APPENDIX. SELECTED METRIC DATA

Table 2-1M. Weight of Shipments by Transportation Mode: 2007, 2012, and 2040[1]
(Millions of metric tonnes)

	2007				2012				2040			
	Total	Domestic	Exports[2]	Imports[2]	Total	Domestic	Exports[2]	Imports[2]	Total	Domestic	Exports[2]	Imports[2]
Total	**17,127**	**15,288**	**594**	**1,245**	**17,837**	**15,897**	**817**	**1,123**	**25,874**	**20,951**	**2,388**	**2,535**
Truck	11,592	11,418	86	88	11,959	11,769	107	83	17,042	16,405	334	304
Rail	1,723	1,583	56	84	1,831	1,683	74	74	2,513	1,979	352	182
Water	862	457	59	346	885	492	87	306	971	507	149	315
Air, air & truck	12	2	4	5	13	3	5	6	48	6	18	25
Multiple modes & mail[1]	1,296	393	353	550	1,441	411	490	540	3,243	586	1,403	1,255
Pipeline[1]	1,354	1,192	4	159	1,403	1,289	12	101	1,579	1,140	15	424
Other & unknown	287	241	33	13	307	251	43	13	477	329	118	31

[1] 2007 total and domestic numbers for the multiple modes & mail and the pipeline categories were revised as a result of Freight Analysis Framework database improvements.

[2] Data do not include imports and exports that pass through the United States from a foreign origin to a foreign destination by any mode.

Notes: 1 metric tonne = 1.1023 short tons. Numbers may not add to totals due to rounding. The 2012 data are provisional estimates that are based on selected modal and economic trend data. All truck, rail, water, and pipeline movements that involve more than one mode, including exports and imports that change mode at international gateways, are included in multiple modes & mail to avoid double counting. As a consequence, rail and water totals in this table are less than other published sources.

Table 2-4M. Top Commodities: 2012

Millions of Metric Tonnes		Billions of 2007 Dollars	
Total, all commodities	**17,837**	**Total, all commodities**	**17,352**
Gravel	2,103	Machinery	1,836
Cereal grains	1,447	Electronics	1,492
Coal	1,385	Motorized vehicles	1,348
Natural gas, coke, asphalt[1]	1,308	Mixed freight	1,090
Non-metallic mineral products	1,308	Pharmaceuticals	909
Waste/scrap	1,241	Miscellaneous manufactured products	717
Gasoline	934	Textiles/leather	710
Crude petroleum	710	Gasoline	705
Fuel oils	694	Plastics/rubber	601
Natural Sands	531	Articles of base metal	588

[1] This group includes coal and petroleum products not elsewhere classified such as liquefied natural gas, coke, asphalt, and other products of coal and petroleum refining, excluding gasoline, aviation fuel, and fuel oil.

Note: 1 metric tonne = 1.1023 short tons

Table 2-1M. Weight of Shipments by Transportation Mode: 2007, 2012, and 2040
Source: U.S. Department of Transportation, Federal Highway Administration, Office of Freight Management and Operations, Freight Analysis Framework, version 3.4, 2014.

Table 2-4M. Top Commodities: 2012
Source: U.S. Department of Transportation, Federal Highway Administration, Office of Freight Management and Operations, Freight Analysis Framework, version 3.4, 2014.

Table 2-5M. Hazardous Materials Shipments by Transportation Mode: 2007

Transportation mode	Value		Metric Tonnes		Tonne-kilometers[1]		Kilometers
	$ Billions	Percent	Millions	Percent	Billions	Percent	Average distance per shipment
All modes, total	**1,448**	**100.0**	**2,024**	**100.0**	**472**	**100.0**	**154**
Single modes, total	**1,371**	**94.6**	**1,916**	**94.6**	**408**	**86.3**	**105**
Truck[2]	837	57.8	1091	53.9	152	32.2	95
For-hire	359	24.8	449	22.2	92	19.6	344
Private	478	33.0	642	31.7	59	12.6	51
Rail	69	4.8	118	5.8	135	28.5	930
Water	69	4.8	136	6.7	54	11.5	616
Air	2	0.1	S	S	S	S	1,762
Pipeline[3]	393	27.2	571	28.2	S	S	S
Multiple modes, total	**71**	**4.9**	**101**	**5.0**	**63**	**13.3**	**1,342**
Truck and rail	7	0.5	11	0.5	15	3.1	1,254
Truck and water	23	1.6	33	1.6	18	3.8	1,625
Rail and water	5	0.4	5	0.3	4	0.9	2,424
Parcel, U.S. Postal Service, or Courier	8	0.5	<1	<0.1	<1	<0.1	1,345
Other multiple modes	28	1.9	51	2.5	25	5.3	375
Unknown and other modes, total	**7**	**0.5**	**8**	**0.4**	**2**	**0.5**	**93**

Key: S = data are not published because of high sampling variability or other reasons.

[1] Tonne-kilometer estimates are based on estimated distances traveled along a modeled transportation network.

[2] Truck as a single mode includes shipments that went by private truck only, for-hire truck only, or a combination of both.

[3] Excludes crude oil shipments.

Notes: 1 metric tonne = 1.1023 short tons; 1 tonne-kilometer = 0.6849 ton miles. Value-of-shipment estimates are reported in $2007 dollars. Numbers and percents may not add to totals due to rounding.

Table 2-6M. Hazardous Materials Shipments by Hazard Class: 2007

Hazard class	Description	Value		Metric Tonnes		Tonne-kilometers[1]		Kilometers
		$ Billions	Percent	Millions	Percent	Billions	Percent	Average distance per shipment
Class 1	Explosives	12	0.8	3	0.1	<1	<0.1	813
Class 2	Gases	132	9.1	206	11.2	118	17.1	56
Class 3	Flammable liquids	1,170	80.8	1,443	78.6	387	56.3	100
Class 4	Flammable solids	4	0.3	17	0.9	12	1.7	341
Class 5	Oxidizers and organic peroxides	7	0.5	12	0.7	15	2.2	398
Class 6	Toxic (poison)	21	1.5	9	0.5	12	1.8	515
Class 7	Radioactive materials	21	1.4	<1	<0.1	<1	<0.1	S
Class 8	Corrosive materials	51	3.6	94	5.1	95	13.8	229
Class 9	Miscellaneous dangerous goods	30	2.1	52	2.8	49	7.1	534
Total		**1,448**	**100.0**	**1,836**	**100.0**	**688**	**100.0**	**106**

Key: S = data are not published because of high sampling variability or other reasons.

[1] Tonne-kilometer estimates are based on estimated distances traveled along a modeled transportation network.

Notes: 1 metric tonne = 1.1023 short tons; 1 tonne-kilometer = 0.6849 ton miles. Numbers and percents may not add to totals due to rounding.

Table 2-5M. Hazardous Materials Shipments by Transportation Mode: 2007
Source: U.S. Department of Transportation, Bureau of Transportation Statistics and U.S. Department of Commerce, Census Bureau, 2007 Commodity Flow Survey, Hazardous Materials (Washington, DC: July 2010), table 1a, available at *www.bts.gov/publications/commodity_flow_survey/* as of September 20, 2013.

Table 2-6M. Hazardous Materials Shipments by Hazard Class: 2007
Source: U.S. Department of Transportation, Bureau of Transportation Statistics and U.S. Department of Commerce, Census Bureau, 2007 Commodity Flow Survey, Hazardous Materials (Washington, DC: July 2010), table 2a, available at *www.bts.gov/publications/commodity_flow_survey/* as of September 30, 2013.

Table 2-7M. Domestic Mode of Exports and Imports by Tonnage and Value: 2007 and 2040

	Millions of Metric Tonnes		Billions of 2007 Dollars	
	2007	2040	2007	2040
Total	**1,839**	**4,922**	**3,193**	**12,134**
Truck[1]	680	2,145	1,968	7,852
Rail	253	868	200	573
Water	137	243	54	94
Air, air & truck[2]	2	9	206	892
Multiple modes & mail[3]	135	462	278	1,250
Pipeline	314	816	137	350
Other & unknown	47	152	220	1,016
No domestic mode[4]	272	227	130	108

[1] Excludes truck moves to and from airports.

[2] Includes truck moves to and from airports

[3] Multiple modes & mail includes U.S. Postal Service, courier shipments, and all intermodal combinations, except air and truck. In this table, oceangoing export and import shipments that move between ports and domestic locations by single modes are classified by the domestic mode rather than by multiple modes & mail.

[4] No domestic mode includes waterborne import shipments of crude petroleum off-loaded directly at the domestic destination (refineries) with no domestic mode of transportation.

Notes: 1 metric tonne = 1.1023 short tons. Numbers may not add to totals due to rounding.

Table 2-9M. Value and Tonnage of U.S. Merchandise Trade with Canada and Mexico: 2000, 2005, 2011, and 2012 (billions of current U.S. dollars and millions of metric tonnes)

	2000		2005		2011		2012	
Mode	**Value**	**Weight**	**Value**	**Weight**	**Value**	**Weight**	**Value**	**Weight**
Truck[1]	429	NA	491	173	626	189	665	178
Rail[1]	94	NA	116	128	152	129	168	140
Air	45	<1	33	<1	46	<1	44	<1
Water	33	176	58	232	108	188	106	178
Pipeline[1]	24	NA	52	78	81	112	77	123
Other[1]	29	NA	39	5	46	12	50	19
Total[1]	**653**	**NA**	**790**	**616**	**1,058**	**612**	**1,110**	**638**

Key: NA = not available.

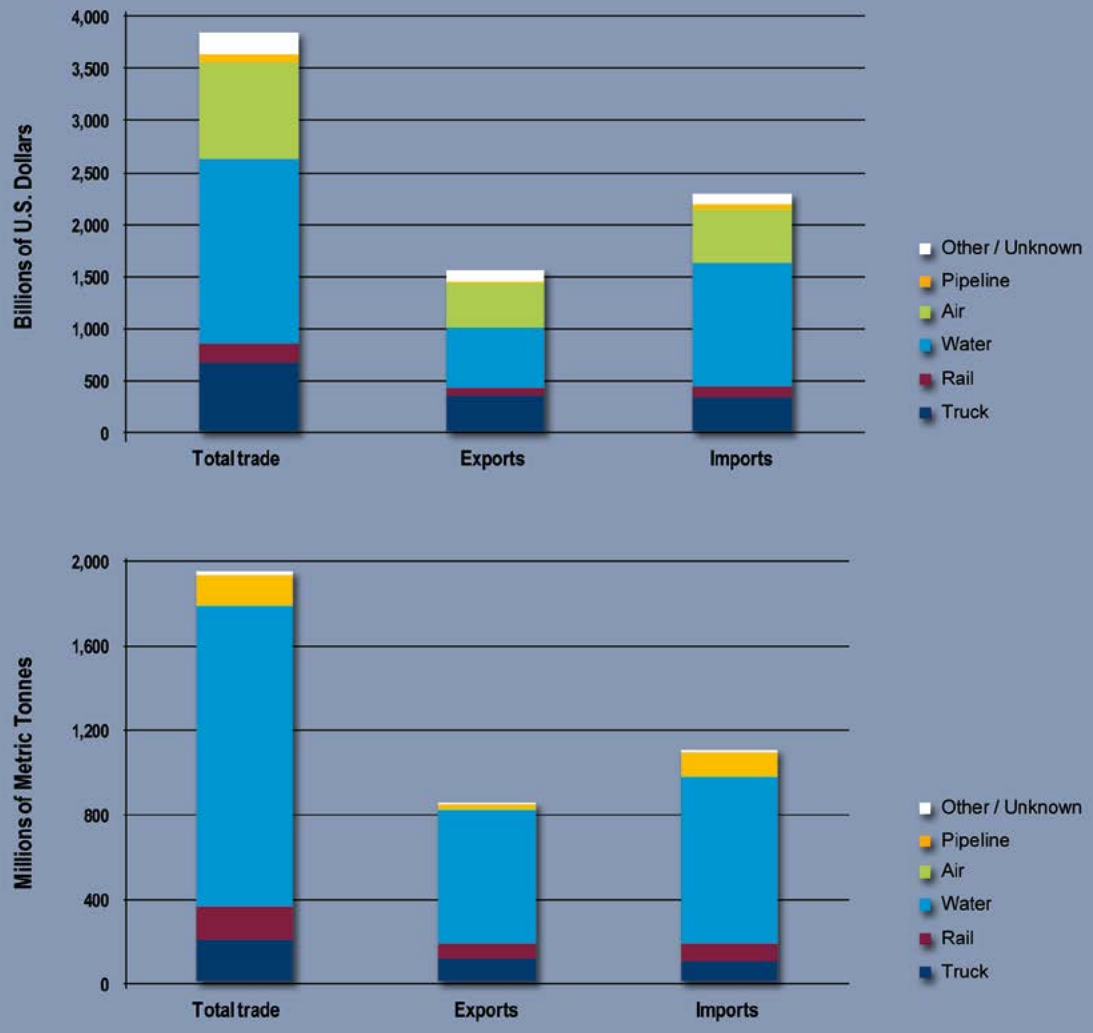
[1] The U.S. Department of Transportation, Bureau of Transportation Statistics estimated the weight of exports for truck, rail, pipeline, and other modes using weight-to-value ratios derived from imported commodities.

Notes: 1 metric tonne = 1.1023 short tons. "Other" includes shipments transported by mail, other and unknown modes, and shipments through Foreign Trade Zones. Totals for the most recent year differ slightly from the Freight Analysis Framework (FAF) due to variations in coverage and FAF conversion of values to constant dollars. Numbers may not add to totals due to rounding.

Table 2-7M. Domestic Mode of Exports and Imports by Tonnage and Value: 2007 and 2040
Source: U.S. Department of Transportation, Federal Highway Administration, Office of Freight Management and Operations, Freight Analysis Framework, version 3.4, 2012.

Table 2-9M. Value and Tonnage of U.S. Merchandise Trade with Canada and Mexico: 2000, 2005, 2011, and 2012
Source: Truck, Rail, Pipeline, and Other: U.S. Department of Transportation, North American Transborder Freight Data, available at *www.bts.gov/transborder* as of October 15, 2013; **Air and Water:** U.S. Department of Commerce, Census Bureau, Foreign Trade Division, FT920 - U.S. Merchandise Trade: Selected Highlights (Washington, DC: annual issues).

Figure 2-5M. U.S. International Merchandise Trade by Transportation Mode: 2012



Notes: 1 metric tonne = 1.1023 short tons. The U.S. Department of Transportation (USDOT), Bureau of Transportation Statistics estimated 2012 weight data for truck, rail, pipeline, and other and unknown modes using value-to-weight ratios derived from imported commodities. Totals for the most recent year differ slightly from the USDOT, Federal Highway Administration, Office of Freight Management and Operations, Freight Analysis Framework (FAF) due to variations in coverage and FAF conversion of values to constant dollars.

Figure 2-5M. U.S. International Merchandise Trade by Transportation Mode: 2012
Source: Total, water and air data: U.S. Department of Commerce, U.S. Census Bureau, Foreign Trade Division, FT920 - U.S. Merchandise Trade: Selected Highlights (Washington, DC: February 2013). **Truck, rail, pipeline, and other and unknown data:** U.S. Department of Transportation, Bureau of Transportation Statistics, North American Transborder Freight Data, available at *www.bts.gov/transborder* as of October 17, 2013.

Table 3-1M. Kilometers of Infrastructure by Transportation Mode: 1990, 2000, and 2008-2011

	1990	2000	2008	2009	2010	2011
Public roads, route miles	6,222,926	6,358,386	6,532,576	NA	NA	6,323,503
National Highway System (NHS)	N	417,439	264,075	NA	NA	263,503
Interstates	72,536	75,109	75,657	NA	NA	75,571
Other NHS	N	184,287	188,418	NA	NA	187,932
Other	N	6,098,989	6,268,500	NA	NA	6,060,000
Strategic Highway Corridor Network (STRAHNET)[1]	N	99,881	100,182	NA	NA	102,811
Interstate	N	75,113	75,657	NA	NA	75,571
Non-Interstate	N	24,765	24,525	NA	NA	27,240
Railroad[2]	283,085	274,400	224,213	223,878	223,006	222,913
Class I	214,337	194,073	151,403	151,144	153,803	153,503
Regional	29,570	33,759	26,859	20,605	16,748	16,664
Local	39,165	46,567	45,951	52,129	52,456	52,745
Inland waterways						
Navigable channels	17,702	17,702	17,702	17,702	17,702	17,702
Great Lakes-St. Lawrence Seaway	3,769	3,769	3,769	3,769	3,769	3,769
Pipelines						
Oil	335,938	284,834	(R) 272,910	(R) 276,429	285,660	287,752
Gas	(R) 2,044,247	(R) 2,216,479	(R) 2,466,668	(R) 2,486,836	2,500,129	2,516,136

Key: N = not applicable; NA = not available; R = revised.

[1] The Strategic Highway Corridor Network (STRAHNET) is the total minimum public highway network necessary to support deployment needs of the U.S. Department of Defense.

[2] Class I railroads have annual carrier operating revenue of $433.2 million or more. Regional (Class II) railroads have annual carrier operating revenue greater than $20.5 million and less than $433.2 million. Local (Class III) railroads have annual carrier operating revenue below $20.5 million.

Note: 1 kilometer = 0.6214 miles.

Table 3-1M. Miles of Infrastructure by Transportation Mode: 1990, 2000, and 2008-2011

Source: Public Roads: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (Washington, DC: annual issues), tables HM-16 and HM-49, available at *www.fhwa.dot.gov/policyinformation/statistics/2011/* as of October 5, 2013. **Rail:** Association of American Railroads, Railroad Facts (Washington, DC: annual issues). **Navigable channels:** U.S. Army Corps of Engineers, A Citizen's Guide to the USACE, available at *www.corpsreform.org/sitepages/downloads/CitzGuideChptr1.pdf* as of October 5, 2013. **Great Lakes-St. Lawrence Seaway:** The St. Lawrence Seaway Development Corporation, The Seaway, available at *www.greatlakes-seaway.com/en/seaway/facts/index.html* as of October 5, 2013. **Pipelines:** U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, Office of Pipeline Safety, Pipeline Statistics, available at *www.phmsa.dot.gov/pipeline/library/data-stats* as of October 5, 2013.

Table 3-7M. Top 25 Airports by Landed Weight of All-Cargo Operations: 2000 and 2009-2012[1]

Airport	2012 Rank	Landed weight (thousands of metric tons)				
		2000	2009	2010	2011	2012
Memphis, TN (Memphis International)	1	5,732	8,586	8,865	9,209	9,310
Anchorage, AK (Ted Stevens Anchorage International)[2]	2	7,333	7,042	8,829	8,062	7,495
Louisville, KY (Louisville International-Standiford Field)	3	3,617	4,662	4,825	4,981	4,955
Miami, FL (Miami International)	4	2,657	2,882	3,132	3,009	3,242
Indianapolis, IN (Indianapolis International)	5	2,616	2,075	2,140	2,183	2,241
Chicago, IL (O'Hare International)	6	1,870	1,587	2,221	1,982	2,066
Los Angeles, CA (Los Angeles International)	7	2,624	1,710	1,794	1,834	1,907
New York, NY (John F. Kennedy International)	8	2,534	1,443	1,780	1,789	1,585
Cincinnati, OH (Cincinnati/Northern Kentucky International)	9	828	512	1,103	1,279	1,446
Fort Worth, TX (Dallas/Fort Worth International)	10	1,534	1,303	1,375	1,390	1,401
Newark, NJ (Newark Liberty International)	11	1,779	1,328	1,351	1,383	1,295
Oakland, CA (Metropolitan Oakland International)	12	1,643	1,216	1,201	1,215	1,200
Ontario, CA (Ontario International)	13	1,107	1,060	1,017	1,050	1,071
Atlanta, GA (William B. Hartsfield International)	14	989	1,159	1,192	1,205	920
Honolulu, HI (Honolulu International)	15	628	926	963	959	897
Philadelphia, PA (Philadelphia International)	16	1,319	1,027	902	884	859
Houston, TX (George Bush Intercontinental)	17	435	711	692	733	711
Phoenix, AZ (Sky Harbor International)	18	835	554	550	562	590
Seattle, WA (Seattle-Tacoma International)	19	961	729	632	616	585
Denver, CO (Denver International)	20	817	566	561	548	546
San Francisco, CA (San Francisco International)	21	1,149	678	592	564	543
Portland, OR (Portland International)	22	800	494	482	515	527
Salt Lake City, UT (Salt Lake City International)	23	681	408	385	388	397
Minneapolis, MN (Minneapolis-St Paul International/Wold-Chamberlain)	24	564	430	465	439	397
San Juan, PR (Luis Munoz Marin International)	25	440	493	400	393	385
Top 25 airports[3]		**47,520**	**43,684**	**47,491**	**47,213**	**46,573**
United States, all airports[4]		**67,806**	**57,327**	**61,263**	**59,961**	**61,189**
Top 25 as % of U.S. total		**70.1**	**76.2**	**77.5**	**78.7**	**76.1**

[1] Dedicated to the exclusive transportation of cargo, all-cargo operations do not include aircraft carrying passengers that also may be carrying cargo. Aircraft landed weight is the certificated maximum gross landed weight of the aircraft as specified by the aircraft manufacturers.

[2] Anchorage includes a large share of all-cargo operations in-transit.

[3] Airport rankings change each year. Totals represent the top 25 airports for each year, not necessarily the top 25 airports listed here for 2012.

[4] Limited to airports with an aggregate landed weight in excess of 100 million pounds (50,000 short tons) annually.

Note: 1 short ton = 2,000 pounds.

Table 3-7M. Top 25 Airports by Landed Weight of All-Cargo Operations: 2000 and 2009-2012
Source: U.S. Department of Transportation, Federal Aviation Administration, Air Carrier Activity Information System (ACAIS) database, All-Cargo Data, available at *www.faa.gov/airports/planning_capacity/passenger_allcargo_stats/passenger/* as of September 11, 2013.

Table 3-8M. Trucks and Truck Kilometers by Average Weight: 1987, 1992, 1997, and 2002[1]

Average weight (kilograms)	1987		1992		1997		2002		Percent Change, 1987 to 2002	
	Number (thousands)	VKT (millions)	Number (thousands)	VKT (millions)	Number (thousands)	VKT (millions)	Number (thousands)	VKT (millions)	Number	VKT
Total	**3,624**	**144,789**	**4,008**	**168,952**	**4,701**	**237,972**	**5,415**	**234,348**	**49.4**	**61.9**
Light-heavy	**1,030**	**17,328**	**1,259**	**22,550**	**1,436**	**31,888**	**1,914**	**42,252**	**85.9**	**143.8**
4,536 to 6,350	525	8,754	694	12,874	819	18,509	1,142	24,439	117.6	179.2
6,351 to 7,257	242	4,407	282	4,791	316	6,359	396	9,508	63.6	115.8
7,258 to 8,845	263	4,168	282	4,884	301	7,020	376	8,306	43.2	99.3
Medium-heavy	**766**	**12,200**	**732**	**13,103**	**729**	**16,301**	**910**	**18,934**	**18.8**	**55.2**
8,846 to 11,793	766	12,200	732	13,103	729	16,301	910	18,934	18.8	55.2
Heavy-heavy	**1,829**	**115,261**	**2,017**	**133,299**	**2,536**	**189,782**	**2,591**	**173,161**	**41.7**	**50.2**
11,794 to 14,969	377	8,707	387	9,163	428	11,414	437	9,407	15.9	8.0
14,969 to 18,144	209	6,619	233	8,505	257	10,612	229	6,066	9.7	-8.4
18,144 to 22,680	**292**	**12,271**	**339**	**15,484**	**400**	**21,046**	**318**	**10,778**	**9.0**	**-12.2**
22,680 to 27,216	188	11,517	227	13,998	311	20,361	327	14,404	73.8	25.1
27,216 to 36,287	723	73,123	781	82,143	1,070	120,250	1,179	124,701	63.1	70.5
36,288 to 45,359	28	2,018	33	2,460	46	3,906	69	4,747	144.3	135.2
45,360 to 58,967	8	708	12	1,181	18	1,691	26	2,528	238.5	257.2
58,967 or more	4	298	5	365	6	502	6	530	43.2	77.9

Key: VKT = vehicle-kilometers traveled.

[1] Excludes trucks with an average weight of 4,536 kilograms (10,000 pounds) or less.

Notes: 1 kilometer = 0.6214 miles; 1 kilogram = 2.2046 pounds. Weight includes the empty weight of the vehicle plus the average weight of the load carried. Numbers may not add to totals due to rounding.

Table 3-8M. Trucks and Truck Kilometers by Average Weight: 1987, 1992, 1997, and 2002

Source: U.S. Department of Commerce, Census Bureau, 2002 Vehicle Inventory and Use Survey: United States, EC02TV-US (Washington, DC: 2004), available at *www.census.gov/prod/ec02/ec02tv-us.pdf* as of September 20, 2013; U.S. Department of Commerce, Census Bureau, 1992 Truck Inventory and Use Survey: United States, TC92-T-52 (Washington, DC: 1995), available at *www.census.gov/prod/ec97/97tv-us.pdf* as of September 20, 2013.

Table 3-11M. Trucks, Truck Kilometers, and Average Distance by Range of Operations and Jurisdictions: 2002

	Number of Trucks (thousands)	Truck Kilometers (millions)	Kilometers per Truck (thousands)
Total	**5,521**	**233,622**	**42**
Off the road	183	3,641	20
50 miles or less	2,942	68,444	23
51 to 100 miles	685	30,836	45
101 to 200 miles	244	18,957	78
201 to 500 miles	232	28,194	122
501 miles or more	293	42,978	147
Not reported	716	40,330	56
Not applicable	226	241	1
Operated in Canada	2	116	69
Operated in Mexico	2	47	30
Operated within the home base state	4,196	136,746	33
Operated in states other than the home base state	496	65,821	133
Not reported	599	30,650	51
Not applicable	226	241	1

Notes: 1 kilometer = 0.6214 miles. Includes trucks registered to companies and individuals in the United States except pickups, minivans, other light vans, and sport utility vehicles. Numbers may not add to totals due to rounding.

Table 3-11M. Trucks, Truck Kilometers, and Average Distance by Range of Operations and Jurisdictions: 2002
Source: U.S. Department of Commerce, Census Bureau, 2002 Vehicle Inventory and Use Survey: United States, EC02TV-US, table 3a (Washington, DC: 2004), available at *www.census.gov/prod/ec02/ec02tv-us.pdf* as of September 20, 2013.

Table 3-12M. Truck Kilometers by Products Carried: 2002

Products carried	Millions of kilometers
Total[1]	**233,622**
No product carried	46,632
Mixed freight	23,590
Tools, nonpowered	12,487
All other packaged foodstuffs	11,953
Tools, powered	10,424
Products not specified	10,232
Mail and courier parcels	7,660
Miscellaneous manufactured products	6,449
Vehicles, including parts	6,186
Wood products	5,730
Bakery and milled grain products	5,717
Articles of base metal	5,301
Machinery	5,190
Paper or paperboard articles	5,052
Meat, seafood, and their preparations	4,918
Nometallic mineral products	4,906
Electronic and other electrical equipment	4,866
Base metal in primary or semifinished forms	4,637
Gravel or crushed stone	4,490
All other agricultural products	4,282
All other waste and scrape (non-EPA manifest)	4,260
Plastic and rubber	3,850
Animal feed and products of animal origin	3,360
Furniture, mattresses, lamps, etc.	3,288
Pulp, newsprint, paper, paperboard	3,115
Fertilizers and fertilizer materials	2,681
Textile, leather, and related articles	2,475
Grains, cereal	2,201
All other chemical products and preparations	2,174
Fuel oils	1,983
All other coal and refined petroleum products	1,886
Logs and other wood in the rough	1,849
Alcoholic beverages	1,808
Natural sands	1,753
Recyclable products	1,484
Basic chemicals	1,410
Gasoline and aviation turbine fuel	1,365
Empty shipping containers	1,278
Printed products	1,231
Animals and fish, live	1,182
Precision instruments and apparatus	1,181
All other transportation equipment	1,024
All other nonmetallic minerals	802
Monumental or building stone	744
Tobacco products	717
Pharmaceutical products	491
Coal	484
Passengers	440
Products, equipment, or materials not elsewhere classified	426
Hazardous waste (EPA manifest)	306
Not applicable[2]	241
Crude petroleum	212
Metallic ores and concentrates	73

[1] Detail lines may not add to total because multiple products/hazardous materials may be carried at the same time.

[2] Vehicles not in use. When the survey respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent.

Notes: 1 kilometer = 0.6214 miles. Includes trucks registered to companies and individuals in the United States except pickups, minivans, other light vans, and sport utility vehicles.

Table 3-12M. Truck Kilometers by Products Carried: 2002

Source: U.S. Department of Commerce, Census Bureau, 2002 Vehicle Inventory and Use Survey: United States, EC02TV-US (Washington, DC: 2004), available at *www.census.gov/prod/ec02/ec02tv-us.pdf* as of September 20, 2013.

Table 5-7M. Fuel Consumption by Transportation Mode: 2007-2011

	2007	2008	2009	2010	2011
Highway[1]					
Gasoline, diesel and other fuels (million liters)	666,929	646,349	636,412	(R) 645,006	638,143
Truck, total	178,724	180,562	167,686	(R) 170,413	160,396
Single-unit 2-axle 6-tire or more truck	61,750	64,888	61,516	(R) 57,141	53,684
Combination truck	116,973	115,673	106,170	(R) 113,273	106,712
Truck (percent of total)	26.8	27.9	26.3	(R) 26.4	25.1
Rail, Class I (in freight service)					
Distillate / diesel fuel (million liters)	(R) 15,471	(R) 14,804	(R) 12,188	(R) 13,320	14,044
Water					
Residual fuel oil (million liters)	23,948	(R) 19,901	(R) 17,370	(R) 19,465	17,260
Distillate / diesel fuel oil (million liters)	7,282	(R) 7,507	(R) 7,241	(R) 7,581	8,075
Gasoline (million liters)	4,625	4,301	4,278	4,417	4,179
Pipeline					
Natural gas (million cubic meters)	17,595	18,348	18,977	(R) 19,089	19,361

Key: R = revised.

[1] Based on a new methodology, FHWA revised its annual vehicle-miles traveled, number of vehicles, and fuel economy data beginning with 2007. Information on the new methodology is available at *www.fhwa.dot.gov/policyinformation/statistics.cfm*. Data in this table should not be compared to those in pre-2011 editions of *Freight Facts and Figures*.

Notes: 1 liter = 0.2642 gallons; 1 cubic meter = 35.3147 cubic feet.

Table 5-9M. Single-Unit Truck Fuel Consumption and Travel: 2007-2011

	2007	2008	2009	2010	2011
Number registered (thousands)	8,117	8,288	8,356	8,217	7,819
Vehicle kilometers (millions)	193,079	204,144	193,445	(R) 178,207	166,584
Fuel consumed (million liters)	61,750	64,888	61,516	(R) 57,141	53,684
Average kilometers traveled per vehicle	23,788	24,631	23,151	(R) 21,687	21,305
Average kilometers traveled per liter	3.1	3.1	3.1	3.1	3.1
Average fuel consumed per vehicle (liters)	7,608	7,827	7,362	(R) 6,953	6,866

Key: R = revised.

Notes: 1 kilometer = 0.6214 miles; 1 liter = 0.2642 gallons. Single-unit trucks have 2-axles and at least 6 tires or a gross vehicle weight rating exceeding 10,000 lbs. Based on a new methodology, FHWA revised its annual vehicle-miles traveled, number of vehicles, and fuel economy data beginning with 2007. Information on the new methodology is available at *www.fhwa.dot.gov/policyinformation/statistics.cfm*. Data in this table should not be compared to those in pre-2011 editions of *Freight Facts and Figures*.

Table 5-7M. Fuel Consumption by Transportation Mode: 2007-2011

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (Washington, DC: annual issues), table VM-1. **Rail:** Association of American Railroads, Railroad Facts (Washington, DC: annual issues), p. 61. **Water:** U.S. Department of Energy, Energy Information Administration, Fuel Oil and Kerosene Sales 2011 (Washington, DC: 2012), tables 2, 4, and similar tables in earlier editions; U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (Washington, DC: annual issues), table MF-24, available at *www.fhwa.dot.gov/policyinformation/statistics/2011/* as of September 20, 2013. **Pipeline:** U.S. Department of Energy, Natural Gas Annual 2011, (Washington, DC: January 2013), table 15 and similar tables in earlier editions.

Table 5-9M. Single-Unit Truck Fuel Consumption and Travel: 2007-2011

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (Washington, DC: annual issues), table VM-1. Available at *www.fhwa.dot.gov/policyinformation/statistics/2011/* as of September 2, 2013.

Table 5-10M. Combination Truck Fuel Consumption and Travel: 2007-2011

	2007	2008	2009	2010	2011
Number registered (thousands)	2,635	2,585	2,617	2,553	2,452
Vehicle kilometers traveled (millions)	296,426	295,826	270,518	(R) 282,892	263,425
Fuel consumed (million liters)	116,973	115,673	106,170	(R) 113,273	106,712
Average kilometers traveled per vehicle	112,481	114,429	103,365	(R) 110,813	107,448
Average kilometers traveled per liter	2.5	2.6	2.5	2.5	2.5
Average fuel consumed per vehicle (liters)	44,387	44,743	40,568	(R) 44,372	43,528

Key: R = revised.

Notes: 1 kilometer = 0.6214 miles; 1 liter = 0.2642 gallons. Based on a new methodology, FHWA revised its annual vehicle-miles traveled, number of vehicles, and fuel economy data beginning with 2007. Information on the new methodology is available at *www.fhwa.dot.gov/policyinformation/statistics.cfm*. Data in this table should not be compared to those in pre-2011 editions of *Freight Facts and Figures*.

Table 5-10M. Combination Truck Fuel Consumption and Travel: 2007-2011

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (Washington, DC: annual issues), table VM-1. Available at *www.fhwa.dot.gov/policyinformation/statistics/2011/* as of September 1, 2013.