design value of 0.280 parts per million (ppm) and above; Severe-17 = design value of 0.190 up to 0.280 ppm and has 17 years to reach attainment; Severe-15 = design value of 0.180 up to 0.190 ppm and has 15 years to reach attainment; Serious = design value of 0.160 up to 0.180 ppm; Moderate = design value of 0.138 up to 0.160 ppm; Marginal = design value of 0.121 up to 0.138 ppm; Section 185A = an area designated as an ozone nonattainment area as of the date of enactment of the Clean Air Act Amendments of 1990 and has not violated the national primary ambient air quality standard for ozone for the 36-month period commencing on Jan. 1, 1987, and ending on Dec. 31, 1989.

SOURCE: U.S. Environmental Protection Agency, Green Book, available at http://www.epa.gov/oar/oaqps/greenbk/anay.html as of Apr. 20, 2002.

Table 7-7: Highway Noise Barriers: 1999

<b>6.</b> .	Total length	Barrier cost
State	(meters)	(\$ 1998)
Alabama	0	0
Alaska	9,338	2,742,486
Arizona	48,593	15,130,670
Arkansas	1,989	653,497
California	777,160	487,177,331
Colorado	104,377	45,351,408
Connecticut	46,049	28,335,802
Delaware	1,262	242,013
District of Columbia	0	0
Florida	70,991	62,276,735
Georgia	33,530	20,247,589
Hawaii	3,103	1,743,452
Idaho	200	583,002
Illinois	97,803	70,985,221
Indiana	18,568	20,297,106
Iowa	7,857	3,215,640
Kansas	2,103	2,082,034
Kentucky	8,249	5,306,199
Louisiana	12,077	5,974,212
Maine	561	292,861
Maryland	99,587	153,227,923
Massachusetts	10,250	5,259,055
Michigan	67,071	60,139,968
Minnesota	101,811	62,694,176
Mississippi	0	0
Missouri	6,113	4,179,360
Montana	0	0
Nebraska	5,060	4,026,138
Nevada	17,847	10,855,220
New Hampshire	6,392	5,785,519
New Jersey	142,055	210,429,029
New Mexico	21,196	9,306,885
New York	110,698	116,448,616
North Carolina	45,977	24,702,615
North Dakota	, 0	0
Ohio	138,197	68,064,386
Oklahoma	13,186	4,229,909
Oregon	72,552	30,075,899
Pennsylvania	83,526	88,259,488
Rhode Island	, 0	, , 0
South Carolina	2,665	1,713,629
South Dakota	0	0
Tennessee	28,846	20,574,450
Texas	55,310	39,635,228
Utah	70,260	24,841,367
Vermont	1,004	356,344
Virginia <sup>1</sup>	153,313	143,003,313
Washington	74,812	32,296,683
West Virginia	408	170,529
Wisconsin	29,730	28,768,150
Wyoming	293	100,271
United States	2,611,953	1,931,107,534
Omieu Siules	Z,U11,733	1,731,107,334

<sup>&</sup>lt;sup>1</sup> Includes 4,061 meters of federal barriers on the Dulles Access Highway.

**SOURCE:** U.S. Department of Transportation, Federal Highway Administration, Office of Planning, Environment, and Real Estate, available at http://www.fhwa.dot.gov/environment/ab\_noise.htm as of Feb. 20, 2002.

## H Information on Data Sources

#### Airline freight and passenger data

The U.S. Department of Transportation's (USDOT) Bureau of Transportation Statistics (BTS) collects and compiles data on the volume of revenue passengers, freight, and mail traffic handled and reported by the nation's large certificated air carriers. These carriers hold Certificates of Public Convenience and Necessity (CPN) issued by the USDOT authorizing the performance of air transportation. Large certificated air carriers operate aircraft with seating capacity of more than 60 seats or a maximum payload capacity of more than 18,000 pounds or conduct international operations. Data for commuters, intrastate, nonscheduled air taxi operators, and foreign flag air carriers are not included in this BTS data.

#### **Additional information:**

Contact: USDOT, Bureau of Transportation Statistics, Office of Airline Information

Print source: USDOT, Bureau of Transportation Statistics, Office of Airline Information. *Airport Activity Statistics*. Washington, DC: Annual issues.

Internet: http://www.bts.gov

#### Commodity Flow Survey

The Commodity Flow Survey (CFS) provides data on the movement of freight by type of commodity shipped and by mode of transport. In 1997, 100,000 domestic establishments were randomly selected from a universe of approximately 800,000 engaged in mining, manufacturing, wholesale, warehouses of multi-establishment companies, and some selected activities in retail and service. The survey excluded establishments classified as farms, forestry, fisheries, governments, construction, transportation, foreign establishments, services, and most

establishments in retail. For the 1997 CFS, each selected establishment reported a sample of about 25 outbound shipments for a one-week period in each of four calendar quarters in 1997. This produced a total sample of over 5 million shipments. Due to industry-wide reporting problems, shipments by oil and gas extraction establishments were excluded from data tabulations.

For each sampled 1997 CFS shipment, zip code of origin and destination, 5-digit Standard Classification of Transported Goods (SCTG) code, weight, value, and modes of transport were provided. Information on whether the shipment was containerized, a hazardous material, or an export was also obtained. Route-distance for each mode, for each shipment, is imputed from a Mode-Distance Table developed by Oak Ridge National Laboratory. Distance was used to compute ton-mileage by mode of transport. The CFS provides nationwide geographic coverage in 89 National Transportation Analysis Regions, stratified by state and, for the 1997 CFS, metropolitan area.

#### **Additional information:**

Contact: USDOT, Bureau of Transportation Statistics, Office of Statistical Programs

Print source: USDOT, Bureau of Transportation Statistics and U.S. Department of Commerce, Bureau of the Census, [state]: 1997 Commodity Flow Survey. EC97TCF-[state], Washington, DC: 1999.

Internet: http://www.bts.gov/ntda/cfs/

#### Commuting data

Commuting data are derived from the Census 2000 Supplementary Survey (C2SS). The C2SS used the questionnaire and methods developed for the American Community Survey to collect demographic, social,

#### **Data Sources**

economic, and housing data from a national sample of 700,000 households. Group quarters were not included in the sample. The C2SS was conducted in 1,203 counties with monthly samples of about 58,000 housing units. Economic, demographic, and housing characteristics from the Census 2000 Supplementary Survey are reported for the United States as a whole, the 50 states, and the District of Columbia.

The Census 2000 Supplementary Survey is not directly comparable with the 1990 Census for several reasons, one being that the former did not include group quarters. This may understate some categories such as walking.

#### **Additional information:**

Contact: USDOC, U.S. Census Bureau,

Demographic Surveys Division

Internet: http://www.census.gov

#### Gas and hazardous liquid pipeline data

U.S. fatality and injury data for natural gas pipelines and hazardous liquid pipelines are based on reports filed with the U.S. Department of Transportation, Office of Pipeline Safety (OPS) under 49 CFR 191. Accidents must be reported as soon as possible, but no later than 30 days after discovery. Undetected releases are a possible source of error; even if subsequently detected and reported, it may not be possible to accurately reconstruct the accident. Property damage figures are estimates.

Gas pipeline incidents involve: 1) releases of gas from a pipeline or liquefied natural gas (LNG) or gas from an LNG facility that results in a) death or personal injury necessitating inpatient hospitalization, or b) estimated property damage, including cost of gas lost, of the operator or others, or both, of \$50,000 or more; 2) an event that results in an emergency

shutdown of an LNG facility; or 3) an event that is significant, in the judgment of the operator, even though it did not meet the criteria of 1) or 2).

For hazardous liquids pipelines, an accident report is required for each failure in a pipeline system in which there is a release of the hazardous liquid or carbon dioxide transported resulting in any of the following: 1) explosion or fire not intentionally set by the operator; 2) loss of 50 or more barrels (8 or more cubic meters) of hazardous liquid or carbon dioxide; 3) escape to the atmosphere of more than 5 barrels (0.8 cubic meters) a day of highly volatile liquids; 4) death of any person; 5) bodily harm to any person resulting in one or more of the following: a) loss of consciousness, b) an individual being carried from the scene, c) medical treatment, or d) disability which prevents the discharge of normal duties or the pursuit of normal activities beyond the day of the accident; or 6) estimated property damage, including cost of clean-up and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.

#### **Additional information:**

Contact: USDOT, Research and Special Programs Administration, Office of Pipeline Safety

Internet: http://ops.dot.gov

### Government transportation revenue and expenditure data

The U.S. Department of Commerce (USDOC), U.S. Census Bureau conducts an Annual Survey of Government Finances. Alternatively, every five years, in years ending in a '2' or '7', a Census of Governments, including a finance portion, is conducted. The survey coverage includes all state and local governments in the United States. For both the

Census and annual survey, the finance detail data is equivalent, encompassing the entire range of government finance activities—revenue, expenditure, debt, and assets.

The data collection for the annual survey uses two methods: mail canvas and central collection from state sources. Data for local governments includes county, municipal, township, special district, and school district data. Data for state governments are compiled from state government audits, budgets, and other financial reports into the classification categories used for reporting by the Census Bureau.

Reporting of government finances by the Census Bureau involves presentation of data in terms of uniform categories. While often similar to, or identical to, the classification used by the state or local government, there could be instances in which a significant difference exists between the name of a state or local financial item and the final category to which it is assigned by the Census Bureau.

Like financial transactions are combined. The financial categories for revenue involve grouping of items by source. Revenue items of the same kind are merged. Financial transactions for expenditures are classified both by function and by object category. Debt items are classified by term (short- and long-term), as well as by type of debt and, to a limited extent, by purpose. Assets also are put into uniform categories, grouped by type of holding, with holdings for insurance trust systems grouped separately from general government.

The share of government sector financial totals contributed by a state government or by local governments differs materially from one state to another. Users can review the *Government Finance and Employment* 

Classification Manual for additional information regarding the financial categories. The financial amounts in the tables and files are statistical in nature and do not represent accounting statements or conditions.

The local government statistics are developed from a sample survey. Therefore, the local totals, as well as state and local aggregates, are considered estimated amounts subject to sampling error. State government finance data are not subject to sampling. Consequently, state-local aggregates for individual states are more reliable (on a relative standard error basis) than the local government estimates they include.

#### **Additional information:**

Contact: USDOC, U.S. Census Bureau,

Finance Branch

Print Sources: USDOC, U.S. Census Bureau,

Federal Aid to States: 2000

Internet: http://www.census.gov

#### Hazardous materials incidents data

Incidents resulting in certain unintentional releases of hazardous materials must be reported under 49 CFR 171.16. Each carrier must submit a report to the USDOT, Research and Special Programs Administration (RSPA) within 30 days of the incident, including information on the mode of transportation involved, results of the incident, and a narrative description of the accident. These reports are generally made available on RSPA's incident database within 90 days of receipt.

Fatalities and injuries are counted only if directly caused by a hazardous material. For example, a truck operator killed by impact forces during a motor vehicle crash would not be counted as a hazardous-material fatality.

#### **Data Sources**

RSPA contacts the submitting carrier by telephone to verify all reported fatalities.

Although RSPA acknowledges that there is some level of underreporting, it believes that the underreporting is mostly limited to small, nonserious incidents. The reporting requirements were extended to intrastate highway carriers on October 1, 1998, and the response rate from this new group is expected to increase over time. Property damage figures are estimates determined by the carrier prior to the 30-day reporting deadline, and are generally not subsequently updated. Property damage figures, therefore, may underestimate actual damages.

#### **Additional information:**

Contact: USDOT, Research and Special Programs Administration, Office of Hazardous Materials Planning and Analysis

Print source: USDOT, Research and Special Programs Administration, Office of Hazardous Materials Safety, *Hazmat Summary by State for Calendar Year 2000*. Washington, DC: 2001

Internet: http://hazmat.dot.gov

#### Highway mileage, condition, and use, driver licenses, and highway vehicle registrations data

Data on roadway mileage, condition, and use are extracted from the Highway Performance Monitoring System (HPMS), which uses a stratified simple random sample of highway links (small sections of roadway) selected from state inventory files. The HPMS sample was designed as a fixed sample to minimize data collection costs, but adjustments to maintain representativeness are carried out periodically. The HPMS also consists of universe reporting (a complete census) for the Interstate and the National Highway System,

and tabular summary reporting of limited information.

Data are collected independently by the 50 states, Metropolitan Planning Organizations (MPOs), and lower jurisdictions. Many of the geometric data items rarely change, such as number of lanes; others change frequently, such as traffic. The U.S. Department of Transportation, Federal Highway Administration (FHWA) provides guidelines for data collection in the HPMS *Field Manual*, which the states follow to varying extents depending on matters such as staff, resources, state perspective, uses of the data, and state/MPO/local needs for the data. State Departments of Transportation (DOTs) report HPMS data annually to the FHWA.

HPMS data are subject to sampling and nonsampling error. Nonsampling error is the major concern with these data. For some of the most variable and important data items, such as traffic, guidelines for measurement and data collection have been produced. States have the option of using the guidelines or using their own procedures. Many data items are difficult and costly to collect and are reported as estimates not based on direct measurement. The data are collected and reported by many entities and individuals within the responsible organizations. Most do a reasonably good job, but staff turnover, cost, equipment issues, etc., can create difficulties.

States provide vehicle registration data to the FHWA. Vehicle registration data are shown on a calendar-year basis. Efforts are made to exclude transfers, re-registrations, and any other factors that could result in duplication in the vehicle counts. Registration practices for commercial vehicles differ greatly among the states. Some states register a tractor-semitrailer combination as a single unit; others register the tractor and the semitrailer

separately. Some states register buses with trucks or automobiles, while many states do not report house and light utility trailers separately from commercial trailers or semitrailers. Some states do not require registration of car or light utility trailers. In some instances, FHWA has supplemented the data supplied by the states with information obtained from other sources.

States also provide driver licensing data to the FHWA. Although efforts are made to minimize license duplication, drivers who move from one state to another are sometimes counted in both states until the license from the previous state of residence expires. Problems with the data also arise from the fact that: 1) some individuals obtain their drivers licenses in states other than those of legal residence; 2) some individuals fraudulently obtain multiple licenses; 3) not all individuals who drive are licensed; and 4) the purging of expired licenses or licenses from deceased individuals is not performed on a continual basis.

#### **Additional information:**

Contact: USDOT, Federal Highway Administration, Office of Highway Policy Information

Print source: USDOT, Federal Highway Administration, *Highway Statistics*. Washington, DC: Annual issues.

Internet: http://www.fhwa.dot.gov/ohim/index.html

#### Highway safety data

Fatalities: Highway fatality data are extracted from the Fatality Analysis Reporting System (FARS), which is compiled by the U.S.

Department of Transportation (USDOT), National Highway Traffic Safety Administration (NHTSA). Data are gathered from a census of police accident reports (PARs), state vehicle registration files, state drivers licensing files, state highway department data, vital statistics, death certificates, coroner/medical examiner reports, hospital medical reports, and emergency medical service reports. A separate form is completed for each fatal crash. Blood alcohol concentration (BAC) is estimated when not known. Statistical procedures used for unknown data in FARS can be found in the NHTSA report, A Method for Estimating Posterior BAC Distributions for Persons Involved in Fatal Traffic Accidents, DOT HS 807 094 (Washington, DC: July 1986).

Data are collected from relevant state agencies and electronically submitted for inclusion in the FARs database on a continuous basis. Cross-verification of PARs with death certificates helps prevent undercounting. Moreover, when data are entered, they are checked automatically for acceptable range values and consistency, enabling quick corrections when necessary. Several programs continually monitor the data for completeness and accuracy. Periodically, sample cases are analyzed for accuracy and consistency.

FARS data do not include motor vehicle fatalities on nonpublic roads. These are thought to account for about 2 percent or fewer of the total motor vehicle fatalities per year.

Injuries and crashes: NHTSA's General Estimates System (GES) data are a nationally representative sample of police-reported crashes that contributed to an injury or fatality or resulted in property damage and involved at least one motor vehicle traveling on a trafficway. GES data collectors randomly

#### **Data Sources**

sample PARs and forward copies to a central contractor for coding into a standard GES system format. Documents such as police diagrams or supporting text provided by the officers might be further reviewed to complete a data entry. A NHTSA study of injuries from motor vehicle crashes estimated the total count of nonfatal injuries at over 5 million compared with the GES's estimate of 3.2 million in 1998.

#### **Additional information:**

Contact: USDOT, National Highway Traffic Safety Administration, National Center for Statistics and Analysis

Print source: USDOT, National Highway Traffic Safety Administration, *Traffic Safety Facts*. Washington, DC: Annual issues.

Internet: http://www.nhtsa.dot.gov

#### International visitors data

Data on international visitors to the United States are based on international arrivals by air to the United States (excluding those from Canada and Mexico). Information is derived from the Immigration and Naturalization Service's (INS) Visitor Arrivals Program (I-94) and the U.S. Department of Commerce, Tourism Industries Office's Survey of International Air Travelers. The survey obtains data on overseas travel patterns, characteristics, and spending patterns of international travelers to and from the United States. Between 69.000 and 95.000 travelers are surveyed each year. The survey results are weighted so they represent the international travel populations of U.S. residents and nonresidents based upon Immigration and Naturalization Service data.

#### Additional information:

Contact: U.S. Department of Commerce (USDOC), International Trade Administration, Tourism Industries Office

Print source: USDOC, International Trade Administration, Tourism Industries Office, Overseas Visitors to Select U.S. States and Territories. Washington, DC: Annual issues; and USDOC, International Trade Administration, Tourism Industries Office, Overseas Visitors to Select U.S. Cities/Hawaiian Islands. Washington, DC: Annual issues.

Internet: http://tinet.ita.doc.gov/

#### Passenger border crossing data

U.S. Custom Service personnel collect passenger border-crossing entry data for all U.S. land, air, and maritime ports. These numbers reflect all entries, and it is not possible to divide these data into separate entries for same-day and overnight travel or by country of residence for the traveler. Additionally, for border-crossing figures, the total number of people is not the number of unique individuals, but rather indicates the number of border crossings. Multiple crossings by the same individual count as multiple border crossings.

#### Additional information:

Contact: USDOT, Bureau of Transportation Statistics, Office of Transportation Analysis

Internet: http://www.bts.gov

#### Railroad industry and shipments data

The Association of American Railroads (AAR) database aggregates data from several sources concerning the freight railroad industry and movement of freight, both nationally and statewide. The state-specific

data include commerce, employment, and financial contributions.

The primary source of data for Class I railroads is Schedule 700 of the R-1 Annual Report to the Surface Transportation Board (STB) by individual carriers (100 percent reporting) and the 2000 Carload Waybill Sample. The primary source of data for non-Class I railroads is AAR's Profiles of U.S. Railroads from statistics supplied annually by nearly all operating U.S. freight railroads. Some of the data are estimated based on more aggregated, national figures.

The STB defines Class I railroads as having operating revenues at or above a threshold indexed to a base of \$250 million (1991) and adjusted annually in concert with changes in the Railroad Freight Rate Index published by the Bureau of Labor Statistics.

Declassification from Class I status occurs when a railroad falls below the applicable threshold for three consecutive years.

Although few in number, Class I railroads account for over 90 percent of the industry's revenue.

The AAR determines the number of non-Class I railroads through an annual survey sent to each U.S. freight railroad.

Historical reliability may vary due to changes in the railroad industry, including bankruptcies, mergers, and declassification by the STB. Small data errors may also have occurred because of independent rounding in this series by the AAR.

### **Additional information:**

Contact: Association of American Railroads, Policy and Economics Department

Internet: http://www.aar.org

## Railroad safety data

Railroads are required to file a report for each accident or incident to the Federal Railroad Administration (FRA). These include: 1) train accidents, reported on Form F 6180.54, comprised of collisions, derailments, and other events involving the operation of on-track equipment and causing reportable damage above an established threshold (\$6,600 in 1998); 2) highway-rail grade crossing incidents, reported on Form F 6180.57, involving impact between railroad on-track equipment and highway users at crossings; and 3) other incidents, reported on Form F 6180.55a, involving all other reportable incidents or exposures that cause a fatality or injury to any person or an occupational illness to a railroad employee.

Railroads are required by FRA regulations to use the current *FRA Guide for Preparing Accident/Incident Reports* when preparing reports.

The Systems Support Division of FRA maintains the Railroad Accident/Incident Reporting System (RAIRS), consisting of four databases: rail equipment, injury/illness, grade-crossing accidents, and railroad summary (freight and passenger). These databases include information on all railroad accidents, grade-crossing accidents, railroad employee casualties, and any other injuries on railroad property, and provide the basis for accident analyses and assessment as well as annual reports. The databases are updated monthly from information submitted by the railroads.

#### **Additional information:**

Contact: USDOT, Federal Railroad Administration, Office of Safety

### **Data Sources**

Print publication: USDOT, Federal Railroad Administration, *Railroad Safety Statistics*. Washington, DC: Annual issues.

Internet: http://www.fra.dot.gov

# Recreational boating safety and vehicles data

The U.S. Coast Guard, of the U.S. Department of Transportation, collects data on recreational boating accidents from two sources: 1)
Boating Accident Report (BAR) data forwarded to the Coast Guard by jurisdictions with an approved boat numbering and casualty reporting system, and 2) reports of Coast Guard investigations of fatal boating accidents that occurred on waters under federal jurisdiction. Recreational Boating Accident Investigation data are used if submitted to the Coast Guard and are relied on as much as possible to provide accident statistics. In the absence of investigations, information is collected from reports filed by boat operators.

Boat operators are required to file a BAR if an accident results in 1) loss of life, 2) personal injury that requires medical treatment beyond first aid, 3) damage to the vessel and other property exceeding \$500, or 4) complete loss of the vessel.

Boat operators are required to report their accidents to authorities in the state where the accident occurred. States with approved boat numbering systems furnish the Coast Guard with BAR data. The minimum reporting requirements are set by federal regulation, but states are allowed to have stricter requirements. The Coast Guard reports recreational boating safety data in the report *Boating Statistics*, which only covers accidents meeting the federal minimum reporting requirements.

The statistics in *Boating Statistics* cover boating accidents reported on waters of joint federal and state jurisdiction, and exclusive state jurisdiction.

The Coast Guard believes over 90 percent of fatal accidents are included in *Boating* Statistics. A smaller percentage of nonfatal accidents are reported because of reporting thresholds, ignorance of the law, and difficulties enforcing the law. Federal law does not require the reporting of accidents on private waters where states have no jurisdiction. Reports of accidents on such waters are included when received by the Coast Guard if they satisfy the other requirements of inclusion. Accidents excluded are those in which the boat was used as a platform for other activities (e.g., swimming), and those in which a person dies of natural causes aboard a boat. However, the data do include accidents involving people in the water who are struck by their boat or another boat.

### **Additional information:**

Contact: USDOT, U.S. Coast Guard, Office of Boating Safety

Print source: USDOT, U.S. Coast Guard, Office of Boating Safety, *Boating Statistics*, Washington, DC: Annual issues.

Internet: http://www.uscgboating.org

# Transborder surface freight data

The Transborder Surface Freight Dataset is extracted from the Census Foreign Trade Statistics Program and made available by the Bureau of Transportation Statistics. Import and export data are extracted from administrative records required by the Departments of Commerce and Treasury. This dataset incorporates all shipments entering or exiting the United States by surface modes of

transport (that is, other than air or maritime vessel) to and from Canada or Mexico. Prior to January 1997, this dataset also included transhipments in its detailed tables, that is, shipments entering or exiting the United States by way of U.S. Customs ports on the northern or southern borders, even when the actual origin or final destination of the goods was other than Canada or Mexico. Shipments that neither originate nor terminate in the United States (i.e., intransit shipments) are beyond the scope of this dataset because they are not considered U.S. international trade shipments.

Users should be aware that the trade data fields (such as value and commodity classification) are typically more rigorously reviewed than transportation data fields (i.e., mode of transportation and port of entry/exit). Users should also be aware that the use of foreign trade data to describe physical transportation flows might not be direct. For example, this dataset provides surface transportation information for individual Customs districts and ports on the northern and southern borders. However, because of filing procedures for trade documents, these ports may or may not reflect where goods physically crossed the border. This is because the filer of information may choose to file trade documents at one port, while shipments actually enter or exit at another port.

Import data are generally more accurate than export data. This is primarily due to the fact that Customs uses import documents for enforcement purposes, while it performs no similar function for exports.

### **Additional information:**

Contact: USDOT, Bureau of Transportation Statistics, Office of Transportation Analysis

Internet: http://www.bts.gov

# Transit operating, financial, and safety data

Transit data are from the National Transit
Database (NTD) produced by the USDOT,
Federal Transit Administration (FTA). Data
are collected from transit agencies that receive
Urbanized Area Formula Program funds.
Transit operators that do not report to FTA are
those that do not receive federal funding,
typically private, small, and rural operators.
FTA reviews and validates information
submitted by individual transit agencies.
Reliability may vary because some transit
agencies cannot obtain accurate information or
may interpret certain data definitions
differently than intended.

In 2000, 592 agencies reported to the NTD. Of that total, 67 transit agencies received exemptions from detailed reporting because they operated 9 or fewer vehicles, and 7 were excluded because their data were incomplete. Thus, 518 individual reporters were included in the NTD accounting for 90 to 95 percent of transit passenger-miles.

Data are collected on a range of variables including capital and operating funding, transit service supplied and consumed, and transit safety and security. Transit operators must report fatalities, injuries, accidents, incidents, and property damage in excess of \$1,000.

#### **Additional information:**

Contact: USDOT, Federal Transit

Administration

Print source: USDOT, Federal Transit Administration, *Data Tables*. Washington, DC: Annual issues; and USDOT, Federal Transit Administration, *National Transit Database Reporting Manual*. Washington,

DC: Annual issues.

Internet: http://www.fta.dot.gov

### **Data Sources**

# Transportation establishment, employees, and payroll data

Data on employees, establishments, and payroll are taken from County Business Patterns, a database of employment in the United States using the North American Industry Classification System (NAICS). Data are collected annually. Data are extracted from the Business Register, the Census Bureau's file of all known single and multiestablishment companies. The Annual Company Organization Survey and quinquennial Economic Censuses provide individual establishment data for multilocation firms. Data for single-location firms are obtained from various programs conducted by the Census Bureau, such as the Economic Censuses, the Annual Survey of Manufactures, and Current Business Surveys. They are also obtained from administrative records of the Internal Revenue Service (IRS), the Social Security Administration (SSA), and the Bureau of Labor Statistics (BLS).

### **Additional information:**

Contact: USDOC, U.S. Census Bureau, Economic Planning and Coordination Division

Print source: USDOC, U.S. Census Bureau, [State]: County Business Patterns 1999. CBP/99-6. Washington, DC: 2001.

Internet: http://www.census.gov/epcd/cbp/view/cbpview.html

# Vehicle Inventory and Use Survey

The Vehicle Inventory and Use Survey (VIUS) collects data on the physical and operational characteristics of private and commercial trucks in the United States. The 1997 VIUS sampled about 131,000 trucks from an estimated universe of over 75 million trucks. The sample excludes vehicles owned

by federal, state, and local government including ambulances, buses, motor homes, farm tractors, unpowered trailer units, and trucks reported to have been sold, junked, or wrecked prior to July 1, 1996. Light trucks registered as cars, as is the practice in many states, were included. Unregistered trucks used off-road are not included. Census delivered a mail-out/mail-back survey to the owner identified in the vehicle registration records. Data collection is staggered as state records become available. Owners report data only for the vehicles selected. The response rate for the 1997 VIUS was about 85 percent.

### **Additional information:**

Contact: USDOC, U.S. Census Bureau, Service Sector Statistics Division

Print source: USDOC, U.S. Census Bureau, [state]: 1997 Vehicle Inventory and Use Survey. EC97TV-[state]. Washington, DC: 1999.

Internet: http://www.census.gov/svsd/www/tiusview.html

## Waterborne imports and vessel data

The U.S. Department of Transportation's Maritime Administration (MARAD) classifies merchant-based vessels by size and type and reports this information in its annual publication, *Merchant Fleets of the World*. MARAD compiles these figures from a data service provided by Lloyd's Maritime Information Service. The parent company, Lloyd's Register (LR), collects data from several sources, including its offices around the world, data transfers and agreements with other classification societies, questionnaires to ship owners and shipbuilders, feedback from government agencies, and input from port agents.

MARAD's Office of Statistical and Economic Analysis maintains the waterborne databank used to compile the annual import and export statistics from monthly and quarterly data provided by the U.S. Army Corps of Engineers. MARAD publishes the data in reports of vessel movements, trade and cargo by type of service, U.S. and foreign port, country of origin/destination, commodity, value, weight, and containerized cargo.

MARAD distributes the reports and performs special tabulations and customized maritime data reports created for other government agencies and the private sector on a reimbursable basis. MARAD also provides these services for historic data and maintains the Schedule K Classification of Foreign Ports by Geographic Trade Area and Country.

### **Additional information:**

Contact: USDOT, Maritime Administration, Office of Statistical and Economic Analysis

Print source: USDOT, Maritime Administration, *Merchant Fleets of the World*.

Internet: http://www.marad.dot.gov

### Waterborne shipments data

The U.S. Army Corps of Engineers' (Corps) Navigation Data Center (NDC) collects data on waterborne commodity and vessel movements, domestic commercial vessel characteristics, port and waterway facilities, and navigation dredging projects.

The NDC's databases contain information on physical characteristics, infrastructure, and commodities for principal facilities on the U.S. coast, Great Lakes, and inland ports. The data consists of listings of port area's waterfront facilities, including information on berthing, cranes, transit sheds, grain elevators, marine repair plants, fleeting areas, and docking and storage facilities.

All vessel operators of record report their domestic waterborne traffic movements to the Corps via ENG Forms 3925 and 3925b. Cargo movements are reported according to points of loading and unloading. Excluded cargo movements are: 1) cargo carried on general ferries, 2) coal and petroleum products loaded from shore facilities directly into vessels for fuel use, 3) military cargo moved in U.S. Department of Defense vessels, and 4) cargo weighing less than 100 tons moved on government equipment. The Corps calculates ton-miles by multiplying the cargo's tonnage by the distance between points of loading and unloading.

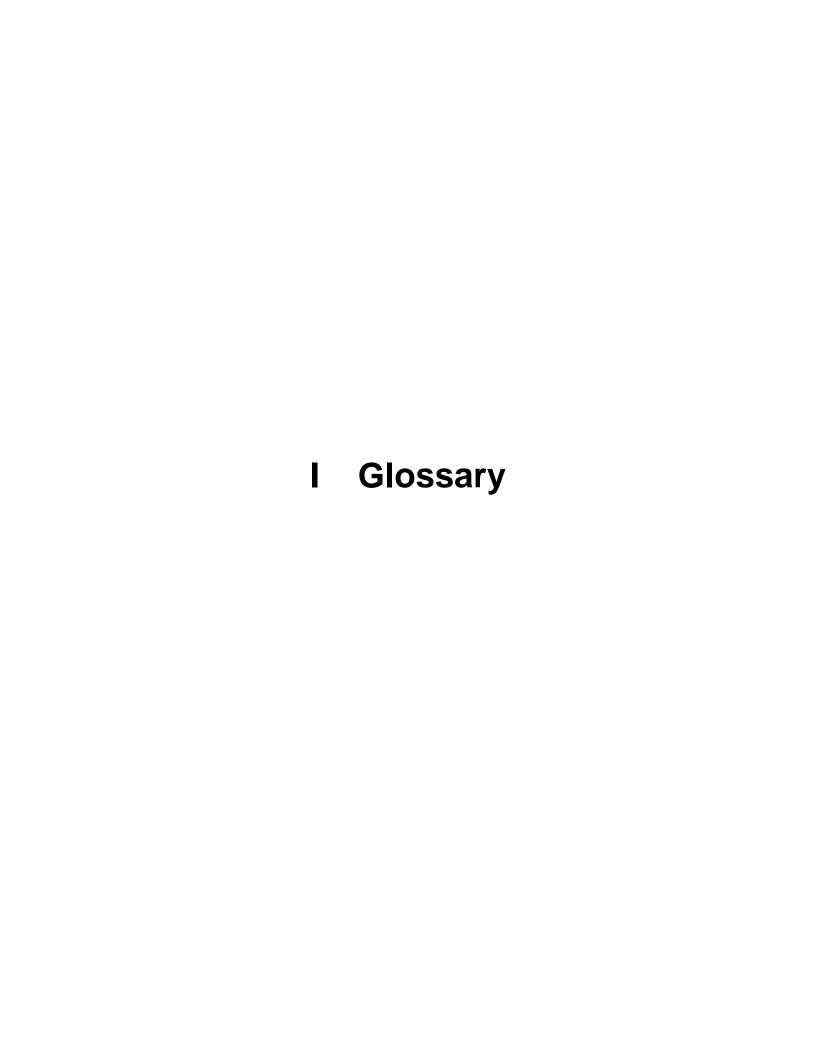
An annual survey of companies that operate inland waterway vessels is the principal source of data for inland non self-propelled vessels, self-propelled vessels, and flag passenger and cargo vessels. More than 3,000 surveys are sent to these companies, and response rates are typically above 90 percent.

### **Additional information:**

Contact: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center

Print source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*. New Orleans, LA: Annual issues.

Internet: http://www.wrsc.usace.army.mil



**British thermal unit (Btu)**: The amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit (F) at or near 39.2 degrees F and 1 atmosphere of pressure.

Certificated airport: An airport holding an operating certificate issued by the Federal Aviation Administration in accordance with Code of Federal Regulations (CFR) Title 14, Chapter 1, Part 139 allowing it to serve scheduled or unscheduled air carrier aircraft designed for more than 30 passengers.

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

**Container:** A box-like device used to store, protect, and handle a number of packages or items as a unit of transit that can be interchanged between trucks, trains, and ships without rehandling the contents.

**Controlled right-of-way**: Lanes restricted for at least a portion of the day for use by transit vehicles and other high occupancy vehicles (HOVs).

**Demand responsive:** Transit service provided without a fixed route and without a fixed schedule that operates in response to calls from passengers or their agents to the transit operator or dispatcher. Service is usually provided using cars, vans, or buses with fewer than 25 seats.

**Directional route-miles:** The mileage in each direction over which public transportation vehicles travel while in revenue service. Directional route-miles are a measure of the facility or roadway, not the service carried on the facility such as the number of routes or vehicle-miles.

Directional route-miles are computed with regard to direction of service, but without regard to the number of traffic lanes or rail tracks existing in the right-of-way.

**Dry-bulk carrier (water):** A ship with specialized holds for carrying dry cargo such as coal, grain, and iron ore in unpackaged bulk form.

**Enplanements:** The total number of revenue passengers boarding aircraft.

Exclusive right-of-way: Lanes reserved at all times for transit use and other high occupancy vehicles (HOVs).

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

**Full container ship:** Ships equipped with permanent container cells, with little or no space for other types of cargo.

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

**Light rail:** A streetcar-type vehicle operated on city streets, semi-exclusive rights-of-way, or exclusive rights-of-way.

## Glossary

Service may be provided by step-entry vehicles or by level boarding.

**Major arterial highway:** A major highway used primarily for through traffic.

**Metric ton:** 2,205 pounds (2,000 pounds divided by 0.907).

Minor arterial: In rural areas, roads linking cities and larger towns. In urban areas, roads distributing trips to small geographic area but not penetrating identifiable neighborhoods.

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

**Mixed right-of-way**: Lanes used for general automobile traffic.

**Motor bus:** A rubber-tired, self-propelled, manually steered bus with fuel supply onboard the vehicle. Motor bus types include intercity, school, and transit.

Natural gas distribution pipeline: Smaller than transmission pipelines and maintained by companies that distribute natural gas locally (intrastate). Distribution pipeline systems are analogous to networks of lesser roads and residential streets that people travel after getting off the freeway.

## Natural gas transmission pipeline:

Analogous to a major freeway, it is the main interstate transportation route for moving large amounts of natural gas from the source of production to points of distribution.

Transmission pipelines are designed to move large amounts of natural gas from areas where the gas is extracted and stored

to the local distribution companies that provide natural gas to homes and businesses.

**Principal arterial highway:** Major streets or highways, many of multilane or freeway design, serving high-volume traffic corridor movements that connect major generators of travel.

**Short ton:** 2,000 pounds.

**Tanker:** An oceangoing ship designed to haul liquid bulk cargo in world trade.

**Ton-mile:** The movement of one ton of cargo the distance of one statute mile.

**Trackage rights:** The authority of one railroad to use the tracks of another railroad for a fee.

**Trolley bus:** Rubber-tired, electric transit vehicle, manually steered and propelled by a motor drawing current, normally through overhead wires, from a central power source.

**Unlinked passenger trips:** The number of passengers who board public transportation vehicles. A passenger is counted each time he or she boards a vehicle even if on the same journey from origin to destination.

**Vanpool:** Public-sponsored commuter service operating under prearranged schedules for previously formed groups of riders in 8- to 18-seat vehicles. Drivers are also commuters who receive little or no compensation besides the free ride.

Vehicle-miles traveled (highway): Miles of travel by all types of motor vehicles as determined by the states on the basis of actual traffic counts and established estimating procedures.

