APPENDIX A. SELECTED METRIC TABLES



Table 2-1M. Freight Shipments by Weight and Value

| | Motri | c Tonnes (n | villions) | V | alue (\$ billio | anc) |
|--------------------|--------|-------------|-----------|-------|-----------------|--------|
| Mode | 1998 | 2010 | 2020 | 1998 | 2010 | 2020 |
| Total | 13,854 | 19,392 | 23,449 | 9,312 | 18,339 | 29,954 |
| Domestic | 12,232 | 17,073 | 20,445 | 7,876 | 15,152 | 24,075 |
| Air | 8 | 16 | 24 | 545 | 1,308 | 2,246 |
| Highway | 9,470 | 13,544 | 16,447 | 6,656 | 12,746 | 20,241 |
| Rail | 1,773 | 2,293 | 2,625 | 530 | 848 | 1,230 |
| Water | 982 | 1,220 | 1,349 | 146 | 250 | 358 |
| International | 1,621 | 2,319 | 3,004 | 1,436 | 3,187 | 5,879 |
| Air | 8 | 15 | 22 | 530 | 1,182 | 2,259 |
| Highway | 380 | 665 | 970 | 772 | 1,724 | 3,131 |
| Rail | 325 | 470 | 634 | 116 | 248 | 432 |
| Water | 123 | 181 | 236 | 17 | 34 | 57 |
| Other ¹ | 784 | 989 | 1,142 | NA | NA | NA |

Key: NA = Not available.

Other includes international shipments that moved via pipeline or by an unspecified mode. Notes: Domestic shipments by pipeline are excluded. Modal numbers may not add to totals due to rounding.

1 ton = 0.91 metric tonne.

Table 2-3M. U.S. Merchandise Trade with Canada and Mexico by Transportation Mode

| | 199 | 97 | 20 | 000 | 20 | 01 ¹ | 20 | 004 |
|----------|---------------|----------------|---------------|----------------|---------------|-----------------|---------------|----------------|
| | | Weight | | Weight | | Weight | | Weight |
| | Value | (millions of | Value | (millions of | Value | (millions of | Value | (millions of |
| Mode | (\$ billions) | metric tonnes) | (\$ billions) | metric tonnes) | (\$ billions) | metric tonnes) | (\$ billions) | metric tonnes) |
| Truck | 323 | NA | 429 | NA | 395 | 164 | 453 | NA |
| Rail | 70 | NA | 94 | NA | 93 | 88 | 108 | NA |
| Air | 28 | <1 | 45 | <1 | 37 | <1 | 32 | <1 |
| Water | 22 | 173 | 33 | 194 | 29 | 194 | 46 | 222 |
| Pipeline | 14 | NA | 24 | NA | 26 | 72 | 39 | NA |
| Other | 19 | NA | 29 | NA | 31 | 1 | 34 | NA |
| Total | 475 | 479 | 653 | 526 | 612 | 519 | 712 | NA |

Key: NA = not available. ¹2001 data are from the U.S. Department of Transportation, Bureau of Transportation Statistics, *International Trade and Freight Transportation Trends* (Washington, DC: 2003), tables 22 and C-11, available at www.bts.gov as of July 12, 2004. "Other" includes "flyaway aircraft" (i.e., aircraft moving from the manufacturer to a customer and not carrying any freight), vessels moving under their own power, pedestrians carrying freight, and miscellaneous.

Notes: Individual modal totals may not sum to exact totals due to rounding. 1 ton = 0.91 metric tonne. For value, "Other" includes the difference between the total value and the sum of the modes.



TABLE 2-1M. FREIGHT SHIPMENTS BY WEIGHT AND VALUE Source: U.S. Department of Transportation, Federal Highway Administration, Freight Analysis Framework, 2002.

TABLE 2-3M. U.S. MERCHANDISE TRADE WITH CANADA AND MEXICO BY TRANSPORTATION MODE

Source: U.S. Department of Transportation, Bureau of Transportation Statistics; U.S. Department of Commerce, Census Bureau; Statistics Canada; Transport Canada; Instituto Mexicano del Transporte; Instituto Nacional de Estadistica, Geografia e Informatica; Secretaria de Communicaciones y Transportes; North American Trade Statistics Database, tables 6-1c and 6-2c, available at http://nats.sct.gob.mx as of November 2, 2005.



Landed weight

| 2003 Rank | 2000 | | | |
|--------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2000 | 2001 | 2002 | 2003 |
| 1 | 7,333 | 7,055 | 8,159 | 8,171 |
| 2 | 5,732 | 6,228 | 8,007 | 7,947 |
| 3 | 3,617 | 3,653 | 3,812 | 3,785 |
| 4 | 2,657 | 2,771 | 2,879 | 2,938 |
| 5 | 2,624 | 2,657 | 2,756 | 2,830 |
| 6 | 2,534 | 2,307 | 2,642 | 2,664 |
| 7 | 2,616 | 2,862 | 2,121 | 2,133 |
| 8 | 1,870 | 1,825 | 2,011 | 2,065 |
| 9 | 1,779 | 1,628 | 1,595 | 1,664 |
| 10 | 1,643 | 1,487 | 1,584 | 1,537 |
| 11 | 1,534 | 1,402 | 1,343 | 1,344 |
| 12 | 1,319 | 1,318 | 1,330 | 1,238 |
| 13 | 1,107 | 1,172 | 1,310 | 1,213 |
| 14 | 989 | 946 | 1,058 | 1,089 |
| 15 | 828 | 889 | 946 | 1,083 |
| 16 | 1,149 | 918 | 939 | 996 |
| 17 | 628 | 716 | 880 | 923 |
| 18 | 2,026 | 1,310 | 814 | 722 |
| 19 | 961 | 869 | 799 | 712 |
| 20 | 835 | 760 | 787 | 707 |
| 21 | 800 | 732 | 740 | 679 |
| 22 | 817 | 729 | 710 | 678 |
| 23 | 564 | 532 | 564 | 624 |
| 24 | 435 | 420 | 437 | 604 |
| 25 | 440 | 379 | 487 | 591 |
| (F | 46,835 | (R) 45,563 | (R) 48,709 | 48,940 |
| (F | 67,815 | (R) 64,796 | (R) 66,488 | 66,290 |
| | 69.1% | 70.3% | 73.3% | 73.8% |
| | 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 (F | 2 5,732 3 3,617 4 2,657 5 2,624 6 2,534 7 2,616 8 1,870 9 1,779 10 1,643 11 1,534 12 1,319 13 1,107 14 989 15 828 16 1,149 17 628 18 2,026 19 961 20 835 21 800 22 817 23 564 24 435 25 440 (R) 46,835 (R) 67,815 | 2 5,732 6,228 3 3,617 3,653 4 2,657 2,771 5 2,624 2,657 6 2,534 2,307 7 2,616 2,862 8 1,870 1,825 9 1,779 1,628 10 1,643 1,487 11 1,534 1,402 12 1,319 1,318 13 1,107 1,172 14 989 946 15 828 889 16 1,149 918 17 628 716 18 2,026 1,310 19 961 869 20 835 760 21 800 732 22 817 729 23 564 532 24 435 420 25 440 379 (R) 46,835 (R) 4 | 2 5,732 6,228 8,007 3 3,617 3,653 3,812 4 2,657 2,771 2,879 5 2,624 2,657 2,756 6 2,534 2,307 2,642 7 2,616 2,862 2,121 8 1,870 1,825 2,011 9 1,779 1,628 1,595 10 1,643 1,487 1,584 11 1,534 1,402 1,343 12 1,319 1,318 1,330 13 1,107 1,172 1,310 14 989 946 1,058 15 828 889 946 16 1,149 918 939 17 628 716 880 18 2,026 1,310 814 19 961 869 799 20 835 760 787 21 |

Table 2-9M. Top 25 Airports by Landed Weight of All-Cargo Operations'

Key: R = revised, 'All-Cargo operations are operations dedicated to the exclusive transportation of cargo. This does not include aircraft carrying passengers that may also be carrying cargo. Aircraft landed weight is the certificated maximum gross landed weight of the aircraft as specified by the eircraft manufacturers. -Anchorage includes a large proportion of all-cargo operations in-transit. 'Limited to airports with an aggregate landed weight in excess of 45,360 metric tonnes (50,000 short tons) annually.

Note: 1 short ton = 0.91 metric tonne.

TABLE 2-9M. TOP 25 AIRPORTS BY LANDED WEIGHT OF ALL-CARGO OPERATIONS Source: U.S. Department of Transportation, Federal Aviation Administration, ACAIS Database Report F5, CY 2003 and CY 2001, available at http://www.faa.gow/arp/planning/stats as of June 27, 2005.

Table 2-10M. U.S. Hazardous Materials Shipments by Transportation Mode: 2002

| Transportation mode | Valu \$ Billion | ie Percent | Metric to (Millions) | onnes Percent | Tonne-kilo (Billions) | ometers Percent | Average kilometers per shipment |
|----------------------------------------|--------------------|---------------|-------------------------|------------------|--------------------------|--------------------|---------------------------------------|
| TOTAL all modes | 660.2 | 100.0 | 1,988.1 | 100.0 | 477.0 | 100.0 | 219 |
| Single modes, total | 644.5 | 97.6 | 1,958.2 | 98.5 | 455.4 | 95.5 | 169 |
| Truck ¹ | 419.6 | 63.6 | 1,051.9 | 52.9 | 160.8 | 33.7 | 138 |
| For-hire | 189.8 | 28.8 | 407.8 | 20.5 | 95.1 | 19.9 | 459 |
| P rivate ² | 226.7 | 34.3 | 637.0 | 32.0 | 64.4 | 13.5 | 61 |
| Rail | 31.3 | 4.7 | 99.2 | 5.0 | 105.2 | 22.1 | 1,118 |
| Water | 46.9 | 7.1 | 207.0 | 10.4 | 103.1 | 21.6 | S |
| Air | 1.6 | 0.2 | 0.1 | 0.003 | 0.1 | 0.03 | 3,347 |
| P ipeline ³ | 145.0 | 22.0 | 600.0 | 30.2 | S | S | S |
| Multiple modes, total | 9.6 | 1.5 | 17.0 | 0.9 | 18.2 | 3.8 | 1,366 |
| Parcel, U.S. Postal Service or courier | 4.3 | 0.6 | 0.2 | 0.01 | 0.2 | 0.04 | 1,347 |
| Other | 5.4 | 0.8 | 16.8 | 0.8 | 18.1 | 3.8 | 2,206 |
| Unknown and other modes, total | 6.1 | 0.9 | 12.9 | 0.6 | 3.4 | 0.7 | 92 |

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

¹Truck as a single mode includes shipments that went by private truck only, for-hire truck only, or a combination of both.

²Private truck refers to a truck operated by a temporary or permanent employee of an establishment or the buyer/receiver of the shipment.

³Excludes most shipments of crude oil.

Note: 1 ton = 0.91 metric tonne; 1 ton-mile = 1.46 tonne-kilometer.

| | Table 2-11M. U.S. Hazardous Materials Shipments by Hazard Class: 2002 | | | | | | |
|--------------|-------------------------------------------------------------------------------|-------------|---------|-----------|---------|------------------|---------|
| | | Valu | ie | Metric to | onnes | Tonne-kilometers | |
| Hazard Class | Description | \$ Billions | Percent | Millions | Percent | Billions | Percent |
| Class 1 | Explosives | 7.9 | 1.2 | 4.5 | 0.2 | 2.3 | 0.5 |
| Class 2 | Gases | 73.9 | 11.2 | 193.6 | 9.7 | 54.4 | 11.4 |
| Class 3 | Flammable liquids | 490.2 | 74.3 | 1,622.9 | 81.6 | 319.1 | 66.9 |
| Class 4 | Flammable solids | 6.6 | 1.0 | 10.3 | 0.5 | 6.4 | 1.3 |
| Class 5 | Oxidizers and organic peroxides | 5.5 | 0.8 | 11.5 | 0.6 | 6.2 | 1.3 |
| Class 6 | Toxics | 8.3 | 1.3 | 7.7 | 0.4 | 6.2 | 1.3 |
| Class 7 | Radioactive materials | 5.9 | 0.9 | 0.1 | 0.003 | 0.1 | 0.01 |
| Class 8 | Corrosive materials | 38.3 | 5.8 | 82.3 | 4.1 | 52.9 | 11.1 |
| Class 9 | Miscellaneous dangerous goods | 23.6 | 3.6 | 55.4 | 2.8 | 29.4 | 6.2 |
| Total | | 660.2 | 100.0 | 1,988.1 | 100.0 | 477.0 | 100.0 |

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

Note: 1 ton = 0.91 metric tonne; 1 ton-mile = 1.46 tonne-kilometer.

 TABLE 2-10M.
 U.S. HAZARDOUS MATERIALS SHIPMENTS BY TRANSPORTATION MODE: 2002

 Source:
 U.S. Department of Transportation, Bureau of Transportation Statistics and U.S. Department of

Commerce, Census Bureau, 2002 Economic Census, Transportation, 2002 Commodity Flow Survey, Hazardous Materials (Washington, DC: December 2004), table 1a.

TABLE 2-11M. U.S. HAZARDOUS MATERIALS SHIPMENTS BY HAZARD CLASS: 2002

Source: U.S. Department of Transportation, Bureau of Transportation Statistics and U.S. Department of Commerce, Census Bureau, 2002 Economic Census, Transportation, 2002 Commodity Flow Survey, Hazardous Materials (Washington, DC: December 2004), table 2a.



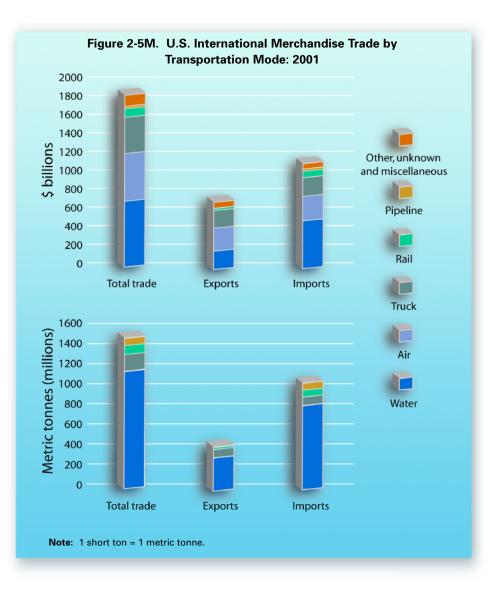






Table 3-1M. Kilometers of Infrastructure by Transportation Mode

| | 1980 | 1990 | 2000 | 2003 | Percent change, 1980-2003 |
|-----------------------------------------------|-----------|---------------|---------------|-----------|---------------------------------|
| Public roads, route kilometers | 6,211,806 | 6,223,214 | 6,358,681 | 6,421,036 | 3.4 |
| National Highway System (NHS) | N | N | 259,409 | 260,393 | N |
| Interstates | 66,176 | 72,540 | 75,113 | 75,267 | 13.7 |
| Other NHS | N | N | 184,296 | 185,126 | N |
| Freight Intermodal connectors ¹ | N | N | N | 2,982 | NA |
| Other | N | N | 6,099,272 | 6,160,644 | N |
| Strategic Highway Corridor Network (STRAHNET) | N | N | 99,885 | 100,705 | N |
| Interstate | N | N | 75,116 | 75,274 | N |
| Non-Interstate | N | N | 24,766 | 25,432 | N |
| Railroad | 294,634* | 283,098 | 274,412 | 226,819 | -23.0 |
| Class I | NA | 214,347 | 194,082 | 159,235 | NA |
| Regional | NA | 29,572 | 33,761 | 25,183 | NA |
| Local | NA | 39,167 | 46,570 | 42,401 | NA |
| Inland waterways | | | | | |
| Navigable channels | 17,703 | 17,703 | 17,703 | 17,703 | 0.0 |
| Great Lakes-St. Lawrence Seaway | 3,769 | 3,769 | 3,769 | 3,769 | 0.0 |
| Pipelines | | | | | |
| Oll | 351,469 | 335,954 | 284,847 | 258,892 | -26.3 |
| Gas | 1,692,666 | (R) 1,913,832 | (R) 2,203,675 | 2,292,028 | 35.4 |

Key: N - not applicable; NA - not available; R -revised. Excludes Class III railroads. Note: 1 mile = 1.61 kilometers.

TABLE 3-1M. KLOWETERS OF INFRASTRUCTURE BY TRANSPORTATION MODE Sources: Public roads: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (Washington, DC: Annual issues).

Freight intermodal connectors: U.S. Department of Transportation, Federal Highway Administration, Office of Planning, National Highway System Intermodal Connectors, available at http://www.fhwa.dot.gowhep10/nhs/intermodalconnectora/index.html as of July 5, 2005.

Rail: Association of American Railroads, Railroad Facts (Washington, DC: various issues).

Navigable channels: U.S. Army Corps of Engineers. Great Lakes-St. Lawrence Seaway: Great Lakes-St. Lawrence Seaway System, "Seaway Facts," available at http://www.greatlakes-seaway.com/en/aboutus/seawayfacts.html as of July 6, 2006.

Oil pipelines: 1980-2000: ENO Transportation Foundation, Transportation in America, 2002 (Washington, DC: 2002). 2003: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, Office of Pipeline Safety, Pipelines Statistics, Internet site http://ops.dot.gov/stats/lpo.htm as of July 5, 2005. Gas Pipelines: American Gas Association, Gas Facts (Arlington, VA: Annual issues).

tota



Table 3-3M. Truck Kilometers by Products Carried: 2002¹

| Products carried | Millions of kilometers |
|------------------------------------------------|------------------------|
| Total ² | 233,632 |
| Animals and fish, live | 1,182 |
| Animal feed and products of animal origin | 3,360 |
| Grains, cereal | 2,202 |
| All other agricultural products | 4,283 |
| | |
| Basic chemicals | 1,410 |
| Fertilizers and fertilizer materials | 2,681 |
| Pharmaceutical products | 491 |
| All other chemical products and preparations | 2,174 |
| Alcoholic beverages | 1,808 |
| Bakery and milled grain products | 5,717 |
| Meat, seafood, and their preparations | 4,918 |
| Tobacco products | 717 |
| All other products foodstuff | 11,954 |
| Logs and other wood in the rough | 1,849 |
| Paper or paperboard articles | 5,053 |
| Printed products | 1,231 |
| Pulp, newsprint, paper, paperboard | 3,115 |
| Wood products | 5,731 |
| Articles of base metal | 5,301 |
| Base metal in primary or semifinished forms | 4,637 |
| Nometallic mineral products | 4,906 |
| Tools, nonpowered | 12,487 |
| Tools, powered | 10,425 |
| Electronic and other electrical equipment | 4,866 |
| Furniture, mattresses, lamps, etc. | 3,288 |
| Machinery | 5,190 |
| Miscellaneous manufactured products | 6,449 |
| Precision instruments and apparatus | 1,181 |
| Textile, leather, and related articles | 2,475 |
| Vehicles, including parts | 6,186 |
| All other transportation equipment | 1,024 |
| Coal | 484 |
| Crude petroleum | 212 |
| Gravel or rushed stone | 4,490 |
| Metallic ores and concentrates | 73 |
| | 73 |
| Monumental or building stone Natural sands | 1,753 |
| | 802 |
| All other nonmetallic minerals | |
| Fuel oils | 1,983 |
| Gasoline and aviation turbine fuel | 1,366 |
| Plastic and rubber | 3,851 |
| All other coal and refined petroleum products | 1,886 |
| Hazardous waste (EPA manifest) | 306 |
| All other waste and scrape (non-EPA manifest) | 4,261 |
| Recyclable products | 1,484 |
| Mail and courier parcels | 7,660 |
| Empty shipping containers | 1,278 |
| Passengers | 440 |
| Mixed freight | 23,591 |
| Products, equipment , or materials not elsewhe | re classified 426 |
| Products not specified | 10,232 |
| Not applicable ³ | 241 |
| No product carried | 46,634 |
| | |

¹Excludes pickups, panels, minivans, sport utilities, and station wagons.

²Detail lines may not add to total because multiple products/hazardous materials may be carried at the same time. ³Vehicles not in use. When the respondent had partial-year ownership of the vehicle,

³Vehicles not in use. When the respondent had partial-year ownership of the vehicle, annual miles were adjusted to reflect miles traveled when not owned by the respondent. **Note:** 1 mile = 1.61 kilometers.

TABLE 3-3M. TRUCK KILOMETERS BY PRODUCTS CARRIED: 2002

Source: U.S. Department of Commerce, Census Bureau, Vehicle Inventory and Use Survey 2002: United States (Washington, DC: 2004), available at http://www.census.gov/svsd/www/02vehinv. html as of July 6, 2005.

Table 3-4M. Number and Vehicle-Kilometers Traveled (VKT) of Trucks by Average Weight (Including Vehicle and Load)¹

| | 19 | 87 | 19 | 92 | 19 | 997 | 20 | 02 | Percent cl | hange, |
|----------------------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|------------|--------|
| | Number | VKT | Number | VKT | Number | VKT | Number | VKT | 1987-2 | 002 |
| Average weight (kilograms) | (thousands) | (millions) | (thousands) | (millions) | (thousands) | (millions) | (thousands) | (millions) | Number | VKT |
| Total | 3,624 | 144,796 | 4,008 | 168,960 | 4,701 | 237,983 | 5,415 | 234,359 | 49 | 62 |
| Light-heavy | 1,030 | 17,329 | 1,259 | 22,551 | 1,436 | 31,890 | 1,914 | 42,254 | 86 | 144 |
| 4,536 to 6,350 | 525 | 8,754 | 694 | 12,875 | 819 | 18,510 | 1,142 | 24,440 | 118 | 179 |
| 6,351 to 7,257 | 242 | 4,407 | 282 | 4,791 | 316 | 6,359 | 396 | 9,508 | 64 | 116 |
| 7,258 to 8,845 | 263 | 4,168 | 282 | 4,885 | 301 | 7,021 | 376 | 8,306 | 43 | 99 |
| Medium-heavy | 766 | 12,200 | 732 | 13,104 | 729 | 16,302 | 910 | 18,935 | 19 | 55 |
| 8,846 to 11,793 | 766 | 12,200 | 732 | 13,104 | 729 | 16,302 | 910 | 18,935 | 19 | 55 |
| Heavy-heavy | 1,829 | 115,266 | 2,017 | 133,305 | 2,536 | 189,791 | 2,591 | 173,169 | 42 | 50 |
| 11,794 to 14,969 | 377 | 8,708 | 387 | 9,163 | 428 | 11,414 | 437 | 9,407 | 16 | 8 |
| 14,969 to 18,144 | 209 | 6,619 | 233 | 8,505 | 257 | 10,612 | 229 | 6,067 | 10 | -8 |
| 18,144 to 22,680 | 292 | 12,271 | 339 | 15,485 | 400 | 21,047 | 318 | 10,779 | 9 | -12 |
| 22,680 to 27,216 | 188 | 11,518 | 227 | 13,999 | 311 | 20,362 | 327 | 14,404 | 74 | 25 |
| 27,216 to 36,287 | 723 | 73,127 | 781 | 82,147 | 1,070 | 120,256 | 1,179 | 124,707 | 63 | 71 |
| 36,288 to 45,359 | 28 | 2,018 | 33 | 2,460 | 46 | 3,906 | 69 | 4,747 | 144 | 135 |
| 45,360 to 58,967 | 8 | 708 | 12 | 1,181 | 18 | 1,691 | 26 | 2,528 | 238 | 257 |
| 58,967 or more | 4 | 298 | 5 | 365 | 6 | 502 | 6 | 530 | 43 | 78 |

¹Excludes trucks with an average weight of 10,000 pounds or less.

Notes: Weight includes the empty weight of the vehicle plus the average weight of the load carried; 1 mile = 1.61 kilometers; 1 pound = 0.45 kilogram.

| | 1980 | 1990 | 2000 | 2003 |
|---------------------------------------------------|---------|---------|---------|---------|
| Highway | | | | |
| Gasoline, diesel and other fuels (million litres) | 435,171 | 494,962 | 615,338 | 642,099 |
| Truck, total | 75,557 | 92,705 | 133,356 | 142,276 |
| Single-unit 2-axle 6-tire or more truck | 26,206 | 31,635 | 36,200 | 40,467 |
| Combination truck | 49,350 | 61,070 | 97,156 | 101,809 |
| Truck (percent of total) | 17.4 | 18.7 | 21.7 | 22.2 |
| Rail, Class I (in freight service) | | | | |
| Distillate / diesel fuel (million litres) | 14,778 | 11,792 | 14,006 | 14,483 |
| Water | | | | |
| Residual fuel oil (million litres) | 33,887 | 23,947 | 24,264 | 14,665 |
| Distillate / diesel fuel oil (million litres) | 5,595 | 7,817 | 8,559 | 8,392 |
| Gasoline (million litres) | 3,982 | 4,921 | 4,255 | 4,192 |
| Pipeline | | | | |
| Natural gas (million cubic meters) | 17,970 | 18,684 | 18,185 | 18,830 |

TABLE 3-4M. NUMBER AND VEHICLE-KILOMETERS TRAVELED (VKT) OF TRUCKS BY AVERAGE WEIGHT

Sources: U.S. Department of Commerce, Census Bureau, 2002 Vehicle Inventory and Use Survey: United States (Washington, DC: 2004), available at http://www.census.gov/svsd/www/02vehinv.html as of July 1, 2005; U.S. Department of Commerce, Census Bureau, 1992 Truck Inventory and Use Survey: United States (Washington, DC: 1995), available at http://www.census.gov/econ/www/viusmain.html as of July 1, 2004.

TABLE 5-7M. FUEL CONSUMPTION BY TRANSPORTATION MODE

Sources: Highway: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* (Washington, DC: Annual issues), table VM-1 and similar tables in earlier editions.

Rail: Association of American Railroads, Railroad Facts (Washington, DC: October 2004), p. 40.

Water: U.S. Department of Energy, Energy Information Administration, *Fuel Oil and Kerosene Sales* (Washington, DC: Annual issues), tables 2, 4, and similar tables in earlier editions.

Pipeline: U.S. Department of Energy, Natural Gas Annual 2003, DOE/EIA-0131(02) (Washington, DC: January 2005), table 15 and similar tables in earlier editions.

Table 5-8M. Single-Unit 2-Axle 6-Tire or More Truck Fuel Consumption and Travel

| | 1980 | 1990 | 2000 | 2003 |
|--------------------------------------------|--------|--------|---------|---------|
| Number registered (thousands) | 4,374 | 4,487 | 5,926 | 5,667 |
| Vehicle kilometers (millions) | 64,073 | 83,527 | 113,459 | 124,824 |
| Fuel consumed (million litres) | 26,206 | 31,635 | 36,200 | 40,466 |
| Average kilometers traveled per vehicle | 14,649 | 18,615 | 19,146 | 22,027 |
| Average kilometers traveled per litre | 2.4 | 2.6 | 3.1 | 3.1 |
| Average fuel consumed per vehicle (litres) | 5,992 | 7,050 | 6,109 | 7,141 |
| | | | | |

Notes: 1 mile = 1.61 kilometers; 1 gallon = 3.8 litres.

Table 5-9M. Combination Truck Fuel Consumption and Travel

| | 1980 | 1990 | 2000 | 2003 |
|--------------------------------------------|---------|---------|---------|---------|
| Number registered (thousands) | 1,417 | 1,709 | 2,097 | 2,245 |
| Vehicle kilometers traveled (millions) | 110,527 | 151,827 | 217,294 | 222,608 |
| Fuel consumed (million litres) | 49,350 | 61,070 | 97,155 | 101,809 |
| Average kilometers traveled per vehicle | 78,008 | 88,845 | 103,640 | 99,153 |
| Average kilometers traveled per gallon | 2.2 | 2.5 | 2.2 | 2.2 |
| Average fuel consumed per vehicle (litres) | 34,831 | 35,737 | 46,339 | 45,347 |

Notes: 1 mile = 1.61 kilometers; 1 gallon = 3.8 litres.



TABLE 5-9M. COMBINATION TRUCK FUEL CONSUMPTION AND TRAVEL Source: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* (Washington, DC: Annual issues).