## Chapter 10 Transportation and the Economy

Summary Statistics from Tables/Figures in this Chapter

| Source |  |  |
| :---: | :---: | ---: |
| Figure 10.2 | Share of gasoline cost attributed to taxes, 2011 |  |
|  | Canada | $31 \%$ |
|  | France | $57 \%$ |
|  | Germany | $58 \%$ |
|  | Japan | $42 \%$ |
|  | United Kingdom | $60 \%$ |
| Table 10.12 | United States | $14 \%$ |
|  | Average price of a new car, 2010 (current dollars) | 24,296 |
|  | Domestic | 23,095 |
| Table 10.13 | Import | 26,808 |
|  | Car operating costs, 2011 | 1,774 |
|  | Variable costs (constant 2011 dollars per 10,000 miles) | 5,587 |
|  | Fixed costs (constant 2011 dollars per 10,000 miles) |  |
| Table 10.17 | Transportation sector share of total employment | $8.3 \%$ |
|  | 2000 | $7.2 \%$ |

The Transportation Services Index (TSI) was created by the U.S. Department of Transportation Bureau of Transportation Statistics (BTS). It is an index that measures the movement of freight and passengers. The Freight TSI consists of:

- for-hire trucking (parcel services are not included);
- freight railroad services (including rail-based intermodal shipments such as containers on flat cars);inland waterway traffic;
- pipeline movements (including principally petroleum and petroleum products and natural gas); and
- air freight.

The index does not include international or coastal steamship movements, private trucking, courier services, or the United States Postal Services.

The index does not include intercity bus, sightseeing services, taxi service, private car usage, or bicycling and other nonmotorized means of transportation.

Figure 10.1. Transportation Services Index, January 1990-January 2012


Source:
U.S. Department of Transportation, Bureau of Transportation Statistics, Transportation Services Index Web site, www.bts.gov/xml/tsi/src. (Additional resources: www.bts.gov.)

Until 2005, gasoline prices in China were, on average, less than the United States. Since then, the United States prices are the lowest of these listed countries. Those in France, Japan, Korea, the United Kingdom, and Germany paid, on average, more than five dollars per gallon in 2010.

Table 10.1
Gasoline Prices ${ }^{\text {a }}$ for Selected Countries, 1990-2011

|  | Current dollars per gallon |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Source:

International Energy Agency, Energy Prices and Taxes, Fourth Quarter, 2011, Paris, France, 2012. (Additional resources: www.iea.org)

Note: Comparisons between prices and price trends in different countries require care. They are of limited validity because of fluctuations in exchange rates; differences in product quality, marketing practices, and market structures; and the extent to which the standard categories of sales are representative of total national sales for a given period.

[^0]Of these selected countries, the United Kingdom had the highest diesel fuel price average in 2011, while the United States had the lowest. Similar to the trend with gasoline prices, China's diesel prices were lower than the United States until 2009.

Table 10.2
Diesel Fuel Prices ${ }^{\text {a for Selected Countries, 1998-2011 }}$

|  | Current dollars per gallon |  |  |  |  |  |  |  | Average annual percentage change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1998 | 2000 | 2003 | 2004 | 2005 | 2007 | 2010 | $2011{ }^{\text {b }}$ | 1998-2011 |
| China | c | c | 1.32 | 1.47 | 1.69 | 2.42 | 3.65 | c | c |
| Japan | 2.25 | 2.85 | 2.76 | 3.08 | 3.45 | 3.82 | 4.86 | 6.20 | 5.2\% |
| Korea | c | 2.05 | 2.47 | 3.00 | 3.98 | 5.17 | 4.92 | 6.11 | c |
| France | 2.71 | 2.95 | 3.39 | 4.16 | 4.81 | 5.66 | 5.74 | 6.95 | 4.8\% |
| United Kingdom | 4.10 | 4.66 | 4.82 | 5.68 | 6.25 | 7.34 | 6.97 | 8.48 | 3.7\% |
| Germany | 2.45 | 2.79 | 3.79 | 4.41 | 5.01 | 6.06 | 6.15 | 7.62 | 5.8\% |
| United States ${ }^{\text {d }}$ | 1.04 | 1.50 | 1.51 | 1.81 | 2.40 | 2.88 | 2.99 | 3.86 | 6.8\% |
|  | Constant 2011 dollars ${ }^{\text {e }}$ per gallon |  |  |  |  |  |  |  | Average annual percentage change |
|  | 1998 | 2000 | 2003 | 2004 | 2005 | 2007 | 2010 | $2011{ }^{\text {b }}$ | 1998-2010 |
| China | c | c | 1.62 | 1.75 | 1.95 | 2.63 | 3.77 | c | c |
| Japan | 3.11 | 3.73 | 3.37 | 3.67 | 3.97 | 4.15 | 5.02 | 6.20 | 3.5\% |
| Korea | c | 2.68 | 3.02 | 3.57 | 4.59 | 5.61 | 5.08 | 6.11 | c |
| France | 3.74 | 3.85 | 4.15 | 4.95 | 5.54 | 6.14 | 5.92 | 6.95 | 3.1\% |
| United Kingdom | 5.66 | 6.08 | 5.89 | 6.77 | 7.20 | 7.97 | 7.19 | 8.48 | 2.0\% |
| Germany | 3.38 | 3.65 | 4.63 | 5.25 | 5.77 | 6.57 | 6.34 | 7.62 | 4.1\% |
| United States ${ }^{\text {d }}$ | 1.44 | 1.95 | 1.84 | 2.15 | 2.76 | 3.13 | 3.09 | 3.86 | 5.1\% |

## Source:

International Energy Agency, Energy Prices and Taxes, Fourth Quarter, 2011, Paris, France, 2012 (Additional resources: www.iea.org)

Note: Comparisons between prices and price trends in different countries require care. They are of limited validity because of fluctuations in exchange rates; differences in product quality, marketing practices, and market structures; and the extent to which the standard categories of sales are representative of total national sales for a given period.

[^1]In 2011 close to sixty percent of the cost of gasoline in France, Germany, and the United Kingdom went for taxes. Of the listed countries, the United States has the lowest percentage of taxes.

Figure 10.2. Gasoline Prices for Selected Countries, 1990 and 2011


## Source:

Table 10.1 and International Energy Agency, Energy Prices \& Taxes, Fourth Quarter, 2011, Paris, France, 2012. (Additional resources: www.iea.org.)

Diesel fuel is taxed heavily in the European countries shown here. The U.S. diesel fuel tax share is the lowest of the listed countries.

Figure 10.3. Diesel Prices for Selected Countries, 1990 and 2011


## Source:

Table 10.2 and International Energy Agency, Energy Prices \& Taxes, Fourth Quarter, 2011, Paris, France, 2012. (Additional resources: www.iea.org.)

Note: Data for Canada are not available.

Though the cost of crude oil certainly influences the price of gasoline, it is not the only factor which determines the price at the pump. Processing cost, transportation cost, and taxes also play a major part of the cost of a gallon of gasoline. The average price of a barrel of crude oil (in constant 2011 dollars) increased by $176 \%$ from 2000 to 2011, while the average price of a gallon of gasoline increased $75 \%$ in this same time period.

## Table 10.3

Prices for a Barrel of Crude Oil and a Gallon of Gasoline, 1978-2011

| Year | Crude oil ${ }^{\text {a }}$ (dollars per barrel) |  | Gasoline ${ }^{\text {b }}$(cents per gallon) |  | Ratio of gasoline to crude oil |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Constant 2011 ${ }^{\text {c }}$ | Current | Constant 2011 ${ }^{\text {c }}$ |  |
| 1978 | 12.5 | 43.0 | 65.2 | 224.9 | 219.8 |
| 1979 | 17.7 | 54.9 | 88.2 | 273.3 | 209.1 |
| 1980 | 28.1 | 76.6 | 122.1 | 333.3 | 182.7 |
| 1981 | 35.2 | 87.2 | 135.3 | 334.8 | 161.3 |
| 1982 | 31.9 | 74.3 | 128.1 | 298.6 | 168.8 |
| 1983 | 29.0 | 65.5 | 122.5 | 276.7 | 177.5 |
| 1984 | 28.6 | 62.0 | 119.8 | 259.4 | 175.7 |
| 1985 | 26.8 | 55.9 | 119.6 | 250.0 | 187.8 |
| 1986 | 14.6 | 29.9 | 93.1 | 191.1 | 268.7 |
| 1987 | 17.9 | 35.4 | 95.7 | 189.5 | 224.5 |
| 1988 | 14.7 | 27.9 | 96.3 | 183.1 | 275.7 |
| 1989 | 18.0 | 32.6 | 106.0 | 192.3 | 247.7 |
| 1990 | 22.2 | 38.2 | 121.7 | 209.4 | 230.0 |
| 1991 | 19.1 | 31.5 | 119.6 | 197.5 | 263.5 |
| 1992 | 18.4 | 29.5 | 119.0 | 190.8 | 271.2 |
| 1993 | 16.4 | 25.5 | 117.3 | 182.6 | 300.2 |
| 1994 | 15.6 | 23.7 | 117.4 | 178.2 | 316.3 |
| 1995 | 17.2 | 25.4 | 120.5 | 177.9 | 293.7 |
| 1996 | 20.7 | 29.7 | 128.8 | 184.7 | 261.2 |
| 1997 | 19.0 | 26.7 | 129.1 | 180.9 | 284.8 |
| 1998 | 12.5 | 17.3 | 111.5 | 153.9 | 374.0 |
| 1999 | 17.5 | 23.6 | 122.1 | 164.9 | 292.9 |
| 2000 | 28.3 | 36.9 | 156.3 | 204.2 | 232.3 |
| 2001 | 23.0 | 29.1 | 153.1 | 194.5 | 280.2 |
| 2002 | 24.1 | 30.1 | 144.1 | 180.2 | 251.1 |
| 2003 | 28.5 | 34.9 | 163.8 | 200.2 | 241.1 |
| 2004 | 37.0 | 44.0 | 192.3 | 229.0 | 218.4 |
| 2005 | 50.2 | 57.9 | 233.8 | 269.3 | 195.5 |
| 2006 | 60.2 | 67.2 | 263.5 | 294.0 | 183.7 |
| 2007 | 67.9 | 73.7 | 284.9 | 309.1 | 176.1 |
| 2008 | 94.7 | 99.0 | 331.7 | 346.5 | 147.0 |
| 2009 | 59.3 | 62.1 | 240.1 | 251.7 | 170.1 |
| 2010 | 76.7 | 79.1 | 283.6 | 292.6 | 155.3 |
| 2011 | 101.9 | 101.9 | 357.7 | 357.7 | 147.4 |
| Average annual percentage change |  |  |  |  |  |
| 1978-2011 | 6.6\% | 2.6\% | 5.3\% | 1.4\% |  |
| 2001-2011 | 16.0\% | 13.4\% | 9.2\% | 6.3\% |  |

## Sources:

Crude oil - U.S. Department of Energy, Energy Information Administration, Monthly Energy Review, March 2012, Washington, DC, Table 9.1.
Gasoline - U.S. Department of Energy, Energy Information Administration, Monthly Energy Review, March 2012, Washington, DC, Table 9.4. (Additional resources: www.eia.doe.gov)

[^2]Until 2005 the price of diesel fuel was lower than gasoline. Since then, the diesel fuel price has been higher than gasoline.

Table 10.4
Retail Prices for Motor Fuel, 1978-2011 (cents per gallon, including tax)

| Year | Diesel fuel ${ }^{\text {a }}$ |  | Average for all gasoline types ${ }^{\text {b }}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Constant |  | Constant |
|  | Current | $2011^{\text {c }}$ | Current | $2011{ }^{\text {c }}$ |
| 1978 | d | d | 65 | 225 |
| 1979 | d | d | 88 | 273 |
| 1980 | 101 | 276 | 122 | 333 |
| 1981 | 118 | 292 | 135 | 335 |
| 1982 | 116 | 270 | 128 | 299 |
| 1983 | 120 | 271 | 123 | 277 |
| 1984 | 122 | 264 | 120 | 259 |
| 1985 | 122 | 255 | 120 | 250 |
| 1986 | 94 | 193 | 93 | 191 |
| 1987 | 96 | 190 | 96 | 189 |
| 1988 | 95 | 181 | 96 | 183 |
| 1989 | 102 | 185 | 106 | 192 |
| 1990 | 107 | 184 | 122 | 209 |
| 1991 | 91 | 150 | 120 | 198 |
| 1992 | 106 | 170 | 119 | 191 |
| 1993 | 98 | 153 | 117 | 183 |
| 1994 | 111 | 169 | 117 | 178 |
| 1995 | 111 | 164 | 121 | 178 |
| 1996 | 124 | 177 | 129 | 185 |
| 1997 | 120 | 168 | 129 | 181 |
| 1998 | 104 | 144 | 112 | 154 |
| 1999 | 112 | 151 | 122 | 165 |
| 2000 | 149 | 195 | 156 | 204 |
| 2001 | 140 | 178 | 153 | 194 |
| 2002 | 132 | 165 | 144 | 180 |
| 2003 | 151 | 184 | 164 | 200 |
| 2004 | 181 | 216 | 192 | 229 |
| 2005 | 240 | 277 | 234 | 269 |
| 2006 | 271 | 302 | 264 | 294 |
| 2007 | 289 | 313 | 285 | 309 |
| 2008 | 380 | 397 | 332 | 347 |
| 2009 | 247 | 259 | 240 | 252 |
| 2010 | 299 | 308 | 284 | 293 |
| 2011 | 384 | 384 | 358 | 358 |
| Average annual percentage change |  |  |  |  |
| 1978-2011 | 4.4\%e | $1.1 \%{ }^{\text {e }}$ | 5.3\% | 1.4\% |
| 2001-2011 | 10.6\% | 8.0\% | 8.9\% | 6.3\% |

## Sources:

Gasoline - U.S. Department of Energy, Energy Information Administration, Monthly Energy Review, March 2012, Washington, DC, Table 9.4.
Diesel - U.S. Department of Energy, Energy Information Administration, International Energy Annual 2004, Washington, DC, June 2004, Table 7.2. 2005-2011 data from EIA Web site. (Additional resources: www.eia.doe.gov)

[^3]The fuel prices shown here are refiner sales prices of transportation fuels to end users, excluding tax. Sales to end users are those made directly to the ultimate consumer, including bulk consumers. Bulk sales to utility, industrial, and commercial accounts previously included in the wholesale category are now counted as sales to end users.

Table 10.5
Refiner Sales Prices for Propane and No. 2 Diesel, 1978-2011
(cents per gallon, excluding tax) (cents per gallon, excluding tax)

| Year | Propane ${ }^{\text {a }}$ |  | No 2. diesel fuel |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Current | $\begin{gathered} \text { Constant } \\ 2011^{\mathrm{b}} \end{gathered}$ | Current | $\begin{gathered} \text { Constant } \\ 2011^{b} \end{gathered}$ |
| 1978 | 33.5 | 115.6 | 37.7 | 130.1 |
| 1979 | 35.7 | 110.6 | 58.5 | 181.3 |
| 1980 | 48.2 | 131.6 | 81.8 | 223.3 |
| 1981 | 56.5 | 139.8 | 99.5 | 246.2 |
| 1982 | 59.2 | 138.0 | 94.2 | 219.6 |
| 1983 | 70.9 | 160.1 | 82.6 | 186.5 |
| 1984 | 73.7 | 159.6 | 82.3 | 178.2 |
| 1985 | 71.7 | 149.9 | 78.9 | 164.9 |
| 1986 | 74.5 | 152.9 | 47.8 | 98.1 |
| 1987 | 70.1 | 138.8 | 55.1 | 109.1 |
| 1988 | 71.4 | 135.8 | 50.0 | 95.1 |
| 1989 | 61.5 | 111.6 | 58.5 | 106.1 |
| 1990 | 74.5 | 128.2 | 72.5 | 124.8 |
| 1991 | 73.0 | 120.6 | 64.8 | 107.0 |
| 1992 | 64.3 | 103.1 | 61.9 | 99.2 |
| 1993 | 67.3 | 104.8 | 60.2 | 93.7 |
| 1994 | 53.0 | 80.4 | 55.4 | 84.1 |
| 1995 | 49.2 | 72.6 | 56.0 | 82.7 |
| 1996 | 60.5 | 86.7 | 68.1 | 97.6 |
| 1997 | 55.2 | 77.4 | 64.2 | 90.0 |
| 1998 | 40.5 | 55.9 | 49.4 | 68.2 |
| 1999 | 45.8 | 61.8 | 58.4 | 78.9 |
| 2000 | 60.3 | 78.8 | 93.5 | 122.1 |
| 2001 | 50.6 | 64.3 | 84.2 | 106.9 |
| 2002 | 41.9 | 52.4 | 76.2 | 95.3 |
| 2003 | 57.7 | 70.5 | 94.4 | 115.4 |
| 2004 | 83.9 | 99.9 | 124.3 | 148.0 |
| 2005 | 108.9 | 125.4 | 178.6 | 205.7 |
| 2006 | 135.8 | 151.5 | 209.6 | 233.9 |
| 2007 | 148.9 | 161.5 | 226.7 | 245.9 |
| 2008 | 189.2 | 197.7 | 315.0 | 329.1 |
| 2009 | 122.0 | 127.9 | 183.4 | 192.3 |
| 2010 | 148.1 | 152.8 | 213.4 | 220.1 |
| 2011 | 170.9 | 170.9 | 311.7 | 311.7 |
| Average annual percentage change |  |  |  |  |
| 1978-2011 | 5.1\% | 1.2\% | 6.6\% | 2.7\% |
| 2001-2011 | 170.9\% | 10.3\% | 14.0\% | 11.3\% |

## Source:

U.S. Department of Energy, Energy Information Administration, Monthly Energy Review, April 2012, Washington, DC, Table 9.7. (Additional resources: www.eia.doe.gov)

[^4]Prices of finished aviation gasoline began climbing in 1999 and peaked in 2008. In 2011 the prices showed an increase over 2010. Kerosene-type jet fuel rose to its highest price in 2011-a sharp jump from 2010.

Table 10.6

## Refiner Sales Prices for Aviation Gasoline and Jet Fuel, 1978-2011 (cents per gallon, excluding tax)

| Year | Finished aviation gasoline |  | Kerosene-type jet fuel |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Current | Constant 2011 ${ }^{\text {a }}$ | Current | Constant 2011 ${ }^{\text {a }}$ |
| 1978 | 51.6 | 178.0 | 38.7 | 133.5 |
| 1979 | 68.9 | 213.5 | 54.7 | 169.5 |
| 1980 | 108.4 | 295.9 | 86.6 | 236.4 |
| 1981 | 130.3 | 322.4 | 102.4 | 253.4 |
| 1982 | 131.2 | 305.8 | 96.3 | 224.5 |
| 1983 | 125.5 | 283.4 | 87.8 | 198.3 |
| 1984 | 123.4 | 267.2 | 84.2 | 182.3 |
| 1985 | 120.1 | 251.1 | 79.6 | 166.4 |
| 1986 | 101.1 | 207.5 | 52.9 | 108.6 |
| 1987 | 90.7 | 179.6 | 54.3 | 107.5 |
| 1988 | 89.1 | 169.4 | 51.3 | 97.5 |
| 1989 | 99.5 | 180.5 | 59.2 | 107.4 |
| 1990 | 112.0 | 192.8 | 76.6 | 131.8 |
| 1991 | 104.7 | 172.9 | 65.2 | 107.7 |
| 1992 | 102.7 | 164.7 | 61.0 | 97.8 |
| 1993 | 99.0 | 154.1 | 58.0 | 90.3 |
| 1994 | 95.7 | 145.3 | 53.4 | 81.1 |
| 1995 | 100.5 | 148.3 | 54.0 | 79.7 |
| 1996 | 111.6 | 160.0 | 65.1 | 93.3 |
| 1997 | 112.8 | 158.1 | 61.3 | 85.9 |
| 1998 | 97.5 | 134.5 | 45.2 | 62.4 |
| 1999 | 105.9 | 143.0 | 54.3 | 73.3 |
| 2000 | 130.6 | 170.6 | 89.9 | 117.4 |
| 2001 | 132.3 | 168.0 | 77.5 | 98.4 |
| 2002 | 128.8 | 161.0 | 72.1 | 90.2 |
| 2003 | 149.3 | 182.5 | 87.2 | 106.6 |
| 2004 | 181.9 | 216.6 | 120.7 | 143.7 |
| 2005 | 223.1 | 257.0 | 173.5 | 199.8 |
| 2006 | 268.2 | 299.2 | 199.8 | 222.9 |
| 2007 | 284.9 | 309.1 | 216.5 | 234.9 |
| 2008 | 327.3 | 341.9 | 305.2 | 318.9 |
| 2009 | 244.2 | 256.0 | 170.4 | 178.7 |
| 2010 | 302.8 | 312.4 | 220.1 | 227.0 |
| 2011 | 308.3 | 308.3 | 308.8 | 308.8 |
| Average annual percentage change |  |  |  |  |
| 1978-2011 | 5.6\% | 1.7\% | 6.5\% | 2.6\% |
| 2001-2011 | 8.8\% | 6.3\% | 14.8\% | 12.1\% |

## Source:

U.S. Department of Energy, Energy Information Administration, Monthly Energy Review, April 2012, Washington, DC, Table 9.7. (Additional resources: www.eia.doe.gov)
${ }^{\text {a }}$ Adjusted by the Consumer Price Inflation Index.

At the end of 2010, only four states offered tax exemptions to encourage the use of gasohol for transportation purposes. This list is quite short compared to the 30 states which offered gasohol tax exemptions twenty-five years ago.

Table 10.7
State Tax Exemptions for Gasohol, 2010

| State | Exemption <br> (cents/gallon of gasohol) |
| :--- | :---: |
| Hawaii | 1.0 |
| Iowa | 2.0 |
| Maine | 6.5 |
| Montana | 4.0 |

## Source:

U.S. Department of Transportation, Federal Highway Administration, Highway Statistics 2010, August 2011, Washington, DC, Table MF-121T. (Additional resources: www.fhwa.dot.gov)

Table 10.8
Federal Excise Taxes on Motor Fuels, 2010

| Fuel | Cents per gallon |
| :--- | :---: |
| Gasoline $^{\mathrm{a}}$ | 18.4 |
| Diesel and kerosene $_{\text {Gasohol }^{\mathrm{b}}}$ | 24.4 |
| Other special fuels |  |
| CNG | 18.4 |
| LNG | 18.4 |
| LPG | 18.3 |

## Source:

U.S. Department of Transportation, Federal Highway Administration, Highway Statistics 2010, August 2011, Washington, DC, Table FE-21B. (Additional resources: www.fhwa.dot.gov)

[^5]${ }^{\mathrm{b}}$ Includes benzol, benzene, naphtha, and other liquids used as a motor fuel.

These states have laws and incentives for alternative fuels production and/or use.

Table 10.9
Federal and State Alternative Fuel Incentives, 2012

| State | Biodiesel | Ethanol | Natural Gas | Liquefied petroleum gas (LPG) | Electric vehicles (EVs) | Neighborhood electric vehicles (NEVs) | Hydrogen fuel cells | Aftermarket conversions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Federal | 36 | 35 | 26 | 25 | 23 | 3 | 27 | 6 |
| Alabama | 7 | 5 | 4 | 4 | 4 | 0 | 3 | 0 |
| Alaska | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 2 |
| Arizona | 7 | 6 | 14 | 14 | 15 | 1 | 11 | 0 |
| Arkansas | 5 | 4 | 8 | 4 | 2 | 0 | 2 | 2 |
| California | 15 | 12 | 25 | 17 | 36 | 3 | 24 | 7 |
| Colorado | 7 | 8 | 9 | 6 | 5 | 1 | 6 | 3 |
| Connecticut | 5 | 4 | 7 | 4 | 6 | 0 | 6 | 3 |
| Delaware | 3 | 3 | 3 | 5 | 3 | 1 | 2 | 0 |
| Dist. of Columbia | 1 | 2 | 4 | 3 | 5 | 0 | 3 | 0 |
| Florida | 9 | 10 | 2 | 2 | 6 | 1 | 5 | 0 |
| Georgia | 6 | 6 | 5 | 3 | 5 | 0 | 3 | 2 |
| Hawaii | 8 | 10 | 4 | 4 | 9 | 1 | 5 | 0 |
| Idaho | 3 | 1 | 3 | 3 | 1 | 1 | 2 | 0 |
| Illinois | 17 | 18 | 7 | 7 | 12 | 1 | 7 | 4 |
| Indiana | 9 | 14 | 9 | 6 | 7 | 1 | 5 | 3 |
| Iowa | 12 | 16 | 6 | 5 | 7 | 1 | 5 | 1 |
| Kansas | 7 | 12 | 5 | 4 | 1 | 1 | 1 | 1 |
| Kentucky | 7 | 7 | 6 | 4 | 2 | 1 | 1 | 0 |
| Louisiana | 7 | 10 | 10 | 5 | 4 | 1 | 1 | 2 |
| Maine | 7 | 7 | 4 | 4 | 5 | 3 | 3 | 0 |
| Maryland | 2 | 3 | 1 | 1 | 8 | 2 | 0 | 0 |
| Massachusetts | 5 | 4 | 4 | 2 | 4 | 0 | 2 | 0 |
| Michigan | 6 | 6 | 4 | 4 | 9 | 0 | 5 | 0 |
| Minnesota | 6 | 11 | 3 | 2 | 4 | 2 | 3 | 0 |
| Mississippi | 4 | 4 | 8 | 5 | 2 | 0 | 2 | 1 |
| Missouri | 7 | 6 | 7 | 6 | 4 | 1 | 5 | 0 |
| Montana | 8 | 7 | 4 | 4 | 2 | 2 | 2 | 1 |
| Nebraska | 5 | 7 | 4 | 3 | 2 | 1 | 1 | 1 |
| Nevada | 6 | 5 | 10 | 10 | 10 | 1 | 9 | 0 |
| New Hampshire | 6 | 2 | 2 | 2 | 2 | 1 | 2 | 0 |
| New Jersey | 2 | 2 | 3 | 3 | 5 | 2 | 2 | 0 |
| New Mexico | 11 | 8 | 6 | 5 | 6 | 1 | 7 | 1 |
| New York | 8 | 9 | 9 | 6 | 7 | 1 | 7 | 0 |
| North Carolina | 14 | 13 | 6 | 6 | 11 | 0 | 5 | 1 |
| North Dakota | 14 | 10 | 3 | 2 | 1 | 1 | 3 | 0 |
| Ohio | 5 | 6 | 5 | 5 | 4 | 0 | 5 | 1 |
| Oklahoma | 9 | 10 | 12 | 9 | 9 | 1 | 8 | 4 |
| Oregon | 9 | 10 | 7 | 6 | 10 | 1 | 5 | 2 |
| Pennsylvania | 6 | 6 | 6 | 5 | 4 | 0 | 4 | 1 |
| Rhode Island | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 0 |
| South Carolina | 10 | 8 | 3 | 4 | 3 | 1 | 7 | 0 |
| South Dakota | 7 | 8 | 1 | 2 | 0 | 0 | 0 | 0 |
| Tennessee | 12 | 11 | 5 | 5 | 6 | 1 | 2 | 0 |
| Texas | 5 | 6 | 14 | 9 | 10 | 1 | 5 | 3 |
| Utah | 1 | 1 | 10 | 6 | 6 | 0 | 2 | 2 |
| Vermont | 5 | 5 | 7 | 5 | 5 | 2 | 5 | 1 |
| Virginia | 17 | 14 | 16 | 13 | 19 | 2 | 13 | 5 |
| Washington | 18 | 15 | 9 | 8 | 19 | 1 | 6 | 4 |
| West Virginia | 5 | 5 | 7 | 7 | 7 | 1 | 7 | 2 |
| Wisconsin | 13 | 10 | 7 | 8 | 6 | 1 | 7 | 0 |
| Wyoming | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Totals | 408 | 407 | 350 | 284 | 346 | 50 | 256 | 66 |

Source:
U.S. Department of Energy, Energy Efficiency and Renewable Energy, Alternative Fuels Data Center. Data downloaded April 2012. (Additional resources: www.eere.energy.gov/afdc/laws/matrix/tech)

Table 10.10
Federal and State Advanced Technology Incentives, 2012
\(\left.$$
\begin{array}{lcccc}\hline & \begin{array}{c}\text { Hybrid electric vehicles (HEV) or } \\
\text { plug-in hybrid vehicles (PHEVs) }\end{array}
$$ \& \begin{array}{c}Fuel economy or <br>

efficiency\end{array} \& Idle reduction\end{array}\right]\)|  |
| :--- |
| State |

## Source:

U.S. Department of Energy, Energy Efficiency and Renewable Energy, Alternative Fuels Data Center. Data downloaded April 2012. (Additional resources: www.eere.energy.gov/afdc/laws/matrix/tech)
${ }^{a}$ Includes Clean Fuel Initiatives and Pollution Prevention.

The average price of a new car in $2010(\$ 24,296)$ was very close to the average price in $1916(\$ 21,621)$ when adjusted for inflation. Average new car prices were at their lowest in 1940 (\$12,093). Since 1914 the highest average price was in the year $1998(\$ 27,242)$.

Table 10.11
Average Price of a New Car, 1913-2010

| Year | 2010 <br> Constant dollars | Year | 2010 <br> Constant dollars | Year | 2010 <br> Constant dollars | Year | $2010$ <br> Constant dollars |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1913 | \$31,516 | 1938 | \$13,926 | 1963 | \$19,395 | 1988 | \$25,680 |
| 1914 | \$32,615 | 1939 | \$13,009 | 1964 | \$19,492 | 1989 | \$25,272 |
| 1915 | \$27,118 | 1940 | \$12,093 | 1965 | \$19,123 | 1990 | \$25,096 |
| 1916 | \$21,621 | 1941 | \$12,250 | 1966 | \$19,108 | 1991 | \$24,775 |
| 1917 | \$19,972 | 1942 | \$12,407 | 1967 | \$20,996 | 1992 | \$25,390 |
| 1918 | \$18,323 | 1943 | \$12,564 | 1968 | \$19,784 | 1993 | \$25,459 |
| 1919 | \$18,140 | 1944 | \$12,721 | 1969 | \$19,784 | 1994 | \$26,342 |
| 1920 | \$17,957 | 1945 | \$12,878 | 1970 | \$19,906 | 1995 | \$25,696 |
| 1921 | \$19,056 | 1946 | \$13,034 | 1971 | \$20,147 | 1996 | \$26,096 |
| 1922 | \$20,156 | 1947 | \$13,191 | 1972 | \$20,235 | 1997 | \$26,134 |
| 1923 | \$18,323 | 1948 | \$13,815 | 1973 | \$19,900 | 1998 | \$27,242 |
| 1924 | \$16,491 | 1949 | \$16,099 | 1974 | \$19,638 | 1999 | \$27,106 |
| 1925 | \$16,308 | 1950 | \$16,498 | 1975 | \$20,063 | 2000 | \$26,086 |
| 1926 | \$16,124 | 1951 | \$16,779 | 1976 | \$20,763 | 2001 | \$26,440 |
| 1927 | \$15,941 | 1952 | \$18,175 | 1977 | \$20,920 | 2002 | \$25,756 |
| 1928 | \$15,758 | 1953 | \$18,198 | 1978 | \$21,334 | 2003 | \$25,652 |
| 1929 | \$15,575 | 1954 | \$17,868 | 1979 | \$20,565 | 2004 | \$24,977 |
| 1930 | \$15,391 | 1955 | \$17,770 | 1980 | \$20,043 | 2005 | \$25,699 |
| 1931 | \$17,224 | 1956 | \$18,282 | 1981 | \$21,374 | 2006 | \$25,563 |
| 1932 | \$19,056 | 1957 | \$20,310 | 1982 | \$22,348 | 2007 | \$25,127 |
| 1933 | \$17,957 | 1958 | \$21,485 | 1983 | \$23,220 | 2008 | \$23,741 |
| 1934 | \$16,857 | 1959 | \$21,530 | 1984 | \$23,873 | 2009 | \$23,658 |
| 1935 | \$15,025 | 1960 | \$20,719 | 1985 | \$23,990 | 2010 | \$24,296 |
| 1936 | \$13,193 | 1961 | \$19,728 | 1986 | \$25,172 |  |  |
| 1937 | \$13,559 | 1962 | \$19,612 | 1987 | \$25,695 |  |  |

## Sources:

Compiled by Jacob Ward, Vehicle Technologies Program, U.S. Department of Energy, from the following sources. Raff, D.M.G. \& Trajtenberg, M. (1995), "Quality-Adjusted Prices for the American Automobile Industry: 1906-1940," National Bureau of Economic Research, Inc.; Gordon, R.J. (1990), The Measurement of Durable Goods Prices, National Bureau of Economic Research, Inc.; and U.S. Department of Commerce, Bureau of Economic Analysis (2012), National Income and Product Accounts.

Note: Estimations were used for years 1941-1946.

In current dollars, import cars, on average, were less expensive than domestic cars until 1982. Since then, import prices have almost tripled, while domestic prices have more than doubled (current dollars).

Table 10.12
Average Price of a New Car (Domestic and Import), 1970-2010

| Year | Domestic ${ }^{\text {a }}$ |  | Import |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current dollars | Constant 2010 dollars ${ }^{\text {b }}$ | Current dollars | Constant 2010 dollars ${ }^{\text {b }}$ | Current dollars | Constant 2010 dollars ${ }^{\text {b }}$ |
| 1970 | 3,708 | 20,839 | 2,648 | 14,882 | 3,542 | 19,906 |
| 1975 | 5,084 | 20,606 | 4,384 | 17,769 | 4,950 | 20,063 |
| 1976 | 5,506 | 21,100 | 4,923 | 18,866 | 5,418 | 20,763 |
| 1977 | 5,985 | 21,536 | 5,072 | 18,250 | 5,814 | 20,920 |
| 1978 | 6,478 | 21,665 | 5,934 | 19,846 | 6,379 | 21,334 |
| 1979 | 6,889 | 20,691 | 6,704 | 20,136 | 6,847 | 20,565 |
| 1980 | 7,609 | 20,136 | 7,482 | 19,800 | 7,574 | 20,043 |
| 1981 | 8,912 | 21,379 | 8,896 | 21,340 | 8,910 | 21,374 |
| 1982 | 9,865 | 22,291 | 9,957 | 22,499 | 9,890 | 22,348 |
| 1983 | 10,516 | 23,023 | 10,868 | 23,794 | 10,606 | 23,220 |
| 1984 | 11,079 | 23,252 | 12,336 | 25,890 | 11,375 | 23,873 |
| 1985 | 11,589 | 23,486 | 12,853 | 26,047 | 11,838 | 23,990 |
| 1986 | 12,319 | 24,509 | 13,670 | 27,197 | 12,652 | 25,172 |
| 1987 | 12,922 | 24,804 | 14,470 | 27,775 | 13,386 | 25,695 |
| 1988 | 13,418 | 24,733 | 15,221 | 28,056 | 13,932 | 25,680 |
| 1989 | 13,936 | 24,507 | 15,510 | 27,275 | 14,371 | 25,272 |
| 1990 | 14,489 | 24,173 | 16,640 | 27,762 | 15,042 | 25,096 |
| 1991 | 15,192 | 24,322 | 16,327 | 26,140 | 15,475 | 24,775 |
| 1992 | 15,644 | 24,314 | 18,593 | 28,897 | 16,336 | 25,390 |
| 1993 | 15,976 | 24,108 | 20,261 | 30,575 | 16,871 | 25,459 |
| 1994 | 16,930 | 24,910 | 21,989 | 32,354 | 17,903 | 26,342 |
| 1995 | 16,864 | 24,129 | 23,202 | 33,198 | 17,959 | 25,696 |
| 1996 | 17,468 | 24,277 | 26,205 | 36,419 | 18,777 | 26,096 |
| 1997 | 17,600 | 23,911 | 27,509 | 37,374 | 19,236 | 26,134 |
| 1998 | 18,479 | 24,721 | 29,614 | 39,617 | 20,364 | 27,242 |
| 1999 | 19,032 | 24,910 | 27,542 | 36,049 | 20,710 | 27,106 |
| 2000 | 19,586 | 24,802 | 25,965 | 32,879 | 21,041 | 26,644 |
| 2001 | 20,042 | 24,677 | 25,787 | 31,750 | 21,474 | 26,440 |
| 2002 | 18,897 | 22,905 | 27,440 | 33,260 | 21,249 | 25,756 |
| 2003 | 19,971 | 23,667 | 26,081 | 30,908 | 21,646 | 25,652 |
| 2004 | 18,910 | 21,829 | 28,409 | 32,794 | 21,646 | 24,987 |
| 2005 | 21,593 | 24,109 | 26,621 | 29,723 | 23,017 | 25,699 |
| 2006 | 22,166 | 23,975 | 27,062 | 29,271 | 23,634 | 25,563 |
| 2007 | 22,284 | 23,435 | 27,465 | 28,884 | 23,892 | 25,127 |
| 2008 | 22,204 | 22,488 | 25,903 | 26,234 | 23,441 | 23,741 |
| 2009 | 22,148 | 22,511 | 25,499 | 25,917 | 23,276 | 23,658 |
| 2010 | 23,095 | 23,095 | 26,808 | 26,808 | 24,296 | 24,296 |
| Average annual percentage change |  |  |  |  |  |  |
| 1970-2010 | 4.7\% | 0.3\% | 6.0\% | 1.4\% | 4.9\% | 0.5\% |
| 2000-2010 | 1.7\% | -0.7\% | 0.3\% | -2.0\% | 1.4\% | -0.9\% |

## Source:

U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts, underlying detail estimates for Motor Vehicle Output, Washington, DC, 2012. (Additional resources: www.bea.gov)

[^6]The total cost of operating a car is the sum of the fixed cost (depreciation, insurance, finance charge, and license fee) and the variable cost (gas and oil, tires, and maintenance), which is related to the amount of travel. The gas and oil share of total cost was $16.2 \%$ in 2011.

Table 10.13
Car Operating Cost per Mile, 1985-2011

| Model year | Constant 2011 dollars per 10,000 miles ${ }^{\text {a }}$ |  |  | Total cost per mile ${ }^{\text {b }}$ (constant 2011 cents $^{\text {a }}$ ) | Percentage gas and oil of total cost |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Variable cost | Fixed cost | Total cost |  |  |
| 1985 | 1,551 | 4,309 | 5,860 | 58.60 | 19.9\% |
| 1986 | 1,338 | 4,735 | 6,073 | 60.73 | 15.1\% |
| 1987 | 1,327 | 4,610 | 5,936 | 59.36 | 14.7\% |
| 1988 | 1,502 | 5,761 | 7,263 | 72.63 | 13.6\% |
| 1989 | 1,451 | 5,297 | 6,748 | 67.48 | 14.2\% |
| 1990 | 1,446 | 5,604 | 7,049 | 70.49 | 13.2\% |
| 1991 | 1,602 | 5,889 | 7,491 | 74.91 | 14.6\% |
| 1992 | 1,443 | 6,067 | 7,510 | 75.10 | 12.6\% |
| 1993 | 1,432 | 5,794 | 7,226 | 72.26 | 12.7\% |
| 1994 | 1,381 | 5,822 | 7,204 | 72.04 | 11.8\% |
| 1995 | 1,417 | 5,911 | 7,328 | 73.28 | 11.7\% |
| 1996 | 1,376 | 6,011 | 7,388 | 73.88 | 10.9\% |
| 1997 | 1,514 | 6,094 | 7,607 | 76.07 | 12.2\% |
| 1998 | 1,477 | 6,249 | 7,725 | 77.25 | 11.1\% |
| 1999 | 1,431 | 6,292 | 7,723 | 77.23 | 9.8\% |
| 2000 | 1,594 | 6,171 | 7,764 | 77.64 | 11.6\% |
| 2001 | 1,727 | 5,869 | 7,597 | 75.97 | 13.2\% |
| 2002 | 1,475 | 6,094 | 7,570 | 75.70 | 9.7\% |
| 2003 | 1,601 | 5,971 | 7,572 | 75.72 | 11.6\% |
| 2004 | 1,500 | 6,708 | 8,208 | 82.08 | 9.4\% |
| 2005 | 1,624 | 6,233 | 7,857 | 78.57 | 12.0\% |
| 2006 | 1,685 | 5,228 | 6,913 | 69.13 | 15.3\% |
| 2007 | 1,573 | 5,169 | 6,742 | 67.42 | 14.3\% |
| 2008 | 1,772 | 5,641 | 7,413 | 74.13 | 16.4\% |
| 2009 | 1,617 | 5,794 | 7,411 | 74.11 | 14.3\% |
| 2010 | 1,726 | 5,900 | 7,625 | 76.25 | 15.4\% |
| 2011 | 1,774 | 5,857 | 7,631 | 76.31 | 16.2\% |
| Average annual percentage change |  |  |  |  |  |
| 1985-2011 | 0.5\% | 1.2\% | 1.0\% | 1.0\% |  |

## Source:

Ward's Communications, Motor Vehicle Facts and Figures 2011, Southfield, Michigan, 2011, p. 65, and annual. Original data from AAA "Your Driving Costs." (Additional resources: newsroom.aaa.com)

[^7]While the previous table shows costs per mile, this table presents costs per year for fixed costs associated with car operation. For 2011 model year cars, the fixed cost is over $\$ 16$ per day.

Table 10.14
Fixed Car Operating Costs per Year, 1975-2011
(constant 2011 dollars) ${ }^{\text {a }}$

| Model year | Insurance ${ }^{\text {b }}$ | License, registration \& taxes | Depreciation | Finance charge | Total | Average fixed cost per day |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1975 | 1,601 | 125 | 3,232 | c | 4,959 | 13.59 |
| 1977 | 1,923 | 275 | 3,144 | c | 5,341 | 14.62 |
| 1978 | 1,463 | 255 | 3,084 | c | 4,802 | 13.14 |
| 1979 | 1,496 | 279 | 2,919 | c | 5,611 | 15.37 |
| 1980 | 1,338 | 224 | 2,834 | c | 5,550 | 15.21 |
| 1981 | 1,262 | 218 | 3,185 | c | 5,877 | 16.11 |
| 1982 | 1,047 | 126 | 3,161 | c | 5,590 | 15.31 |
| 1983 | 1,061 | 219 | 2,931 | c | 5,407 | 14.82 |
| 1984 | 1,093 | 229 | 2,613 | c | 5,079 | 13.92 |
| 1985 | 972 | 230 | 2,638 | 1,116 | 4,957 | 13.59 |
| 1986 | 1,045 | 267 | 2,709 | 1,307 | 5,328 | 14.59 |
| 1987 | 1,059 | 253 | 2,958 | 1,042 | 5,313 | 14.55 |
| 1988 | 1,090 | 264 | 3,392 | 1,074 | 5,820 | 15.95 |
| 1989 | 1,170 | 261 | 3,661 | 1,067 | 6,159 | 16.87 |
| 1990 | 1,158 | 284 | 4,056 | 1,170 | 6,669 | 18.28 |
| 1991 | 1,169 | 277 | 4,135 | 439 | 6,021 | 16.50 |
| 1992 | 1,262 | 279 | 4,356 | 1,276 | 7,173 | 19.66 |
| 1993 | 1,158 | 277 | 4,405 | 1,043 | 6,884 | 18.87 |
| 1994 | 1,167 | 294 | 4,462 | 984 | 6,908 | 18.93 |
| 1995 | 1,156 | 300 | 4,536 | 1,013 | 7,004 | 19.19 |
| 1996 | 1,211 | 308 | 4,545 | 1,029 | 7,094 | 19.44 |
| 1997 | 1,187 | 303 | 4,586 | 1,076 | 7,152 | 19.59 |
| 1998 | 1,242 | 312 | 4,642 | 1,122 | 7,318 | 20.05 |
| 1999 | 1,310 | 305 | 4,639 | 1,118 | 7,372 | 20.20 |
| 2000 | 1,267 | 291 | 4,561 | 1,109 | 7,229 | 19.80 |
| 2001 | 1,259 | 264 | 4,506 | 1,100 | 7,129 | 19.53 |
| 2002 | 1,268 | 251 | 4,653 | 1,035 | 7,207 | 19.74 |
| 2003 | 1,347 | 251 | 4,570 | 910 | 7,077 | 19.39 |
| 2004 | 1,909 | 494 | 4,504 | 882 | 7,789 | 21.34 |
| 2005 | 1,483 | 448 | 4,468 | 851 | 7,250 | 19.87 |
| 2006 | 1,033 | 597 | 3,785 | 799 | 6,214 | 17.03 |
| 2007 | 1,069 | 584 | 3,680 | 795 | 6,127 | 16.78 |
| 2008 | 985 | 579 | 3,470 | 792 | 5,826 | 15.96 |
| 2009 | 1,023 | 594 | 3,629 | 817 | 6,063 | 16.61 |
| 2010 | 1,064 | 603 | 3,666 | 831 | 6,165 | 16.89 |
| 2011 | 968 | 595 | 3,728 | 823 | 6,114 | 16.75 |
| Average annual percentage change |  |  |  |  |  |  |
| 1975-2011 | -1.4\% | 4.4\% | 0.4\% | c | 0.6\% | 0.6\% |
| 2001-2011 | -2.6\% | 8.5\% | -1.9\% | -2.9\% | -1.5\% | -1.5\% |

## Source:

Ward's Communications, Motor Vehicle Facts and Figures 2011, Southfield, Michigan, 2011, p. 65 and annual. Original data from AAA "Your Driving Costs." (Additional resources: newsroom.aaa.com)

[^8]Table 10.15
Personal Consumption Expenditures, 1970-2011 (billion dollars)

| Year | Personal consumption expenditures |  | Transportation personal consumption expenditures |  | Transportation PCE as a percent of PCE |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | $\begin{gathered} \text { Constant } \\ 2011^{\mathrm{a}} \end{gathered}$ | Current | $\begin{gathered} \hline \text { Constant } \\ 2011^{\mathrm{a}} \end{gathered}$ |  |
| 1970 | 648.30 | 3,019.6 | 80.8 | 376.3 | 12.5\% |
| 1980 | 1,755.80 | 4,164.8 | 241.7 | 573.3 | 13.8\% |
| 1990 | 3,835.50 | 6,016.9 | 455.7 | 714.9 | 11.9\% |
| 2000 | 6,830.40 | 8,727.2 | 814.3 | 1,040.4 | 11.9\% |
| 2001 | 7,148.80 | 8,932.2 | 829.6 | 1,036.6 | 11.6\% |
| 2002 | 7,439.20 | 9,147.0 | 832.6 | 1,023.7 | 11.2\% |
| 2003 | 7,804.10 | 9,398.0 | 873.7 | 1,052.1 | 11.2\% |
| 2004 | 8,270.60 | 9,687.0 | 927.0 | 1,085.8 | 11.2\% |
| 2005 | 8,803.50 | 9,979.7 | 998.0 | 1,131.3 | 11.3\% |
| 2006 | 9,301.00 | 10,213.7 | 1,027.5 | 1,128.3 | 11.0\% |
| 2007 | 9,772.30 | 10,428.6 | 1,071.7 | 1,143.7 | 11.0\% |
| 2008 | 10,035.50 | 10,477.2 | 1,055.7 | 1,102.2 | 10.5\% |
| 2009 | 9,866.10 | 10,192.7 | 903.0 | 932.9 | 9.2\% |
| 2010 | 10,245.50 | 10,464.2 | 989.7 | 1,010.8 | 9.7\% |
| 2011 | 10,726.00 | 10,726.0 | 1,111.9 | 1,111.9 | 10.4\% |

## Source:

U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts, Table 2.3.5, http://www.bea.gov

Note: Transportation PCE includes the following categories: transportation, motor vehicles and parts, and gasoline and oil.

Table 10.16
Consumer Price Indices, 1970-2011
( $1970=1.000$ )

|  | Consumer <br> price index | Transportation <br> consumer price <br> index $^{\mathrm{b}}$ | New car <br> consumer price <br> index | Used car <br> consumer price <br> index | Gross national <br> product index |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1970 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 1980 | 2.124 | 2.216 | 1.667 | 1.997 | 2.702 |
| 1990 | 3.369 | 3.213 | 2.286 | 3.769 | 5.585 |
| 2000 | 4.438 | 4.088 | 2.689 | 4.994 | 9.562 |
| 2005 | 5.034 | 4.637 | 2.597 | 4.468 | 12.176 |
| 2007 | 5.344 | 4.925 | 2.566 | 4.351 | 13.546 |
| 2008 | 5.549 | 5.215 | 2.527 | 4.293 | 13.842 |
| 2009 | 5.529 | 4.780 | 2.554 | 4.070 | 13.488 |
| 2010 | 5.620 | 5.157 | 2.599 | 4.587 | 14.086 |
| 2011 | 5.797 | 5.663 | 2.672 | 4.776 | 14.683 |

## Sources:

Bureau of Labor Statistics, Consumer Price Index Table 1A for 2011, and annual.
(Additional resources: www.bls.gov)
GNP - U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts,
Table 1.7.5. (Additional resources: www.bea.gov)

[^9]The data below were summarized from the Bureau of Labor Statistics (BLS) Current Employment Statistics Survey data using the North American Industry Classification System (NAICS). Transportation-related employment was $7.2 \%$ of total employment in 2011.

Table 10.17
Transportation-related Employment, 2000 and 2011 ${ }^{\text {a }}$ (thousands)

|  |  |  | Percent <br> change |
| :--- | ---: | ---: | ---: |
| Truck transportation (includes drivers) | $1,400.8$ | $1,298.9$ | $-7.6 \%$ |
| Transit and ground transportation | 372.1 | 436.1 | $17.2 \%$ |
| Air transportation | 614.4 | 456.0 | $-25.8 \%$ |
| Rail transportation | 231.7 | 228.8 | $-1.3 \%$ |
| Water transportation | 56.0 | 62.5 | $11.6 \%$ |
| Pipeline transportation | 46.0 | 42.9 | $-6.7 \%$ |
| Motor vehicle and parts - retail | $1,846.9$ | $1,687.9$ | $-8.6 \%$ |
| Motor vehicles and parts - wholesale | 355.7 | 312.2 | $-12.2 \%$ |
| Gasoline stations - retail | 935.7 | 828.0 | $-11.5 \%$ |
| Automotive repair and maintenance | 888.1 | 813.1 | $-8.4 \%$ |
| Automotive equipment rental and leasing | 208.3 | 165.2 | $-20.7 \%$ |
| Manufacturing | $2,143.9$ | $1,434.1$ | $-33.1 \%$ |
| $\quad$ Cars and light trucks | 237.4 | 134.8 | $-43.2 \%$ |
| $\quad$ Heavy-duty trucks | 54.0 | 24.8 | $-54.1 \%$ |
| $\quad$ Motor vehicle bodies and trailers | 182.7 | 114.0 | $-37.6 \%$ |
| $\quad$ Motor vehicle parts | 839.5 | 443.3 | $-47.2 \%$ |
| Aerospace products and parts | 516.7 | 487.6 | $-5.6 \%$ |
| Railroad rolling stock \& other transportation equipment | 72.7 | 56.6 | $-22.1 \%$ |
| $\quad$ Ship \& boat building | 154.1 | 120.6 | $-21.7 \%$ |
| $\quad$ Tires | 86.8 | 52.4 | $-39.6 \%$ |
| Oil and gas pipeline construction | 72.2 | 110.4 | $52.9 \%$ |
| Highway street and bridge construction | 340.1 | 282.2 | $-17.0 \%$ |
| Scenic \& sightseeing | 27.5 | 28.6 | $4.0 \%$ |
| Support activities for transportation | 537.4 | 563.9 | $4.9 \%$ |
| Couriers and messengers | 605.0 | 528.5 | $-12.6 \%$ |
| Travel arrangement and reservation services | 298.6 | 190.3 | $-36.3 \%$ |
| Total transportation-related employment | $\mathbf{1 0 , 9 8 5 . 4}$ | $\mathbf{9 , 4 6 9 . 6}$ | $\mathbf{- 1 3 . 8 \%}$ |
| Total nonfarm employment | $131,785.0$ | $131,359.0$ | $-0.3 \%$ |
| Transportation-related to total employment | $8.3 \%$ | $7.2 \%$ |  |

## Source:

Bureau of Labor Statistics Web site query system: www.bls.gov/ces/cesnaics.htm, (Additional resources: www.bls.gov)

[^10]The total number of employees involved in the manufacture of motor vehicles decreased by over $56 \%$ from 1990 to 2011 and by more than $67 \%$ for those involved in the manufacture of motor vehicle parts. Beginning in 2008, the share of production workers fell below $80 \%$ for manufacturers of both vehicles and parts.

Table 10.18
U.S. Employment for Motor Vehicles and Motor Vehicle Parts Manufacturing, 1990-2011 ${ }^{\text {a }}$

|  |  |  | Share of production workers |
| :--- | :---: | :---: | :---: |
| ro total employees |  |  |  |

## Source:

Tabulated from the U.S. Department of Labor, Bureau of Labor Statistics, www.bls.gov, May 2012.
${ }^{a}$ Not seasonally adjusted.


[^0]:    ${ }^{a}$ Prices represent the retail prices (including taxes) for regular unleaded gasoline, except for France and the United Kingdom which are premium unleaded gasoline.
    b $3^{\text {rd }}$ quarter 2011.
    ${ }^{c}$ Data are not available.
    ${ }^{\mathrm{d}}$ Premium gasoline.
    ${ }^{\mathrm{e}}$ These estimates are international comparisons only and do not necessarily correspond to gasoline price estimates in other sections of the book.
    ${ }^{f}$ Adjusted by the U.S. Consumer Price Inflation Index.

[^1]:    ${ }^{a}$ Prices represent the retail prices (including taxes) for car diesel fuel for non-commercial (household) use.
    ${ }^{\mathrm{b}} 3^{\text {rd }}$ quarter 2011.
    ${ }^{\mathrm{c}}$ Data are not available.
    ${ }^{d}$ These estimates are for international comparisons only and do not necessarily correspond to gasoline price estimates in other sections of the book.
    ${ }^{\mathrm{e}}$ Adjusted by the U.S. Consumer Price Inflation Index.

[^2]:    ${ }^{\text {a }}$ Refiner acquisition cost of composite (domestic and imported) crude oil.
    ${ }^{\mathrm{b}}$ Average for all types. These prices were collected from a sample of service stations in 85 urban areas selected to represent all urban consumers. Urban consumers make up about $80 \%$ of the total U.S. population.
    ${ }^{\text {c }}$ Adjusted by the Consumer Price Inflation Index.

[^3]:    ${ }^{\text {a }}$ 1980-1993: Collected from a survey of prices on January 1 of the current year. 1994-on: Annual average.
    ${ }^{\mathrm{b}}$ These prices were collected from a sample of service stations in 85 urban areas selected to represent all urban consumers. Urban consumers make up about 80 percent of the total U.S. population.
    ${ }^{c}$ Adjusted by the Consumer Price Inflation Index.
    ${ }^{\mathrm{d}}$ Data are not available.
    ${ }^{\mathrm{e}}$ Average annual percentage change is from the earliest year possible to 2011.

[^4]:    ${ }^{\text {a }}$ Consumer grade.
    ${ }^{\mathrm{b}}$ Adjusted by the Consumer Price Inflation Index.

[^5]:    ${ }^{\text {a }}$ All gasohol blends are taxed at the same rate.

[^6]:    ${ }^{a}$ Includes transplants.
    ${ }^{\mathrm{b}}$ Adjusted by the Consumer Price Inflation Index.

[^7]:    ${ }^{\text {a }}$ Adjusted by the Consumer Price Inflation Index.
    ${ }^{\mathrm{b}}$ Based on 10,000 miles per year.

[^8]:    ${ }^{\text {a }}$ Adjusted by the Consumer Price Inflation Index.
    ${ }^{\mathrm{b}}$ Fire \& Theft: $\$ 50$ deductible 1975 through 1977; $\$ 100$ deductible 1978 through 1992; $\$ 250$ deductible for 1993 - on. Collision: $\$ 100$ deductible through 1977; $\$ 250$ deductible 1978 through 1992; $\$ 500$ deductible for 1993 - on. Property Damage \& Liability: coverage $=\$ 100,000 / \$ 300,000$.
    ${ }^{\mathrm{c}}$ Data are not available.

[^9]:    ${ }^{\text {a }}$ Adjusted by the GNP price deflator.
    ${ }^{\mathrm{b}}$ Transportation Consumer Price Index includes new and used cars, gasoline, car insurance rates, intracity mass transit, intracity bus fare, and airline fares.

[^10]:    ${ }^{\text {a }}$ Not seasonally adjusted.

