## Ohio

# Transportation Profile



### Acknowledgments

#### U.S. Department of Transportation

Norman Y. Mineta Secretary

Michael P. Jackson Deputy Secretary

### Bureau of Transportation Statistics

Rick Kowalewski

Acting Director

William J. Chang
Associate Director for
Information Technology

John V. Wells *Chief Economist* 

Wendell Fletcher Assistant Director for Transportation Analysis

#### **Project Manager**

Ron Duych

#### **Major Contributors**

Martha Courtney Mike Barry Derald Dudley Torrance Gloss Matt Sheppard

### Data Collection and Production—Battelle

William Mallett
Bo Bergman
Mary Field
Leonard Hughes
David Kall
Melody Liu
Michael Sanders
Laurie Scovell

#### Other Contributors

Alpha Glass Steve Lewis Chip Moore Lorisa Smith

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### Ohio Fast Facts 2000

#### **Transportation System Extent**

All public roads: 116,964 miles

Interstate: 1,572 miles Road bridges: 27,901

Class I railroad trackage: 4,526 miles

Inland waterways: 444 miles

Public use airports: 163 (15 certificated for

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

#### **Vehicles and Conveyances**

Automobiles registered: 6.7 million

Light trucks registered: 3.4 million

Heavy trucks registered: 45,000

Buses registered: 38,000

Motorcycles registered: 255,000

Rail transit systems: 1 heavy rail (subway),

1 light rail

Numbered boats: 417,000

#### Geographic

Land area: 40,948 sq. miles (rank: 35)

Percent of land area owned by federal

government: 1.5<sup>2</sup> (rank: 40)

Persons per square mile: 277.3 (rank: 9)

Highest point: Campbell Hill (1,549 ft.)

Lowest point: Ohio River (455 ft.)

#### **Political Subdivisions**

Counties: 88

Municipal governments: 941<sup>3</sup> Congressional districts: 18<sup>4</sup>

#### Demographic

Population: 11,353,140 (rank: 7)

Percent urban population: 74<sup>5</sup> (rank: 17)

#### Socioeconomic

Gross state product: \$362 billion<sup>2</sup> (rank: 7)

Civilian labor force: 5.8 million<sup>2</sup> (rank: 7)

Median household income: \$43,894

(rank: 19)

#### Commuting (percent of workers)

Car, truck, or van—drove alone: 83.6

Car, truck, or van—carpooled: 8.4

Public transportation (including taxi): 2.4

Walked: 2.1

Other means: 0.8

Worked at home: 2.6

#### **State Transportation Department**

Ohio Department of Transportation (ODOT)

1980 West Broad Street

Columbus, OH 43223

(614) 466-7170

http://www.dot.state.oh.us/

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

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

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

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

<sup>&</sup>lt;sup>5</sup>1990

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

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

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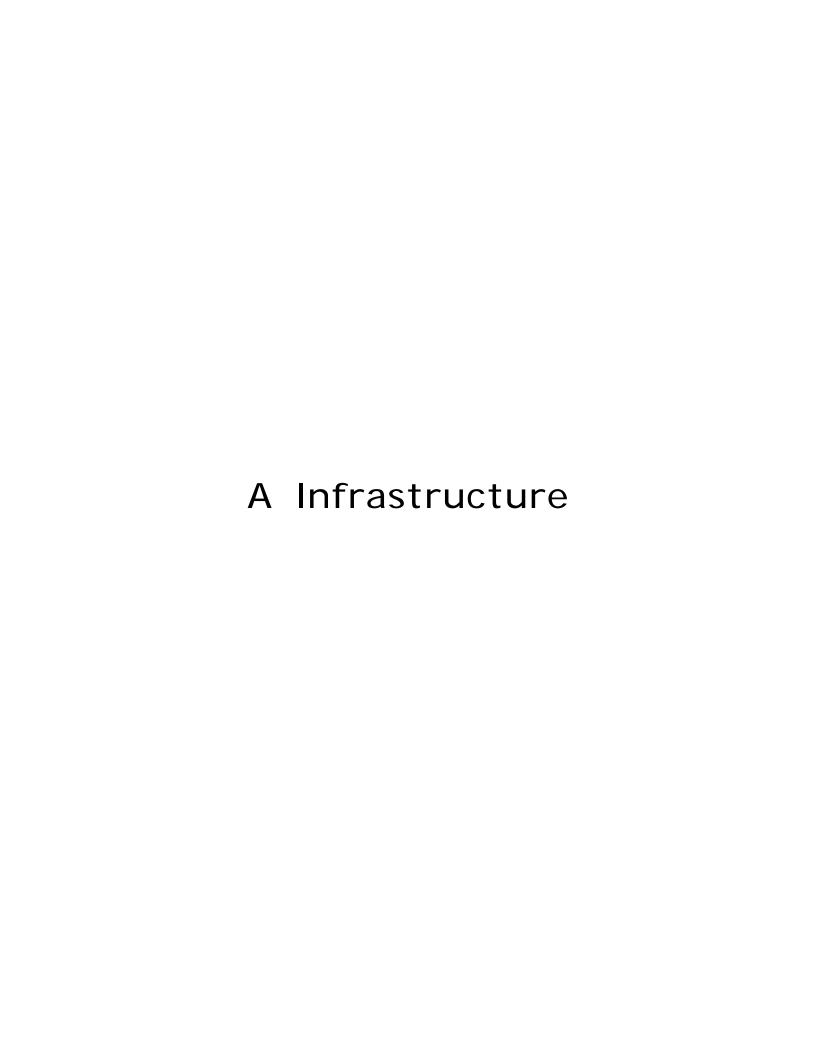


Table 1-1: Ohio Public Road Length, Miles by Functional System

	1995	1996	1997	1998	1999	2000
Total rural and urban	114,563	114,642	114,801	116,221	116,371	116,964
Rural	81,424	81,451	81,704	82,756	82,876	83,419
Interstate	830	830	830	830	830	830
Other principal arterial	2,219	2,216	2,230	2,225	2,221	2,232
Minor arterial	2,833	2,842	2,827	2,831	2,831	2,831
Major arterial	11,852	11,850	11,858	11,877	11,890	11,888
Minor collector	6,766	6,775	6,757	6,744	6,738	6,739
Local	56,924	56,938	57,202	58,249	58,366	58,899
Urban	33,139	33,191	33,097	33,465	33,495	33,545
Interstate	742	743	743	743	743	742
Other freeways and expressways	365	375	380	385	385	392
Other principal arterial	1,985	1,994	1,986	1,979	1,971	1,975
Minor arterial	3,579	3,588	3,568	3,577	3,590	3,590
Collector	3,479	3,557	3,528	3,521	3,474	3,478
Local	22,989	22,934	22,892	23,260	23,332	23,368

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

	National	Other		
	Highway	federal-aid	Nonfederal-	
	System	highway	aid highway	Total
Total	4,345	23,624	88,994	116,963
State highway agency	4,042	14,031	1,216	19,289
County	18	4,698	24,466	29,182
Town, township, municipal	44	4,895	60,210	65,149
Other jurisdiction <sup>1</sup>	241	0	3,000	3,241
Federal agency <sup>2</sup>	0	0	102	102

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

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

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

#### Infrastructure

Table 1-3: Ohio Toll Roads: 2001

Facility	Financing or operating authority	Location	Length in miles	Toll collection direction	Electronic collection system
Interstate Ohio Turnpike	Ohio Turnpike Commission	Pennsylvania state line to junction Interstate 80 and Interstate 76 to Indiana state line	392.2	Both ways	No

Table 1-4: Ohio Toll Bridges and Ferries: 2001

Facility	Financing or operating authority	Location	Length in miles	Toll collection direction	Electronic collection system
Noninterstate					
Parkersburg Memorial Bridge	City of Parkersburg, WV	Belpre, OH (across Ohio River) to Parkersburg, WV	8.0	Both ways	No
Newell-East Liverpool Bridge	Newell Bridge and Roadway Co.	East Liverpool, OH (across Ohio River) to Newell, WV	0.3	Both ways	No
Toll ferries					
Anderson	Anderson Boat Co.	Cincinnati, OH (across Ohio River) to Constance, KY	U	Both ways	No
Challenger	Newman Boat Lines	Sandusky, OH (across Lake Erie) to Kelly's Island, OH	U	Both ways	No
Commuter	Newman Boat Lines	Marblehead, OH (across Lake Erie) to Kelly's Island, OH	U	Both ways	No
Endeavor	Newman Boat Lines	Marblehead, OH (across Lake Erie) to Kelly's Island, OH	U	Both ways	No
Kelly's Islander	Newman Boat Lines	Marblehead, OH (across Lake Erie) to Kelly's Island, OH	U	Both ways	No
Miller Boatline	Miller Boat Line	Catawba Point, OH (across Lake Erie) to South Bass Island, OH	U	Both ways	No
M.V. Pelee Island	Pelee Island Transportation Co.	Sandusky, OH (across Lake Erie) to Kingsville, OH and Leamington, ON	U	Both ways	No
Sisterville	Sisterville City	Fly, OH (across Ohio River) to Sisterville, WV	U	Both ways	No

KEY: U = data are unavailable.

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

Table 1-5: Ohio Road Condition by Functional System -- Rural (Miles)

	1995	1996	1997	1998	1999	2000
Interstate (total reported)	830	830	830	830	829	830
Very good	265	208	218	328	293	361
Good	435	468	477	427	421	368
Fair	97	129	101	55	95	86
Mediocre	33	25	34	20	18	15
Poor	0	0	0	0	2	0
Not reported	0	0	0	0	0	0
Other principal arterial (total reported)	2,219	2,216	2,229	2,226	2,221	2,232
Very good	303	277	222	394	298	373
Good	1,500	1,465	1,522	1,431	1,408	1,397
Fair	379	437	464	383	492	443
Mediocre	33	30	18	14	16	16
Poor	4	7	3	4	7	3
Not reported	0	0	0	0	0	0
Minor arterial (total reported)	2,833	2,842	2,828	2,830	2,829	2,830
Very good	568	290	317	420	171	140
Good	1,594	2,034	1,873	1,841	1,799	1,959
Fair	608	447	570	559	785	701
Mediocre	63	71	39	0	62	30
Poor	0	0	29	10	12	0
Not reported	0	0	0	0	0	0
Major collector (total reported)	0	0	0	0	0	8,942
Very good	Ν	Ν	Ν	Ν	N	715
Good	Ν	Ν	Ν	Ν	N	5,302
Fair	Ν	Ν	Ν	N	N	2,762
Mediocre	Ν	Ν	Ν	N	N	106
Poor	Ν	Ν	Ν	N	N	57
Not reported	N	Ν	Ν	N	N	N

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

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

■ Very good ■ Good □Fair ■ Poor Percent 70 60 50 40 30 20 10 0 Other principal arterial Minor arterial Major collector

Figure 1-1: Rural Road Conditions in Ohio: 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.

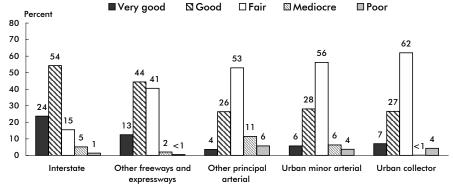
Table 1-6: Ohio Road Condition by Functional System -- Urban (Miles)

	1995	1996	1997	1998	1999	2000
Interstate (total reported)	742	743	743	743	742	742
Very good	135	98	150	195	124	176
Good	359	365	387	392	406	403
Fair	160	189	146	105	142	115
Mediocre	69	72	51	46	54	38
Poor	19	19	9	5	16	10
Not reported	0	0	0	0	0	0
Other freeways and expressways (total reported)	365	375	380	385	385	392
Very good	28	28	19	41	33	49
Good	140	177	158	153	158	174
Fair	181	153	186	170	173	159
Mediocre	12	13	14	16	18	8
Poor	4	4	3	5	3	2
Not reported	0	0	0	0	0	0
Other principal arterial (total reported)	1,985	1,994	1,986	1,979	1,972	1,975
Very good	64	70	33	56	56	70
Good	475	524	472	509	437	521
Fair	1,153	1,046	1,084	1,043	1,102	1,046
Mediocre	189	222	261	231	249	225
Poor	104	132	136	140	128	113
Not reported	0	0	0	0	0	0
Urban minor arterial (total reported)	N	N	N	N	N	2,190
Very good	Ν	Ν	Ν	Ν	Ν	125
Good	Ν	N	Ν	Ν	Ν	615
Fair	Ν	Ν	Ν	Ν	Ν	1,231
Mediocre	Ν	Ν	Ν	Ν	Ν	138
Poor	Ν	Ν	Ν	Ν	Ν	81
Not reported	N	N	Ν	Ν	Ν	Ν
Urban collector (total reported)	N	N	N	N	N	967
Very good	N	Ν	N	N	N	68
Good	N	N	N	N	N	257
Fair	Ν	N	Ν	Ν	Ν	600
Mediocre	N	N	N	N	N	1
Poor	Ν	N	Ν	Ν	Ν	41
Not reported	Ν	Ν	N	Ν	Ν	Ν

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 Ohio: 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.

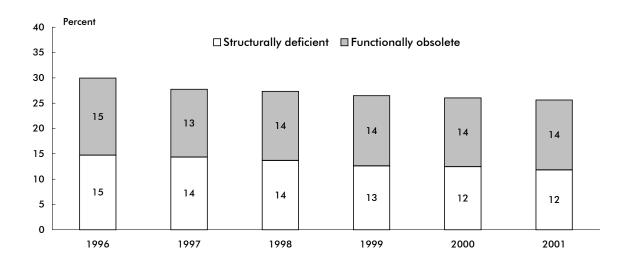
Table 1-7: Highway Bridge Condition: 2001

		Structurally	Functionally		
	All bridges	deficient	obsolete	Total o	f both
State	(number)	(number)	(number)	(number)	(percent)
Alabama	15,641	2,677	2,245	4,922	31.5
Alaska	1,433	169	243	412	28.8
Arizona	6,918	194	541	735	10.6
Arkansas	12,434	1,479	1,996	3,475	27.9
California	23,770	2,636	4,204	6,840	28.8
Colorado	8,082	596	847	1,443	17.9
Connecticut	4,171	362	943	1,305	31.3
Delaware	829	47	82	129	15.6
District of Columbia	243	25	136	161	66.3
Florida	11,303	300	1,814	2,114	18.7
Georgia	14,394	1,578	1,924	3,502	24.3
Hawaii	1,071	193	344	537	50.1
Idaho	4,069	320	436	756	18.6
Illinois	25,529	2,725	2,099	4,824	18.9
Indiana	18,067	2,257	2,161	4,418	24.5
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	2,657	19.7
Wyoming	3,076	389	253	642	20.9
United States	590,066	83,630	81,469	165,099	28.0
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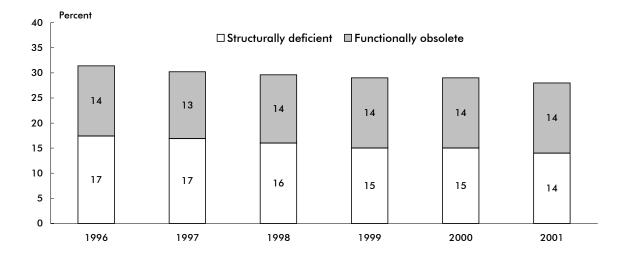
**SOURCE**: U.S. Department of Transportation, Federal Highway Administration, *National Bridge Inventory*: Deficient Bridges by State and Highway System, Washington, DC: 2001, available at http://www.fhwa.dot.gov/bridge/britab.htm as of Jan. 31, 2002.

Figure 1-3: Highway Bridge Condition

#### Ohio



#### **United States**



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

Table 1-8: Characteristics of Directly Operated Motor Bus and Trolley Bus Transit in Ohio: 2000

	Dire	Directional route-miles		
	Exclusive	Controlled	Mixed	
Transit agency	right-of-way	right-of-way	right-of-way	
Motor bus				
Campus Bus Service	0.0	0.0	206.2	
Central Ohio Transit Authority	0.0	0.0	957.6	
Greater Cleveland Regional Transit Authority	0.0	0.0	1,650.9	
LAKETRAN	0.0	0.0	416.0	
Metro Regional Transportation Authority	0.0	0.0	411.1	
Miami Valley Regional Transit Authority	0.0	0.0	1,008.7	
Mid-Ohio Valley Transit Authority <sup>1</sup>	0.0	0.0	87.2	
Middletown Transit System	0.0	0.0	56.2	
Ohio Valley Regional Transportation Authority <sup>1</sup>	0.0	0.0	131.9	
Portage Area Regional Transit Authority	0.0	0.0	169.0	
Southwest Ohio Regional Transit Authority	0.1	0.0	1,281.0	
Springfield County Area Transportation	0.0	0.0	99.3	
Stark Area Regional Transit Authority	0.0	0.0	297.5	
Transit Authority of Northern Kentucky <sup>2</sup>	0.0	0.0	427.2	
Tri-State Transit Authority <sup>3</sup>	0.0	0.0	257.0	
Toledo Area Regional Transit Authority	0.0	1.0	708.5	
Western Reserve Transit Authority	0.0	0.0	334.3	
Total	0.1	1.0	8,499.6	
Trolley bus				
Miami Valley Regional Transit Authority	0.0	0.0	124.0	

<sup>&</sup>lt;sup>1</sup>Parts of the system detailed here also serve West Virginia

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

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

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

<sup>&</sup>lt;sup>2</sup>Parts of the system detailed here also serve Kentucky.

<sup>&</sup>lt;sup>3</sup>Parts of the system detailed here aslo serve Kentucky and West Virginia.

#### Infrastructure

Table 1-9: Characteristics of Rail Transit in Ohio: 2000

Transit agency	Directional route-miles	Miles of track	Number of crossings	Number of stations	Number of ADA accessible stations
Heavy rail Greater Cleveland Regional Transit Authority	38.2	41.9	0	18	8
<b>Light rail</b> Greater Cleveland Regional Transit Authority	30.8	33.0	22	34	7

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

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

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

Table 1-10: Civil and Joint-Use Airports, Heliports, STOLports, and Seaplane Bases in Ohio: 2002<sup>1</sup>

				Seaplane	
Ownership and usage	Airports	Heliports	STOLports	bases	Total
Publicly owned	105	26	0	1	132
Open to public	103	4	0	1	108
Closed to public	2	22	0	0	24
Privately owned	421	174	4	1	600
Open to public	60	6	0	0	66
Closed to public	361	168	4	1	534
Total	526	200	4	2	732

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

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

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

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

Table 1-11: Ohio Commercial Service Airport Enplanements: 2000 (For airports with scheduled service and 2,500 or more passengers enplaned)

Airport	Large certificated air carriers	Commuter and small certificated air carriers	Air taxi commuter operators	Foreign air carriers	Total enplanements
Cincinnati-Northern Kentucky International <sup>1</sup>	9,968,723	1,181,423	357	73,463	11,223,966
Cleveland-Hopkins International	6,154,662	95,875	1,225	17,754	6,269,516
Port Columbus International	3,106,053	328,553	283	6,397	3,441,286
James M. Cox Dayton International	1,033,201	130,697	134	0	1,164,032
Akron-Canton Regional	287,719	104,430	1,127	0	393,276
Toledo Express	237,617	37,366	227	0	275,210
Youngstown-Warren Regional	18,404	13,021	50	0	31,475
Put In Bay	0	0	11,504	0	11,504
Carl R. Keller Field	0	0	10,586	0	10,586
Griffing Sandusky	0	0	10,362	0	10,362

<sup>&</sup>lt;sup>1</sup>Airport serves Cincinnati metropolitan area but is located in Kentucky.

**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 certificated carriers.

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

Table 1-12: Freight Railroads in Ohio and the United States: 2000

Numl		nber		Miles operated <sup>2</sup>			
	of railroads		'-		Ohio		
Type of railroad	United States	Ohio	United States	Excluding trackage rights	Including trackage rights	Percent of U.S. total	
Total	562	33	172,101	5,383	6,494	3.8	
Class I	8	3	120,597	3,657	4,526	3.8	
Regional	35	3	20,978	804	929	4.4	
Local	304	10	21,512	567	648	3.0	
Switching and terminal	213	17	7,425	355	391	5.3	
Canadian <sup>1</sup>	2	0	1,589	0	0	0.0	

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

#### NOTES:

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

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

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

Table 1-13: Freight Railroads Operating in Ohio by Class: 2000

	Miles operated in
Railroad	Ohio¹
Class I railroads	4,526
CSX Transportation, Inc.	2,283
Grand Trunk Western Railroad, Inc.	, 9
Norfolk Southern Railway Company	2,234
Regional railroads	929
Bessemer and Lake Erie Railroad Company	3
The Indiana & Ohio Railway Company	368
Wheeling & Lake Erie Railway Company	558
Local railroads	648
Ann Arbor Railroad Company	4
Ashland Railway, Inc.	60
Central Railroad Company of Indiana	21
The Columbus and Ohio River Railroad Company	160
Indiana and Ohio Central Railroad, Inc.	168
Indiana Northeastern Railroad Company	7
Ohio and Pennsylvania Railroad Company	3
Ohio Central Railroad, Inc.	94
R.J. Corman Railway Company - Cleveland Line	49
R.J. Corman Railway Company - Western Ohio Line	82
Switching and terminal railroads	391
Akron Barberton Cluster Railway Company	68
Ashtabula, Carson, and Jefferson Railroad, Inc.	6
Camp Chase Industrial Railroad Corporation	14
Cuyahoga Valley Railway Company	19
Flats Industrial Railroad Company	3
Great Miami and Scioto Railway Company	70
Lake Terminal Railroad Company	1
The Mahoning Valley Railway Company	4
Maumee and Western Railroad Corporation	49
Newburgh and South Shore Railroad, Ltd.	3
Nimishillen and Tuscarawas Railway Company	24
Northern Ohio and Western Railway	25
Ohi-Rail Corporation	48
River Terminal Railway	35
Warren and Trumbull Railroad Company	6
Youngstown and Austintown Railroad, Inc.	4
Youngstown Belt Railroad Company	12

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

**NOTE:** For definition of railroad types see previous table.

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

Washington, DC: 2002, available at

http://www.aar.org/AboutTheIndustry/StateInformation.asp as of Mar. 19, 2002, and Public Utilities Commission of Ohio, available at

Table 1-14: Ohio Water Ports Ranked in Top 150 U.S. Ports by Tonnage: 2000

		Millions of short tons		
Port	U.S. rank	Total	Foreign	Domestic
Huntington, KY-WV-OH	7	76.9	0.0	76.9
Cleveland	44	14.4	2.5	11.9
Cincinnati	45	14.3	0.0	14.3
Lorain	46	14.2	0.3	13.9
Toledo	49	13.3	7.4	5.9
Ashtabula	51	12.3	7.2	5.1
Conneaut	56	10.6	5.1	5.5
Marblehead	91	3.7	0.5	3.2
Sandusky	93	3.6	2.9	0.7
Fairport Harbor	112	2.5	0.0	2.5
Huron	143	1.3	0.1	1.2

**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 1-15: 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

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

					F	atality rate po	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 Minnesota	1,382 625	6,925 2,941	8,619 4,773	97,792 52,601	20.0 21.3	16.0 13.1	1.4 1.2
Mississippi	949	2,941	2,321	35,536	47.3	40.9	2.7
Mississippi	1,157	3,856	2,321 4,641	67,083	47.3 30.0	24.9	1.7
Montana	237	679	1,053	9,882	34.9	22.5	2.4
Nebraska	276	1,195	1,640	18,081	23.1	16.8	1.5
Nevada	323	1,371	1,245	17,639	23.6	25.9	1.8
New Hampshire	126	930	1,100	12,021	13.6	11.5	1.0
New Jersey	731	5,655	6,502	67,446	12.9	11.2	1.1
New Mexico	430	1,239	1,557	22,760	34.7	27.6	1.9
New York	1,458	10,871	10,342	129,057	13.4	14.1	1.1
North Carolina	1,472	5,690	6,305	89,504	25.9	23.3	1.6
North Dakota	86	459	711	7,217	18.7	12.1	1.2
Ohio	1,351	8,206	10,722	105,898	16.5	12.6	1.3
Oklahoma	652	2,295	3,072	43,355	28.4	21.2	1.5
Oregon	451	2,495	3,091	35,010	18.1	14.6	1.3
Pennsylvania	1,520	8,229	9,476	102,337	18.5	16.0	1.5
Rhode Island	80	654	7,476	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

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

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

	Restraint used		No restraint used		Restraint use unknown		Total occupants killed	
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	11 <i>7</i>	100.0
Illinois	234	34.3	311	45.6	137	20.1	682	100.0
Indiana	203	43.0	222	47.0	47	10.0	472	100.0
lowa	107	41.6	98	38.1	52	20.2	257	100.0
Kansas	77	33.2	127	54.7	28	12.1	232	100.0
Kentucky	156	36.3	269	62.6	5	1.2	430	100.0
Louisiana	127	30.1	232	55.0	63	14.9	422	100.0
Maine	37	36.6	58	57.4	6	5.9	101	100.0
Maryland	167	55.3	11 <i>7</i>	38.7	18	6.0	302	100.0
Massachusetts	63	25.9	128	52.7	52	21.4	243	100.0
Michigan	364	51.3	260	36.6	86	12.1	710	100.0
Minnesota	129	37.5	174	50.6	41	11.9	344	100.0
Mississippi	144	28.3	354	69.5	11	2.2	509	100.0
Missouri	198	33.4	326	55.0	69	11.6	593	100.0
Montana	38	37.3	56	54.9	8	7.8	102	100.0
Nebraska	35	27.1	76	58.9	18	14.0	129	100.0
Nevada	52	38.2	81	59.6	3	2.2	136	100.0
New Hampshire	13	21.0	43	69.4	6	9.7	62	100.0
New Jersey	161	42.4	197	51.8	22	5.8	380	100.0
New Mexico	72	41.9	90	52.3	10	5.8	172	100.0
New York	360	50.8	290	40.9	59	8.3	709	100.0
North Carolina	369	45.0	354	43.2	97	11.8	820	100.0
North Dakota	8	19.0	33	78.6	1	2.4	42	100.0
Ohio	319	41.5	396	51.6	53	6.9	768	100.0
Oklahoma	128	40.4	187	59.0	2	0.6	317	100.0
Oregon	147	67.1	60	27.4	12	5.5	219	100.0
Pennsylvania	265	31.7	443	53.1	127	15.2	835	100.0
Rhode Island	8	18.6	33	76.7	2	4.7	43	100.0
South Carolina	158	38.3	246	59.7	8	1.9	412	100.0
South Dakota	11	15.3	58	80.6	3	4.2	72	100.0
Tennessee	207	28.6	479	66.1	39	5.4	725	100.0
Texas	914	54.7	723	43.2	35	2.1	1,672	100.0
Utah	66	39.3	97	57.7	5	3.0	168	100.0
Vermont	23	57.5	15	37.5	2	5.0	40	100.0
Virginia	199	40.4	264	53.7	29	5.9	492	100.0
Washington	153	44.5	185	53.8	6	1.7	344	100.0
West Virginia	71	31.1	151	66.2	6	2.6	228	100.0
Wisconsin	161	37.3	231	53.5	40	9.3	432	100.0
Wyoming	23	46.0	27	54.0	0	0.0	50	100.0
United States	8,472	41.3	10,229	49.9	1,791	8.7	20,492	100.0

**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.

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

State	Effective <sup>1</sup>	Enforcement <sup>2</sup>	Fine	Seats	Vehicles exempted <sup>3</sup>
Alabama	7/18/1992	Primary	\$25	Front	Designed for more than 10 passengers
Alaska	9/12/1990	Secondary	\$15	All	School bus
Arizona	1/1/1991	Secondary	\$10	Front	Designed for more than 10 passengers; model year before 1972
Arkansas	7/15/1991	Secondary	\$25 <sup>4</sup>	Front	School bus, church bus, public bus
California	1/1/1986	Primary	\$20 <sup>5</sup>	All	None
Colorado	7/1/1987	Secondary	\$15	Front	Passenger bus, school bus
Connecticut	1/1/1986	Primary	\$15	Front	Truck or bus over 15,000 lbs.
Delaware	1/1/1992	Secondary	\$20	Front	None
District of Columbia	12/12/1985	Primary	\$50 <sup>6</sup>	All	Seating more than 8 people
Florida	7/1/1986	Secondary	\$30	Front	School bus, public bus, truck over 5,000 lbs.
Georgia	9/1/1988	Primary	\$15	Front	Designed for more than 10 passengers, pickup
Hawaii	2/16/1985	Primary	\$45	Front	Bus or school bus over 10,000 lbs.
Idaho	7/1/1986	Secondary	\$ <del>4</del> 5	Front	Over 8,000 lbs.
Illinois	7/1/1985	Secondary	\$25	Front	None
Indiana	7/1/1987	Primary	\$25 \$25	Front	Truck, tractor, RV
lowa	7/1/1986	Primary	\$23 \$10	Front	None
		,			Designed for more than 10 people, truck over
Kansas	7/1/1986	Secondary	\$10	Front	12,000 lbs.
Kentucky	7/13/1994	Secondary	\$25	All	Designed for more than 10 people
Louisiana	7/1/1986	Primary	\$25 <sup>7</sup>	Front	Manufactured before 1/1/81
Maine	12/27/1995	Secondary	\$50	All	None
Maryland	7/1/1986	Primary	\$25	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 than 10 people, truck over 12,000 lbs.
Montana	10/1/1987	Secondary	\$20	All	None
Nebraska	1/1/1993	Secondary	\$25	Front	Manufactured before 1973
Nevada	7/1/1987	Secondary	\$25	All	Taxi, bus, school bus
New Hampshire	None	NA	NA	NA	NA
New Jersey	3/1/1985	Secondary	\$20	Front	None
New Mexico	1/1/1986	Primary	\$25	Front	Vehicle over 10,000 lbs.
New York	12/1/1984	Primary	\$50	Front	Bus, school bus, taxi
North Carolina	10/1/1985	Primary	\$25	Front	Designed for more than 10 people
North Dakota	7/14/1994	Secondary	\$20	Front	Designed for more than 10 people
Ohio	5/6/1986	Secondary	\$25	Front	None
Oklahoma	2/1/1987	Primary	\$20	Front	Farm vehicle, truck, truck tractor, RV
Oregon	12/7/1990	Primary	\$75	All	None
Pennsylvania	11/23/1987	Secondary	\$10	Front	Truck over 7,000 lbs.
Rhode Island	6/18/1991	Secondary	\$50	All	None
South Carolina	7/1/1989	Secondary	\$10	All	School bus, public bus
South Dakota	1/1/1995	Secondary	\$20	Front	Bus, school bus
Tennessee	4/21/1986	Secondary	\$50	Front	Vehicle over 8,500 lbs.
Texas	9/1/1985	Primary	\$50	Front	Designed for more than 10 people, truck over 15,000 lbs.
Utah	4/28/1986	Secondary	\$45	Front	Vehicle over 10,000 lbs., school/public bus, taxi
Vermont	1/1/1994	Secondary	\$10	All	Bus, taxi
Virginia	1/1/1988	Secondary	\$25	Front	Designed for more than 10 people, taxi
Washington	6/11/1986	Secondary	\$35	All	Designed for more than 10 people
West Virginia	9/1/1993	Secondary	\$25	Front	Designed for more than 10 people
Wisconsin	12/1/1987	Secondary	\$10	All	Taxi, farm truck
Wyoming	6/8/1989	Secondary	\$25	Front	Designed for more than 10 people, bus
TT yourning	0/0/1707	Secondary	φZЭ	110111	Designed for more mult to people, bus

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

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

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

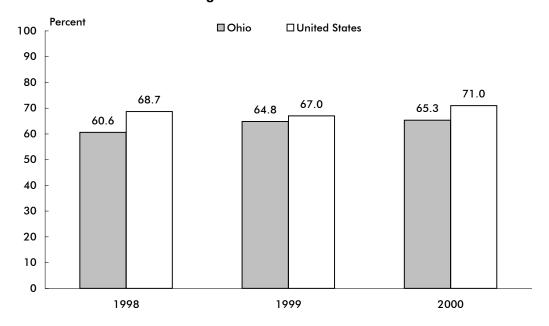
Table 2-4: Shoulder Belt Use: 2000

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

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

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

Figure 2-1: Shoulder Belt Use



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

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

			Pedestrian	_	Pedestrian
			fatalities as	State	fatality rate per
		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	3.2
Georgia	1,541	137	8.9	7,875	1.7
Hawaii	131	29	22.1	1,257	2.3
Idaho	276	6	2.2	1,347	0.4
Illinois	1,418	187	13.2	12,051	1.6
Indiana	875	51	5.8	6,045	0.8
lowa	445	25	5.6	2,900	0.9
Kansas	461	19	4.1	2,668	0.7
Kentucky	820	53	6.5	3,995	1.3
Louisiana	937	100	10.7	4,425	2.3
Maine	169	15	8.9	1,259	1.2
Maryland	588	91	15.5	5,275	1.7
Massachusetts	433	82	18.9	6,199	1.3
Michigan	1,382	170	12.3	9,679	1.8
Minnesota	<sup>'</sup> 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	-		6.6		
	652	43		3,373	1.3
Oregon	451 1 500	50	11.1	3,397	1.5
Pennsylvania	1,520	170	11.2	12,202	1.4
Rhode Island	80	6	7.5	998	0.6
South Carolina	1,065	84	7.9	3,858	2.2
South Dakota	173	13	7.5	777	1.7
Tennessee	1,306	99	7.6	5,657	1.7
Texas	3,769	412	10.9	20,119	2.0
Utah	373	33	8.8	2,207	1.5
Vermont	79	7	8.9	617	1.1
Virginia	930	92	9.9	6,997	1.3
Washington	632	66	10.4	5,858	1.1
West Virginia	410	25	6.1	1,841	1.4
Wisconsin	799	51	6.4	5,326	1.0
Wyoming	152	12	7.9	525	2.3
United States	41,821	4,739	11.3	274,634	1.7

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

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

		1995			2000			
	Fatalities			Fatalities				
	Total	involving		Total	involving high			
State	fatalities	high blood	Percent	fatalities	blood alcohol	Percent		
Alabama	1,113	381	34	995	326	33		
Alaska	87	37	42	103	44	43		
Arizona	1,031	347	34	1,036	354	34		
Arkansas	631	148	23	652	139	21		
California	4,192	1,308	31	3,753	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	873	31	2,999	930	31		
Georgia	1,488	400	27	1,541	438	28		
Hawaii	130	41	32	131	37	28		
Idaho	262	69	27	276	81	29		
Illinois	1,586	551	35	1,418	489	34		
Indiana	960	263	27	875	214	24		
lowa	527	159	30	445	100	22		
Kansas	442	152	34	461	118	26		
Kentucky	849	227	27	820	203	25		
Louisiana	883	353	40	937	352	38		
Maine	187	44	24	169	38	22		
Maryland	671	176	26	588	161	27		
Massachusetts	444	148	33	433	153	35		
Michigan	1.530	483	32	1,382	397	29		
Minnesota	597	215	36	625	207	33		
Mississippi	868	306	35	949	289	30		
Missouri	1,109	450	41	1,157	387	33		
Montana	215	79	37	237	92	39		
Nebraska	254	64	25	276	70	25		
Nevada	313	127	41	323	112	35		
New Hampshire	118	30	25	126	40	31		
New Jersey	773	243	32	731	231	32		
New Mexico	485	202	42	430	159	37		
New York	1,674	405	24	1,458	293	20		
North Carolina	1,448	399	28	1,472	419	28		
North Dakota	74	32	44	86	36	42		
Ohio	1,366	344	25	1,351	411	30		
Oklahoma	669	205	31	652	169	26		
	572	176	31	451	132	29		
Oregon Pennsylvania	1,480	485	33	1,520	511	34		
Rhode Island	69	465 22	33 32	80	31	38		
South Carolina		229		1,065	329	31		
	881 158	63	26 40	1,003	66	38		
South Dakota Tennessee	1,259	420	33	1,306	399	36 31		
			33 44			31 38		
Texas Utah	3,181 326	1,407 69	21	3,769 373	1,450 68	36 18		
	326 106	33	21 31	3/3 79	08 27	18 34		
Vermont			30	79 930		34 28		
Virginia	900	272			257			
Washington	653	248	38	632	217	34		
West Virginia	376	132	35 35	410	149	36		
Wisconsin	745	263	35	799	288	36 24		
Wyoming	170	63	37	152	40	26		
United States	41,798	13,564	32	41,821	12,892	31		

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

Table 2-7: Impaired Driving Laws: 2000

			Lower BAC for youthful	License sanction			
	Administrative per	Illegal per se	DWI offenders	(Mandatory	minimum for a	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	, ,	R-30 days	R-1 yr	,	
Kansas	Y-0.08	0.10	Y-0.02 (<21)	S-30 days	S-1 yr	R-1 yr	
			Y-0.02 (<21)	,		S-1 yr	
Kentucky	A V 0 10	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	N	Y-0.02 (<21)	S-45 days	R-6 mos	R-2 yrs	
Michigan	N	0.10	Y-0.02 (<21)	Nms	R-1 yr	S-5 yrs	
Minnesota	Y-0.10	0.10	Y-0.00 (<21)	R-15 days	R-90 days	R-90 days	
Mississippi	Y-0.10	0.10	Y-0.02 (<21)	S-30 days	S-1 yr	S-3 yrs	
Missouri	Y-0.10	0.10	Y-0.02 (<21)	S-30 days	R-2 yrs	R-3 yrs	
Montana	N	0.10	Y-0.02 (<21)	Nms	R-3 mos	R-3 mos	
Nebraska	Y-0.10	0.10	Y-0.02 (<21)	R-60 days	R-1 yr	R-1 yr	
Nevada	Y-0.10	0.10	Y-0.02 (<21)	R-45 days	R-1 yr	R-1.5 yrs	
New Hampshire	Y-0.08	0.08	Y-0.02 (<21)	R-90 days	R-3 yrs	R-3 yrs	
New Jersey	N	0.10	Y-0.01 (<21)	R-6 mos	R-2 yrs	R-10 yrs	
New Mexico	Y-0.08	0.08	Y-0.02 (<21)	Nms	R-30 days	R-30 days	
New York	Α	0.10	Y-0.02 (<21)	Nms	R-I yr	R-1 yr	
North Carolina	Y-0.08	0.08	Y-0.00 (<21)	Nms	R-2 yrs	R-3 yrs	
North Dakota	Y-0.10	0.10	Y-0.02 (<21)	S-30 days	S-365 days	S-2 yrs	
Ohio	Y-0.10	0.10	Y-0.02 (<21)	S-15 days	•	S-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	0.10	` ,	S-3 mos			
	Y-0.15		Y-0.02 (<21)		S-1 yr	S-2 yrs	
South Carolina		0.10	Y-0.02 (<21)	Nms	S-1 yr	S-4 yrs	
South Dakota	N	0.10	Y-0.02 (<21)	Nms	R-1 yr	R-1 yr	
Tennessee	N	0.10	Y-0.02 (<21)	Nms	R-2 yrs	R-3 yrs	
Texas	Y-0.08	0.08	Y-0.00 (<21)	Nms	Nms	Nms	
Utah	Y-0.08	0.08	Y-0.00 (<21)	S-90 days	R-1 yrs	R-1 yrs	
Vermont	Y-0.08	0.08	Y-0.02 (<21)	S-90 days	S-18 mos	R-2 yrs	
Virginia	Y-0.08	0.08	Y-0.02 (<21)	Nms	R-1 yr	R-3 yrs	
Washington	Y-0.08	0.08	Y-0.02 (<21)	S-30 days	R-1 yr	R-2 yrs	
West Virginia	Y-0.10	0.10	Y-0.02 (<21)	R-30 days	R-1 yr	R-1 yr	
Wisconsin	Y-0.10	0.10	Y-0.02 (<21)	Nms	R-60 days	R-90 days	
Wyoming	Y-0.10	0.10	Y-0.02 (<21)	Nms	S-1 yr	R-3 yrs	

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

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

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

Table 2-8: Maximum Posted Speed Limits by System: 2001 (Speed limit in miles per hour)

	Intersto	ite	Other limited-	Other roads	
State	Rural	Urban	access roads <sup>2</sup>		
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, 110cks. 33	65	65	55	
Connecticut	65	55	65	55	
Delaware	65	55	65	55 55	
District of Columbia	NA NA	55 55	NA NA	25	
Florida	70	65	70	65	
Georgia	70	65	65	65	
Jeorgia Hawaii	55	50	45	45	
daho	75, Trucks: 65	65	45 65	45 65	
	•				
llinois	65, Trucks: 55	55 55	65 5.5	55 55	
ndiana	65, Trucks: 60	55	55	55 55	
owa	65	55	65	55	
(ansas	70	70	70	65	
Kentucky	65	55	55	55	
ouisiana.	70	55	70	65	
Λaine	65	55	55	55	
Λaryland	65	65	65	55	
Nassachusetts	65	65	65	55	
Λichigan	70, Trucks: 55	65	70	55	
Ainnesota	70	65	65	55	
Λississippi	70	70	70	65	
Aissouri	70	60	70	65	
Aontana	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 4.5	55 55	
Pennsylvania	65	55	65	55	
Rhode Island	65	55	55	55	
South Carolina	70 	70	60	55	
outh Dakota	75	65	65	65	
ennessee	70	70	70	55	
exas	70	70	70	70	
Jtah	75	65	55	55	
/ermont	65	55	50	50	
/irginia	65	55	65	55	
Vashington	70, Trucks: 60	60	55	55	
Vest Virginia	70	55	65	55	
Wisconsin	65	65	65	55	
Wyoming	75	60	65	65	

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

**KEY:** NA = not applicable.

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

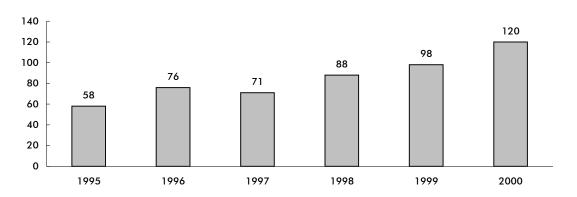
**SOURCE:** Insurance Institute for Highway Safety, Highway Loss Data Institute, available at http://www.hwysafety.org/safety\_facts/state\_laws/speed\_limit\_laws.htm as of Oct. 1, 2001.

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

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

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

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



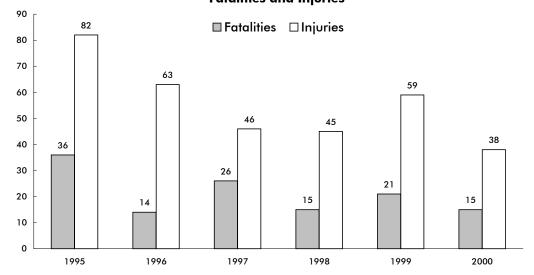
NOTE FOR DATA ON THIS PAGE: "Accidents/incidents" includes all events reportable to the U.S. Department of Transportation, Federal Railroad Administration under applicable regulations. These include: train accidents, reported on Form F 6180.54, comprised of collisions, derailments, and other events involving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

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

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

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

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



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

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

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

	Ol	hio	United States		
	Number	Percent	Number	Percent	
Total	9,633	100.0	256,241	100.0	
Public, motor vehicle	6,412	66.6	155,370	60.6	
Private, motor vehicle	3,191	33.1	98,918	38.6	
Pedestrian	30	0.3	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

	Ol	hio	United	States
	Number	Percent	Number	Percent
Total	6,412	100.0	155,370	100.0
Cross bucks	2,725	42.5	71,468	46.0
Gates	2,160	33.7	34,296	22.1
Flashing lights	1,170	18.2	27,100	17.4
Stop signs	170	2.7	11,630	7.5
Unknown	82	1.3	5,253	3.4
Special warning	74	1.2	3,723	2.4
HWTS, WW, bells	21	0.3	1,417	0.9
Other	10	0.2	483	0.3

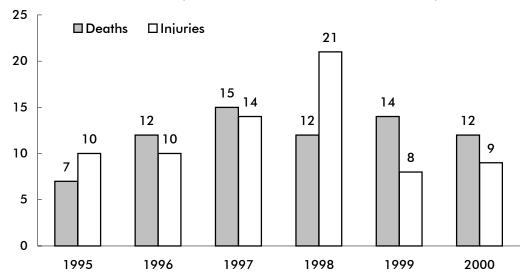
**KEY**: HWTS = highway traffic signals; WW = wigwags.

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

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

Type of person	Fatalities	Injuries
Worker on duty (railroad employee)	0	270
Employee not on duty	0	8
Passenger on train	1	2
Nontrespasser	8	27
Trespasser	19	20
Worker on duty (contractor)	0	8
Contractor (other)	0	4
Worker on duty (volunteer)	0	0
Volunteer (other)	0	0
Nontrespasser (off railroad property)	0	0

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



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

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

Table 2-14: Ohio Transit Safety Data: 2000

		Collision		N	oncollision		Total property	
	Number of		Nυ		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	110	0	63	80	0	82	211	
Ferry boat	0	0	0	0	0	0	0	
Heavy rail	9	1	23	135	0	142	22	
Light rail	14	0	14	49	0	49	56	
Motor bus	719	3	857	1,073	0	1,101	1,440	
Trolley bus	14	0	13	45	0	46	12	
Van pool	0	0	0	0	0	0	0	

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

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

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

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

Table 2-16: Recreational Boating Accidents: 2000

	Ohio	United States
Number of accidents		
Total	198	7,740
Fatal	22	616
Nonfatal injury	65	3,292
Property damage	111	3,832
Number of persons		
Killed	25	701
Injured	86	4,355

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

☐ Fatal accidents □ Fatalities 19 19 

Figure 2-5: Ohio 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

**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.

data do include accidents involving people in the water who are struck by their boat or another boat.

Table 2-17: Alcohol Involvement in Recreational Boating

		1999	2000		
	Ohio	United States	Ohio	United States	
Number of accidents					
Total	16	633	23	696	
Number of persons					
Killed .	6	191	8	215	
Injured	12	476	12	542	

Figure 2-6: Ohio Recreational Boating Accidents
Involving Alcohol



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

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

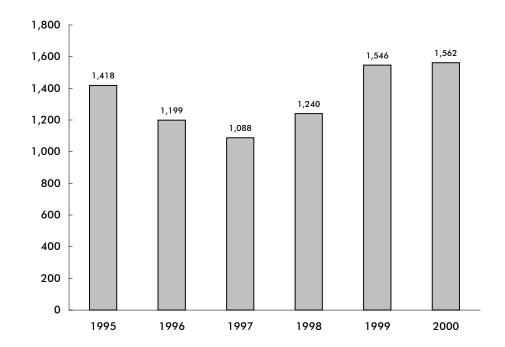
Table 2-18: Hazardous Materials Incidents: 2000 (Not including pipelines)

			Injuries			Damages
	Incidents	Deaths	Total	Major	Minor	(\$ thousands)
Ohio	1,562	2	10	2	8	1,001
<b>United States</b>	17,514	13	246	18	228	72,728

**NOTES**: U.S. total includes U.S. territories or foreign locations. Hazardous material incident locations are often listed as the terminals or sorting centers where they are discovered. Therefore, states with this type of a facility may show a disproportionate number of incidents.

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

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



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

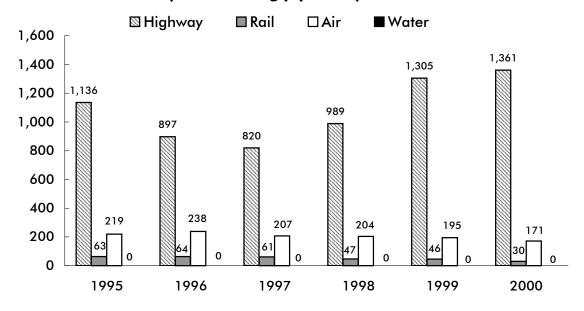
**SOURCE FOR DATA ON THIS PAGE:** U.S. Department of Transportation, Research and Special Programs Administration, Office of Hazardous Materials Safety, *Hazmat Summary by State for Calendar Year 2000*, and earlier years, Washington, DC: 2002, available at http://hazmat.dot.gov as of Apr. 24, 2002.

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

			Inju	ries	Damages
Mode	<b>Total incidents</b>	Deaths	Major	Minor	(\$ thousands)
Highway	1,361	2	2	8	866
Rail	30	0	0	0	122
Air	171	0	0	0	13
Water <sup>1</sup>	0	0	0	0	0
Total	1,562	2	2	8	1,001

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

Figure 2-8: Ohio 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
Ohio						
Number of incidents	3	8	6	3	4	8
Number of fatalities	1	2	1	0	0	1
Number of injuries	3	1	4	3	3	2
Property damage (\$ thousands)	150	325	3,070	45	860	1,375
United States, total						
Number of incidents	97	110	102	137	119	154
Number of fatalities	16	47 <sup>1</sup>	9	17	19	22
Number of injuries	43	109 <sup>1</sup>	67	65	85	59
Property damage (\$ thousands)	10,951	16,253 <sup>1</sup>	12,493	19,055	25,914	23,399

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

NOTE: Incidents are reported on Form RSPA F 7100.1.

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

	1995	1996	1997	1998	1999	2000
Ohio						
Number of incidents	1	2	1	1	0	0
Number of fatalities	0	0	0	0	0	0
Number of injuries	0	0	0	0	0	0
Property damage (\$ thousands)	285	200	50	3,400	0	0
United States, total						
Number of incidents	64	77	73	99	54	80
Number of fatalities	2	1	1	1	2	15
Number of injuries	10	5	5	11	8	18
Property damage (\$ thousands)	9,958	13,078	12,078	29,749	17,696	17,868

NOTE: Incidents are reported on Form RSPA F 7100.2.

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

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.

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.

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

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

	1995	1996	1997	1998	1999	2000
Ohio						
Number of incidents	4	3	3	3	0	2
Number of fatalities	0	0	0	0	0	0
Number of injuries	2	0	0	0	0	0
Property damage (\$ thousands)	5,519	103	844	77	0	195
United States, total						
Number of incidents	188	193	171	153	168	147
Number of fatalities	3	5	0	2	4	1
Number of injuries	11	13	5	6	20	4
Property damage (\$ thousands)	32,519	81,083	42,811	62,865	43,109	115,704

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

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

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

C Freight Transportation

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

State of origin	Rank	Value (\$ millions)	Weight (thousand short tons)	State of origin	Rank	Value (\$ millions)	Weight (thousand short tons)
Ohio	1	142,519	337,289	Connecticut	27	2,649	834
West Virginia	2	4,256	37,651	Wyoming	28	88	742
Michigan	3	25,870	28,835	Maryland	29	1,383	653
Pennsylvania	4	14,595	20,576	, Kansas	30	1,979	573
Kentucky	5	7,221	17,405	Massachusetts	31	2,869	525
Indiana <sup>*</sup>	6	16,195	14,772	Oregon	32	1,437	441
Minnesota	7	3,599	12,002	Oklahoma	33	S	412
Illinois	8	15,030	11,363	South Dakota	34	361	349
Virginia	9	3,596	4,042	Idaho	35	317	298
Wisconsin	10	6,210	3,465	Washington	36	1,386	230
New York	11	9,101	3,222	North Dakota	37	119	220
Texas	12	8,479	3,110	Maine	38	442	215
Tennessee	13	S	2,867	Colorado	39	1,189	190
Louisiana	14	1,925	2,854	Delaware	40	865	149
Georgia	15	5,131	2,715	Utah	41	488	120
North Carolina	16	5,849	2,585	New Hampshire	42	705	101
New Jersey	17	10,138	2,508	Arizona	43	1,049	96
Alabama	18	2,538	2,432	Vermont	44	359	75
lowa	19	3,073	1,999	Rhode Island	45	302	61
Nebraska	20	1,467	1,705	Montana	46	29	60
California	21	9,701	1,629	Nevada	47	382	46
South Carolina	22	3,680	1,595	Alaska	48	S	S
Missouri	23	4,302	1,390	District of Columbia	48	S	S
Mississippi	24	1,720	1,388	Hawaii	48	S	S
Florida	25	2,693	1,329	New Mexico	48	322	S
Arkansas	26	1,724	1,214	From all states		341,715	528,418

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

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

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

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

State of destination	Rank	Value (\$ millions)	Weight (thousand short tons)	State of destination	Rank	Value (\$ millions)	Weight (thousand short tons)
Ohio	1	142,519	337,289	Oklahoma	27	1,754	710
	•	33,840	-		28	1,311	645
Michigan	2 3	33,840 13,397	21,089 20,881	Mississippi Kansas	28 29	2,300	626
Kentucky	_	,	•		30	•	
Pennsylvania Indiana	4 5	17,320	19,961	Washington	30 31	2,061 1,893	475 424
	_	16,861	15,254	Colorado		•	
North Carolina	6	7,546	10,063	Arizona	32	1,346	405
West Virginia	7	4,360	8,985	Oregon	33	1,085	399
Illinois	8	17,907	8,441	Nebraska	34	867	393
New York	9	13,968	6,891	Utah	35	1,588	317
Texas	10	14,350	6,419	Maine	36	1,067	308
Georgia	11	7,662	4,635	New Hampshire	37	1,052	250
Tennessee	12	7,652	3,968	Rhode Island	38	326	207
California	13	12,801	3,460	Nevada	39	766	131
New Jersey	14	7,717	3,328	North Dakota	40	338	129
Virginia	15	4,406	3,228	Vermont	40	262	129
Louisiana	16	2,414	3,143	Montana	42	284	99
Wisconsin	17	5,428	2,925	South Dakota	43	307	42
Maryland	18	4,948	2,766	Idaho	44	234	40
Alabama	19	3,016	2,550	Wyoming	45	104	28
Florida	20	6,178	2,126	District of Columbia	46	100	22
Missouri	21	5,684	1,939	Alaska	47	70	S
South Carolina	22	2,766	1,564	Arkansas	47	1,967	S
Massachusetts	23	3,393	1,398	Hawaii	47	Ś	S
lowa	24	3,701	1,124	Minnesota	47	3,608	S
Delaware	25	677	<sup>′</sup> 816	New Mexico	47	, 579	S
Connecticut	26	1,863	797	To all states		387,758	510,450

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

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

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

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

	Value	,	Short to	ns	Ton-mi	les
	Number	<u>.</u>	Number		Number	
	(\$ millions)	Percent	(thousands)	Percent	(millions)	Percent
All modes	387,758	100.0	510,450	100.0	101,780	100.0
Single modes	324,459	83.7	477,297	93.5	92,532	90.9
Truck	296,673	76.5	398,291	78.0	58,226	57.2
For-hire	208,962	53.9	198,580	38.9	44,293	43.5
Private truck	85,961	22.2	192,624	37.7	13,212	13.0
Rail	18,051	4.7	48,839	9.6	29,255	28.7
Water	1,240	0.3	9,684	1.9	4,160	4.1
Shallow draft	717	0.2	7,036	1.4	4,144	4.1
Great Lakes	S	S	S	S	S	S
Deep draft	S	S	S	S	S	S
Air (including truck and air)	4,125	1.1	203	Z	1 <i>77</i>	0.2
Pipeline	4,369	1.1	20,280	4.0	S	S
Multiple modes	47,402	12.2	9,919	1.9	5,581	5.5
Parcel, U.S. Postal Service, or courier service	38,689	10.0	1,409	0.3	834	0.8
Truck and rail intermodal combination	8,036	2.1	2,074	0.4	3,102	3.0
Truck and water	49	Z	S	S	S	S
Rail and water	S	S	S	S	S	S
Other multiple modes	625	0.2	5,153	1.0	1,236	1.2
Other and unknown modes	15,897	4.1	23,235	4.6	3,667	3.6

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

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

State of destination	Value (\$ millions)	Weight (thousand short tons)
Ohio	116,486	284,135
Michigan	28,800	17,015
Pennsylvania	13,754	15,219
Kentucky	10,473	13,957
Indiana	14,556	13,433
Illinois	14,086	6,643
New York	10,257	4,922
West Virginia	3,641	4,695
Texas	9,718	3,699
North Carolina	5,267	3,208
All other states	69,635	31,365
Total, all states	296,673	398,291

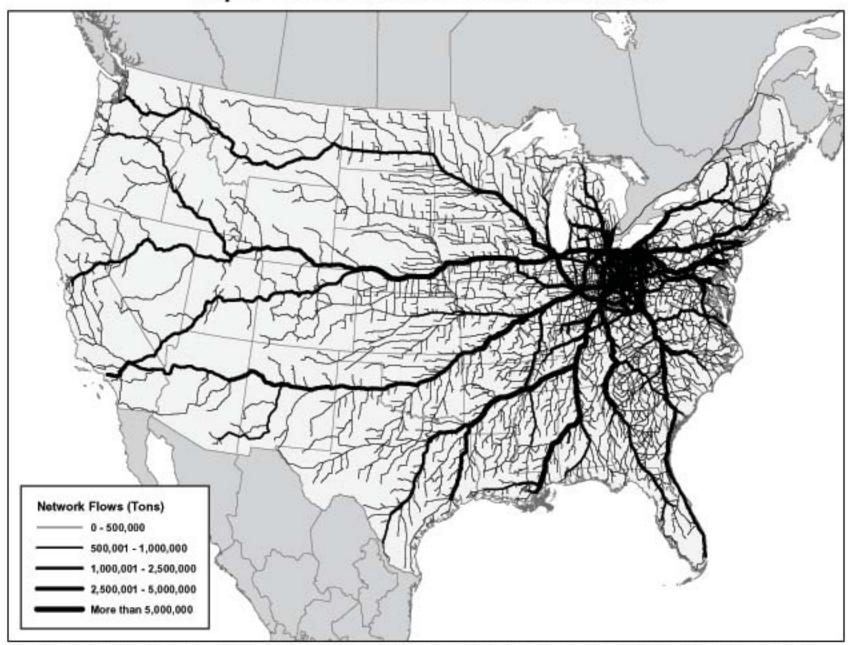
Table 3-5: Domestic Shipments to Ohio by Truck: 1997 (Descending order by weight)

State of origin	Value (\$ millions)	Weight (thousand short tons)
Ohio	116,486	284,135
Michigan	19,241	16,273
Indiana	14,033	11,526
Pennsylvania	11,215	10,351
Kentucky	6,296	6,134
Illinois	11,347	5,843
West Virginia	3,219	3,881
New York	6,563	2,745
Wisconsin	5,099	2,634
Tennessee	S	2,545
All other states	S	24,340
Total, all states	263,529	370,407

**KEY:** 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: Ohio 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 Ohio by Commodity: 1997 (Descending order by weight)

		Weight
	Value	(thousand
Commodity (2-digit commodity code)	(\$ millions)	short tons)
Gravel and crushed stone (12)	581	97,965
Base metal in primary or semifinished forms and in finished basic shapes (32)	28,139	36,872
Nonmetallic mineral products (31)	7,512	22,813
Gasoline and aviation turbine fuel (17)	6,084	22,255
Other prepared foodstuffs and fats and oils (07)	16,085	18,185
Nonmetallic minerals, n.e.c. (13)	459	16,876
Coal and petroleum products, n.e.c. (19)	1,770	15,832
Coal (15)	386	14,027
Waste and scrap (41)	1,623	10,197
Motorized and other vehicles (including parts) (36)	54,482	9,458
Fuel oils (18)	1,903	8,270
Cereal grains (02)	1,146	8,140
Chemical products and preparations, n.e.c. (23)	13,042	7,689
Basic chemicals (20)	4,174	7,638
Articles of base metal (33)	15,172	7,497
Wood products (26)	3,593	6,763
Plastics and rubber (24)	17,949	6,566
Animal feed and products of animal origin, n.e.c. (04)	2,494	6,530
Machinery (34)	28,788	5,821
Other agricultural products (03)	2,431	5,457
All other commodities	88,860	63,440
Total, all commodities	296,673	398,291

**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.

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

		Percent of		Percent of
Commodity	1999	total	2000	total
Coal	38,170,505	42.2	38,671,777	40.8
Primary metal products	9,605,716	10.6	9,714,273	10.3
Chemicals	7,332,877	8.1	7,919,960	8.4
Nonmetallic minerals	6,992,943	7.7	8,022,965	8.5
Waste and scrap	4,470,312	4.9	5,044,264	5.3
All other commodities	23,912,660	26.4	25,382,620	26.8
Ohio, total	90,485,013	100.0	94,755,859	100.0

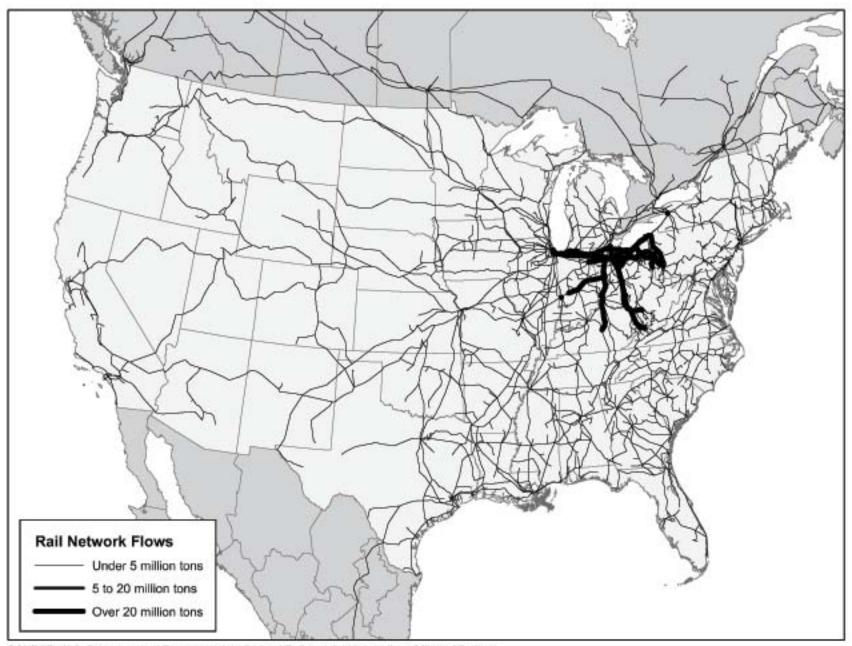
Table 3-8: Rail Shipments Originating in Ohio (Short tons)

		Percent of		Percent of
Commodity	1999	total	2000	total
Primary metal products	9,614,544	16.5	11,217,544	17.3
Farm products	8,277,421	14.2	8,807,250	13.6
Metallic ores	8,201,781	14.1	9,906,396	15.3
Nonmetallic minerals	6,317,813	10.8	7,692,282	11.9
Transportation equipment	5,278,268	9.1	5,638,672	8.7
All other commodities	20,539,956	35.3	21,493,987	33.2
Ohio, total	58,229,783	100.0	64,756,131	100.0

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

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

Map 3-2: Ohio Total Rail Flows: 1999



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

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

_		Percent of	
Destination	Short tons	total	
Total originating in Ohio	57,790,954	100.0	
Canada	19,022,183	32.9	
Ohio (intrastate)	15,675,147	27.1	
Pennsylvania	5,728,074	9.9	
Michigan	4,877,322	8.4	
West Virginia	3,795,366	6.6	
Kentucky	2,170,356	3.8	
Louisiana	1,578,353	2.7	
Wisconsin	1,434,177	2.5	
Indiana	860,207	1.5	
Missouri	549,669	1.0	
New York	464,783	0.8	
Foreign (excluding Canada)	409,285	0.7	
Illinois	323,423	0.6	
Tennessee	254,602	0.4	
Texas	229,032	0.4	
Alabama	171,404	0.3	
Minnesota	84,838	0.1	
lowa	64,384	0.1	
Arkansas	55,356	< 0.1	
Oklahoma	37,370	< 0.1	
Mississippi	5,623	<0.1	

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

Origin	Short tons	Percent of total
Total shipped to Ohio	88,799,663	100.0
West Virginia	19,063,732	21.5
Ohio (intrastate)	15,675,147	17.7
Minnesota	15,295,889	17.2
Michigan	9,020,673	10.2
Kentucky	7,884,964	8.9
Louisiana	7,567,062	8.5
Canada	5,035,333	5.7
Pennsylvania	3,044,424	3.4
Indiana	2,276,717	2.6
Foreign (excluding Canada)	1,384,936	1.6
Texas	989,541	1.1
Illinois	874,243	1.0
Alabama	145,900	0.2
Oklahoma	131,127	0.1
Other	90,335	0.1
Wisconsin	80,992	< 0.1
Mississippi	70,968	< 0.1
Arkansas	55,227	< 0.1
Tennessee	47,107	< 0.1
New York	27,216	< 0.1
Missouri	25,526	< 0.1
lowa	12,604	< 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.

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

		Percent of
Commodity	Short tons	total
Total	57,790,954	100.0
Coal, lignite, and coal coke	38,445,219	66.5
Sand, gravel, shells, clay, salt, and slag	6,126,563	10.6
Iron ore, iron, and steel waste and scrap	5,689,174	9.8
Food and food products	3,074,699	5.3
Petroleum products	851,441	1.5
Primary metal products	476,998	8.0
Chemicals excluding fertilizers	82,260	0.1
Crude petroleum	39,892	< 0.1
Non-ferrous ores and scrap	34,214	< 0.1
Chemical fertilizers	9,112	< 0.1
Unknown and not elsewhere classified products <sup>2</sup>	2,961,382	5.1

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

		Percent of
Commodity	Short tons	total
Total	38,359,486	100.0
Coal, lignite, and coal coke	22,090,779	57.6
Iron ore, iron, and steel waste and scrap	5,689,174	14.8
Sand, gravel, shells, clay, salt, and slag	5,095,129	13.3
Food and food products	1,342,084	3.5
Petroleum products	703,393	1.8
Primary metal products	468,433	1.2
Chemical fertilizers	9,112	< 0.1
Unknown and not elsewhere classified products <sup>2</sup>	2,961,382	7.7

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

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

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

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

Commodity	Short tons	Percent of total
Total	88,799,663	100.0
Coal, lignite, and coal coke	32,674,427	36.8
Iron ore, iron, and steel waste and scrap	27,377,778	30.8
Sand, gravel, shells, clay, salt, and slag	14,632,371	16.5
Petroleum products	3,096,151	3.5
Primary metal products	2,779,970	3.1
Chemicals excluding fertilizers	2,404,538	2.7
Primary nonmetal products	2,242,724	2.5
Non-ferrous ores and scrap	1,076,539	1.2
Chemical fertilizers	1,062,040	1.2
Food and food products	326,069	0.4
Manufactured goods	22,803	< 0.1
Lumber, logs, wood chips, and pulp	12	< 0.1
Unknown and not elsewhere classified products <sup>2</sup>	1,104,241	1.2

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

Commodity	Short tons	Percent of total
Total	82,379,394	100.0
Coal, lignite, and coal coke	32,619,778	39.6
Iron ore, iron, and steel waste and scrap	25,936,940	31.5
Sand, gravel, shells, clay, salt, and slag	12,746,646	15.5
Petroleum products	2,920,004	3.5
Chemicals excluding fertilizers	2,193,585	2.7
Primary metal products	1,590,306	1.9
Primary nonmetal products	1,511,196	1.8
Non-ferrous ores and scrap	887,464	1.1
Chemical fertilizers	823,574	1.0
Food and food products	45,660	< 0.1
Unknown and not elsewhere classified products <sup>2</sup>	1,104,241	1.3

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

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

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

Table 3-15: U.S. Waterborne Imports by State and Vessel Type: 1999 (Thousands of metric tons)

		Vessel type				
	_		Dry-bulk	Full	Other	
Cargo discharged in	Total	Tanker	carrier	container	freighter <sup>1</sup>	
Texas	215,154	177,950	31,448	3,442	2,314	
Louisiana	140,682	98,723	37,092	1,101	3,766	
California	75,162	31,143	10,345	29,169	4,505	
New York	55,174	30,575	11,814	10,701	2,084	
Pennsylvania	37,381	25,980	8,319	1,140	1,943	
Florida	28,509	10,565	10,166	3,656	4,112	
Virgin Islands	21,954	19,634	2,294	16	10	
Maine	20,795	19,616	1,521	29	629	
Mississippi	18,719	16,446	1,435	556	282	
Washington	18,311	2,585	6,708	5,915	3,093	
New Jersey	17,842	14,230	2,916	41	655	
Alabama	14,211	5,620	8,046	53	492	
Maryland	14,090	1,448	8,948	1,462	2,232	
Puerto Rico	14,058	8,863	3,096	1,049	1,050	
Massachusetts	12,588	9,538	2,347	501	202	
Virginia	10,705	4,032	1,903	4,064	706	
Georgia	9,614	2,353	3,845	2,403	1,013	
South Carolina	8,755	384	3,455	4,257	659	
Delaware	7,957	4,656	1,474	1,275	552	
Michigan	6,771	173	6,302	81	215	
Hawaii	5,955	4,832	957	82	84	
Ohio	5,257	69	4,930	20	238	
Illinois	4,883	231	4,489	25	138	
Oregon	4,369	1,215	1,776	421	957	
Rhode Island	3,650	2,662	919	23	46	
North Carolina	3,256	1,575	1,077	320	284	
New Hampshire	3,212	1,505	1,691	4	12	
Connecticut	2,930	1,534	786	78	532	
Wisconsin	1,383	Z	1,280	5	98	
Alaska	1,241	967	224	19	31	
Minnesota	629	23	399	4	203	
District of Columbia	53	Z	48	Z	5	
Indiana	Z	Z	Z	Z	Z	
United States, total	785,243	498,124	182,050	71,914	33,155	

<sup>&</sup>lt;sup>1</sup> Roll-on/roll-off, breakbulk ships, partial containerships, refrigerated cargo ships, barge carriers, and specialized cargo ships.

**KEY:** Z= zero or less than 1 unit of measure.

**SOURCE:** U.S. Department of Transportation, Maritime Administration, Office of Statistical and Economic Analysis, Waterborne Databank 1999, May 29, 2002.

Table 3-16: U.S. Waterborne Exports by State and Vessel Type: 1999 (Thousands of metric tons)

		Vessel type				
			Dry-bulk	Full	Other	
Cargo loaded in	Total	Tanker	_	container	freighter <sup>1</sup>	
Louisiana	97,093	9,842	77,773	3,669	5,809	
Texas	50,331	23,279	18,917	4,769	3,366	
California	34,585	4,778	11,074	17,011	1,722	
Washington	30,810	2,459	19,189	6,897	2,265	
Virginia	27,374	269	22,106	4,018	981	
Florida	17,797	692	9,332	2,773	5,000	
Ohio	12,936	74	12,505	130	227	
Oregon	12,712	501	8,535	2,181	1,495	
Alaska	10,122	5,794	3,300	319	709	
New York	9,644	508	2,992	5,476	668	
Michigan	8,392	190	7,673	348	181	
Maryland	7,834	129	6,257	734	714	
Alabama	7,724	126	4,656	366	2,576	
Wisconsin	7,492	11 <i>7</i>	7,007	142	226	
Georgia	6,291	173	1,323	3,246	1,549	
South Carolina	5,929	39	222	5,157	511	
Minnesota	3,994	45	3,721	125	103	
North Carolina	2,614	305	1,212	323	774	
Mississippi	2,456	421	1,095	329	611	
Puerto Rico	1,054	593	33	238	190	
Virgin Islands	772	699	35	14	24	
Illinois	624	1	521	90	12	
Pennsylvania	616	89	116	276	135	
Massachusetts	576	19	226	297	34	
Hawaii	509	328	63	57	61	
Delaware	513	17	173	189	134	
Maine	329	57	61	44	167	
New Jersey	285	113	63	47	62	
Connecticut	126	8	81	19	18	
Rhode Island	111	9	98	2	2	
New Hampshire	23	20	Z	1	2	
Indiana	18	Z	18	Z	Z	
District of Columbia	Z	Z	Z	Z	Z	
United States, total	360,697	51,696	219,382	59,289	30,330	

<sup>&</sup>lt;sup>1</sup> Roll-on/roll-off, breakbulk ships, partial containerships, refrigerated cargo ships, barge carriers, and specialized cargo ships.

**KEY:** Z = zero or less than 1 unit of measure.

**SOURCE:** U.S. Department of Transportation, Maritime Administration, Office of Statistical and Economic Analysis, Waterborne Databank 1999, May 29, 2002.

Table 3-17: Scheduled and Nonscheduled Air Freight and Mail Enplaned: 2000 (Short tons)

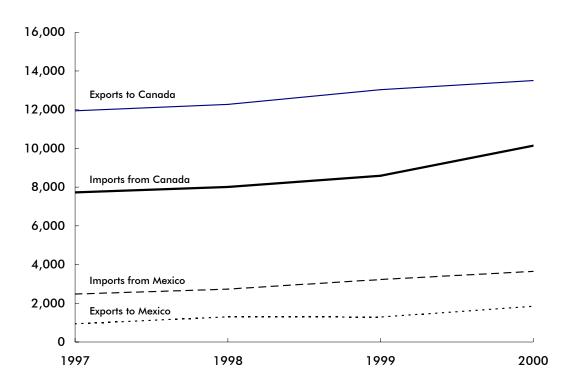
	Fre	eight		Mail
State	Scheduled	Nonscheduled	Scheduled	Nonscheduled
Alabama	17,233	139,250	6,796	25
Alaska	467,057	141,482	52,354	10,232
Arizona	70,430	66,143	36,115	27,465
Arkansas	1,886	12,578	6,534	2,955
California	1,176,476	504,757	237,537	87,278
Colorado	106,816	61,503	55,370	31,711
Connecticut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

Table 3-18: Surface Merchandise Trade with Canada and Mexico: 2000 (Millions of current dollars)

	Exports to		Imports from	
	Canada	Mexico	Canada	Mexico
Ohio	13,505	1,850	10,141	3,653
United States, total	154,847	97,159	210,270	113,437

Figure 3-1: Ohio 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.

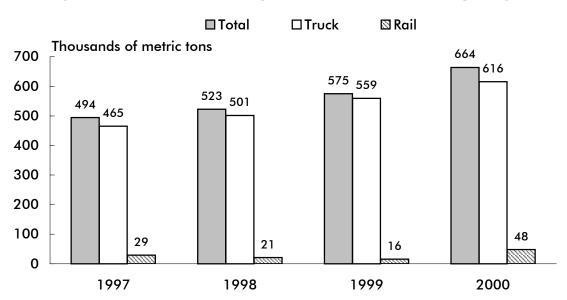
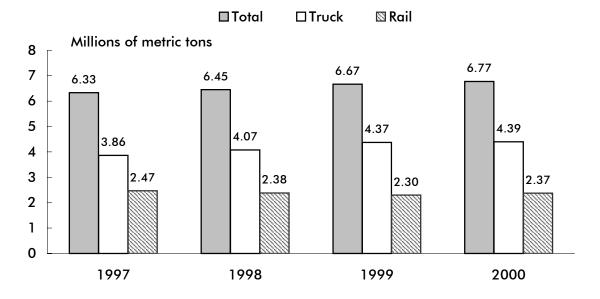


Figure 3-2: Truck and Rail Imports from Mexico to Ohio by Weight

Figure 3-3: Truck and Rail Imports from Canada to Ohio 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.

Table 3-19: Top 50 U.S. Foreign Trade Freight Gateways: 2000 (Ranked by value of shipments in \$ billions)

	Mode	U.S. rank	Exports	Imports	Total
Ohio gateways <sup>1</sup> in top 50		10	11.0	10.7	0.4.5
Cleveland	Air	19	11.8	12.7	24.5
U.S. gateways <sup>1</sup> in top 50					
JFK International Airport, NY	Air	1	56.0	75.5	131.6
Port of Los Angeles, CA	Water	2	16.7	85.1	101.8
Port of Long Beach, CA	Water	3	16.9	81.3	98.2
Port of Detroit, MI	Land	4	49.5	44.9	94.4
San Francisco Airport, CA	Air	5	41.8	46.9	88.7
Port of Laredo, TX	Land	6	39.2	44.4	83.7
Port of New York, NY and NJ	Water	7	19.7	61.2	80.9
Los Angeles International Airport, CA	Air	8	41.7	35.6	77.3
Port of Buffalo-Niagara Falls, NY	Land	9	36.2	33.9	70.1
Port of Huron, MI	Land	10	18.8	40.9	59.7
Chicago, IL	Air	11	20.4	25.4	45.7
Port of Houston, TX	Water	12	18.7	24.6	43.4
Port of El Paso, TX	Land	13	17.5	21.9	39.4
Port of Seattle, WA	Water	14	5.4	26.9	32.3
New Orleans, LA	Air	15	16.2	15.9	32.0
Port of Charleston, SC	Water	16	11.3	20.2	31.5
Port of Norfolk Harbor, VA	Water	17	11.1	14.1	25.2
Port of Oakland, CA	Water	18	9.6	15.5	25.1
Miami International Airport, FL	Air	20	15.9	7.7	23.6
Anchorage, AK	Air	21	3.5	19.7	23.2
Port of Baltimore, MD	Water	22	5.3	15.3	20.6
Dallas-Fort Worth, TX	Air	23	10.1	10.2	20.4
Port of Tacoma, WA	Water	24	4.4	15.5	19.8
Port of Otay Mesa, CA	Land	25	8.1	10.7	18.8
Port of New Orleans, LA	Water	26	7.6	11.2	18.8
Port of Miami, FL	Water	27	8.4	9.1	17.5
Port of Champlain-Rouses Pt., NY	Land	28	6.0	11.3	17.3
Atlanta, GA	Air	29	8.4	8.7	17.2
Port of Savannah, GA	Water	30	5.9	10.5	16.3
Port of Nogales, AZ	Land	31	5.3	8.3	13.6
Port of Hidalgo, TX	Land	32	6.2	6.4	12.6
Port of Blaine, WA	Land	33	5.6	6.7	12.3
Port of Brownsville-Cameron, TX	Land	34	6.2	5.9	12.1
Port of Alexandria Bay, NY	Land	35	4.6	7.4	12.1
Port of South Louisiana, LA	Water	36	7.1	4.0	11.1
Port of Beaumont, TX	Water	37	1.0	9.6	10.6
Newark, NJ	Air	38	3.9	9.0 6.7	10.6
·	Land	39	5.3	5.2	10.6
Port of Pembina, ND	Lana Water	40		5.2 5.8	
Port of Port Everglades, FL	Water		4.7		10.5
Port of Portland, OR		41	3.0	7.5	10.5
Port of Corpus Christi, TX	Water	42	1.6	8.7	10.3
Port of Jacksonville, FL	Water	43	1.9	8.4	10.3
Boston Logan Airport, MA	Air	44	5.9	4.4	10.0
Port of Philadelphia, PA	Water	45	0.5	9.5	10.0
Port of Morgan City, LA	Water	46	0.1	9.3	9.4
Seattle-Tacoma International Airport, WA	Air	47	3.7	4.8	8.5
Port of Calexico-East, CA	Land	48	3.5	4.8	8.3
Port of Sweetgrass, MT	Land	49	3.4	4.4	7.8
Port of Highgate Springs-Alburg, VT	Land	50	3.0	4.6	7.6
Total, top 50	NA	NA	619	989	1,608

<sup>&</sup>lt;sup>1</sup> Gateway means any port, airport, or border crossing that provides access for the import or export of goods.

**KEY**: NA = not applicable.

NOTES: Mode at transportation is the type of transportation as a shipment enters or exits at a border port. Flows through individual ports are based on reported data collected from U.S. trade documents. Low-value shipments, generally imports valued at less than \$1,250 and exports valued at less than \$2,500, are not included. Data for air gateways include some shipments (generally less than 3% of the total value) from small user-fee airports located in the same region. Air gateways not identified by airport name include major airport(s) in that geographic area in addition to small regional airports. In addition, due to U.S. Census Bureau confidentiality regulations, data for courier operations are included in the airport totals for JFK International Airport, New Orleans, Los Angeles, Cleveland, Chicago, Miami, and Anchorage.

## SOURCES:

**Air**: U.S. Department of Commerce, U.S. Census Bureau, Foreign Trade Division, special tabulation, April 2002. **Water**: U.S. Department of Transportation, Maritime Administration, Office of Statistical and Economic Analysis, Waterborne Databank 2000, September 2001.

Land: U.S. Department of Transportation, Bureau of Transportation Statistics, Transborder Surface Freight Data, 2001.

D Passenger Travel

Table 4-1: Commuting to Work: 2000

	Ohi	o	United States		
Mode	Number	Percent	Number	Percent	
Total	5,220,873	100.0	127,448,586	100.0	
Car, truck, or van drove alone	4,366,364	83.6	97,243,457	76.3	
Car, truck, or van carpooled	436,122	8.4	14,299,090	11.2	
Public transportation (including taxi)	126,957	2.4	6,592,685	5.2	
Walked	111,547	2.1	3,417,546	2.7	
Other means	43,216	0.8	1,820,578	1.4	
Worked at home	136,667	2.6	4,075,230	3.2	
Mean travel time to work (minutes)	22.1		24.3		

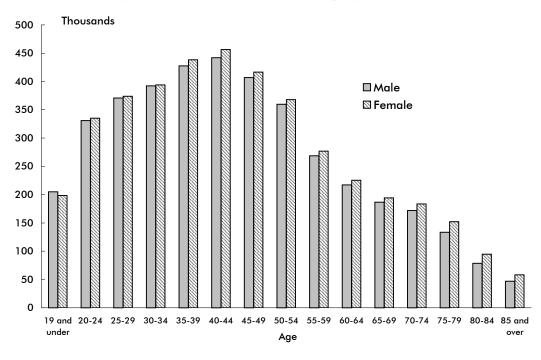
NOTE: Data are for workers 16 years and over.

**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

	Oh	io	United States		
Licensed drivers	Number	Percent	Number	Percent	
Total	8,205,524	100.0	190,625,023	100.0	
Male	4,039,082	49.2	95,796,069	50.3	
Female	4,166,442	50.8	94,828,953	49.7	

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



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

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

Transit agencies	Modes provided	Urbanized area	Annual unlinked passenger trips (thousands)	Average weekday unlinked trips	Operating funds expended (\$ millions)	Capital funds expended (\$	Vehicles available for maximum
Greater Cleveland Regional Transit Authority (GCRTA)	Bus, demand responsive, heavy rail, light rail	Cleveland	63,562	217	219	54	977
Southwest Ohio Regional Transit Authority (SORTA/Metro)	Bus, demand responsive	Cincinnati, OH-KY	26,638	86	53	23	490
Central Ohio Transit Authority	Bus, demand responsive	Columbus	18,859	65	51	22	365
Miami Valley Regional Transit Authority (Miami Valley RTA)	Bus, demand responsive, trolley bus	Dayton	14,741	50	42	30	283
Metro Regional Transit Authority	Bus, demand responsive	Akron	7,889	28	24	12	155
Transit Authority of Northern Kentucky	Bus, demand responsive	Cincinnati, OH-KY	4,615	16	12	<1	146
Toledo Area Regional Transit Authority	Bus, demand responsive	Toledo	4,594	16	16	10	201
Stark Area Regional Transit Authority	Bus, demand responsive	Canton	1,721	6	15	3	99
Western Reserve Transit Authority	Bus, demand responsive	Youngstown	1,389	5	4	6	51
Campus Bus Service	Bus	Kent	967	4	2	<1	29
LAKETRAN	Bus, demand responsive, vanpool	Grand River	894	3	7	5	113
Tri-State Transit Authority	Bus, demand responsive	Huntington-Ashland, WV-KY-OH	691	2	3	<1	41
Springfield City Area Transit	Bus, demand responsive	Springfield	619	2	<1	1	19
Ohio Valley Regional Transportation Authority	Bus, demand responsive	Wheeling, WV-OH	373	1	2	<1	26
Richland County Transit	Bus, demand responsive	Mansfield	367	1	1	<1	12
City of Newark Transit	Bus, demand responsive	Newark	297	<1	<1	<1	32
Mid-Ohio Valley Transit Authority	Bus, demand responsive	Parkersburg, WV-OH	276	<1	1	<1	28
Lorain County Transit	Bus, demand responsive	Lorain	255	<1	3	2	40
Middletown Transit System	Bus, demand responsive	Middletown	214	<1	<1	<1	7
Portage Area Regional Transit Authority	Bus, demand responsive	Kent	157	<1	<1	<1	24
Brunswick Transit Alternative	Bus	Brunswick	23	<1	<1	<1	7

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

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

		Passenger
Airport	Rank	enplanements
Ohio, all airports		20,799,903
Cincinnati (Greater Cincinnati)	22	9,962,765
Cleveland (Cleveland Hopkins International)	34	6,154,094
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
Baltimore, MD (Baltimore/Washington International)	23	8,979,425
Salt Lake City, UT (Salt Lake City International)	24	8,700,973
Honolulu, HI (Honolulu International)	25	8,684,893
Pittsburgh, PA (Pittsburgh International)	26	8,650,976
San Diego, CA (San Diego International-Lindbergh Field)	27	7,624,519
Tampa, FL (Tampa International)	28	7,430,829
Miami/Fort Lauderdale, FL (Fort Lauderdale-Hollywood International)	29	7,140,518
Washington, DC (Ronald Reagan Washington National)	30	6,983,212
Chicago, IL (Midway)	31	6,972,213
Washington, DC (Washington Dulles International)	32	6,649,323
Portland, OR (Portland International Jetport)	33	6,558,859
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
Memphis, TN (Memphis International)	38	4,977,238
Raleigh-Durham, NC (Raleigh-Durham International)	39	4,838,779
San Juan, PR (Luis Munoz Marin International)	40	4,834,298
New Orleans, LA (Louis Armstrong New Orleans International)	41	4,822,265
Nashville, TN (Nashville International)	42	4,365,127
Houston, TX (William P. Hobby)	43	4,322,108
Sacramento, CA (Sacramento International)	44	3,873,003
Los Angeles, CA (John Wayne Airport-Orange County)	45	3,828,324
Austin, TX (Robert Muller Municipal)	46	3,635,209
Indianapolis, IN (Indianapolis International)	47	3,629,716
Dallas, TX (Dallas Love Field)	48	3,594,539
Hartford/Springfield/Westfield, CT (Windsor Locks Bradley International)	49	3,508,023
San Antonio, TX (San Antonio International)	50	3,466,266
United States, all airports		638,902,993
Top 50 as % of all enplanements		84%

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

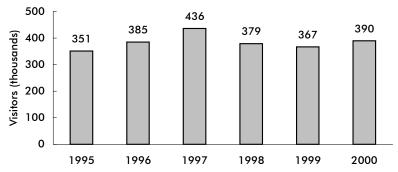
**SOURCE:** U.S. Department of Transportation, Bureau of Transportation Statistics, Airport Activity Statistics of Certificated Air Carriers: Summary Tables, Twelve Months Ending December 31, 2000, Washington, DC: 2001, available at http://www.bts.gov/publications/airactstats2000/ as of Dec. 28, 2001.

Table 4-5: Overseas Visitors to the United States: Top 20 Destination States and Territories<sup>1</sup>

		1995			2000			
		Visitors	Share of		Visitors	Share of		
	Rank	(thousands)	U.S. total	Rank	(thousands)	U.S. total		
California	2	5,304	25.7	1	6,364	24.5		
Florida	1	5,345	25.9	2	6,026	23.2		
New York	3	4,479	21.7	3	5,922	22.8		
Hawaii	4	2,910	14.1	4	2,727	10.5		
Nevada	5	1,858	9.0	5	2,364	9.1		
Massachusetts	8	1,053	5.1	6	1,429	5.5		
Illinois	7	1,115	5.4	7	1,377	5.3		
Guam	6	1,238	6.0	8	1,325	5.1		
Texas	10	867	4.2	9	1,169	4.5		
New Jersey	11	599	2.9	10	909	3.5		
Arizona	9	887	4.3	11	883	3.4		
Georgia	11	599	2.9	12	805	3.1		
Pennsylvania	11	599	2.9	13	649	2.5		
Colorado	15	433	2.1	14	519	2.0		
Michigan	18	372	1.8	15	494	1.9		
Washington	11	599	2.9	16	468	1.8		
Utah	15	433	2.1	17	416	1.6		
North Carolina	21	310	1.5	17	416	1.6		
Louisiana	17	413	2.0	19	390	1.5		
Ohio	19	351	1.7	19	390	1.5		
United States, tota		20,639			25,975			

**NOTE:** A visitor may visit more than one state. "Share of U.S. total" represents the percent of overseas visitors visiting the state. These columns, therefore, do not sum to 100.

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



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

SOURCES FOR DATA ON THIS PAGE: 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.

# E Registered Vehicles and Vehicle-Miles Traveled

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

Motor vehicle type	Private and commercial	Publicly owned	Ohio total	United States total
All motor vehicles	10,577,021	145,121	10,722,142	225,821,241
Automobiles	6,662,157	47,549	6,709,706	133,621,420
Buses	15,159	22,424	37,583	746,125
Trucks <sup>1</sup>	3,645,863	74,324	3,720,187	87,107,628
Light trucks	3,439,249	U	3,439,249	77,796,827
Farm trucks	33,220	U	33,220	1,885,170
Truck tractors	44,683	U	44,683	1,587,611
Motorcycles	253,842	824	254,666	4,346,068

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

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

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

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

Туре	Ohio	United States
Total	731,913	21,541,490
Private and commercial	722,271	21,283,681
Commercial trailers <sup>2</sup>	116,359	4,685,606
Light farm trailers, car trailers, etc. <sup>3</sup>	495,827	14,113,392
House trailers	110,085	2,484,683
Publicly owned	9,642	257,809
Federal government	127	4,277
State, county, municipal government	9,515	253,532

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

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

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

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

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

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

Vehicular and operational	•	Trucks, excluding pickups, panels, vans, sport utilities, and	Vehicular and operational		Trucks, excluding pickups, panels, vans, sport utilities, and
characteristics	All trucks	station wagons	characteristics '	All trucks	•
Total, number (thousands)	2,985.1	249.9			
Major use	100.0	100.0	Year model	100.0	100.0
Agriculture	3.0	9.8	1 to 2 years old	17.5	13.3
Forestry and lumbering	0.3	1.4	3 to 4 years old	18.2	16.6
Mining and quarrying	0.4	1.6	Over 4 years old	64.4	70.1
Construction	9.0	23.1	,		
Manufacturing	1.2	5.7	Vehicle acquisition	100.0	100.0
Wholesale and retail trade	3.9	13.5	Purchased new	38.3	43.0
For-hire transportation	1.5	17.9	Purchased used	48.9	45.5
Utilities and service	5.9	16.2	Leased from someone or	12.9	11.4
Personal transportation	72.9	2.9	not reported		
Other and not reported	1.8	8.0	·		
·			Truck type	100.0	100.0
Body type	100.0	100.0	Single-unit trucks	96.4	71.9
Pickup, panel, minivan, and	91.6	NA	2 axles	95.7	63.2
sport utility	71.0	INA	3 axles or more	0.7	8.7
Platform and cattlerack	2.0	23.7	Combination	3.6	28.1
Van	1.8	21.7	3 axles	0.3	2.0
Public utility	0.1	1.7	4 axles	1.5	5.3
Multistop or stepvans	1.4	17.2	5 axles or more	1.8	20.8
Dump	1.2	14.2	Trailer not specified	1.6 V	20.8 V
Tank for liquids or dry bulk	0.4	4.2	Trailer flor specified	•	•
Other or not reported	1.4	17.3	Range of operation	100.0	100.0
Office of flot reported	1.4	17.5	Local	75.6	54.7
Vehicle size	100.0	100.0	Short-range	14.9	27.0
Light	93.2	25.5	Long-range	5.8	14.3
Medium	2.4	21.2	Off-the-road or not	3.7	4.0
Light-heavy	1.1	12.7	reported	5.7	7.0
Heavy-heavy	3.4	40.5	reported		
rica y rica y	0.4	70.5	Fuel type	100.0	100.0
Annual miles driven	100.0	100.0	Gasoline	93.5	42.9
Less than 5,000	17.5	22.8	Diesel, liquefied gas,	6.4	56.2
5,000 to 9,999	17.0	15.1	and other	<b>5.</b> -₹	55.2
10,000 to 19,999	44.9	22.8	Not reported	0.1	0.9
20,000 to 29,999	12.7	11.4	c. roportou	5.1	<b>U.</b> ,
30,000 or more	7.9	27.8			

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

NOTE: Due to rounding, numbers may not sum to 100.

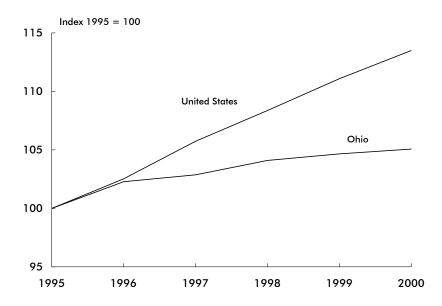
**SOURCE**: U.S. Department of Commerce, U.S. Census Bureau, *Vehicle Inventory and Use Survey*, state-specific reports, Washington, DC: 1999, available at http://www.census.gov/econ/www/viusmain.html as of Dec. 27, 2001.

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

State	Total VMT (millions)	VMT per capita
Alabama	56.534	12,716
Alaska	4.613	7.501
Arizona	49,768	11,428
Arkansas	29,167	11,428
California	306,649	9,053
Colorado	•	•
Connecticut	41,771	9,712
	30,756	9,057
Delaware	8,240	10,510
Dist. of Columbia	3,498	6,115
Florida	152,136	9,609
Georgia	105,010	12,969
Hawaii	8,543	7,014
Idaho	13,534	10,467
Illinois	102,866	8,225
Indiana	70,862	12,779
lowa	29,433	10,059
Kansas	28,130	10,599
Kentucky	46,803	11,579
Louisiana	40,849	9,430
Maine	14,190	11,129
Maryland	50,174	9,809
Massachusetts	52,796	8,513
Michigan	97,792	9,839
Minnesota	52,601	10,693
Mississippi	35,536	12,187
Missouri	67,083	11,990

State	Total VMT (millions)	VMT per capita
Montana	9,882	10,812
Nebraska	18,081	10,568
Nevada	17,639	9,504
New Hampshire	12,021	9,687
New Jersey	67,446	8,015
New Mexico	22,760	13,580
New York	129,057	6,801
North Carolina	89,504	11,120
North Dakota	7,217	11,241
Ohio	105,898	9,328
Oklahoma	43,355	12,563
Oregon	35,010	11,175
Pennsylvania	102,337	8,316
Rhode Island	8,359	8,326
South Carolina	45,538	7,971
South Dakota	8,432	11,168
Tennessee	65,732	11,698
Texas	220,064	10,613
Utah	22,597	11,226
Vermont	6,811	11,184
Virginia	74,801	10,564
Washington	53,330	9,251
West Virginia	19,242	10,684
Wisconsin	57,266	10,261
Wyoming	8,090	16,410
United States	2,749,803	9,811

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



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

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

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
Cleveland	5,530	37,800	1,783	838	2,128	3.1	21	1,279	13,511
Cincinnati, OH-KY	4,887	32,605	1,176	630	1,867	4.2	28	972	16,194
Columbus	3,426	24,731	940	476	1,975	3.6	26	859	13,851
Dayton	3,102	16,282	597	369	1,618	5.2	27	467	12,308
Akron	2,696	13,026	544	356	1,528	5.0	24	422	12,604
Toledo, OH-MI	2,121	11,830	500	255	1,961	4.2	24	319	12,615
Youngstown-Warren	1,821	7,269	379	193	1,964	4.8	19	193	8,403
Canton	1,543	5,054	248	160	1,550	6.2	20	142	9,810
Lorain-Elyria	1,027	5,287	236	232	1,017	4.4	22	235	8,495
Huntington-Ashland, WV-KY-OH	1,038	3,944	174	104	1,673	6.0	23	172	6,642
Hamilton	432	1,984	118	61	1,934	3.7	17	14	5,497
Steubenville-Weirton, OH-PA-WV	482	U	101	80	1,263	4.8	U	138	4,621
Middletown	458	2,837	95	81	1,173	4.8	30	83	11,385
Springfield	399	1,523	85	45	1,889	4.7	18	23	7,950
Mansfield	438	1,258	80	63	1,270	5.5	16	59	5,251
Lima	407	1,612	70	57	1,228	5.8	23	42	8,975
Parkersburg, WV-OH	291	1,176	60	42	1,429	4.9	20	3	7,125
Wheeling, WV-OH	481	U	59	55	1,073	8.1	U	107	6,476
Newark	268	883	57	32	1,781	4.7	16	36	7,021
Sharon, PA-OH	330	868	49	50	980	6.7	18	30	4,336

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

**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.

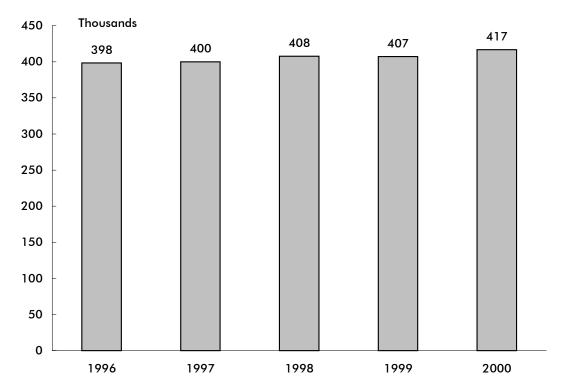
<sup>&</sup>lt;sup>2</sup>Lane miles estimated by the Federal Highway Administration (FHWA).

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

	Ohi	0	United	States
	1999	2000	1999	2000
Total	407,347	416,798	12,738,271	12,782,143
Powered	342,538	342,596	11,811,562	11,648,769
Nonpowered	58,002	65,498	481,191	547,271
Other	6,807	8,704	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: Ohio 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. Ohio statistics include all watercrafts. U.S. total does not include sailboards, which are numbered in some states.

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

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

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

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

			Α				
		•			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	<sup>′</sup> 681	<sup>′</sup> 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
Wyomina	1,812	254	901	354	273	30	1,433
United States, total	593,218	87,319	244,389	112,092	134,024	15,394	78,686
Offica Siales, foldi	3/3,210	07,017	244,507	112,072	104,024	13,374	70,000

<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

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

Business type	Establishments <sup>1</sup> (number)	Number of employees	Annual payroll (\$ thousands)
Total transportation and warehousing	6,965	134,263	4,262,420
Air transportation	146	9,667	398,495
Water transportation	44	1,000-2,499	D
Truck transportation	4,638	64,694	2,149,949
Transit and ground passenger transportation	349	8,077	110,906
Pipeline transportation	93	1,320	71,180
Scenic and sightseeing transportation	42	100-249	D
Support activities for transportation	993	10,866	332,791
Couriers and messengers	353	31,914	962,072
Warehousing and storage	307	6,089	173,174

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

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

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

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

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

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

	19	95	19	96	19	97	19	98	19	99
Mode	State	Local								
Total (current \$)	1,892	384	1,863	371	2,095	431	2,097	411	2,169	356
Highway	1,892	157	1,863	148	2,095	166	2,097	164	2,169	174
Transit	Z	86	Z	89	Z	107	Z	90	Z	92
Air	Z	131	Z	122	Z	145	Z	155	Z	88
Water	Z	10	Z	11	Z	13	Z	2	Z	2
Total (chained 1996 \$)	1,935	393	1,863	371	2,043	420	2,011	394	2,026	332
Highway	1,935	161	1,863	148	2,043	162	2,011	157	2,026	162
Transit	Z	88	Z	89	Z	104	Z	86	Z	86
Air	Z	134	Z	122	Z	142	Z	149	Z	82
Water	Z	10	Z	11	Z	13	Z	2	Z	2

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

	19	95	19	96	19	97	19	98	19	99
Mode	State	Local								
Total (current \$)	1,507	1,894	1,417	2,102	1,666	2,135	1,817	2,279	1,943	2,495
Highway	1,507	1,347	1,417	1,452	1,666	1,501	1,817	1,526	1,943	1,645
Transit	Z	420	Z	471	Z	451	Z	548	Z	507
Air	Z	124	Z	167	Z	169	Z	202	Z	272
Water	Z	2	Z	12	Z	14	Z	3	Z	71
Total (chained 1996 \$)	1,541	1,937	1,417	2,102	1,624	2,082	1,743	2,185	1,814	2,331
Highway	1,541	1,378	1,417	1,452	1,624	1,463	1,743	1,463	1,814	1,537
Transit	Z	430	Z	471	Z	440	Z	526	Z	473
Air	Z	127	Z	167	Z	165	Z	193	Z	254
Water	Z	2	Z	12	Z	14	Z	3	Z	67

<sup>&</sup>lt;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.

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

(Ceriis per guilon)			Liquified	
			petroleu	
State	Gasoline	Diesel	m gas	Gasohol <sup>1</sup>
Alabama	18.00	19.00	17.00	18.00
Alaska	8.00	8.00	0.00	0.00
Arizona	18.00	27.00	18.00	18.00
Arkansas	19.50	20.50	16.50	18.60
California	18.00	18.00	6.00	18.00
Colorado	22.00	20.50	20.50	22.00
Connecticut	32.00	18.00	0.00	31.00
Delaware	23.00	22.00	22.00	23.00
District of Columbia	20.00	20.00	20.00	20.00
Florida	13.10	25.10	16.00	13.10
Georgia	7.50	7.50	7.50	7.50
Hawaii	16.00	16.00	11.00	16.00
Idaho	25.00	25.00	18.10	22.50
Illinois	19.00	21.50	19.00	19.00
Indiana	15.00	16.00	0.00	15.00
lowa	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	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	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
South Dakota	22.00	22.00	20.00	20.00
Tennessee	20.00	17.00	14.00	20.00
Texas	20.00	20.00	15.00	20.00
Utah	24.50	24.50	24.50	24.50
Vermont	20.00	17.00	0.00	20.00
Virginia	17.50	16.00	10.00	17.50
Washington	23.00	23.00	0.00	23.00
West Virginia	25.35	25.35	25.35	25.35
Wisconsin	25.40	25.40	25.40	25.40
Wyoming	14.00	14.00	0.00	14.00
Federal tax	18.40	24.40	13.60	13.00

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

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

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

G Energy and Environment

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

		B: .:		Petrole	eum						Electrical	
	Natural	Distillate fuel		Motor	Residual						system energy	
State	gas <sup>1</sup>	(diesel)	Jet fuel	gasoline <sup>2</sup>	fuel	Other <sup>3</sup>	Total	Ethanol <sup>4</sup>	Electricity	Net energy	losses <sup>5</sup>	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.S	365.9
Connecticut	0.8	34.4	13.9	183.9	0.1	1.9	234.2	0.3	0.0	234.9	0.0	234.9
Delaware	0.1	8.6	0.6	47.7	13.2	0.5	70.6	0.0	0.0	70.6	0.0	70.6
Dist. of Columbia	0.3	3.6	0.0	20.5	0.0	0.3	24.5	0.0	0.6	25.3	1.2	26.5
Florida	7.2	210.3	164.3	897.5	57.4	8.7	1,338.1	0.1	0.2	1,345.4	0.4	1,345.8
Georgia	9.1	196.7	86.8	566.9	5.7	5.2	861.3	0.0	0.3	870.8	0.7	871.4
Hawaii	0.0	9.1	53.7	45.8	12.9	0.8	122.3	0.0	0.0	122.3	0.0	122.3
Idaho	4.7	34.0	4.9	80.8	0.0	1.2	121.0	0.0	0.0	125.7	0.0	125.7
Illinois	55.3	202.6	103.4	612.7	0.2	11.8	930.8	20.3	1.5	987.5	2.9	990.5
Indiana	14.6	186.4	63.5	373.7	1.9	5.1	630.6	9.0	0.1	645.3	0.1	645.4
lowa	7.9	74.9	5.0	185.9	0.0	3.8	269.6	6.7	S	277.5	S	277.5
Kansas	31.6	60.5	19.7	170.7	0.1	5.2	256.2	0.5	0.0	287.8	0.0	287.8
Kentucky	17.2	122.9	39.5	261.0	0.0	3.6	427.0	0.3	0.0	444.2	0.0	444.2
Louisiana	50.0	147.4	192.9	255.9	153.5	5.1	754.9	0.1	S	804.9	S	804.9
Maine	0.0	22.2	4.9	83.7	1.4	1.0	113.2	0.0	S	113.2	S	113.2
Maryland	3.4	73.3	22.3	295.0	7.4	2.2	400.3	0.2	0.5	404.1	1.0	405.1
Massachusetts	2.8	57.0	45.8	328.7	0.2	4.1	435.7	0.0	0.8	439.2	1.6	440.8
Michigan	23.3	132.7	51.7	624.5	0.3	12.2	821.4	3.4	S	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	2.7	191.5	2.1	0.0	194.4	0.0	194.4
Nevada	0.9	36.9	47.4	111.7	0.0	0.9	196.9	2.3	0.0	197.8	0.0	197.8
New Hampshire	S	14.5	4.6	80.8	S	0.5	100.5	0.0	0.0	100.5	0.0	100.5
New Jersey	4.3	120.9	206.1	476.6	48.9	5.1	857.6	0.7	0.5	862.4	0.9	863.3
New Mexico	47.4	55.5	15.4	113.7	0.0	1.9	186.5	2.0	0.0	233.9	0.0	233.9
New York	8.6	147.5	51.7	690.6	47.1	7.3	944.2	1.2	9.1	961.9	17.7	979.6
North Carolina	10.9	132.6	38.6	502.6	1.0	5.3	680.0	3.0	0.0	690.9	0.0	690.9
North Dakota	9.9	26.0	2.3	43.0	0.0	1.2	72.5	0.4	0.0	82.4	0.0	82.4
Ohio	18.5	222.5	93.3	623.2	0.1	11.1	950.2	19.6	0.2	968.9	0.3	969.2
Oklahoma	24.5	111.7	37.3	223.3	0.0	5.7	378.0	0.0	0.0	402.5	0.0	402.5
Oregon	10.9	70.2	36.5	188.0	18.0	4.3	317.0	1.1	0.1	328.0	0.2	328.2
Pennsylvania	37.3	197.6	90.4	607.0	37.8	9.7	942.6	1.0	1.3	981.3	2.6	983.9
Rhode Island	0.3	9.3	6.0	49.8	S	0.5	65.6	0.0	0.0	65.9	0.0	65.9
South Carolina	3.7	85.8	8.7	273.0	2.8	2.3	372.7	0.0	0.0	376.4	0.0	376.4
South Dakota	6.1	21.1	4.4	51.5	0.0	1.3	78.2	1.8	0.0	84.3	0.0	84.3
Tennessee	25.9	131.7	67.0	360.3	0.0	5.1	564.2	0.0	S	590.1	S	590.1
Texas	73.0	479.2	594.8	1,252.3	131.9	17.6	2,475.8	4.8	0.1	2,548.8	0.1	2,549.0
Utah	2.8	45.1	42.2	119.2	0.0	1.7	208.2	0.9	S	211.1	S	211.1
Vermont	S	12.3	0.8	39.7	0.0	0.4	53.2	0.0	0.0	53.2	0.0	53.2
Virginia	8.3	142.3	52.8	438.1	9.2	3.9	646.5	2.8	0.3	655.1	0.6	655.7
Washington	8.2	95.9	125.6	325.2	57.4	4.6	608.9	2.5	0.1	617.1	0.1	617.3
West Virginia	31.5	46.9	1.0	100.5	0.0	1.7	150.1	S	0.0	181.6	0.0	181.6
Wisconsin	4.2	101.0	19.3	303.0	S	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

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

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

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

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

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

<sup>&</sup>lt;sup>3</sup> "Other" is the sum of aviation gasoline, liquefied petroleum gas (LPG), and lubricants.

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

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

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

		End-use sectors <sup>2</sup>							
	Total energy	Transpor	tation	Resider	ntial	Comme	rcial	Indus	trial
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	194.4	32.3 32.1	122.4	19.9	97.1	15.8	198.0	32.2
New Hampshire	335.4	197.6	30.0	81.9	24.4	56.2	16.8	96.9	28.9
•	2,588.7	863.3	33.3	539.9	20.9	540.8	20.9	644.7	24.9
New Jersey	•	233.9		93.2		105.6		202.4	31.9
New Mexico	635.0	233.9 979.6	36.8 22.9		14.7 25.5		16.6 28.4	994.9	23.2
New York	4,283.0			1,092.3		1,216.1			
North Carolina	2,446.9	690.9	28.2	562.7	23.0	439.5	18.0	753.7	30.8
North Dakota	365.7	82.4	22.5	54.2	14.8	42.6	11.6	186.4	51.0
Ohio	4,323.4	969.2	22.4	866.7	20.0	632.1	14.6	1,855.3	42.9
Oklahoma	1,377.5	402.5	29.2	259.1	18.8	197.7	14.4	518.2	37.6
Oregon	1,109.2	328.2	29.6	238.4	21.5	190.5	17.2	352.1	31.7
Pennsylvania	3,715.5	983.9	26.5	858.6	23.1	582.6	15.7	1,290.4	34.7
Rhode Island	261.1	65.9	25.2	66.0	25.3	52.2	20.0	77.0	29.5
South Carolina	1,493.0	376.4	25.2	288.1	19.3	210.3	14.1	618.2	41.4
South Dakota	239.0	84.3	35.3	53.3	22.3	39.2	16.4	62.2	26.0
Tennessee	2,070.5	590.1	28.5	441.5	21.3	328.1	15.8	710.8	34.3
Texas	11,501.0	2,549.0	22.2	1,323.3	11.5	1,147.2	10.0	6,481.5	56.4
Utah	693.9	211.1	30.4	127.5	18.4	120.2	17.3	235.1	33.9
Vermont	165.0	53.2	32.2	42.6	25.8	29.4	17.8	39.9	24.2
Virginia	2,227.3	655.7	29.4	494.4	22.2	462.8	20.8	614.4	27.6
Washington	2,240.8	617.3	27.5	435.7	19.4	332.0	14.8	855.9	38.2
West Virginia	735.4	181.6	24.7	141.9	19.3	101.0	13.7	310.8	42.3
Wisconsin	1,810.5	431.8	23.8	375.8	20.8	285.4	15.8	717.4	39.6
Wyoming	421.8	119.8	28.4	35.9	8.5	42.1	10.0	224.0	53.1
United States	95,682.4	26,324.6	27.5	18,382.3	19.2	15,058.5	15.7	35,917.1	37.5

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

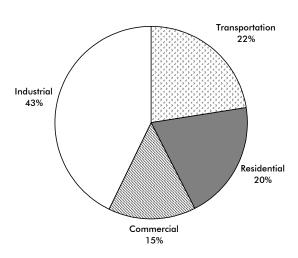
**KEY:** Btu = British thermal unit; Number = trillion Btu.

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

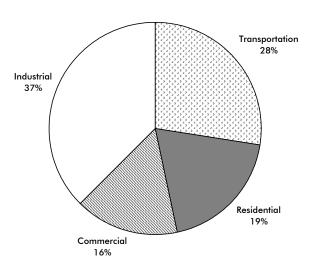
<sup>&</sup>lt;sup>2</sup> End-use sector data include electricity sales and associated electrical system energy losses.

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

## Ohio



### **United States**



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

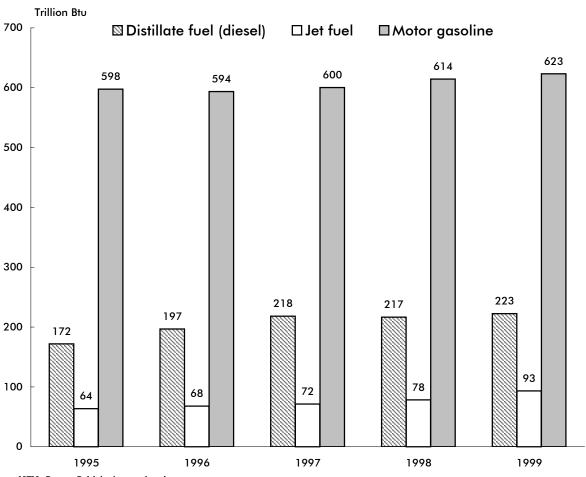


Figure 7-2: Ohio Transportation Energy Consumption

**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.

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

		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	119.8	249.6
United States	272,691	25,511.8	93.6	26,324.6	96.5

 $<sup>^{\</sup>rm 1}\text{Calculated}$  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.

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

	Gasoline			Special fuel				
_	Highway use		Nonhighway use		(mainly diesel)		Total use	
_		United		United		United		United
Vehicle ownership	Ohio	States	Ohio	States	Ohio	States	Ohio	States
Private and commercial	4,980	126,735	57	2,876	1,511	33,377	6,548	162,988
Public use	81	2,149	4	96	N	N	85	2,245
Total	5,061	128,884	61	2,972	1,511	33,377	6,633	165,232

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

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

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

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

Table 7-5: Ohio Air Quality Nonattainment Areas for Ozone (O<sub>3</sub>)

			Redesignation		Part or whole	Population
County	Area	Nonattainment in year	to attainment	Classification	county	(2000)
Ashtabula	Cleveland-Akron-Lorain	95	5/7/1996	Moderate	Whole	102,728
Butler	Cincinnati-Hamilton, KY	95 96 97 98 99 00 01	NA	Moderate	Whole	332,807
Clark	Dayton-Springfield	95	7/5/1995	Moderate	Whole	144,742
Clermont	Cincinnati-Hamilton, KY	95 96 97 98 99 00 01	NA	Moderate	Whole	177,977
Clinton	Clinton County	95	3/21/1996	Section 185A	Whole	40,543
Cuyahoga	Cleveland-Akron-Lorain	95	5/7/1996	Moderate	Whole	1,393,978
Delaware	Columbus	95	4/1/1996	Marginal	Whole	109,989
Franklin	Columbus	95	4/1/1996	Marginal	Whole	1,068,978
Geauga	Cleveland-Akron-Lorain	95	5/7/1996	Moderate	Whole	90,895
Greene	Dayton-Springfield	95	7/5/1995	Moderate	Whole	147,886
Hamilton	Cincinnati-Hamilton, KY	95 96 97 98 99 00 01	NA	Moderate	Whole	845,303
Lake	Cleveland-Akron-Lorain	95	5/7/1996	Moderate	Whole	227,511
Licking	Columbus	95	4/1/1996	Marginal	Whole	145,491
Lorain	Cleveland-Akron-Lorain	95	5/7/1996	Moderate	Whole	284,664
Lucas	Toledo	95	8/1/1995	Moderate	Whole	455,054
Mahoning	Youngstown-Warren-Sharon	95	4/1/1996	Marginal	Whole	257,555
Medina	Cleveland-Akron-Lorain	95	5/7/1996	Moderate	Whole	151,095
Miami	Dayton-Springfield	95	7/5/1995	Moderate	Whole	98,868
Montgomery	Dayton-Springfield	95	7/5/1995	Moderate	Whole	559,062
Portage	Cleveland-Akron-Lorain	95	5/7/1996	Moderate	Whole	152,061
Stark	Canton	95	4/1/1996	Marginal	Whole	378,098
Summit	Cleveland-Akron-Lorain	95	5/7/1996	Moderate	Whole	542,899
Trumbull	Youngstown-Warren-Sharon	95	4/1/1996	Marginal	Whole	225,116
Warren	Cincinnati-Hamilton, KY	95 96 97 98 99 00 01	NA	Moderate	Whole	158,383
Wood	Toledo	95	8/1/1995	Moderate	Whole	121,065

**KEY**: NA = not applicable.

NOTES: Nonattainment areas do not meet the national primary or secondary ambient air quality standard (NAAQS) for the specified pollutant.

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

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

Table 7-6: Ohio Air Quality Nonattainment Areas for Particulate Matter (PM-10)

County	Area Nonattainment in year		Redesignation to attainment Classification		Part or whole county	Population (2000)
Cuyahoga	Cuyahoga County	95 96 97 98 99 00	1/10/2001	Moderate	Whole	1,393,978
Jefferson	Jefferson County	95 96 97 98 99 00	1/10/2001	Moderate	Part	3,680

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

Table 7-7: Highway Noise Barriers: 1999

Cama.	Total length	Barrier cost
State Alabama	(meters) 0	<b>(\$ 1998)</b>
Alaska	9,338	2,742,486
Arizona	48,593	15,130,670
Arkansas	1,989	653,497
California	•	•
Colorado	777,160	487,177,331
Connecticut	104,377	45,351,408
	46,049	28,335,802
Delaware District of Columbia	1,262 0	242,013 0
Florida	70,991	62,276,735
Georgia Hawaii	33,530	20,247,589
	3,103	1,743,452
Idaho	200	583,002
Illinois	97,803	70,985,221
Indiana	18,568	20,297,106
lowa	7,857	3,215,640
Kansas	2,103	2,082,034
Kentucky	8,249	5,306,199
Louisiana	12,077	5,974,212
Maine	561	292,861
Maryland	99,587	153,227,923
Massachusetts	10,250	5,259,055
Michigan	67,071	60,139,968
Minnesota	101,811	62,694,176
Mississippi	0	0
Missouri	6,113	4,179,360
Montana	0	0
Nebraska	5,060	4,026,138
Nevada	17,847	10,855,220
New Hampshire	6,392	5,785,519
New Jersey	142,055	210,429,029
New Mexico	21,196	9,306,885
New York	110,698	116,448,616
North Carolina	45,977	24,702,615
North Dakota	0	0
Ohio	138,197	68,064,386
Oklahoma	13,186	4,229,909
Oregon	72,552	30,075,899
Pennsylvania	83,526	88,259,488
Rhode Island	0	0
South Carolina	2,665	1,713,629
South Dakota	0	, ,
Tennessee	28,846	20,574,450
Texas	55,310	39,635,228
Utah	70,260	24,841,367
Vermont	1,004	356,344
Virginia <sup>1</sup>	153,313	143,003,313
Washington	74,812	32,296,683
West Virginia	408	170,529
Wisconsin	29,730	28,768,150
Wyoming	29,730	100,271
United States	2,611,953	1,931,107,534
Omirea States	۷,011,933	1,731,107,334

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

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

# H Information on Data Sources

# Airline freight and passenger data

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

#### **Additional information:**

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

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

Internet: http://www.bts.gov

# **Commodity Flow Survey**

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

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

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

#### Additional information:

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

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

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

# Commuting data

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

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

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

#### **Additional information:**

Contact: USDOC, U.S. Census Bureau, Demographic Surveys Division

Internet: http://www.census.gov

# Gas and hazardous liquid pipeline data

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

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

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

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

#### **Additional information:**

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

Internet: http://ops.dot.gov

# Government transportation revenue and expenditure data

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

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

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

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

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

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

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

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

### Additional information:

Contact: USDOC, U.S. Census Bureau,

Finance Branch

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

Federal Aid to States: 2000

Internet: http://www.census.gov

# Hazardous materials incidents data

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

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

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

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

### **Additional information:**

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

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

Internet: http://hazmat.dot.gov

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

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

and tabular summary reporting of limited information.

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

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

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

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

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

#### **Additional information:**

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

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

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

# Highway safety data

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

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

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

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

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

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

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



**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.

