



U.S. Department of Transportation



**Bureau of Transportation Statistics** 

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# **Tennessee Fast Facts 2000**

## Transportation System Extent

All public roads: 87,419 miles Interstate: 1,073 miles Road bridges: 19,404 Class I railroad trackage: 2,331 miles Inland waterways: 946 miles Public use airports: 80 (8 certificated for air carrier operations)<sup>1</sup>

### Vehicles and Conveyances

Automobiles registered: 2.9 million Light trucks registered: 1.8 million Heavy trucks registered: 58,000 Buses registered: 17,000 Motorcycles registered: 71,000 Rail transit systems: 1 light rail, 1 inclined plane Numbered boats: 270,000

### Geographic

Land area: 41,217 sq. miles (rank: 34) Percent of land area owned by federal

government: 6.2<sup>2</sup> (rank: 23) Persons per square mile: 138.0 (rank: 19)

Highest point: Clingmans Dome (6,643 ft.) Lowest point: Mississippi River (178 ft.)

<sup>4</sup>Apportionment based on 2000 census <sup>5</sup>1990

Political Subdivisions

Counties: 95 Municipal governments: 343<sup>3</sup> Congressional districts: 9<sup>4</sup>

**Demographic** Population: 5,689,283 (rank: 16) Percent urban population: 61<sup>5</sup> (rank: 35)

## Socioeconomic

Gross state product: \$170 billion<sup>2</sup> (rank: 19) Civilian labor force: 2.8 million<sup>2</sup> (rank: 19) Median household income: \$33,885 (rank: 43)

#### Commuting (percent of workers)

Car, truck, or van—drove alone: 81.4 Car, truck, or van—carpooled: 12.4 Public transportation (including taxi): 1.0 Walked: 1.2 Other means: 1.0 Worked at home: 2.9

## State Transportation Department

Tennessee Department of Transportation (TDOT) 505 Deaderick Street Nashville, TN 37243 (615) 741-2848 http://www.tdot.state.tn.us/

<sup>&</sup>lt;sup>1</sup>2002

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

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

The Bureau of Transportation Statistics (BTS) presents a profile of transportation in Tennessee—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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# **A** Infrastructure

	1995	1996	1997	1998	1999	2000
Total rural and urban	85,599	85,795	86,026	86,601	87,259	87,419
Rural	68,403	68,518	68,705	69,010	69,537	69,679
Interstate	739	739	736	734	735	735
Other principal arterial	1,785	1,807	1,803	1,818	1,851	1,851
Minor arterial	3,417	3,416	3,406	3,411	3,409	3,414
Major arterial	5,384	5,386	5,384	5,363	5,351	5,345
Minor collector	11,067	11,060	11,013	11,050	11,056	11,055
Local	46,011	46,110	46,363	46,634	47,135	47,279
Urban	17,196	17,277	17,321	17,591	17,722	17,740
Interstate	323	323	338	339	339	338
Other freeways and expressways	114	115	113	114	126	121
Other principal arterial	1,293	1,292	1,308	1,314	1,327	1,318
Minor arterial	2,085	2,083	2,089	2,114	2,124	2,127
Collector	1,627	1,634	1,639	1,654	1,657	1,662
Local	11,754	11,830	11,834	12,056	12,149	12,174

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

**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: Tennessee Public Road Length, Miles by Ownership: 2000

	National Highway	Other federal-aid	Nonfederal-	
	System	highway	aid highway	Total
Total	3,226	13,685	70,505	87,416
State highway agency	3,200	10,584	5	13,789
County	0	647	55,295	55,942
Town, township, municipal	26	2,454	14,285	16,765
Other jurisdiction <sup>1</sup>	0	0	616	616
Federal agency <sup>2</sup>	0	0	304	304

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

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

**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.

Facility	Financing or operating authority	Location	Length in miles	Toll collection direction	Electronic collection system
Cumberland City	TN Department of Transportation (Two Rivers Excursions)	From Cumberland City to Throckmorton	U	Both ways	No
Saltillo	Hardin County Department of Transportation	From Saltillo to Cerro Gordo	U	Both ways	No
Helms	Union County Highway Department	From Leadmine Road to Straight Bridge Road	U	Both ways	No
Danville	Two Rivers Excursions for Benton and Houston Counties	From McKinnon to Big Sandy	U	Both ways	No

#### Table 1-3: Tennessee Toll Ferries: 2001

**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.

· · ·	1995	1996	1997	1998	1999	2000
Interstate (total reported)	739	98	98	98	734	735
Very good	67	20	20	20	128	536
Good	399	54	54	62	530	190
Fair	176	12	12	4	58	7
Mediocre	96	12	12	12	18	2
Poor	1	0	0	0	0	0
Not reported	0	641	638	637	0	0
Other principal arterial (total reported)	1,785	215	210	203	1,776	1,683
Very good	84	16	16	22	118	655
Good	900	108	109	127	978	861
Fair	730	83	77	54	659	163
Mediocre	60	8	8	0	20	3
Poor	11	0	0	0	1	1
Not reported	0	1,592	1,592	1,615	75	169
Minor arterial (total reported)	3,417	3,410	3,341	3,351	3,386	3,342
Very good	40	49	56	59	51	46
Good	1,020	1,420	1,399	1,766	1,748	1,747
Fair	2,207	1,753	1,727	1,344	1,412	1,369
Mediocre	148	188	159	182	175	180
Poor	2	0	0	0	0	0
Not reported	0	6	65	60	23	72
Major collector (total reported)	Ν	N	N	N	N	N
Very good	N	N	N	N	N	N
Good	N	N	N	N	N	N
Fair	N	N	N	N	N	N
Mediocre	N	N	N	N	N	N
Poor	N	N	N	N	N	N
Not reported	N	N	N	N	N	N

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

**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 Tennessee: 2000

NOTE: Numbers may not add to 100 due to rounding.

KEY FOR DATA ON THIS PAGE: N = data do not exist.

**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.* 

#### Infrastructure

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

	1995	1996	1997	1998	1999	2000
Interstate (total reported)	323	107	109	102	339	332
Very good	14	5	5	4	63	132
Good	115	44	46	57	150	132
Fair	76	28	28	17	69	39
Mediocre	89	22	22	19	47	23
Poor	29	8	8	5	10	6
Not reported	0	216	229	237	0	5
Other freeways and expressways (total reported)	114	46	45	42	114	117
Very good	2	1	1	1	7	14
Good	40	17	16	18	49	67
Fair	64	24	24	19	52	31
Mediocre	6	3	3	3	5	4
Poor	2	1	1	1	1	1
Not reported	0	69	69	72	14	4
Other principal arterial (total reported)	1,293	172	171	164	1,195	1,041
Very good	32	9	9	9	28	143
Good	443	73	72	93	457	429
Fair	659	75	75	51	591	395
Mediocre	109	8	8	6	84	52
Poor	50	7	7	5	35	22
Not reported	0	1,120	1,138	1,151	131	277
Urban minor arterial (total reported)	Ν	Ν	N	N	N	43
Very good	N	N	N	N	N	8
Good	N	N	N	N	N	32
Fair	N	N	N	N	N	3
Mediocre	N	N	N	N	N	0
Poor	N	N	N	N	N	0
Not reported	N	N	Ν	Ν	Ν	Ν
Urban collector (total reported)	Ν	N	N	N	N	8
Very good	N	N	N	N	N	0
Good	N	Ν	N	N	N	0
Fair	N	Ν	Ν	Ν	Ν	8
Mediocre	N	Ν	Ν	Ν	Ν	0
Poor	N	Ν	Ν	N	N	0
Not reported	N	Ν	Ν	Ν	N	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 Serviceability Rating.



#### Figure 1-2: Urban Road Conditions in Tennessee: 2000

NOTE: Numbers may not add to 100 due to rounding.

**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.

		Structurally	Functionally		
	All bridges	deficient	obsolete	Total of	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
lowa	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
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	2,007	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



#### Tennessee

#### **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.

	Directional route-miles				
Transit agency	Exclusive right-of-way	Controlled right-of-way	Mixed right-of-way		
Chattanooga Area Regional Transit Authority	0.0	0.0	192.2		
City of Kingsport	0.0	0.0	6.5		
Clarksville Transit System	0.0	0.0	170.4		
Jackson Transit Authority	0.0	0.0	95.0		
Johnson City Transit	0.0	0.0	88.3		
Knoxville Transportation Authority	0.0	0.0	371.6		
Memphis Area Transit Authority	0.0	0.0	816.0		
Metropolitan Transit Authority	0.0	0.0	954.4		
Total	0.0	0.0	2,694.4		

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

**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 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.

Transit agency	Directional route-miles	Miles of track	Number of crossings	Number of stations	Number of ADA accessible stations
Light rail Memphis Area Transit Authority	5.8	6.1	40	28	28
Inclined plane Chattanooga Area Regional Transportation Authority	2.0	1.0	0	2	2

#### Table 1-8: Characteristics of Rail Transit in Tennessee: 2000

**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.

				Seaplane	
Ownership and usage	Airports	Heliports	STOLports	bases	Total
Publicly owned	75	13	0	1	89
Open to public	75	1	0	0	76
Closed to public	0	12	0	1	13
Privately owned	110	74	8	1	193
Open to public	5	0	2	0	7
Closed to public	105	74	6	1	186
Total	185	87	8	2	282

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

<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: Tennessee Commercial Service Airport Enplanements: 2000 (For airports with scheduled service and 2,500 or more passengers enplaned)

	Large certificated air	Commuter and small certificated	Air taxi commuter	Foreign air	Total
Airport	carriers	air carriers	operators	carriers	enplanements
Memphis International	5,000,149	583,823	659	99,988	5,684,619
Nashville International	4,365,803	107,905	2,453	3,748	4,479,909
McGhee Tyson	740,855	122,425	92	167	863,539
Lovell Field	231,348	69,345	53	0	300,746
Tri-Cities Regional TN/VA	176,188	48,937	168	0	225,293
McKellar-Sipes Regional	42	6,468	32	0	6,542

**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 includes only enplanements on large certified 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.

	Number		Miles operated <sup>2</sup>				
	of r	ailroads			Tennessee		
Type of railroad	United States	Tennessee	United States	Excluding trackage rights	Including trackage rights	Percent of U.S. total	
Total	562	23	172,101	2,642	2,929	1.7	
Class I	8	6	120,597	2,087	2,331	1.9	
Regional	35	0	20,978	0	0	0.0	
Local	304	13	21,512	450	493	2.3	
Switching and terminal	213	4	7,425	105	105	1.4	
Canadian <sup>1</sup>	2	0	1,589	0	0	0.0	

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

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

<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.

#### 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.

	Miles operated in
Railroad	<b>Tennessee</b> <sup>1</sup>
Class I railroads	2,331
Burlington Northern and Santa Fe Railway Company	17
CSX Transportation	1,067
Illinois Central Railroad Company	151
Kansas City Southern Railway Company	21
Norfolk Southern Corporation	1,043
Union Pacific Railroad Company	32
Regional railroads	0
Local railroads	493
Chattanooga and Chickamauga Railway Company	2
East Tennessee Railway Corporation	11
KWT Railroad, Inc.	44
Mississippi and Tennessee Railnet, Inc.	3
Nashville and Eastern Railroad Corporation	130
R. J. Corman Railroad/Memphis Line	36
Sequatchie Valley Railroad	8
South Central Tennessee Railroad Corporation	50
Southern Freight Railroad	16
Tennessee Southern Railroad Company, Inc.	101
Tennken Railroad	41
Walking Horse and Eastern Railroad	8
West Tennessee Railroad	43
Switching and terminal railroads	105
Caney Fork and Western Railroad	75
Knoxville and Holston River Railroad Company	18
Mississippi Central Railroad Company	6
Nashville and Western Railroad Corporation	6

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

<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.

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**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.

		Millions of short tons			
Port	U.S. rank	Total	Foreign	Domestic	
Memphis	39	18.3	0.0	18.3	
Nashville	82	4.5	0.0	4.5	
Chattanooga	107	2.9	0.0	2.9	

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

**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.iwr.usace.army.mil/ 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.

# **B** Safety

					F	atality rate pe	er
		Licensed	Registered	Vehicle-miles	100,000	100,000	100 million
	Traffic	drivers	vehicles	traveled	licensed	registered	vehicle-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	779	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	173	544	822	8,432	31.8	21.0	2.1
Tennessee	1,306	4,251	4,891	65,732	30.7	26.7	2.0
Texas	3,769	13,462	14,257	220,064	28.0	26.4	1.7
Utah	373	1,463	1,656	22,597	25.5	22.5	1.7
Vermont	79	506	537	6,811	15.6	14.7	1.2
Virginia	930	4,837	6,107	74,801	19.2	15.2	1.2
Washington	632	4,155	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

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

**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.

#### Safety

					Restrair	t use	Total occ	upants
	Restraiı	nt used	No restro	int used	unkno	wn	kille	d
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	117	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
Mississinni	144	28.3	354	69.5	11	22	509	100.0
Missouri	198	20.0	326	55.0	69	11.6	503	100.0
Montana	38	373	56	54.9	8	7.8	102	100.0
Nebraska	35	27.1	76	58.0	18	14.0	102	100.0
Nevada	52	27.1	91	50.7	3	22	127	100.0
Nevuuu Nevu Hamnshire	12	21.0	42	59.0 60.4	5	2.2	130	100.0
New Introv	141	42.4	43	51 9	22	5.0	200	100.0
New Maxico	70	42.4	177	52.2	10	5.0	172	100.0
New Wexico	240	41.7 50.9	200	10.0	50	5.0	700	100.0
New TORK	300	50.8	290	40.9	J9 07	0.3	709	100.0
North Carolina	309	45.0	304	43.2	97	11.0	620	100.0
	210	19.0	204	70.0		2.4	42	100.0
Ohlahama	100	41.5	390	50.0	53	0.9	217	100.0
Okianoma	128	40.4	187	39.0	10	0.0	317	100.0
Oregon	147	07.1	60	27.4	12	5.5	219	100.0
Pennsylvania	205	31./	443	53.I	127	15.2	835	100.0
Khode Island	8	18.6	33	/6./	2	4./	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	/2	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

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

**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: 2002, available at http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/TSFAnn/TSF2000.pdf as of Jan. 4, 2002.

State Effective <sup>1</sup> Enforcement <sup>2</sup> Fine Seats Vehicles exempt	ed <sup>3</sup>
Alabama 7/18/1992 Primary \$25 Front Designed for more	e than 10 passengers
Alaska 9/12/1990 Secondary \$15 All School hus	e man ne passengers
Arizona 1/1/1991 Secondary \$10 Front Designed for more	e than 10 passengers; model
ver before 1972	- ······ · · · · · · · · · · · · · · ·
Arkansas 7/15/1991 Secondary \$25 <sup>4</sup> Front School bus, churcl	h bus, public bus
California 1/1/1986 Primary \$20 <sup>5</sup> All None	
Colorado 7/1/1987 Secondary \$15 Front Passenger bus set	hool hus
Connecticut 1/1/1986 Primary \$15 Front Truck or his over	15 000 lbs
Delaware 1/1/1992 Secondary \$20 Front None	10,000 100.
District of Columbia $12/12/1985$ Primary $$50^{\circ}$ All Secting more than	8 neonle
Florida 7/1/1/986 Secondary \$30 Front School bus public	bus truck over 5 000 lbs
Coordina 9/1/1/000 Decondary \$50 From School Bos, poblic	a than 10 passongers, nickup
Hawaii 2/14/1005 Primagy \$15 Front Bus ar school bus	over 10 000 lbs
ridwali 2/10/1763 riinary \$43 rion bus of school bus	over 10,000 lbs.
Idento 7/1/1980 Secondary \$5 From Over 8,000 lbs.	
Infinois //1/1965 Secondary \$25 Front None	
Indiana //1/199/ Frindary \$25 Front Hock, Indior, Ky	
Iowa //1/1980 rrimary \$10 rront None	a than 10 paopla, truck over
Kansas //1/1986 Secondary \$10 Front Designed for more 12,000 lbs.	e man to people, nock over
Kentucky 7/13/1994 Secondary \$25 All Designed for more	e than 10 people
Louisiana 7/1/1986 Primary \$25 <sup>7</sup> Front Manufactured bef	ore 1/1/81
Maine 12/27/1995 Secondary \$50 All None	
Maryland 7/1/1986 Primary \$25 Front Historic vehicle	
Massachusetts 2/1/1994 Secondary \$25 All Truck over 18 000	) lbs_bus_taxi
Michigan 7/1/1985 Primary \$25 Front Bus	
Minnesota 8/1/1986 Secondary \$25 Front Farm pickup truck	
Mississippi 3/20/1990 Secondary \$25 Front Farm vehicle bus	
Missouri 9/28/1985 Secondary \$10 Front Designed for more 12 000 lbs	e than 10 people, truck over
Montang 10/1/1987 Secondary \$20 All None	
Nebraska 1/1/1993 Secondary \$25 Front Manufactured bef	ore 1973
Nevada 7/1/1987 Secondary \$25 All Taxi bus school b	
New Homoshire None NA NA NA NA	
New Jersey 3/1/1985 Secondary \$20 Front None	
New Maxico 1/1/1986 Primary \$25 Front Vehicle over 10.00	00 lbs
New York 12/1/1984 Primary \$50 Front Bus school hus tr	vi
North Caroling 10/1/1985 Primary \$25 Front Designed for more	e than 10 people
North Dakota 7/14/1994 Secondary \$20 Front Designed for more	e than 10 people
Obio 5/6/1986 Secondary \$25 Front None	
Oklaboma 2/1/1987 Primany \$20 Front Farm vehicle truc	k truck tractor BV
Oragon 12/7/1000 Primary \$25 All None	
Pennsylvania 11/3/1987 Secondary \$10 Front Truck over 7.000	lbs
Phode Island 6/18/1001 Secondary \$10 110m 110ck 00017,0001	103.
South Caroling 7/1/1/980 Secondary \$10 All School bus public	hus
South Calorina 7/1/1/00/ Secondary \$10 An School Bus, point	
Tennessee 4/21/1986 Secondary \$50 Front Vehicle over 1	8 500 lbs.
Torres 0/1/1095 Primary \$50 Front Deciment for mark	a than 10 naonla, truck over
Texas 9/1/1965 Frimary \$50 Front Designed for more 15,000 lbs.	e man To people, fruck over
Utah 4/28/1986 Secondary \$45 Front Vehicle over 10,00	00 lbs., school/public bus, taxi
Vermont 1/1/1994 Secondary \$10 All Bus, taxi	
Virginia 1/1/1988 Secondary \$25 Front Designed for more	e than 10 people, taxi
Washington6/11/1986Secondary\$35AllDesigned for more	e than 10 people
West Virginia 9/1/1993 Secondary \$25 Front Designed for more	e than 10 people
Wisconsin         12/1/1987         Secondary         \$10         All         Taxi, farm truck	
Wyoming 6/8/1989 Secondary \$25 Front Designed for more	e than 10 people, bus

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

<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.

State	Percent	State	Percent
Alabama	70.6	Montana	75.6
Alaska	61.0	Nebraska	70.5
Arizona	75.2	Nevada	78.5
Arkansas	52.4	New Hampshire	N
California	88.9	New Jersey	74.2
Colorado	65.1	New Mexico	86.6
Connecticut	76.3	New York	77.3
Delaware	66.1	North Carolina	80.5
District of Columbia	82.6	North Dakota	47.7
Florida	64.8	Ohio	65.3
Georgia	73.6	Oklahoma	67.5
Hawaii	80.4	Oregon	83.6
Idaho	58.6	Pennsylvania	70.7
Illinois	70.2	Rhode Island	64.4
Indiana	62.1	South Carolina	73.9
lowa	78.0	South Dakota	53.4
Kansas	61.6	Tennessee	59.0
Kentucky	60.0	Texas	76.6
Louisiana	68.2	Utah	75.7
Maine	Ν	Vermont	61.6
Maryland	85.0	Virginia	69.6
Massachusetts	50.0	Washington	81.6
Michigan	83.5	West Virginia	49.5
Minnesota	73.4	Wisconsin	65.4
Mississippi	50.4	Wyoming	66.8
Missouri	67.7		

Table 2-4: Shoulder Belt Use: 2000

**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.

			Pedestrian		Pedestrian
			fatalities as	State	fatality rate per
	Total traffic	Pedestrians	percent of	population	100,000
State	fatalities	killed	total	(thousands)	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	32
Georgia	1 541	137	8.9	7 875	17
Hawaii	131	29	22 1	1 257	2.3
Idaho	276	- /	22.1	1 347	0.4
Illinois	1 / 18	187	13.2	12 051	1.6
Indiana	975	51	5.2	6 0 4 5	0.8
	445	25	5.6	2 000	0.0
Kanagan	445	25	5.0	2,900	0.9
Kansas Kaatualaa	401	19	4.1	2,000	0.7
Кептиску	820	23	0.0	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./
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	<sup>′</sup> 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
Tevas	3 769	412	10.9	20 119	2.0
lltab	373	33	8.8	20,117	1.5
Verment	70		9.0	617	1.5
Virginia	020	/ 02	0.7	6 007	1.1
Washington	730	72	7.7	0,77/	1.3
Washington	032	00	10.4	J,838	1.1
west virginia	410	25	6.I	1,841	1.4
wisconsin	/99	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

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

**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.* 

### Safety

	1995			 2000			
	Entelition			Fatalities			
	Tatul	Fatalities		Tatal	ratalities		
<b>C</b> 1	i otai fataalisiaa	Involving nigh	D		Involving nign	<b>D</b>	
State			Percent	 tatalifies	blood diconol	Percent	
Alabama	1,113	381	34	995	320	33	
	8/	3/	42	103	44	43	
Arizona	1,031	347	34	1,036	354	34	
Arkansas	031	148	23	052	139	21	
California	4,192	1,308	31	3,/53	1,061	28	
Colorado	645	226	35	681	198	29	
Connecticut	317	130	41	342	119	35	
Delaware	121	38	31	123	49	40	
District of Columbia	58	25	44	49	14	29	
Florida	2,805	8/3	31	2,999	930	31	
Georgia	1,488	400	27	1,541	438	28	
Hawaii	130	41	32	131	3/	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	
South Dakota	158	63	40	173	66	38	
Tennessee	1.259	420	33	1.306	399	31	
Texas	3 181	1 407	44	3 769	1 450	38	
Utab	326	69	21	373	68	18	
Vermont	106	33	31	79	27	34	
Virginig	900	272	30	930	27	28	
Washington	×53	272	38	632	237	34	
West Virginia	376	132	35	<u>⊿10</u>	149	36	
Wisconsin	745	263	35	799	288	36	
Wyoming	170	200	37	152	10	26	
United States	41.798	13.564	32	 41,821	12,892	31	

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

**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.

			Lower BAC for youthful		License sanctio	n
	Administrative per	Illegal per se	DWI offenders	(Mandatory	y minimum for a I	DWI 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-Iyr	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	Ν	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
			N /			

Table 2-7: Impaired Driving Laws: 2000

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

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### Safety

	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	60	55	
California	70, Trucks: 55	65	70	55	
Colorado	75	65	65	55	
Connecticut	65	55	65	55	
Delaware	65	55	65	55	
District of Columbia	NA	55	NA	25	
Florida	70	65	70	65	
Georgia	70	65	65	65	
Hawaii	55	50	45	45	
Idaho	75, Trucks: 65	65	65	65	
Illinois	65, Trucks: 55	55	65	55	
Indiana	65, Trucks: 60	55	55	55	
lowa	, 65	55	65	55	
Kansas	70	70	70	65	
Kentucky	65	55	55	55	
Louisiana	70	55	70	65	
Maine	65	55	55	55	
Maryland	65	65	65	55	
Massachusetts	65	65	65	55	
Michigan	70, Trucks: 55	65	70	55	
Minnesota	70	65	65	55	
Mississippi	70	70	70	65	
Missouri	70	60	70	65	
Montana	75, Trucks: 65	65	Day: 70, Night: 65	Day: 70, Night: 65	
Nebraska	75	65	65	60	
Nevada	75	65	70	70	
New Hampshire	65	65	55	55	
New Jersey	65	55	65	55	
New Mexico	75	55	65	55	
New York	65	65	65	55	
North Carolina	70	65	65	55	
North Dakota	70	55	65	Day: 65, Night: 55	
Ohio	65, Trucks: 55	65	55	55	
Oklahoma	75	70	70	70	
Oregon	65, Trucks: 55	55	55	55	
Pennsylvania	65	55	65	55	
Rhode Island	65	55	55	55	
South Carolina	70	70	60	55	
South Dakota	75	65	65	65	
Tennessee	70	70	70	55	
Texas	70	70	70	70	
Utah	75	65	55	55	
Vermont	65	55	50	50	
Virginia	65	55	65	55	
Washington	70, Trucks: 60	60	55	55	
West Virginia	70	55	65	55	
Wisconsin	65	65	65	55	
Wyoming	75	60	65	65	

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

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

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

**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.
	Accidents/				Accidents/		
State	Incidents	Fatalities	Injuries	State	Incidents	Fatalities	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

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





**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.* 

	Number of					Number of			
State	grade crossings	Incidents	Fatalities	Injuries	State	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
lowa	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

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





**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 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.

	Tenn	essee	United States		
	Number	Percent	Number	Percent	
Total	5,062	100.0	256,241	100.0	
Public, motor vehicle	3,206	63.3	155,370	60.6	
Private, motor vehicle	1,832	36.2	98,918	38.6	
Pedestrian	24	0.5	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

	Tenn	essee	United	States
	Number	Percent	Number	Percent
Total	3,206	100.0	155,370	100.0
Cross bucks	1,522	47.5	71,468	46.0
Gates	399	12.4	34,296	22.1
Flashing lights	662	20.6	27,100	17.4
Stop signs	167	5.2	11,630	7.5
Unknown	242	7.5	5,253	3.4
Special warning	175	5.5	3,723	2.4
HWTS, WW, bells	38	1.2	1,417	0.9
Other	1	0.0	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.

Type of person	Fatalities	Injuries
Worker on duty (railroad employee)	0	125
Employee not on duty	0	4
Passenger on train	0	1
Nontrespasser	9	21
Trespasser	6	2
Worker on duty (contractor)	0	4
Contractor (other)	0	2
Worker on duty (volunteer)	0	0
Volunteer (other)	0	0
Nontrespasser (off railroad property)	0	0

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

### Figure 2-4: Railroad Trespasser Deaths and Injuries in Tennessee (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.* 

		Collision		N	Noncollision			
	Number of			Number of			damage	
	incidents	Fatalities	Injuries	incidents	Fatalities	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	10	0	5	5	0	5	12	
Ferry boat	0	0	0	0	0	0	0	
Heavy rail	0	0	0	0	0	0	0	
Light rail	1	0	1	1	0	1	14	
Motor bus	49	4	37	29	0	26	154	
Trolley bus	0	0	0	0	0	0	0	
Van pool	0	0	0	0	0	0	0	

Table 2-14: Tennessee Transit Safety Data: 2000

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

	Collision			Ν	loncollision		Total property	
	Number of			Number of		damage		
	incidents	Fatalities	Injuries	incidents	Fatalities	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.

	Tennessee	United States
Number of accidents		
Total	196	7,740
Fatal	16	616
Nonfatal injury	99	3,292
Property damage	81	3,832
Number of persons		
Killed	19	701
Injured	129	4,355

**Table 2-16: Recreational Boating Accidents: 2000** 

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



Figure 2-5: Tennessee 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.

		1999	2000		
	Tennessee	<b>United States</b>	Tennessee	<b>United States</b>	
Number of accidents					
Total	8	633	27	696	
Number of persons					
Killed	1	191	8	215	
Injured	5	476	18	542	

#### **Table 2-17: Alcohol Involvement in Recreational Boating**



Figure 2-6: Tennessee 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.

				Injuries	Damages	
	Incidents	Deaths	Total	Major	Minor	(\$ thousands)
Tennessee	1,014	0	5	0	5	417
United States	17,514	13	246	18	228	72,728

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

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: Tennessee 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.

			Injuries		Damages
Mode	Total incidents	Deaths	Major	Minor	(\$ thousands)
Highway	627	0	0	5	414
Rail	28	0	0	0	3
Air	359	0	0	0	0
Water <sup>1</sup>	0	0	0	0	0
Total	1,014	0	0	5	417

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

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

## Figure 2-8: Tennessee 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
Tennessee						
Number of incidents	5	3	3	7	0	2
Number of fatalities	1	0	0	0	0	0
Number of injuries	2	1	3	4	0	1
Property damage (\$ thousands)	225	258	70	540	0	50
United States, total						
Number of incidents	97	110	102	137	119	154
Number of fatalities	16	<b>47</b> <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>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.

	1995	1996	1997	1998	1999	2000
Tennessee						
Number of incidents	2	0	0	1	1	1
Number of fatalities	0	0	0	0	0	0
Number of injuries	0	0	0	0	0	3
Property damage (\$ thousands)	25	0	0	97	313	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

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

**NOTE**: Incidents are reported on Form RSPA F 7100.2.

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

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.

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.

	1995	1996	1997	1998	1999	2000
Tennessee						
Number of incidents	0	2	0	1	3	0
Number of fatalities	0	0	0	0	0	0
Number of injuries	0	0	0	0	0	0
Property damage (\$ thousands)	0	2,500	0	2,035	8,615	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

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

**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

State of origin	Rank	Value (\$ millions)	Weight (thousand short tons)	State of origin	Rank	Value (S millions)	Weight (thousand short tons)
Tennessee	1	47.298	135.281	Wyoming	27	43	423
Kentucky	2	6.114	21.799	Washinaton	28	1.026	280
, Illinois	3	5.623	11.369	Connecticut	29	882	276
Louisiana	4	2.619	9,119	Idaho	30	229	255
Georaia	5	9.540	8.033	Maine	31	320	252
Virginia	6	2,704	7,667	Nebraska	32	419	160
Missouri	7	2,887	6,328	Oregon	33	565	153
Indiana	8	5,176	4,676	Maryland	34	524	143
Ohio	9	7,652	3,968	Massachusetts	35	1,731	135
Texas	10	5,528	3,814	South Dakota	36	118	90
Arkansas	11	3,033	3,803	Montana	37	92	78
Mississippi	11	3,388	3,803	Arizona	38	1,080	58
North Carolina	13	5,580	3,449	New Hampshire	39	354	33
Pennsylvania	14	4,616	2,574	Vermont	40	96	32
West Virginia	15	609	1,966	Delaware	41	151	26
South Carolina	16	2,376	1,562	New Mexico	42	107	23
Minnesota	17	1,851	1,524	Rhode Island	43	113	19
Michigan	18	4,348	1,444	Alabama	44	5,737	S
Wisconsin	19	3,396	1,386	Alaska	44	S	S
Florida	20	2,475	1,169	Colorado	44	693	S
New York	21	3,762	810	District of Columbia	44	S	S
Oklahoma	22	729	803	Hawaii	44	S	S
lowa	23	1,365	695	Nevada	44	95	S
California	24	4,476	644	North Dakota	44	87	S
Kansas	25	1,223	624	Utah	44	383	S
New Jersey	26	2,459	517	From all states		155,673	267,550

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

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.

State of	Damk	Value (\$ millions)	Weight (thousand short tons)	Cause of destinution	Damk	Value (5 millions)	Weight (thousand
destination	Rank		short tons)	State of destination	Kank	(\$ millions)	snort tons)
Tennessee	1	47,298	135,281	West Virginia	27	668	376
Alabama	2	5,211	8,763	Massachusetts	28	1,346	333
Georgia	3	9,871	8,480	lowa	29	1,012	329
Arkansas	4	3,213	6,353	Arizona	30	999	247
Mississippi	5	3,976	5,327	Connecticut	31	467	190
Kentucky	6	6,576	5,095	Oregon	32	534	146
North Carolina	7	5,043	3,329	Nebraska	33	356	144
Texas	8	7,986	2,961	Utah	34	416	117
Louisiana	9	2,194	2,939	Maine	35	282	79
Ohio	10	S	2,867	Nevada	35	453	79
Virginia	11	4,664	2,666	New Hampshire	37	263	55
South Carolina	12	3,813	2,591	North Dakota	38	217	53
Illinois	13	5,221	2,504	Rhode Island	39	195	46
Florida	14	4,051	1,984	South Dakota	40	132	31
Michigan	15	5,194	1,844	New Mexico	41	139	28
Pennsylvania	16	4,331	1,732	Montana	42	106	18
California	17	8,482	1,622	Idaho	43	93	17
Indiana	18	3,169	1,585	Wyoming	44	28	5
Missouri	19	2,848	1,348	Alaska	45	29	2
New Jersey	20	3,114	1,216	Delaware	46	177	S
New York	21	2,843	836	District of Columbia	46	118	S
Wisconsin	22	1,674	552	Hawaii	46	61	S
Washington	23	1,095	495	Minnesota	46	1,152	S
Kansas	24	788	488	Oklahoma	46	1,125	S
Maryland	25	1,088	432	Vermont	46	68	S
Colorado	26	892	400	To all states		165.771	208.604

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

**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.

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	Value	•	Short to	ons	Ton-miles		
	Number		Number		Number		
	(\$ millions)	Percent	(thousands)	Percent	(millions)	Percent	
All modes	165,771	100.0	208,604	100.0	39,798	100.0	
Single modes	146,341	88.3	202,335	97.0	36,954	92.9	
Truck	140,445	84.7	187,925	90.1	28,952	72.7	
For-hire	96,194	58.0	77,577	37.2	20,771	52.2	
Private truck	42,787	25.8	107,951	51.7	7,581	19.0	
Rail	4,171	2.5	12,113	5.8	7,622	19.2	
Water	S	S	S	S	S	S	
Shallow draft	S	S	S	S	S	S	
Great Lakes	Z	Z	Z	Z	Z	Z	
Deep draft	S	S	S	S	S	S	
Air (including truck and air)	1,402	0.8	31	Z	31	Z	
Pipeline	207	0.1	613	0.3	S	S	
Multiple modes	13,167	7.9	2,759	1.3	1,592	4.0	
Parcel, U.S. Postal Service, or courier service	11,032	6.7	570	0.3	320	0.8	
Truck and rail intermodal combination	1,960	1.2	S	S	1,114	2.8	
Truck and water	77	Z	S	S	154	0.4	
Rail and water	Z	Z	Z	Z	Z	Z	
Other multiple modes	S	S	S	S	S	S	
Other and unknown modes	6,263	3.8	3,510	1.7	1,251	3.1	

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

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

**NOTE**: 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.

		Weight
	Value	(thousand
State of destination	(\$ millions)	short tons)
Tennessee	41,187	130,845
Alabama	4,559	7,255
Georgia	8,582	7,036
Arkansas	2,731	5,111
Kentucky	5,888	4,619
Mississippi	3,441	4,609
Ohio	S	2,545
Virginia	3,449	2,386
North Carolina	4,371	2,266
Texas	6,775	2,215
All other states	S	19,038
Total, all states	140,445	187,925

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

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

State of origin	Value (\$ millions)	Weight (thousand short tons)
Tennessee	41,187	130,845
Georgia	7,396	6,759
Kentucky	5,552	4,574
Mississippi	2,946	3,087
Ohio	6,221	2,554
Arkansas	2,637	2,446
Indiana	4,334	2,441
North Carolina	4,825	2,142
Illinois	4,017	2,052
Texas	3,016	1,575
All other states	37,620	35,502
Total, all states	119,751	193,977

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

**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: Tennessee 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 Tennessee by Commodity: 1997(Descending order by weight)

		Weight
	Value	(thousand
Commodity (2-digit commodity code)	(\$ millions)	short tons)
Gravel and crushed stone (12)	392	69,153
Nonmetallic mineral products (31)	3,036	25,888
Gasoline and aviation turbine fuel (17)	2,937	12,522
Other prepared foodstuffs and fats and oils (07)	8,238	10,520
Base metal in primary or semifinished forms and in finished basic shapes (32)	6,128	5,904
Wood products (26)	2,722	4,765
Fuel oils (18)	914	4,510
Waste and scrap (41)	674	3,942
Pulp, newsprint, paper, and paperboard (27)	1,762	2,824
Milled grain products and preparations, and bakery products (06)	3,415	2,765
Motorized and other vehicles (including parts) (36)	11,795	2,534
Plastics and rubber (24)	8,201	2,526
Coal and petroleum products, n.e.c. (19)	585	2,505
Basic chemicals (20)	2,401	2,149
Articles of base metal (33)	4,941	2,146
Machinery (34)	13,796	2,002
Paper or paperboard articles (28)	2,399	1,976
Animal feed and products of animal origin, n.e.c. (04)	492	1,928
Meat, fish, seafood, and their preparations (05)	3,616	1,738
Printed products (29)	6,615	1,686
All other commodities	55,386	23,942
Total, all commodities	140,445	187,925

**KEY**: n.e.c. = not elsewhere classified.

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.

		Percent of		Percent of
Commodity	1999	total	2000	total
Coal	11,697,503	31.4	10,927,602	29.6
Chemicals	4,442,272	11.9	4,712,210	12.7
Food products	3,422,408	9.2	3,642,252	9.9
Farm products	3,519,470	9.4	3,490,998	9.4
Mixed freight	U	U	2,106,280	5.7
Nonmetallic minerals	2,278,884	6.1	U	U
All other commodities	11,892,686	31.9	12,079,556	32.7
Tennessee, total	37,253,223	100.0	36,958,898	100.0

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

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

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

		Percent of		Percent of
Commodity	1999	total	2000	total
Chemicals	2,696,068	13.4	3,005,356	14.4
Glass and stone products	2,627,148	13.0	2,925,296	14.0
Food products	2,269,592	11.3	2,590,544	12.4
Mixed freight	2,468,168	12.2	2,501,880	12.0
Transportation equipment	2,239,368	11.1	1,936,642	9.3
All other commodities	7,872,199	39.0	7,907,761	37.9
Tennessee, total	20,172,543	100.0	20,867,479	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.

**SOURCE 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: Tennessee Total Rail Flows: 1999

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

		Percent of
Destination	Short tons	total
Total originating in Tennessee	12,633,016	100.0
Tennessee (intrastate)	4,732,666	37.5
Louisiana	3,686,929	29.2
Kentucky	966,107	7.6
Mississippi	456,223	3.6
Illinois	446,173	3.5
Missouri	426,854	3.4
Indiana	375,280	3.0
Pennsylvania	357,391	2.8
Alabama	294,312	2.3
Texas	292,897	2.3
Arkansas	191,995	1.5
lowa	156,341	1.2
Florida	93,476	0.7
West Virginia	62,238	0.5
Ohio	47,107	0.4
Oklahoma	23,785	0.2
Minnesota	20,412	0.2
Georgia	2,830	<0.1

Table 3-9: Foreign and Domestic Waterborne ShipmentsOriginating in Tennessee by Destination: 2000

### Table 3-10: Foreign and Domestic Waterborne Shipmentsto Tennessee by Origin: 2000

		Percent of
Origin	Short tons	total
Total shipped to Tennessee	41,148,963	100.0
Kentucky	16,818,950	40.9
Louisiana	6,960,514	16.9
Illinois	5,426,707	13.2
Tennessee (intrastate)	4,732,666	11.5
Missouri	3,039,707	7.4
Arkansas	889,590	2.2
Texas	577,730	1.4
Alabama	446,130	1.1
Mississippi	425,248	1.0
Pennsylvania	420,652	1.0
West Virginia	403,746	1.0
Indiana	273,290	0.7
Ohio	254,602	0.6
Minnesota	150,148	0.4
lowa	138,296	0.3
Florida	90,293	0.2
Oklahoma	84,815	0.2
Wisconsin	9,844	<0.1
North Carolina	6,035	<0.1
Maine	800	<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.iwr.usace.army.mil as of Feb. 12, 2002.

Commodity	Short tons	Percent of total
Total	12,633,016	100.0
Sand, gravel, shells, clay, salt, and slag	3,879,722	30.7
Food and food products	3,347,063	26.5
Petroleum products	2,755,233	21.8
Iron ore, iron, and steel waste and scrap	526,313	4.2
Chemical fertilizers	89,201	0.7
Primary metal products	63,418	0.5
Chemicals excluding fertilizers	55,891	0.4
Primary nonmetal products	4,059	0.0
Unknown and not elsewhere classified products <sup>2</sup>	1,912,116	15.1

# Table 3-11: Foreign and Domestic Waterborne ShipmentsOriginatingin Tennessee by Commodity: 20001

# Table 3-12: Domestic Waterborne Shipments Originating inTennessee by Commodity: 20001

Commodity	Short tons	Percent of total
Total	10,720,900	100.0
Sand, gravel, shells, clay, salt, and slag	3,879,722	36.2
Food and food products	3,347,063	31.2
Petroleum products	2,755,233	25.7
Iron ore, iron, and steel waste and scrap	526,313	4.9
Chemical fertilizers	89,201	0.8
Primary metal products	63,418	0.6
Chemicals excluding fertilizers	55,891	0.5
Primary nonmetal products	4,059	0.0
Unknown and not elsewhere classified products <sup>2</sup>	1,912,116	17.8

<sup>1</sup> "Domestic" includes intrastate shipments.

<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."

**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.iwr.usace.army.mil/ as of Oct. 30, 2001.

		Percent of
Commodity	Short tons	total
Total	38,187,317	100.0
Coal, lignite, and coal coke	14,991,913	39.3
Sand, gravel, shells, clay, salt, and slag	11,103,839	29.1
Petroleum products	4,610,398	12.1
Primary nonmetal products	1,813,305	4.7
Primary metal products	1,682,382	4.4
Iron ore, iron, and steel waste and scrap	1,420,308	3.7
Food and food products	1,275,075	3.3
Chemicals excluding fertilizers	594,887	1.6
Chemical fertilizers	503,812	1.3
Non-ferrous ores and scrap	191,398	0.5
Manufactured goods	143,647	0.4
Unknown and not elsewhere classified products <sup>2</sup>	2,818,799	7.4

# Table 3-13: Foreign and Domestic Waterborne Shipmentsto Tennessee by Commodity: 20001

## Table 3-14: Domestic Waterborne Shipments to Tennesseeby Commodity: 20001

		Percent of
Commodity	Short tons	total
Total	38,187,317	100.0
Coal, lignite, and coal coke	14,991,913	39.3
Sand, gravel, shells, clay, salt, and slag	11,103,839	29.1
Petroleum products	4,610,398	12.1
Primary nonmetal products	1,813,305	4.7
Primary metal products	1,682,382	4.4
Iron ore, iron, and steel waste and scrap	1,420,308	3.7
Food and food products	1,275,075	3.3
Chemicals excluding fertilizers	594,887	1.6
Chemical fertilizers	503,812	1.3
Non-ferrous ores and scrap	191,398	0.5
Manufactured goods	143,647	0.4
Unknown and not elsewhere classified products <sup>2</sup>	2,818,799	7.4

<sup>1</sup> "Domestic" includes intrastate shipments.

<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."

**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.iwr.usace.army.mil/ as of Oct. 30, 2001.

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

	Fre	ight		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
Georaia	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 / 28	11 368	185	01
Maryland	25 723	24 781	19 850	3 573
Massachusetts	11/2/3	127,701	31 133	0,370
Michigan	87 127	68 108	11 678	1 818
Minnesota	85 601	51 285	59 550	9 1 9 2
Miniesolu Mississippi	308	11 338	2 108	9,192
Missouri	71 217	67 157	67.876	√ 120
Montana	16 261	7 017	1 097	4,120
Nohraska	10,201	26 266	1,707	5,541
Nevada	12,100	12 6 4 1	20 407	1 272
Nevuuu Nevu Hamashira	45,030	12,041	30,407	1,373
New Iorsov	252 556	115 712	54 927	4 5 5 0
New Jersey	12 945	20.255	0 2 2 7	4,550
New Mexico	12,043	29,300	9,327 112 002	5,379
New TOrk	317,230	107,300	25 095	3,022
Norm Carolina	65,990	00,700	30,960	3,490
	3,424	383	40 750	2,820
Onio	283,292	292,529	48,750	0,442
Okianoma	25,//3	10,804	9,022	9
Oregon	/3,035	59,101	12,000	22,/29
Pennsylvania	156,043	312,359	45,377	9,035
Puerto Rico	/8,11/	44,530	4,319	3,312
Khode Island	3,883	2,/53	2,543	Ű
South Carolina	17,237	/6,688	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	4	0
Wisconsin	30,060	19,618	11,558	1,088
Wyoming	6,786	11	5	0
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.

	Expor	Exports to		rts from
	Canada	Mexico	Canada	Mexico
Tennessee	3,670	1,625	3,999	3,116
United States, total	154,847	97,159	210,270	113,437

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



Figure 3-1: Tennessee 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 Tennessee by Weight

Figure 3-3: Truck and Rail Imports from Canada to Tennessee 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

	Tenne	ssee	United States		
Mode	Number	Percent	Number	Percent	
Total	2,599,228	100.0	127,448,586	100.0	
Car, truck, or van drove alone	2,116,488	81.4	97,243,457	76.3	
Car, truck, or van carpooled	322,548	12.4	14,299,090	11.2	
Public transportation (including taxi)	25,183	1.0	6,592,685	5.2	
Walked	32,377	1.2	3,417,546	2.7	
Other means	26,836	1.0	1,820,578	1.4	
Worked at home	75,796	2.9	4,075,230	3.2	
Mean travel time to work (minutes)	22.8		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

	Tenne	ssee	United States		
Licensed drivers	Number	Percent	Number	Percent	
Total	4,251,228	100.0	190,625,023	100.0	
Male	2,086,924	49.1	95,796,069	50.3	
Female	2,164,304	50.9	94,828,953	49.7	





**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 Tennessee: 2000

Transit agencies	Modes provided	Urbanized area	Annual unlinked passenger trips (thousands)	Average weekday unlinked trips (thousands)	Operating funds expended (\$ millions)	Capital funds expended (\$ millions)	Vehicles available for maximum service
Memphis Area Transit Authority (MATA)	Bus, demand responsive, light rail	Memphis, TN-AR-MS	11,801	40	30	25	259
Metropolitan Transit Authority	Bus, demand responsive	Nashville	6,925	20	19	12	176
Chattanooga Area Regional Transportation Authority (CARTA)	Bus, demand responsive, inclined plane	Chattanooga, TN-GA	2,410	8	9	3	91
Knoxville Transportation Authority	Bus, demand responsive	Knoxville	1,939	7	7	5	105
Jackson Transit Authority (JTA)	Bus, demand responsive	Jackson	538	2	1	<1	18
Clarksville Transit System (CTS)	Bus, demand responsive	Clarksville, TN-KY	521	2	2	<1	23
Johnson City Transit System (JCT)	Bus, demand responsive	Johnson City	322	1	1	<1	21
City of Kingsport (KATS)	Bus, demand responsive	Kingsport, TN-VA	68	<1	<1	<1	10

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.

		Passenger
Airport	Rank	enplanements
Tennessee, all airports		10,490,891
Memphis (Memphis International)	38	4,977,238
Nashville (Nashville International)	42	4,365,127
Other top 50 airports		, ,
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
Newark, NJ (Newark International)	12	15.205.447
St. Louis, MO (Lambert-St.Louis International)	13	15.101.246
Orlando, FL (Orlando International)	14	13.465.706
Seattle, WA (Seattle-Tacoma International)	15	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 letport)	33	6 558 859
Cleveland, OH (Cleveland Honkins International)	34	6 154 094
San Jose CA (Norman Y Mineta San Jose International)	35	6.044.278
Kansas City MO (Kansas City International)	36	5 748 758
Oakland CA (Metropolitan Oakland International)	37	5,126,648
Raleigh-Durham NC (Raleigh-Durham International)	39	4 838 779
San Juan PR (Luis Munoz Marin International)	40	4 834 298
New Orleans, I.A. (Louis Armstrong New Orleans International)	40	4 822 265
Houston TX (William P. Hobby)	43	4 322 108
Sacramento CA (Sacramento International)	40	3 873 003
Los Angeles CA (John Wayne Airport-Orange County)	45	3 828 324
Austin TX (Robert Muller Municipal)	45	3 635 209
Indiananolis IN (Indiananolis International)	40	3 629 716
Dallas TX (Dallas Love Field)	/ 19	3,027,710
Hartford/Springfield/Westfield_CT (Windsor Locks Bradley International)	40 10	3 508 023
San Antonio TX (San Antonio International)	-17 50	3 466 266
United States, all airports	50	638 902 993
Top 50 as % of all enplanements		84%

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

**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 Tennessee<sup>1</sup>

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

**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.

D-4
# E Registered Vehicles and Vehicle-Miles Traveled

Motor vehicle type	Private and commercial	Publicly owned	Tennessee total	United States total
All motor vehicles	4,800,535	90,348	4,890,883	225,821,241
Automobiles	2,832,941	21,628	2,854,569	133,621,420
Buses	3,668	13,553	17,221	746,125
Trucks <sup>1</sup>	1,893,080	54,929	1,948,009	87,107,628
Light trucks	1,823,754	U	1,823,754	77,796,827
Farm trucks	40,310	U	40,310	1,885,170
Truck tractors	57,951	U	57,951	1,587,611
Motorcycles	70,846	238	71,084	4,346,068

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

<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.

Туре	Tennessee	United States
Total	113,533	21,541,490
Private and commercial	113,113	21,283,681
Commercial trailers <sup>2</sup>	72,439	4,685,606
Light farm trailers, car trailers, etc. <sup>3</sup>	40,475	14,113,392
House trailers	199	2,484,683
Publicly owned	420	257,809
Federal government	72	4,277
State, county, municipal government	248	253,532

## Table 5-2: Tennessee and U.S. Trailer and Semi-TrailerRegistrations: 20001

<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.

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

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

**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.

Vehicular and operational	All trucks	Trucks, excluding pickups, panels, vans, sport utilities, and station wagons	Vehicular and operational	All trucks	Trucks, excluding pickups, panels, vans, sport utilities, and station wacons
	AITHOURS	sianon wagons		AITHOUKS	sianon wagons
Total, number (thousands)	1,502.4	142.0			
Major use	100.0	100.0	Year model	100.0	100.0
Agriculture	2.3	9.0	1 to 2 years old	15.4	17.9
Forestry and lumbering	0.4	2.3	3 to 4 years old	17.0	20.1
Mining and quarrying	V	0.3	Over 4 years old	67.5	62.0
Construction	7.5	13.9			
Manufacturing	1.6	4.4	Vehicle acquisition	100.0	100.0
Wholesale and retail trade	5.8	13.6	Purchased new	43.0	46.0
For-hire transportation	4.0	37.4	Purchased used	52.6	38.3
Utilities and service	4.0	8.4	Leased from someone or	4.4	15.7
Personal transportation	71.1	3.0	not reported		
Other and not reported	3.3	7.7			
			Truck type	100.0	100.0
Body type	100.0	100.0	Single-unit trucks	94.5	50.3
Pickup, panel, minivan, and	90.5	NA	2 axles	93.9	43.8
sport utility	,		3 axles or more	0.6	6.5
Platform and cattlerack	2.1	22.0	Combination	5.5	49.7
Van	4.0	42.4	3 axles	0.5	3.7
Public utility	0.2	2.1	4 axles	1.2	7.6
Multistop or stepyans	1.0	10.7	5 axles or more	3.8	38.3
	0.9	9.4	Trailer not specified	0.2	V
Tank for liquids or dry bulk	0.3	2.7	· ·		
Other or not reported	1.0	10.7	Range of operation	100.0	100.0
			Local	68.5	38.3
Vehicle size	100.0	100.0	Short-range	19.2	19.6
Light	91.0	13.8	Long-range	7.4	36.3
Medium	2.6	18.5	Off-the-road or not	4.9	5.9
Light-heavy	0.8	8.9	reported		
Heavy-heavy	5.6	58.9			
			Fuel type	100.0	100.0
Annual miles driven	100.0	100.0	Gasoline	90.4	25.5
Less than 5,000	16.1	17.2	Diesel, liquefied gas,	9.3	70.9
5,000 to 9,999	17.4	8.8	and other		
10,000 to 19,999	36.2	15.8	Not reported	0.4	3.7
20,000 to 29,999	16.4	8.8			
30,000 or more	13.9	49.3			

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

NOTE: Numbers may not add to 100 due to rounding.

**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.

State	Total VMT (millions)	VMT per	State	Total VMT (millions)	VMT per
Alabama	56 534	12 716	Montana	9 882	10.812
Alaska	4 613	7 501	Nebraska	18 081	10,568
Arizona	49.768	11.428	Nevada	17.639	9.504
Arkansas	29,167	11.107	New Hampshire	12.021	9,687
California	306,649	9,053	New Jersey	67,446	8,015
Colorado	41,771	9,712	New Mexico	22,760	13,580
Connecticut	30,756	9,057	New York	129,057	6,801
Delaware	8,240	10,510	North Carolina	89,504	11,120
Dist. of Columbia	3,498	6,115	North Dakota	7,217	11,241
Florida	152,136	9,609	Ohio	105,898	9,328
Georgia	105,010	12,969	Oklahoma	43,355	12,563
Hawaii	8,543	7,014	Oregon	35,010	11,175
Idaho	13,534	10,467	Pennsylvania	102,337	8,316
Illinois	102,866	8,225	Rhode Island	8,359	8,326
Indiana	70,862	12,779	South Carolina	45,538	7,971
lowa	29,433	10,059	South Dakota	8,432	11,168
Kansas	28,130	10,599	Tennessee	65,732	11,698
Kentucky	46,803	11,579	Texas	220,064	10,613
Louisiana	40,849	9,430	Utah	22,597	11,226
Maine	14,190	11,129	Vermont	6,811	11,184
Maryland	50,174	9,809	Virginia	74,801	10,564
Massachusetts	52,796	8,513	Washington	53,330	9,251
Michigan	97,792	9,839	West Virginia	19,242	10,684
Minnesota	52,601	10,693	Wisconsin	57,266	10,261
Mississippi	35,536	12,187	Wyoming	8,090	16,410
Missouri	67,083	11,990	United States	2,749,803	9,811

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

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



**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.

Federal-aid urbanized area <sup>1</sup>	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
Memphis, TN-AR-MS	3,369	22,724	919	420	2,188	3.7	24.7	505	13,636
Nashville	2,960	22,753	605	571	1,060	4.9	37.6	760	13,735
Chattanooga, TN-GA	2,233	U	331	310	1,068	6.7	U	328	12,010
Knoxville	1,997	11,574	325	355	915	6.1	35.6	271	14,738
Clarksville, TN-KY	654	2,836	147	142	1,035	4.5	19.3	60	7,809
Kingsport, TN-VA	672	2,874	88	116	759	7.6	32.7	110	6,783
Johnson City	663	2,778	88	84	1,048	7.5	31.6	71	8,619
Bristol, TN-VA	431	2,083	58	66	879	7.4	35.9	84	9,397
Jackson	382	1,807	57	61	934	6.7	31.7	25	9,115

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

<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; U = data are unavailable.

**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: Tennessee and U.S. Recreational BoatRegistrations by Propulsion Type

	Tennes	see	United States			
	1999	2000	1999	2000		
Total	314,624	269,583	12,738,271	12,782,143		
Powered	314,624	267,514	11,811,562	11,648,769		
Nonpowered	0	2,069	481,191	547,271		
Other	0	0	445,518	590,103		

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



#### Figure 5-2: Tennessee 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. Tennessee statistics include all motorboats and sailboats. 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.

#### Vehicles

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

		Hours flown			
C1	A	Hours flown			
State	Active dircraft	(fnousanas)			
Alabama	3,480	462			
	5,925	092			
Arizona	8,082	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	1 595	/07			
Ohio	1,303	940			
Oklahama	4 090	640			
Oragon	4,080	540			
Benevilie	4,007	704			
Phodo Johna	5,040	/24			
	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	7,166	912			
West Virginia	1,075	136			
Wisconsin	4,649	590			
Wyoming	778	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.

			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

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

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

# **F** Economy and Finance

Business type	Establishments <sup>1</sup> (number)	Number of employees	Annual payroll (\$ thousands)
Total transportation and warehousing	4,163	93,015	2,954,344
Air transportation	94	5,880	195,636
Water transportation	23	500-999	D
Truck transportation	2,525	53,291	1,728,491
Transit and ground passenger transportation	307	4,258	77,696
Pipeline transportation	35	250-499	D
Scenic and sightseeing transportation	19	100-249	D
Support activities for transportation	541	6,792	193,258
Couriers and messengers	411	17,530	590,172
Warehousing and storage	208	3,891	109,701

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

**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>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.

	199	95	199	96	19	97	19	98	199	29
Mode	State	Local								
Total (current \$)	957	242	954	259	965	269	998	251	988	311
Highway	957	80	954	83	965	78	998	82	988	122
Transit	Z	23	Z	23	Z	23	Z	23	Z	22
Air	Z	136	Z	150	Z	167	Z	145	Z	165
Water	Z	3	Z	3	Z	1	Z	1	Z	1
Total (chained 1996 \$)	979	248	954	259	941	263	957	241	923	290
Highway	979	82	954	83	941	76	957	79	923	114
Transit	Z	24	Z	23	Z	22	Z	22	Z	21
Air	Z	139	Z	150	Z	163	Z	139	Z	154
Water	Z	3	Z	3	Z	1	Z	1	Z	1

 Table 6-3: Transportation Revenues Collected by State and Local Governments in Tennessee

 (\$ millions)

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

	199	95	199	96	199	<del>?</del> 7	19	98	19	99
Mode	State	Local	State	Local	State	Local	State	Local	State	Local
Total (current \$)	949	726	949	760	1,010	804	1,074	872	1,098	1,012
Highway	949	495	949	542	1,010	583	1,074	599	1,098	595
Transit	Z	52	Z	61	Z	72	Z	75	Z	78
Air	Z	178	Z	156	Z	147	Z	197	Z	337
Water	Z	1	Z	1	Z	1	Z	1	Z	1
Total (chained 1996 \$)	970	743	949	760	984	784	1,030	836	1,026	945
Highway	970	506	949	542	984	568	1,030	574	1,026	556
Transit	Z	53	Z	61	Z	71	Z	72	Z	73
Air	Z	182	Z	156	Z	144	Z	189	Z	315
Water	Z	1	Z	1	Z	1	Z	1	Z	1

<sup>1</sup>Includes federal grants.

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

**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.

State         Gasoline         Diesel         gas         Gasohal <sup>1</sup> Alabama         18.00         19.00         17.00         18.00           Alaska         8.00         8.00         8.00         0.00         0.00           Arkansas         19.50         20.50         16.50         18.00           Arkansas         19.50         20.50         20.50         22.00           Colifornia         18.00         18.00         31.00         Delavare           Delavare         23.00         22.00         20.50         22.00         23.00           Delavare         23.00         20.00         20.00         20.00         11.00         16.00           Idaho         16.00         16.00         11.00         16.00         13.10         25.50         18.10         22.50           Illinois         19.00         21.50         18.00         20.00         19.00         15.00         16.00 </th <th></th> <th></th> <th></th> <th>Liquified</th> <th></th>				Liquified	
State         Gasoline         Diesel         gas         Gasohal <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           Arkanass         19.50         20.50         16.50         18.60           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         20.00           District of Columbia         10.00         20.00         20.00         20.00           Idaho         15.00         16.00         13.10         22.50         11.00         16.00           Idaho         25.00         25.00         18.10         22.50         11.00         15.00           Idaha         19.00         21.50         19.00         19.00         15.00         16.00         15.00           Idaha         13.40         15.00         16.00         12.00         16.00         12.00           Illinois         19.00				netroleum	
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           Arizona         18.00         27.00         18.00         18.00           Arizona         18.00         20.50         16.50         18.00           California         18.00         18.00         0.00         31.00           Conracticut         32.00         22.00         22.00         23.00           Delaware         23.00         20.00         20.00         20.00           Fiorida         13.10         25.10         16.00         13.10           Georgia         7.50         7.50         7.50         14.00           Illinois         19.00         21.50         18.10         22.50           Illinois         19.00         21.50         19.00         19.00           Illinois         19.00         22.00         19.00         20.00           Kansas         20.00         22.00         19.00         20.00           Kansas         20.00         20.00         16.00         20.00	State	Gasolino	Diesel	aas	Gasabal <sup>1</sup>
Alaska         10.00         17.00         17.00         17.00           Arkansa         8.00         27.00         18.00         0.00         0.00           Arkansas         19.50         20.50         16.50         18.60           California         18.00         22.00         20.50         22.00         20.00           Colorado         22.00         20.00         21.50         11.00         16.00         13.10         Georgia         7.50         7.50         7.50         7.50         7.50         17.50         17.00 </th <th>Alabama</th> <th>18.00</th> <th>19.00</th> <th><u>9</u>us 17.00</th> <th>18.00</th>	Alabama	18.00	19.00	<u>9</u> us 17.00	18.00
Arizona         18.00         27.00         18.00         18.00           Arizona         18.00         27.00         18.00         18.00           California         18.00         20.50         16.50         18.60           Colorado         22.00         22.00         22.00         23.00           Connecticut         32.00         20.00         20.00         20.00           District of Columbia         20.00         20.00         20.00         20.00           Piorida         13.10         25.10         16.00         13.10           Georgia         7.50         7.50         7.50         7.50           Hawaii         16.00         16.00         18.00         18.00           Idaho         25.00         25.00         19.00         19.00           Indiana         15.00         16.00         16.00         16.00           Iowa         20.00         22.50         20.00         19.00           Kansas         20.00         22.50         20.00         19.00           Kansas         20.00         22.00         19.00         19.00           Kansas         20.00         20.00         18.00         19.00 </td <td>Alaska</td> <td>8.00</td> <td>8.00</td> <td>0.00</td> <td>0.00</td>	Alaska	8.00	8.00	0.00	0.00
Arkansas         19.50         21.50         16.50         18.60           California         18.00         18.00         6.00         18.00           Colorado         22.00         20.50         22.00         23.00           Connecticut         32.00         22.00         20.00         20.00         20.00           Plorida         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         16.00         15.00           Kansas         20.00         22.50         20.00         19.00           Kansas         20.00         22.00         19.00         20.00           Kansas         20.00         22.50         23.50         23.50           Maryland         23.50         24.25         23.50         23.50           Masachusetts         21.00         15.00         19.00	Arizona	18.00	27.00	18.00	18.00
Ankinga         17.50         20.50         16.50         16.50           California         18.00         18.00         0.00         18.00           Conracticut         32.00         18.00         0.00         23.00           Delaware         23.00         22.00         20.00         20.00           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         0.00         15.00           Idaho         25.00         25.00         18.10         22.50           Illinois         19.00         21.50         19.00         19.00           Iowa         20.00         22.50         20.00         19.00           Kansas         20.00         22.50         20.00         16.00           Kansas         20.00         22.50         23.50         23.50           Masachusetts         21.00         18.00         19.00         16.00           Massachusetts         21.00         21.00         18.40         18.40 </td <td>Arkansas</td> <td>19.50</td> <td>20.50</td> <td>16.00</td> <td>18.60</td>	Arkansas	19.50	20.50	16.00	18.60
Colorado         22.00         20.50         22.00         23.00           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           Forida         13.10         25.10         16.00         13.10           Georgia         7.50         7.50         7.50         7.50           Hawaii         16.00         16.00         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         22.00         19.00         19.00           Kansas         20.00         22.00         19.00         20.00           Kansas         20.00         20.00         16.00         20.00           Maine         19.00         20.00         16.00         20.00           Maine         19.00         21.00         8.10         21.00           Michigan         19.00         15.00         19.00         10.00	California	18.00	18.00	6.00	18.00
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           Iodiana         15.00         16.00         0.00         15.00           Iowa         20.00         22.50         20.00         19.00           Kansas         20.00         20.00         16.00         20.00           Kansas         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         8.10         21.00           <	Colorado	22.00	20.50	20.50	22.00
Delaware         23.00         22.00         23.00         20.00         10.00         16.00         10.00         16.00         10.00         16.00         10.00         15.00         19.00         11.00         16.00         10.00         15.00         19.00         10.00         15.00         19.00         10.00         15.00         10.00	Connecticut	32.00	18.00	0.00	31.00
District of Columbia         20.00         22.00         22.00         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         22.00         19.00         20.00           Kansas         20.00         22.00         19.00         20.00           Kansas         20.00         20.00         16.00         20.00           Kansas         20.00         20.00         18.00         19.00           Maryland         23.50         24.25         23.50         23.50           Massachusetts         21.00         21.00         81.0         21.00           Minesota         27.00         27.75         0.00         27.00           Missouri         17.00         17.00         17.00         17.00 <td>Delaware</td> <td>23.00</td> <td>22.00</td> <td>22.00</td> <td>23.00</td>	Delaware	23.00	22.00	22.00	23.00
District of Colonind       20.00       20.00       12.00       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       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       22.50       20.00       19.00         Kansas       20.00       20.00       16.00       20.00         Kentucky       16.40       13.40       15.00       16.40         Louisiana       20.00       20.00       18.00       19.00         Maryland       23.50       24.25       23.50       23.50         Massachusetts       21.00       21.00       8.10       21.00         Minesota       20.00       20.00       15.00       19.00         Mississippi       18.40       18.40       17.00       17.00         Missouri       17.00       17.00       17.00       17.00         Nebraska       22.80       22.80       22.80       22.80	District of Columbia	20.00	20.00	20.00	20.00
Normal         10.10         10.10         10.10         10.10           Georgia         7.50         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           Iowa         20.00         22.50         20.00         19.00           Kansas         20.00         22.00         19.00         20.00           Kansas         20.00         20.00         18.00         19.00           Kansas         20.00         20.00         18.00         19.00           Maine         19.00         20.00         18.00         19.00           Maryland         23.50         24.25         23.50         23.50           Minesota         21.00         8.10         17.00         17.00           Mississippi         18.40         18.40         17.00         17.00           Missouri         17.00         17.00         17.00         17.00           Newtada         24.75         27.75         20.00         24.75	Florida	13 10	25.00	16.00	13 10
Congres       1.50       1.50       1.50       1.50         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         Iowa       20.00       22.00       19.00       20.00         Kansas       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       81.0       21.00         Michigan       19.00       15.00       15.00       19.00         Missouri       17.00       17.00       17.00       17.00         Montana       27.00       27.75       0.00       27.00         New dat       24.75       27.75       22.00       24.75         New Ham	Georgia	7 50	7 50	7 50	7 50
Idaho       15.00       17.00       17.00       10.00         Illinois       19.00       21.50       19.00       19.00         Indiana       15.00       25.00       18.10       22.50         Iowa       20.00       22.50       20.00       19.00         Kansas       20.00       22.00       19.00       20.00         Kentucky       16.40       13.40       15.00       16.40         Louisiana       20.00       20.00       18.00       20.00         Maryland       23.50       24.25       23.50       23.50         Massachusetts       21.00       8.10       21.00         Michigan       19.00       15.00       19.00         Missouri       17.00       17.00       17.00         Missouri       17.00       17.00       17.00         Nevada       24.75       27.75       0.00       27.00         Newada       24.75       27.75       20.00       24.75         New Hampshire       19.50       13.50       5.25       10.50         New Markico       18.50       19.50       0.00       18.50         New Markico       18.50       19.50       0.	Hawaii	16.00	16.00	11.00	16.00
Illinois       19.00       12.50       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       22.50       20.00       19.00         Kentucky       16.40       13.40       15.00       16.40         Louisiana       20.00       20.00       18.00       19.00         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         Minnesota       20.00       20.00       15.00       19.00         Missisippi       18.40       18.40       17.00       17.00         Missouri       17.00       17.00       17.00       17.00         Mestaska       22.80       22.80       22.80       28.0         New Hampshire       19.50       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	Idabo	25.00	25.00	18 10	22 50
Indiana17.5017.5017.5017.50Indiana15.0016.000.0015.00Iowa20.0022.5020.0019.00Kansas20.0022.0019.0020.00Kentucky16.4013.4015.0016.40Louisiana20.0020.0018.0019.00Maryland23.5024.2523.5023.50Massachusetts21.0021.008.1021.00Michigan19.0015.0015.0019.00Minnesota20.0020.0015.0020.00Mississippi18.4018.4017.0017.00Missouri17.0017.0017.0017.00Montana27.0027.750.0027.00Nebraska22.8022.8022.8022.80Nevada24.7527.7522.0024.75New Hampshire19.5019.5018.0019.50New Kexico18.5019.5018.5019.50New York29.3027.958.0029.30North Dakota21.0021.0021.0021.00Ohio22.0022.0022.0022.00Okahoma17.0014.0017.0017.00Oregon24.0024.0024.0024.00Okahoma17.0014.0016.0016.00Oregon24.0024.0024.0024.00Pennsylvania25.9030.8018.9025.	Illinois	19.00	21.50	19.00	19.00
Initial12.0012.0012.0012.0019.00Kansas20.0022.0019.0020.00Kentucky16.4013.4015.0016.40Louisiana20.0020.0016.0020.00Maine19.0020.0018.0019.00Maryland23.5024.2523.5023.50Massachusetts21.0021.008.1021.00Michigan19.0015.0015.0019.00Mississippi18.4018.4017.0018.40Missouri17.0017.0017.0017.00Montana27.0027.750.0027.00Nebraska22.8022.8022.8022.80Nevada24.7527.7522.0024.75New Hampshire19.5019.5018.0019.50New Jersey10.5013.505.2510.50New York29.3027.958.0029.30North Carolina21.0021.0021.0021.00Ohio22.0022.0022.0022.0022.00Oklahoma17.0014.0017.0017.00Pennsylvania25.9030.8018.9025.90Rhode Island29.0029.0029.0029.00South Carolina16.0016.0016.0016.00South Dakota22.0022.0022.0020.00Utah24.5024.5024.5024.50Utah24	Indiana	15.00	16.00	0.00	15.00
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       15.00       19.00         Minnesota       20.00       20.00       15.00       20.00         Missisippi       18.40       18.40       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       28.80         New dat       24.75       27.75       22.00       24.75         New Hampshire       19.50       18.50       19.50       18.50         New York       29.30       27.95       8.00       29.30         North Carolina       21.00       21.00       21.00       21.00	lowa	20.00	22 50	20.00	19.00
Name         12.00         12.00         12.00         16.00         16.00           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         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         28.80           New dar         29.30         27.95         8.00         29.30           New Hampshire         19.50         19.50         18.50         19.50           New Maxico         18.50         19.50         0.00<	Kansas	20.00	22.00	19.00	20.00
Normovie       10.40       10.40       10.40         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         Minnesota       20.00       20.00       15.00       20.00         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 Mexico       18.50       19.50       0.00       18.50         New York       29.30       27.95       8.00       29.30         North Dakota       21.00       21.00       21.00       21.00         Ohio       22.00       22.00       20.00       22.00       20.00 <td>Kentucky</td> <td>16.40</td> <td>13 40</td> <td>15.00</td> <td>16 40</td>	Kentucky	16.40	13 40	15.00	16 40
Anine       19.00       20.00       18.00       19.00         Mairle       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       18.40       17.00       17.00         Missouri       17.00       17.00       17.00       17.00         Mointana       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 Mexico       18.50       19.50       0.00       18.50         New York       29.30       27.95       8.00       29.30         North Dakota       21.00       21.00       21.00       21.00         Ohio       22.00       22.00       22.00       22.00       20.00         North Carolina       17.00       17.00       17.00	Louisiana	20.00	20.00	16.00	20.00
Maryland23.5024.2523.5023.50Massachusetts21.0021.008.1021.00Michigan19.0015.0015.0019.00Minnesota20.0020.0015.0020.00Mississippi18.4018.4017.0018.40Missouri17.0017.0017.0017.00Montana27.0027.750.0027.00Nebraska22.8022.8022.8022.80Nevada24.7527.7522.0024.75New Hampshire19.5019.5018.0019.50New Jersey10.5013.505.2510.50New Vork29.3027.958.0029.30North Carolina21.2021.2021.2021.00Ohio22.0022.0022.0022.0022.00Oklahoma17.0014.0017.0017.00Pennsylvania25.9030.8018.9025.90Rhode Island20.0022.0022.0020.00South Carolina16.0016.0016.00South Dakota22.0022.0020.0020.00Tennessee20.0017.0014.0020.00Tennessee20.0017.0014.0020.00Tennessee20.0017.0014.0020.00Vermont20.0017.0014.0024.50Yell17.6017.0014.0016.0016.0016.0016.00 </td <td>Maine</td> <td>19.00</td> <td>20.00</td> <td>18.00</td> <td>19.00</td>	Maine	19.00	20.00	18.00	19.00
Massachusetts       21.00       21.00       8.10       21.00         Massachusetts       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       18.40       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       22.00       24.75         New Hampshire       19.50       18.00       19.50         New Harsey       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         North Dakota       21.00       21.00       21.00       21.00         Ohio       22.00       22.00       22.00       22.00       22.00       22.00	Maryland	23 50	24 25	23 50	23.50
Michigan19.0015.0015.0019.00Minnesota20.0020.0015.0020.00Mississippi18.4018.4017.0018.40Missouri17.0017.0017.0017.00Montana27.0027.750.0027.00Nebraska22.8022.8022.8022.80Nevada24.7527.7522.0024.75New Hampshire19.5019.5018.0019.50New Jersey10.5013.505.2510.50New Mexico18.5019.500.0018.50New York29.3027.958.0029.30North Carolina21.2021.2021.2021.20North Dakota21.0021.0021.0021.00Ohio22.0022.0022.0022.00Okahoma17.0014.0017.0017.00Oregon24.0029.0029.0029.00South Carolina16.0016.0016.00South Carolina16.0016.0016.00South Carolina22.0022.0020.00Tennessee20.0017.0014.0020.00Texas20.0027.0024.5024.50Vermont20.0017.0016.0015.00Vermont20.0017.0010.0020.00Virgining17.5016.0010.0017.50	Massachusetts	21.00	21.00	8 10	21.00
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       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         Oklahoma       17.00       14.00       17.00       17.00       00         Oregon       24.00       24.00       24.00       24.00       29.00       29.00 <t< td=""><td>Michigan</td><td>19.00</td><td>15.00</td><td>15.00</td><td>19.00</td></t<>	Michigan	19.00	15.00	15.00	19.00
Mississippi       18.40       18.40       17.00       17.00         Mississippi       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       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         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       20.	Minnesota	20.00	20.00	15.00	20.00
Missouri       17.00       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       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         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       20.00 <td>Mississippi</td> <td>18.40</td> <td>18.40</td> <td>17.00</td> <td>18.40</td>	Mississippi	18.40	18.40	17.00	18.40
Montana         27.00         27.75         0.00         27.00           Nebraska         22.80         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 Hampshire         19.50         13.50         5.25         10.50           New Jersey         10.50         13.50         5.25         10.50           New Mexico         18.50         19.50         0.00         18.50           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         22.00           Oklahoma         17.00         14.00         17.00         17.00         0         0           Oregon         24.00         24.00         24.00         24.00         29.00         29.00         29.00         29.00           South Carolina         16.00         16.00         16.00         16.00         16.00         16.00         16.00 <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
Nebraska         22.80         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           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           Texas         20.00         17.00	Montana	27.00	27.75	0.00	27.00
Nevada         24.75         27.75         22.00         24.75           New Hampshire         19.50         19.50         18.00         19.50           New Hampshire         19.50         13.50         5.25         10.50           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           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         20.00         20.	Nebraska	22.80	22.80	22.80	22.80
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         21.00           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         20.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Wash         24.50         24.50         24.50 <td>Nevada</td> <td>24.75</td> <td>27.75</td> <td>22.00</td> <td>24.75</td>	Nevada	24.75	27.75	22.00	24.75
New Jersey10.5013.505.2510.50New Mexico18.5019.500.0018.50New York29.3027.958.0029.30North Carolina21.2021.2021.2021.20North Dakota21.0021.0021.0021.00Ohio22.0022.0022.0022.00Oklahoma17.0014.0017.0017.00Oregon24.0024.0024.0024.00Pennsylvania25.9030.8018.9025.90Rhode Island29.0029.0029.0029.00South Carolina16.0016.0016.0016.00Texas20.0017.0014.0020.00Utah24.5024.5024.5024.50Vermont20.0017.0015.0020.00	New Hampshire	19.50	19.50	18.00	19.50
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           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         20.00         20.00         20.00           Texas         20.00         17.00         14.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00	New Jersey	10.50	13.50	5.25	10.50
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         20.00         20.00         20.00           Texas         20.00         17.00         14.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         15.00         20.00	New Mexico	18.50	19.50	0.00	18.50
North Carolina21.2021.2021.2021.20North Dakota21.0021.0021.0021.00Ohio22.0022.0022.0022.00Oklahoma17.0014.0017.0017.00Oregon24.0024.0024.0024.00Pennsylvania25.9030.8018.9025.90Rhode Island29.0029.0029.0029.00South Carolina16.0016.0016.0016.00Tennessee20.0017.0014.0020.00Texas20.0020.0015.0020.00Utah24.5024.5024.5024.50Vermont20.0017.0010.0017.50	New York	29.30	27.95	8.00	29.30
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         20.00         20.00         20.00           Texas         20.00         17.00         14.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         15.00         20.00	North Carolina	21.20	21.20	21.20	21.20
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         20.00         20.00         20.00           Texas         20.00         17.00         14.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         15.00         20.00	North Dakota	21.00	21.00	21.00	21.00
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           Texas         20.00         17.00         14.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         15.00         20.00	Ohio	22.00	22.00	22.00	22.00
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           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           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         15.00         20.00	Oklahoma	17.00	14.00	17.00	17.00
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           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         10.00         17.00	Oregon	24.00	24.00	24.00	24.00
Rhode Island         29.00         29.00         29.00         29.00           South Carolina         16.00         16.00         16.00         16.00           South Carolina         22.00         22.00         20.00         20.00           South Dakota         22.00         20.00         20.00         20.00           Tennessee         20.00         17.00         14.00         20.00           Utah         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         10.00         17.50	Pennsylvania	25.90	30.80	18.90	25.90
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	Rhode Island	29.00	29.00	29.00	29.00
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         24.50           Vermont         20.00         17.00         0.00         20.00	South Carolina	16.00	16.00	16.00	16.00
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         10.00         17.00	South Dakota	22.00	22.00	20.00	20.00
Texas         20.00         17.00         14.00         20.00           Utah         20.00         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         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	Tavas	20.00	20.00	15.00	20.00
Vermont         24.50         24.50         24.50         24.50           Vermont         20.00         17.00         0.00         20.00		20.00	20.00	15.00	20.00
Vermont 20.00 17.00 0.00 20.00	Vermeent	24.30	24.50	24.50	24.50
	Virginia	17 50	16.00	10.00	17 50
Washington 23.00 22.00 0.00 17.50	Washington	17.50	22.00	0.00	17.50
West Virginia 25.35 25.25 25.25 25.25	West Virginia	25.00	25.00	25.00	25.00
Wisconsin 25.40 25.40 25.40 25.40	Wisconsin	25.55	25.35	20.00	25.35
Wyoming $1/00$ $1/00$ $0.00$ $1/00$	Wyoming	23.40	1100	23.40	23.40
T4.00         14.00         0.00         14.00           Federal tax         18.40         24.40         13.60         13.00	Federal tax	18 40	24 40	13.60	13.00

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

<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

				Petrole	vm						Electrical	
		Distillate									system	
	Natural	fuel		Motor	Residual					Net	energy	
State	gas'	(diesel)	Jet fuel	gasoline <sup>2</sup>	fuel	Other	Total	Ethanol <sup>4</sup>	Electricity	energy	losses°	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
Michiaan	23.3	132.7	51.7	624.5	0.3	12.2	821.4	3.4	S	844.7	S	844.8
Minnesota	22.5	93.4	71.4	306.5	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
Missouri	6.8	172.0	72.3	364.6	S	6.6	615.6	1.4	0.1	622.5	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	27	191.5	21	0.0	194.4	0.0	194.4
Nevada	0.9	36.9	47 4	1117	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 Jersev	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	12	91	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	12	72.5	0.0	0.0	82.4	0.0	82.4
Ohio	18.5	222.5	03.3	623.0	0.0	11.1	950.2	19.6	0.0	968.9	0.3	969.2
Oklahoma	24.5	1117	37.3	223.2	0.1	5.7	378.0	0.0	0.0	402.5	0.0	/02.5
Oregon	10.9	70.2	36.5	188.0	18.0	13	317.0	1 1	0.0	328.0	0.0	328.2
Pennsylvania	37 3	197.6	90.4	607.0	37.8	9.7	942.6	1.1	13	981 3	2.6	083.0
Phodo Island	03	177.0	<i>70.4</i>	40.8	۵ <i>.</i> ۱۵	0.5	42.0 65.6	0.0	1.5	65.0	2.0	65.0
South Carolina	37	9.5	8.7	273.0	28	2.5	372.7	0.0	0.0	376.4	0.0	376 /
South Dakota	6.1	21.1	0.7	51.5	2.0	13	78.2	1.8	0.0	8/3	0.0	8/3
Terressee	25.0	121.1	47.0	240.2	0.0	E 1	F64 0	0.0	0.0 E	E00 1	0.0 E	500 1
Tennessee	23.7	131.7	07.0	300.3	0.0	3.1	504.2	0.0	3	590.1	3	390.1
lexas	/3.0	4/9.2	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./	208.2	0.9	S	211.1	S	211.1
Vermont	5	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	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

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

<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.

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

**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.

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

	-	End-use sectors <sup>2</sup>							
	Total energy	Transportation		Residen	tial	Comme	rcial	Indust	rial
State	consumed <sup>1</sup>	Number	Percent	Number	Percent	Number	Percent	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>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.

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

**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.



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

**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: Tennessee Transportation Energy Consumption

**KEY:** Btu = 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.

		Petroleum		All energy 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	<u>1</u> 19.8	249.6	
United States	272,691	25,511.8	93.6	26,324.6	96.5	

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

<sup>1</sup>Calculated by the Bureau of Transportation Statistics.

**KEY:** Btu = 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.

		Gasa	oline		Specia	fuel		
	Highwo	ay use	Nonhighway use		(mainly diesel)		Total use	
		United		United		United		United
Vehicle ownership	Tennessee	States	Tennessee	States	Tennessee	States	Tennessee	States
Private and commercial	2,823	126,735	57	2,876	891	33,377	3,771	162,988
Public use	45	2,149	2	96	Ν	N	47	2,245
Total	2,868	128,884	59	2,972	891	33,377	3,818	165,232

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

<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: Tennessee Air Quality Nonattainment Areas for Carbon Monoxide (CO)

		Nonattainment in	<b>Redesignation to</b>		Part or whole	Population
County	Area	year	attainment	Classification	county	(2000)
Shelby	Memphis	92 93 94	9/26/1994	Moderate <= 12.7ppm	Whole	897,472

**KEY:** NA = not applicable; ppm = parts per million.

**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 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.

County	Area	Nonattainment in year	Redesignation to attainment	Classification	Part or whole county	Population (2000)
Davidson	Nashville	95 96	10/30/96	Moderate	Whole	569,891
Rutherford	Nashville	95 96	10/30/96	Moderate	Whole	182,023
Sumner	Nashville	95 96	10/30/96	Moderate	Whole	130,449
Williamson	Nashville	95 96	10/30/96	Moderate	Whole	126,638
Wilson	Nashville	95 96	10/30/96	Moderate	Whole	88,809

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

**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.

	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	212,010
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
lowa	7 857	3 2 1 5 6 4 0
Kansas	2 103	2 082 034
Kentucky	8 2 4 9	5 306 199
Louisiana	12 077	5 974 212
Maine	561	292 861
Manland	00 587	153 227 023
Massachusetts	10 250	5 259 055
Michigan	67 071	60 139 968
Minnesota	101 811	60,107,700
Mississinni	101,011	02,074,170
Missouri	6 1 1 3	4 179 360
Montana	0,115	4,179,300
Nohraska	5 060	4 026 138
Nevada	17.847	10 855 220
New Hampshire	6 302	5 785 519
New Jersey	1/2 055	210 /29 029
New Mexico	21 196	9 306 885
New York	110 608	116 448 616
North Carolina	110,070	24 702 615
North Dakota	-3,777	24,702,015
Ohio	138 107	68 064 386
Oklahoma	13 186	1 229 909
Oregon	72 552	4,227,707
Poppsylvania	83 526	88 250 488
Rhode Island	03,320	00,237,400
South Carolina	2 665	1 713 620
South Dakota	2,005	1,713,027
Toppossoo	20 016	20 574 450
Tennessee	20,040	20,374,450
Texas	55,310	39,035,228
Utah	70,260	24,841,367
Vermont	1,004	356,344
Virginia	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

#### Table 7-7: Highway Noise Barriers: 1999

<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 oneweek 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, 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 longterm), 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 tractorsemitrailer 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 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

# 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

# I Glossary

**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.



Notes: Data in this map are derived from federal data sources, primarily the U.S. Department of Transportation, U.S. Geological Survey, and the Army Corps of Engineera. Displayed data may not include all state and local transportation or other facilities. Airports depicted are those reporting 100,000 or more explanements in 2000. Pipelines and transit facilities are not shown.





**Bureau of Transportation Statistics**