## Energy Statistics

## Consumption

Two common ways to account for energy consumption are by end-use sector and by fuel source.

| Consumption and Ranking by |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| Sector | United States <br> (Trillion Btu) | Nebraska <br> (Trillion Btu) | Rank |
| Residential | $18,402.5$ | 140.2 | 35 |
| Commercial | $14,918.1$ | 121.8 | 33 |
| Industrial | $35,797.4$ | 170.5 | 42 |
| Transportation | $24,945.6$ | 184.6 | 37 |
| Total Consumption | $94,063.6$ | 617.1 | 38 |

Consumption and Ranking by Source, 1997

| Sector | United States <br> (Trillion Btu) | Nebraska <br> (Trillion Btu) | Rank |
| :---: | :---: | :---: | :---: |
| Coal | $20,986.4$ | 193.3 | 32 |
| Natural Gas | $22,691.1$ | 131.9 | 39 |
| Petroleum | $36,382.5$ | 239.4 | 38 |
| Electricity | $10,712.9$ | 77.1 | 36 |

Consumption and Ranking Per Capita, 1997

| United States <br> (Million Btu) | Nebraska <br> (Million Btu) | Rank |
| :---: | :---: | :---: |
| 351.2 | 372.3 | 22 |

Total Consumption by Fuel Type

| Year | Coal | Natural Gas | Petroleum | (Trillion Btu) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Nuclear Electric Power | HydroElectric Power | Biofuels | Net Interstate Flow of Electricity | Total Energy |
| 1994 | 160.3 | 124.8 | 215.7 | 67.7 | 13.5 | 5.7 | - 27.6 | 558.7 |
| 1995 | 179.5 | 133.7 | 218.5 | 79.8 | 14.7 | 7.0 | - 51.0 | 580.3 |
| 1996 | 179.0 | 133.8 | 235.6 | 100.5 | 16.6 | 7.6 | -67.3 | 604.4 |
| 1997 | 193.3 | 131.9 | 239.4 | 98.5 | 17.2 | 5.4 | -67.3 | 617.1 |
| surce: $S$ | State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999. DOE/EIA-0214(97). Pages 9, 17 and 18. |  |  |  |  |  |  |  |

Consumption by End-Use Sector

|  |  | (Trillion Btu) |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Transportation | Total |
| 1994 | 130.1 | 116.8 | 154.1 | 157.7 | 558.7 |
| 1995 | 133.0 | 120.1 | 159.6 | 167.6 | 580.3 |
| 1996 | 140.5 | 123.2 | 160.1 | 180.6 | 604.4 |
| 1997 | 140.2 | 121.8 | 170.5 | 184.6 | 617.1 |

Consumption by Fuel Type and Sector, 1997

| (Trillion Btu) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fuel Type | Residential | Commercial | Industrial | Transportation | Electric Utilities |
| Coal | 0.7 | 1.3 | 5.7 | - | 185.6 |
| Natural Gas | 47.0 | 33.8 | 44.4 | 4.1 | 2.7 |
| Petroleum | 5.6 | 2.1 | 50.7 | 180.5 | . 4 |
| Nuclear Power | - | - | - | - | 98.5 |
| Hydroelectric Power | - | - | - | - | 17.2 |
| Biofuels | 2.9 | 0.3 | 0.6 | 1.6 | - |
| Electric Sales | 27.3 | 27.3 | 22.4 | - | - |
| Net Energy | 83.6 | 65.0 | 123.9 | 184.6 | - |
| Electrical System Losses | 56.6 | 56.8 | 46.6 | - | - |

## Expenditures

Expenditures are shown as a comparison between the United States and Nebraska for each fuel type. On page 40, expenditures are listed for years 1994 to 1997 by fuel type and by end-use sector and then by fuel type and end-use sector.

Nebraska Compared to the United States

|  | Measurement | United States | Nebraska | Rank |
| :--- | :--- | :---: | :---: | :---: |
| Overall: |  |  |  |  |
| Prices | Dollars per Million Btu | 8.28 | 7.93 | 32 |
| Expenditures | Million Dollars | 515,800 | 3,372 | 35 |
| Expenditures Per Person | Dollars | 1,962 | 2,057 | 21 |
| Motor Gasoline: |  |  |  |  |
| Prices | Dollars per Million Btu | 9.14 | 9.15 | 32 |
| Expenditures | Million Dollars | 136,475 | 92.8 | 37 |
| Expenditures Per Person | Dollars | 519 | 566 | 21 |
| Petroleum: |  |  |  |  |
| Prices |  | 7.23 | 7.91 | 15 |
| Expenditures | Dollars per Million Btu | 237,491 | 1,730 | 35 |

Natural Gas:

| Prices | Dollars per Million Btu | 3.81 | 3.89 | 35 |
| :--- | :--- | :---: | :---: | :---: |
| Expenditures | Million Dollars | 74,150 | 506 | 34 |
|  |  |  |  |  |
| Coal: | Dollars per Million Btu | 1.37 | 0.78 | 50 |
| Prices | Million Dollars | 26,911 | 139 | 35 |
| Expenditures |  |  |  |  |
|  |  |  |  |  |
| Electricity: | Dollars per Million Btu | 20.30 | 15.82 | 40 |
| Prices | Million Dollars | 205,944 | 1,128 | 36 |

Total Expenditures by Fuel Type
(Million Dollars)

| Year | Petroleum | Natural Gas | Coal | Nuclear Fuel | Biofuels | Electric Primary Total | Utility Fuel | Electricity Purchased By End-Users | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1994 | 1,676.5 | 509.1 | 128.8 | 49.1 | 4.8 | 2368.3 | -172.9 | 1,090.5 | 3,232.0 |
| 1995 | 1,729.6 | 506.1 | 139.2 | 54.3 | 5.3 | 2,434.5 | -190.2 | 1,127.9 | 3,372.2 |
| $\begin{aligned} & 1996 \\ & 1997 \end{aligned}$ |  |  |  | Information | ion not ava | ailable at th | time |  |  |

Expenditures by End-Use Sector

|  |  | (Million Dollars) |  |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Transportation | Utilities | Electric |
| Total |  |  |  |  |  |  |
| 1994 | 724.3 | 593.3 | 619.7 | $1,348.6$ | 172.9 | $3,285.9$ |
| 1995 | 738.9 | 591.3 | 615.0 | $1,427.0$ | 190.2 | $3,372.2$ |
| 1996 |  | Information not available at this time |  |  |  |  |
| 1997 |  |  |  |  |  |  |

Expenditures by Fuel Type and Consuming Sector, 1995

|  | (Million Nominal Dollars) |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | ---: | ---: |
| Fuel Type | Residential | Commercial | Industrial | Transportation | Electric <br> Utilities | Total <br> Expenditures |
| Coal | 0.2 | 0.2 | 9.7 | - | 129.2 | 139.3 |
| Natural Gas | 217.6 | 158.6 | 124.9 | $*$ | 5.1 | 506.2 |
| Petroleum | 32.5 | 11.6 | 256.9 | $1,429.0$ | 1.5 | $1,729.5$ |
| Biofuels | 4.5 | - | 0.6 | - | 0.1 | 5.2 |
| Nuclear Power | - | - | - | - | 54.3 | 54.3 |
| Other | - | - | - | - | 0.1 | 0.1 |
| Total Primary | 254.8 | 170.4 | 392.1 | 1427.0 | 190.2 | $2,434.5$ |
| Less Utility | - | - | - | - | -190.2 | -190.2 |
| Electric Expenditures | 484.1 | 120.9 | 222.9 | - | - | $1,127.9$ |
| Total Expenditures | 738.9 | 591.3 | 615.0 | $1,427.0$ | - | $3,372.2$ |

[^0]
## Consumption, Price and Expenditures by End-Use Sector

This section contains information on energy consumption, prices and expenditures for the residential, commercial, industrial, transportation and electric utility sectors. For the residential, commercial, and industrial sectors, a net total (less electrical system losses) is provided to indicate the energy actually consumed by these sectors. In addition, energy consumed in the generation, transmission, and distribution of electricity is allocated to each sector based on the electricity consumed by the sector. Thus, total consumption represents the energy consumed by the sector as well as that used to provide electricity to the sector.

## Residential

The residential sector is considered to consist of all private residences, whether occupied or vacant, owned or rented, including single-family homes, multifamily housing units and mobile homes. Secondary homes, such as summer homes, are also included. Institutional housing, such as school dormitories, hospitals and military barracks, are generally included in the commercial sector. Energy consumed by the residential sector is primarily for space heating, water heating, air conditioning, refrigeration, cooking, clothes drying and lighting. Motor vehicle fuel used by household members is included in the transportation sector.

## Consumption

(Trillion Btu)

| (Trillion Btu) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Coal | Natural Gas | Heating Oil | Kerosene | Propane | Electricity | Net Energy | Electric System Losses | Total Energy |
| 1994 | 0.1 | 43.7 | 0.9 | * | 4.0 | 25.2 | 77.5 | 52.5 | 130.1 |
| 1995 | 0.1 | 44.1 | 0.6 | * | 4.2 | 25.9 | 79.0 | 54.0 | 133.0 |
| 1996 | * | 49.3 | 0.7 | * | 5.0 | 26.4 | 85.6 | 55.0 | 140.6 |
| 1997 | 0.7 | 47.0 | 0.6 | * | 5.0 | 27.3 | 83.6 | 56.6 | 140.2 |

Source: State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999 . DOE/EIA-0214(97). Page 192. Note: $*$ Represents a value less than 0.05 .

Prices

| (Dollars/Million Btu) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Coal | Natural Gas | $\begin{gathered} \text { Heating } \\ \text { Oil } \end{gathered}$ | Kerosene | Propane | Biofuels | Electricity | Average |
| 1994 | 2.47 | 5.09 | 5.56 | 6.84 | 6.78 | 3.56 | 18.48 | 9.34 |
| 1995 | 2.44 | 4.93 | 5.92 | 7.28 | 6.84 | 3.56 | 18.68 | 9.35 |
| 1996 | Information not available at this time |  |  |  |  |  |  |  |

1997
Source: State Energy Price and Expenditure Report, 1995. Energy Information Administration, U.S. Department of Energy. Washington, D.C. December, 1997. DOE/EIA-0376(97). Page 184. Note: This represents the most current information available.
xpenditures


## Commercial

The commercial sector, as defined economically, consists of business establishments that are not engaged in transportation, manufacturing or in other types of industrial activity (agriculture, mining or construction). Commercial establishments include hotels, motels, restaurants, wholesale businesses, retail stores, laundries and other service enterprises; religious and nonprofit organizations; health, social and educational institutions; and federal, state and local governments. Street lights, pumps, bridges and public services are included if the establishment operating them is considered commercial. Fuel consumed by motor vehicles used for commercial purposes is included in the transportation sector. Common uses of energy by the commercial sector include space heating, water heating, refrigeration, air conditioning and cooking.

Consumption
(Trillion Btu)

| Year | Coal | Natural Gas | Petroleum | Electricity | $\begin{gathered} \text { Net } \\ \text { Energy } \end{gathered}$ | Electric System Losses | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1994 | 0.1 | 38.4 | 3.1 | 24.4 | 66.3 | 50.9 | 117.2 |
| 1995 | 0.1 | 39.2 | 1.9 | 25.6 | 67.3 | 53.3 | 120.5 |
| 1996 | * | 41.1 | 2.4 | 25.8 | 69.8 | 53.7 | 123.5 |
| 1997 | 1.3 | 33.8 | 2.1 | 27.3 | 65.0 | 56.8 | 121.8 |

Source: State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999. DOE/EIA-0214(97). Page 193. Note: $*$ represents a value less than 0.05 .

Prices

| (Dollars/Million Btu) |  |  |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: |
| Year | Coal | Natural Gas | Petroleum | Electricity | Total |
| 1994 | 1.52 | 4.30 | 5.26 | 16.88 | 9.00 |
| 1995 | 1.52 | 4.04 | 6.11 | 16.46 | 8.85 |
| 1996 |  | Information not available at this time |  |  |  |
| 1997 |  |  |  |  |  | December, 1997. DOE/EIA-0376(97). Page 185. Note: This represents the most current information available.


| Expenditures |  |  |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: |
| Year | Coal | Natural Gas | Petroleum | Electricity | Total |
| 1994 | 0.2 | 165.1 | 16.1 | 411.8 | 593.3 |
| 1995 | 0.2 | 158.3 | 11.6 | 420.9 | 591.3 |
| 1996 |  | Information not available at this time |  |  |  |
| 1997 |  |  |  |  |  |

Source: State Energy Price and Expenditure Report, 1995. Energy Information Administration, U.S. Department of Energy. Washington, D.C. December, 1997. DOE/EIA-0376(97). Page 185. Note: This represents the most current information available.

## Industrial

The industrial sector consists of manufacturing industries, which make up the largest part of the sector, along with mining, construction, agriculture, fisheries and forestry. Establishments in this sector range from steel mills to small farms to companies assembling electronic components. Energy used by this sector to transport products to market or as inputs to the organizations is included in the transportation sector.

Consumption
(Trillion Btu)

| Year | Coal | Natural Gas | Petroleum | Biofuels | Electricity | Net Total | Electric System Losses | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1994 | 7.9 | 36.5 | 53.0 | 0.6 | 18.2 | 116.2 | 38.1 | 154.2 |
| 1995 | 6.6 | 43.9 | 47.1 | 0.6 | 19.8 | 118.0 | 41.2 | 159.2 |
| 1996 | 5.4 | 36.4 | 51.2 | 0.6 | 21.1 | 114.8 | 44.0 | 158.7 |
| 1997 | 5.7 | 44.4 | 50.7 | 0.6 | 22.4 | 123.9 | 46.6 | 170.5 |

Source: State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999. DOE/EIA-0214(97). Page 194.

Prices

| (Dollars/Million Btu) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Coal | Natural Gas | Petroleum | Biofuels | Electricity | Total Energy |
| 1994 | 1.52 | 3.17 | 5.26 | 1.89 | 11.70 | 5.35 |
| 1995 | 1.48 | 2.85 | 5.45 | 1.89 | 11.26 | 5.23 |
| $1996$ | Information not available at this time |  |  |  |  |  |
| Source: | $\begin{aligned} & \text { Energy Pric } \\ & \text { nber } \end{aligned}$ | nditure Report, |  |  |  |  |

## Expenditures

(Million Dollars)

|  | (Million Dollars) |  |  |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Coal | Natural | Gas | Petroleum | Biofuels | Electricity |$\quad$| Total |
| :---: |
| Energy |

## Transportation

The transportation sector consists of private and public vehicles that move people and commodities. Included are automobiles, trucks, buses, motorcycles, railroads and railways (including streetcars), aircraft, ships, barges and natural gas pipelines. Natural gas use reflects the fuel needed to move natural gas through the pipelines to end users in the residential, commercial, industrial and electric utility sectors.

Consumption

| (Trillion Btu) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Natural | Aviation | Diesel | Jet |  |  | Motor | Total |  |  |
| 1994 | Gas | Gasol | Fuel | Fuel | Propane $0.3$ | Lubricants | Gasoline | Petroleum | Biofuels $17$ | Total |
| 1995 | 3.3 | 0.4 | 58.8 | 5.7 | 0.1 | 2.1 | 97.3 | 164.3 | 2.0 | 167.6 |
| 1996 | 4.6 | 0.4 | 69.7 | 5.7 | 0.1 | 2.0 | 98.1 | 176.0 | 1.3 | 180.6 |
| 1997 | 4.1 | 0.5 | 72.0 | 6.1 | 0.1 | 2.1 | 99.8 | 180.5 | 1.6 | 184.6 |

Source: State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999. DOE/EIA-0214(97). Page 195.

Prices

| (Dollars/Million Btu) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Natural Gas | Aviation Fuel | Diesel Fuel | Jet <br> Fuel | Propane | Lubricants | Motor Gasoline | Total Petroleum | Total Energy |
| 1994 | 4.74 | 7.96 | 8.21 | 3.99 | 9.11 | 19.11 | 9.17 | 8.73 | 8.73 |
| 1995 | 3.97 | 8.36 | 7.99 | 4.01 | 9.46 | 19.40 | 9.15 | 8.69 | 8.69 |
| 1996 | Information not available at this time |  |  |  |  |  |  |  |  |
| Source | Energy Pri EIA-0376(9) | and Expendit <br> Page 187. | $\text { t, } 1995 .$ | $\begin{aligned} & \text { nition } \\ & h e m \end{aligned}$ | ministration, U t information | $\begin{aligned} & \text { epartment of Energy } \\ & \text { lable. } \end{aligned}$ | ington, D.C. | nber, 1997. |  |

Expenditures
(Million Dollars)

| (Million Dollars) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Natural Gas | Aviation Fuel | Diesel Fuel | Jet <br> Fuel | Propane | Lubricants | Motor Gasoline | Total Petroleum | Total Energy |
| 1994 | * | 3.0 | 441.7 | 28.1 | 2.4 | 40.1 | 833.3 | 1,348.6 | 1,348.6 |
| 1995 | * | 3.2 | 469.8 | 22.7 | 0.8 | 40.0 | 890.5 | 1,427.0 | 1,427.0 |
| 1996 | Information not available at this time |  |  |  |  |  |  |  |  |
| Source: |  |  |  |  |  |  |  | $\text { mber, } 1997 .$ |  |

## Electric Utility

The electric utility sector consists of facilities which generate electricity primarily for use by the public and that meet the definition of an electric utility. Non-utility power produces are not included in the electric utility sector. Energy is used for the generation, distribution and transmission of electric power.

Energy Input at Electric Utilities

| (Trillion Btu) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Coal | Natural Gas | Petroleum | Nuclear Fuel | Hydro <br> Power | Biofuels | Total |
| 1994 | 152.2 | 3.0 | 0.3 | 67.7 | 13.5 | 0.1 | 236.9 |
| 1995 | 172.7 | 3.1 | 0.4 | 79.8 | 14.7 | 0.2 | 270.8 |
| 1996 | 173.5 | 2.3 | 0.3 | 100.5 | 16.6 | 0.1 | 293.3 |
| 1997 | 185.6 | 2.7 | 0.4 | 98.5 | 17.2 | * | 304.4 |

Source: State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999. DOE/EIA-0214(97). Page 196. Note: * represents a value less than 0.05 .

Prices

| (Dollars/Million Btu) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Coal | Natural Gas | Petroleum | Nuclear Fuel | Biofuels | Total |
| 1994 | 0.77 | 2.05 | 3.98 | 0.73 | 0.86 | 0.77 |
| 1995 | 0.75 | 1.66 | 4.15 | 0.68 | 0.77 | 0.74 |
| 1996 | Information not available at this time |  |  |  |  |  |

1997
Source: State Energy Price and Expenditure Report, 1995. Energy Information Administration, U.S. Department of Energy. Washington, D.C. December, 1997. DOE/EIA-0376(95). Page 188. Note: This represents the most current information available.

Expenditures

| (Million Dollars) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Coal | Natural Gas | Petroleum | Nuclear Fuel | Biofuels | Total |
| 1994 | 116.4 | 6.2 | 1.1 | 49.1 | 0.1 | 172.9 |
| 1995 | 129.2 | 5.1 | 1.5 | 54.3 | 0.1 | 190.2 |
| $\begin{aligned} & 1996 \\ & 1997 \end{aligned}$ | Information not available at this time |  |  |  |  |  |

Source: State Energy Price and Expenditure Report, 1995. Energy Information Administration, U.S. Department of Energy. Washington, D.C. December, 1997. DOE/EIA-0376(95). Page 188. Note: This represents the most current information available.

## Resource Statistics

Natural Gas

| Consumption by Sector |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | (Billion Cubic Feet) |  |  |  |  |
| Year | Residential | Commercial | Industrial | Transportation | Electric Utility |
| 1994 | 44 | 39 | 37 | 3 | 3 |
| 1995 | 45 | 40 | 45 | 3 | 3 |
| 1996 | 49 | 41 | 36 | 5 | 2 |
| 1997 | 47 | 34 | 44 | 4 | 3 |

Source: State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999. DOE/EIA-0214(97). Page 192-196.

Prices by Sector

| (Dollars/Thousand Cubic Feet) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Transportation | Electric Utility |
| 1994 | 5.09 | 4.30 | 3.17 | 4.74 | 2.05 |
| 1995 | 4.93 | 4.04 | 2.85 | 3.97 | 1.66 |
| 1996 | Information not available at this time |  |  |  |  |
| 1997 |  |  |  |  |  |

Expenditures by Sector

| (Million Dollars) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Transportation | Electric Utility |
| 1994 | 222.4 | 165.1 | 115.3 | $*$ | 6.2 |
| 1995 | 217.6 | 158.6 | 124.9 | $*$ | 5.1 |
| 1996 |  | Information not available at this time |  |  |  |
| 1997 |  |  |  |  |  |

Source: State Energy Price and Expenditure Report, 1995. Energy Information Administration, U.S. Department of Energy. Washington, D.C. December, 1997 DOE/EIA-0376(95). Pages 184, 185, 186 and 188. Note: This represents the most current information available. Note: * Represents a value less than 0.05 .

Deliveries to Residential Consumers

| (Million Cubic Feet) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| 1994 | 8,455 | 8,562 | 6,098 | 4,020 | 2,328 | 1,179 | 1,014 | 935 | 1,037 | 1,523 | 3,169 | 6,076 | 44,396 |
| 1995 | 7,943 | 6,978 | 5,876 | 4,177 | 2,893 | 1,548 | 1,010 | 883 | 1,032 | 1,537 | 4,029 | 6,034 | 43,939 |
| 1996 | 7,729 | 8,165 | 6,165 | 4,435 | 2,434 | 1,373 | 937 | 884 | 974 | 2,192 | 4,079 | 7,347 | 46,714 |
| 1997 | 9,692 | 7,829 | 6,232 | 4,355 | 3,177 | 1,367 | 1,015 | 937 | 936 | 1,382 | 4,401 | 5,790 | 47,115 |
| 1998 | 7,929 | 6,666 | 6,505 | 4,339 | 1,968 | 1,202 | 1,011 | 1,030 | 883 | 1,623 | 3,386 | 4,230 | 40,771 |
| 1999 | 8,576 | 5,954 | 5,726 | 3,735 | 2,630 | 1,180 | 1,003 | 1,118 | 792 | 2,131 | 2,727 | $\begin{aligned} & \text { Inform } \\ & \text { available } \end{aligned}$ | mation not at this time |

Prices for Residential Consumers

| (Dollars/Thousand Cubic Feet) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ave |
| 1994 | 4.86 | 4.72 | 4.97 | 5.09 | 5.39 | 6.10 | 6.32 | 6.54 | 6.26 | 5.60 | 4.85 | 4.57 | 5.01 |
| 1995 | 4.51 | 4.45 | 4.45 | 4.71 | 5.09 | 5.94 | 6.35 | 6.59 | 6.32 | 5.84 | 4.96 | 4.74 | 4.83 |
| 1996 | 4.78 | 4.73 | 4.94 | 5.12 | 5.65 | 6.36 | 7.24 | 7.56 | 7.33 | 6.04 | 5.42 | 5.78 | 5.34 |
| 1997 | 6.21 | 5.75 | 4.86 | 4.91 | 4.65 | 6.71 | 7.43 | 7.72 | 7.90 | 7.53 | 6.19 | 6.19 | 5.87 |
| 1998 | 5.10 | 4.90 | 4.71 | 5.06 | 5.96 | 6.35 | 6.83 | 7.08 | 6.87 | 5.71 | 4.74 | 4.60 | 5.13 |
| 1999 | 4.37 | 4.38 | 4.47 | 4.70 | 5.39 | 6.76 | 7.13 | 8.04 | 7.73 | 6.52 | 6.02 | Inform available | tion not at this time |

## Deliveries to Commercial Consumers

| (Million Cubic Feet) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| 1994 | 5,471 | 5,456 | 4,090 | 2,741 | 1,934 | 2,284 | 2,501 | 3,614 | 1,834 | 2,240 | 2,606 | 4,174 | 38,945 |
| 1995 | 5,286 | 4,799 | 6,061 | 2,985 | 2,374 | 1,753 | 3,868 | 4,744 | n/a | n/a | n/a | n/a | 40,044 |
| 1996 | 5,413 | 4,681 | 4,055 | 3,223 | 1,958 | 1,499 | 3,631 | 2,556 | 2,345 | 2,852 | 3,713 | 5,074 | 41,000 |
| 1997 | 5,907 | 4,845 | 4,117 | 3,190 | 2,430 | 1,728 | 5,042 | 2,896 | 1,868 | 2,351 | 3,487 | 4,247 | 42,107 |
| 1998 | 4,992 | 4,310 | 4,097 | 2,829 | 1,717 | 869 | 1,085 | 862 | 963 | 1,036 | 2,218 | 3,934 | 28,911 |
| 1999 | 5,797 | 4,246 | 3,484 | 2,308 | 1,827 | 1,123 | 1,074 | 772 | 1,067 | 1,156 | 1,787 | $\begin{array}{r} \text { Inform } \\ \text { available } \end{array}$ | on not this time |
| Source: Natural Gas Monthly. Energy Information Administration, U.S. Department of Energy. Washington, D.C. Monthly. $\mathrm{n} /$ a stands for not available. |  |  |  |  |  |  |  |  |  |  |  |  |  |

Prices for Commercial Consumers

| (Dollars/Thousand Cubic Feet) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ave |
| 1994 | 4.48 | 4.36 | 4.52 | 4.55 | 5.34 | 3.80 | 3.72 | 3.69 | 3.79 | 4.04 | 3.95 | 4.07 | 4.24 |
| 1995 | 4.08 | 3.97 | 3.97 | 3.90 | 5.00 | 3.77 | 3.64 | 3.63 | n/a | n/a | n/a | n/a | 3.96 |
| 1996 | 4.20 | 4.53 | 4.37 | 4.34 | 5.40 | 4.26 | 4.16 | 4.37 | 3.35 | 4.93 | 4.03 | 5.38 | 4.47 |
| 1997 | 5.91 | 5.24 | 4.23 | 3.91 | 5.00 | 5.88 | 3.56 | 3.76 | 4.33 | 5.26 | 5.40 | 5.34 | 4.86 |
| 1998 | 4.29 | 4.18 | 5.77 | 4.16 | 4.00 | 3.67 | 3.68 | 3.51 | 3.31 | 3.50 | 3.74 | 3.77 | 4.25 |
| 1999 | 4.14 | 4.00 | 3.98 | 3.77 | 3.88 | 3.94 | 3.84 | 4.11 | 4.36 | 4.33 | 4.62 | Inform availabl | on not this time |
| Source: Natural Gas Monthly. Energy Information Administration, U.S. Department of Energy. Washington, D.C. Monthly. $\mathrm{n} / \mathrm{a}$ stands for not available. |  |  |  |  |  |  |  |  |  |  |  |  |  |

Deliveries to Industrial Consumers

| (Million Cubic Feet) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| 1994 | 3,062 | 2,867 | 3,400 | 3,314 | 2,666 | 2,995 | 2,975 | 2,765 | 2,895 | 2,712 | 3,447 | 3,862 | 36,960 |
| 1995 | 3,632 | 3,231 | 3,434 | 3,283 | 3,214 | 2,960 | 4,055 | 3,524 | 3,150 | 2,810 | 3,744 | 2,894 | 39,932 |
| 1996 | 2,828 | 2,666 | 2,857 | 2,576 | 2,114 | 2,127 | 1,976 | 1,928 | 1,857 | 2,612 | 2,596 | 3,063 | 29,199 |
| 1997 | 3,135 | 3,257 | 3,426 | 3,404 | 2,580 | 2,484 | 1,207 | 2,627 | 2,050 | 2,697 | 1,923 | 3,723 | 32,514 |
| 1998 | 4,688 | 4,059 | 4,246 | 3,579 | 3,822 | 4,434 | 8,653 | 5,908 | 3,341 | 3,475 | 3,724 | 3,124 | 53,053 |
| 1999 | 4,240 | 3,330 | 3,098 | 1,178 | 2,565 | 2,700 | 5,432 | 3,949 | 4,465 | 3,600 | 2,490 | Inform available | ation not at this time |

Prices for Industrial Consumers
(Dollars/Thousand Cubic Feet)

| (Dollars/Thousand Cubic Feet) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ave |
| 1994 | 3.56 | 3.61 | 3.68 | 3.17 | 3.07 | 2.75 | 2.78 | 2.69 | 2.71 | 2.53 | 2.81 | 2.95 | 3.12 |
| 1995 | 2.95 | 2.89 | 2.90 | 2.67 | 2.67 | 2.58 | 2.63 | 2.90 | 2.74 | 2.49 | 2.32 | 2.85 | 2.73 |
| 1996 | 3.20 | 3.20 | 3.11 | 3.14 | 2.93 | 3.10 | 3.21 | 3.41 | 2.87 | 2.76 | 3.63 | 4.32 | 3.30 |
| 1997 | 5.16 | 4.14 | 3.19 | 2.66 | 2.77 | 3.02 | 3.09 | 3.38 | 3.48 | 4.15 | 4.32 | 3.97 | 3.74 |
| 1998 | 3.53 | 3.30 | 3.37 | 3.38 | 3.37 | 3.37 | 3.27 | 2.75 | 2.59 | 2.89 | 3.31 | 3.33 | 3.26 |
| 1999 | 3.35 | 3.12 | 3.21 | 3.05 | 3.14 | 3.41 | 3.16 | 3.50 | 3.68 | 3.63 | 4.10 | Inforn | ion not this time |

## Deliveries to Electric Utilities

| (Million Cubic Feet) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| 1994 | 94 | 49 | 204 | 553 | 413 | 741 | 235 | 155 | 168 | 159 | 152 | 139 | 3,062 |
| 1995 | 85 | 68 | 205 | 134 | 113 | 211 | 483 | 782 | 198 | 246 | 269 | 265 | 3,059 |
| 1996 | 123 | 80 | 139 | 202 | 320 | 466 | 348 | 213 | 161 | 122 | 94 | 82 | 2,351 |
| 1997 | 31 | 77 | 81 | 172 | 108 | 218 | 878 | 364 | 263 | 354 | 77 | 34 | 2,656 |
| 1998 | 36 | 21 | 58 | 173 | 621 | 702 | 1,022 | 1,161 | 955 | 154 | 35 | 106 | 5,044 |
| 1999 | 40 | 44 | 118 | 344 | 201 | 745 | 1,895 | 767 | 242 | 138 | 104 |  | mation not at this time |

Prices for Electric Utilities

| (Dollars/Thousand Cubic Feet) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ave |
| 1994 | 3.11 | 3.14 | 2.58 | 2.10 | 1.93 | 1.86 | 2.12 | 2.11 | 2.03 | 1.51 | 1.86 | 1.93 | 2.02 |
| 1995 | 2.09 | 1.90 | 1.90 | 1.60 | 1.94 | 1.96 | 1.50 | 1.54 | 1.58 | 1.50 | 1.67 | 1.91 | 1.65 |
| 1996 | 1.96 | 2.19 | 2.39 | 1.94 | 1.58 | 1.74 | 2.27 | 2.16 | 1.81 | 1.85 | 2.85 | 4.37 | 2.07 |
| 1997 | 3.22 | 3.20 | 2.29 | 1.89 | 1.89 | 2.00 | 2.32 | 2.49 | 2.98 | 3.21 | 4.29 | 4.94 | 2.58 |
| 1998 | 2.72 | 4.47 | 2.72 | 1.98 | 2.40 | 2.37 | 2.62 | 2.49 | 1.93 | 2.10 | $2.81 \quad 2.92 \quad 2.40$ <br> Information not available at this time |  |  |
| 1999 | 2.28 | 2.79 | 1.37 | 2.46 | 2.72 | 2.63 | 2.59 | 3.24 | 3.05 | 2.89 |  |  |  |

## Deliveries to All Consumers

| (Million Cubic Feet) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| 1994 | 17,082 | 16,935 | 13,792 | 10,627 | 7,342 | 7,200 | 6,726 | 7,468 | 5,934 | 6,634 | 9,374 | 14,251 | 123,365 |
| 1995 | 16,946 | 15,076 | 13,577 | 10,579 | 8,594 | 6,472 | 9,415 | 9,933 | 9,817 | 10,925 | 18,971 | N-A | 132,923 |
| 1996 | 16,093 | 15,592 | 13,215 | 10,437 | 6,827 | 5,465 | 6,892 | 5,580 | 5,337 | 7,778 | 10,482 | 15,566 | 119,265 |
| 1997 | 18,765 | 16,008 | 13,855 | 11,121 | 8,296 | 5,797 | 8,142 | 6,824 | 5,118 | 6,785 | 9,888 | 13,794 | 124,391 |
| 1998 | 17,645 | 15,056 | 14,906 | 10,921 | 8,128 | 7,207 | 11,770 | 8,961 | 6,143 | 6,287 | 9,362 | 11,394 | 127,779 |
| 1999 | 18,653 | 13,574 | 12,426 | 7,565 | 7,223 | 5,749 | 9,405 | 6,605 | 6,566 | 7,025 | 7,109 | Infor availabl | ation not at this time |

(Dollars/Thousand Cubic Feet)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | No | Dec | Ave |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1994 | 2.73 | 2.92 | 3.17 | 2.95 | 3.94 | 3.85 | 3.38 | 3.50 | 3.28 | 3.22 | 2.65 | 2.38 | 2.98 |
| 1995 | 2.38 | 2.20 | 2.47 | 2.18 | 2.68 | 2.69 | 3.42 | 3.11 | 2.97 | 2.80 | 2.43 | 2.34 | 2.49 |
| 1996 | 2.66 | 2.45 | 2.71 | 3.04 | 3.41 | 3.50 | 3.30 | 4.83 | 2.69 | 2.93 | 3.11 | 3.99 | 3.06 |
| 1997 | 4.42 | 3.75 | 3.02 | 2.28 | 3.11 | 4.09 | 4.96 | 5.51 | 7.03 | 5.76 | 6.30 | 5.31 | 4.24 |
| 1998 | 3.00 | 2.70 | 2.98 | 3.20 | 3.73 | 2.98 | 3.65 | 3.01 | 2.90 | 3.03 | 2.84 | 3.10 | 3.02 |
| 1999 | 2.90 | 3.11 | 2.90 | 2.94 | 3.45 | 3.24 | 3.25 | 2.33 | 3.28 | 3.14 | 3.79 | Inform | n not his time |

Summary Statistics for Natural Gas, 1996-1998

|  | 1996 | 1997 | 1998 |
| :---: | :---: | :---: | :---: |
| Number of Consumers: |  |  |  |
| Residential | 439,931 | 444,970 | 523,790 |
| Commercial | 61,117 | 51,661 | 63,819 |
| Industrial | 2,234 | 11,553 | 10,673 |
| Average Annual Consumption per Consumer: <br> (Thousand Cubic Feet) |  |  |  |
| Residential | 111 | 106 | 78 |
| Commercial | 668 | 655 | 453 |
| Industrial | 16,170 | 3,845 | 4,917 |
| Average Prices for Natural Gas: <br> (Dollars per Thousand Cubic Feet) |  |  |  |
| Wellhead (Marketed Production) | 1.43 | 1.53 | 1.30 |
| Pipeline Fuel | 2.10 | 2.54 | 2.01 |
| City Gate | 3.07 | 4.24 | 3.02 |
| Delivered to Consumers: |  |  |  |
| Residential | 4.88 | 5.69 | 5.13 |
| Commercial | 4.47 | 4.88 | 4.25 |
| Industrial | 3.29 | 3.85 | 3.26 |
| Vehicle Fuel | - | - | - |
| Electric Utilities | 2.07 | 2.86 | 2.40 |
| Delivered to Consumers: |  |  |  |
| (Million Cubic Feet) | 1996 | 1997 | 1998 |
| Residential | 48,989 | 47,105 | 40,771 |
| Commercial | 40,833 | 33,853 | 28,911 |
| Industrial | 36,125 | 44,418 | 53,053 |
| Electric Utilities | 2,351 | 2,656 | 5,044 |
| Totals | 128,297 | 128,031 | 127,779 |

[^1]
## Petroleum

## Consumption by Product

| (Thousand Barrels) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Motor Gasoline | Distillate Fuel | Jet Fuel | Aviation Gasoline | Kerosene | Propane | Residual Fuel | Other | Total |
| 1994 | 18,043 | 15,692 | 1,259 | 76 | 21 | 3,080 | 215 | 1,449 | 39,834 |
| 1995 | 19,302 | 15,588 | 1,001 | 77 | 17 | 3,020 | 123 | 1,340 | 40,835 |
| 1996 | 19,474 | 17,033 | 1,007 | 75 | 19 | 3,485 | 170 | 2,177 | 43,441 |
| 1997 | 19,825 | 17,674 | 1,075 | 90 | 23 | 3,520 | 112 | 1,873 | 44,192 |
| Source: State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999. DOE/EIA-0214(97). Page 191. <br> NOTE: Other includes asphalt, road oil, lubricants, and other specialty products. |  |  |  |  |  |  |  |  |  |

Consumption by Sector

|  |  | (Thousand Barrels) |  |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Total |
| 1994 | 1,256 | 600 | 9,652 | 28,281 | 45 | 39,834 |
| 1995 | 1,272 | 408 | 8,638 | 30,056 | 61 | 40,435 |
| 1996 | 1,514 | 505 | 9,292 | 32,082 | 47 | 43,440 |
| 1997 | 1,498 | 454 | 9,285 | 32,883 | 72 | 44,192 |

Source: State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999. DOE/EIA-0214(97). Pages 192-196.

## Expenditures

(Million Dollars)

| (Million Dollars) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Motor Gasoline | Distillate Fuel | Jet Fuel | Propane | Residual Fuel | Other | Total |
| 1994 | 869.7 | 623.6 | 28.1 | 79.7 | 2.8 | 72.6 | 1,676.5 |
| 1995 | 928.0 | 624.4 | 22.7 | 79.9 | 1.8 | 72.7 | 1,729.6 |
| 1996 | Information not available at this time |  |  |  |  |  |  |
| 1997 ( 109 |  |  |
|  |  |  |  |  |  |  |  | Price and Ex <br> T. | ure Report, 19 | $\begin{aligned} & \text { 35. Energy Inform } \\ & \text { 3. Note: This } \end{aligned}$ |  | S. Department rent information | $\begin{aligned} & \text { gy. Wash } \\ & \text { lable. } \end{aligned}$ |  |

Expenditures on Petroleum Products by Sector

|  |  | (Million Dollars) |  |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Total |
| 1994 | 32.3 | 16.1 | 278.4 | $1,348.6$ | 1.1 | $1,676.5$ |
| 1995 | 32.5 | 11.6 | 256.9 | $1,427.0$ | 1.5 | $1,729.5$ |

## Information not available at this time

1997
Source: State Energy Price and Expenditure Report, 1995. Energy Information Administration, U.S. Department of Energy. Washington, D.C. December, 1997. DOE/EIA-0376(95). Pages 184-188. Note: This represents the most current information available.

## Electricity

Consumption and Expenditures by Sector

| Consumption (Million Kilowatthours) |  |  |  |  | Expenditures (Million Dollars) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Total | Residential | Commercial | Industrial | Total |
| 1994 | 7,379 | 7,149 | 5,345 | 19,873 | 465.4 | 411.8 | 213.3 | 1,090.5 |
| 1995 | 7,597 | 7,494 | 5,802 | 20,893 | 484.1 | 420.9 | 222.9 | 1,127.9 |
| 1996 | 7,741 | 7,563 | 6,193 | 21,497 | Information not available at this time |  |  |  |
| 1997 | 7,989 | 8,014 | 6,580 | 22,583 |  |  |  |  |
| Source: Staa | Energy Data Report 194. State Energy Pr 186. Note: This rep | onsumption Estimates, ents the most cur | 1997. Energy In t information av |  | partment of Energy Department of Ener | ashington, D.C. Sept Washington, D.C. S | er, 1999. DOE/E mber, 1999. DOE |  |

Utility Retail Sales to Ultimate Consumers by Sectors
(Million Kilowatthours, January-December, 1997 and 1998)

| Sector | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ |
| :---: | ---: | ---: |
| Residential | 7,989 | 8,232 |
| Commercial | 6,500 | 6,700 |
| Industrial | 6,580 | 6,766 |
| Others | 1,514 | 1,450 |
| All Sectors | 22,582 | 23,149 |

Source: Electrical Power Monthly. Energy Information Administration. March, 1999. Page 59.
Coal
Consumption by Sector

| (Thousand Short Tons) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Total |
| 1994 | 2 | 5 | 414 | 0 | 8,879 | 9,300 |
| 1995 | 3 | 6 | 339 | 0 | 10,048 | 10,396 |
| 1996 | 1 | * | 287 | 0 | 10,091 | 10,379 |
| 1997 | 41 | 77 | 296 | 0 | 10,796 | 11,210 |

## Prices by Sector

|  |  | (Dollars/Million Btu) |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Electric Utilities |
| 1994 | 2.47 | 1.52 | 1.52 | 0.77 |
| 1995 | 2.44 | 1.80 | 1.48 | 0.75 |
| 1996 |  |  |  |  |

1997
Information not available at this time

Source: State Energy Price and Expenditure Report, 1995. Energy Information Administration, U.S. Department of Energy. Washington, D.C. December, 1997. DOE/EIA-0376(95). Pages 184-188. Note: This represents the most current information available.

## Expenditures by End-Use Sector

(Million Dollars)

| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Total |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1994 | 0.1 | 0.2 | 12.0 | 0.0 | 116.4 | 128.7 |  |  |  |  |  |  |  |
| 1995 | 0.2 | 0.2 | 9.7 | 0.0 | 129.2 | 139.3 |  |  |  |  |  |  |  |
| 1996 |  |  | Information not available at this time |  |  |  |  |  |  |  |  |  |  |

[^2] December, 1997. DOE/EIA-0376(95). Pages 184-188. Note: This represents the most current information available.

## Crude Oil and Natural Gas Production

Crude Oil Production
Crude Oil Production, Wellhead Price, Producing Wells and Proven Reserves

| Year | Production <br> (Thousand Barrels) | Wellhead Price <br> (Dollars per Barrel) | Producing Wells <br> (As of December 31) | Proven Reserves <br> (Million Barrels) |
| ---: | :---: | :---: | :---: | :---: |
| 1994 | 4,217 | 13.60 | 1,489 | 22.0 |
| 1995 | 3,793 | 15.73 | 1,446 | 25.0 |
| 1996 | 3,543 | 19.30 | 1,402 | 28.0 |
| 1997 | 3,337 | 19.63 | 1,361 | 21.0 |

Sources: Nebraska Oil Activity Summary, Annual Report. Nebraska Oil and Gas Conservation Commission. Sidney, Nebraska. Annual. Petroleum Marketing Monthly. Energy Information Administration, U.S. Department of Energy. Washington, D.C. Monthly. U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves: 1998 Annual Report. Energy Information Administration, U.S. Department of Energy. Washington, D.C. December, 1999.

Monthly Crude Oil Production
(Thousand Barrels)
Year Jan. Feb. March April May June July August Sept. Oct. Nov. Dec. Total $1994377.4335 .2368 .9330 .1365 .5346 .8 \quad 357.9 \quad 355.2346 .1351 .9337 .2345 .04,217.1$ $\begin{array}{llllllllllllllllllllll}1995 & 339.1 & 308.4 & 334.3 & 320.6 & 322.4 & 309.9 & 308.8 & 317.7 & 307.6 & 314.3 & 302.2 & 307.3 & 3,792.6\end{array}$ 1996298.6284 .1305 .9293 .0298 .1295 .6 $1997283.6261 .0290 .0273 .6283 .5269 .4 \quad 274.3 \quad 276.9271 .0284 .8283 .0285 .5$ 3,336.5 $1998286.1269 .0293 .4284 .5290 .2267 .5 \quad 258.1 \quad 256.1245 .8255 .8236 .6230 .8$ 3,173.9 Source: Nebraska Oil Activity Monthly Summary. Nebraska Oil and Gas Conservation Commission. Sidney, Nebraska. Monthly.

## Crude Oil Production by County

|  |  |  | (Thousand Barrels) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Banner | Chase | Cheyenne | Dundy | Frontier | Furnas | Garden | Harlan | Hayes |  |
| 1994 | 308.5 | 1.8 | 682.8 | 101.5 | 54.7 | 20.0 | 1.1 | 12.4 | 119.5 |  |
| 1995 | 283.1 | 1.8 | 599.9 | 108.9 | 48.6 | 19.7 | 4.9 | 12.8 | 102.4 |  |
| 1996 | 254.2 | 1.8 | 590.0 | 148.0 | 41.1 | 19.0 | 8.4 | 13.2 | 95.2 |  |
| 1997 | 233.3 | 1.6 | 546.4 | 204.5 | 43.3 | 17.3 | 7.2 | 14.8 | 97.7 |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Year | Hitchcock | Kimball | Lincoln | Morrill | Red Willow | Richardson | Scottsbluff | Sioux | Total |  |
| 1994 | $1,170.8$ | 911.8 | 1.6 | 135.6 | 574.8 | 42.1 | 77.3 | 0.0 | $4,216.3$ |  |
| 1995 | $1,069.0$ | 800.9 | 2.8 | 120.6 | 525.8 | 29.2 | 61.7 | 0.0 | $3,793.8$ |  |
| 1996 | 959.0 | 730.1 | 5.0 | 103.3 | 487.1 | 21.1 | 62.4 | 4.2 | $3,543.1$ |  |
| 1997 | 861.7 | 700.9 | 3.7 | 94.0 | 433.9 | 17.7 | 55.3 | 3.6 | $3,336.8$ |  |

Source: Nebraska Oil Activity Annual Summary. Nebraska Oil and Gas Conservation Commission. Sidney, Nebraska. Annual.

## Natural Gas Production

Natural Gas Production, Wellhead Price, Producing Wells and Proven Reserves

| Year | Production <br> (Million Cubic Feet) | Wellhead Price <br> (Cents/Thousand Cubic Feet) | Producing Wells <br> (As of December 31) | Proven Reserves <br> (Billion Cubic Feet) |
| :---: | :---: | :---: | :---: | :---: |
| 1994 | 2,093 | 160.0 | 76 | 67.0 |
| 1995 | 1,557 | 119.0 | 79 | n/a |
| 1996 | 1,328 | 118.0 | 77 | n/a |
| 1997 | 1,144 | 146.0 | 91 | n/a |

Sources: Nebraska Oil Activity Summary, Annual Report. Nebraska Oil and Gas Conservation Commission. Sidney, Nebraska. Annual. Natural Gas Annual 1994, Volume 1. Energy Information Administration, U.S. Department of Energy. Washington, D.C. November, 1995. U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves: 1998 Annual Report. Energy Information Administration, U.D. Department of Energy. Washington, D.C. December, 1999.
Notes: $\quad$ Nebraska reserves are included with a group of states, including Arizona, Illinois, Indiana, Iowa, Maryland, Minnesota, Missouri, Oregon, South Dakota, Tennessee, Virginia and Washington.
n/a stands for not available.


## Well Drilling

There were 34 drilling permits issued in 1997 for exploratory wells, an increase of $142.9 \%$ from the 14 permits in 1996. Sixty-seven permits were issued for development wells in 1997, a 71.8\% increase from the 39 issued in 1996.

## Exploratory Well Permits Issued

|  | (Number of Permits) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| 1994 | 2 | 2 | 4 | 1 | 4 | 1 | 2 | 3 | 5 | 4 | 2 | 6 | 36 |
| 1995 | 0 | 1 | 1 | 2 | 7 | 0 | 0 | 5 | 1 | 4 | 1 | 2 | 24 |
| 1996 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 3 | 1 | 1 | 2 | 2 | 14 |
| 1997 | 6 | 1 | 5 | 2 | 3 | 2 | 0 | 1 | 2 | 4 | 5 | 3 | 34 |

Source: Nebraska Oil Activity Monthly Summary. Nebraska Oil and Gas Conservation Commission. Sidney, Nebraska. Monthly.

Development Well Permits Issued

| (Number of Permits) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| 1994 | 2 | 5 | 3 | 0 | 1 | 3 | 4 | 1 | 1 | 1 | 0 | 9 | 30 |
| 1995 | 3 | 2 | 1 | 0 | 5 | 2 | 5 | 2 | 1 | 3 | 3 | 1 | 28 |
| 1996 | 1 | 4 | 4 | 5 | 2 | 4 | 4 | 3 | 3 | 2 | 5 | 2 | 39 |
| 1997 | 5 | 5 | 4 | 4 | 6 | 4 | 1 | 2 | 12 | 10 | 4 | 10 | 67 |

[^3]| Total Crude Oil Production and Wells Abandoned |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Year | Stripper <br> Wells | Stripper Wells <br> Abandoned <br> (Number) | Stripper Well <br> Production <br> (Thousand Barrels) | Total Crude <br> Oil Production <br> (Percent of) |
| 1995 | 1,114 | 36 | $1,899.0$ | 50.1 |
| 1996 | 1,004 | 112 | $1,949.0$ | 55.0 |
| 1997 | 1,699 | 66 | $2,366.0$ | 70.0 |

Source: Nebraska Oil and Gas Conservation Commission. Sidney, Nebraska. Monthly.

## Ethanol Production

Ethanol Fuel Available for Sale and Its Market Share

| Year | Gasohol Available for Sale <br> (Thousand Gallons) | Market Share <br> (Percentage) |
| :---: | :---: | :---: |
| 1994 | 230,712 | $30 \%$ |
| 1995 | 230,812 | $29 \%$ |
| 1996 | 187,028 | $24 \%$ |
| 1997 | 206,107 | $25 \%$ |
| 1998 | 190,503 | $22 \%$ |
| 1999 | 212,994 | $25 \%$ |

Source: Nebraska Department of Revenue

## Electricity Generation and Retail Sales

| Electric Utility Net Generation by Fuel Type |  |  |
| :---: | :---: | :---: |
|  | (Million Kilowatthours) |  |
|  | 1994 | 1995 |
| Coal | 17,210 | 18,336 |
| Petroleum | 31 | 43 |
| Natural Gas | 206 | 409 |
| Hydroelectric | 1,672 | 1,682 |
| Nuclear | 9,269 | 8,259 |
| Other | 1 | 1 |
| Source: Eleactric Power Ma | Administration, U.S. Departm | n, D.c. |


| (Million Kilowatthours, January-December) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Residential | Commercial | Industrial | Other | Total |
| 1994 | 7,464 | 5,784 | 5,317 | 1,333 | 19,898 |
| 1995 | 7,714 | 5,957 | 5,723 | 1,501 | 20,894 |
| 1996 | 7,741 | 6,272 | 6,193 | 1,291 | 21,497 |
| 1997 | 8,005 | 6,489 | 6,696 | 1,562 | 22,752 |
| 1998 | 6,366 | 5,018 | 5,238 | 1,179 | 17,802 | December, 1999. Page 57.

## Hydro Power Generation

| (Megawathours) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Plant | 1995 | 1996 | 1997 | 1998 |
| Central Nebraska Public Power and Irrigation District |  |  |  |  |
| Jeffrey Canyon | 105,307 | 121,779 | 131,917 | 134,963 |
| Johnson No. 1 | 76,755 | 93,740 | 101,021 | 105,638 |
| Johnson No. 2 | 97,340 | 121,429 | 132,219 | 134,706 |
| Kingsley | 98,330 | 103,077 | 149,275 | 133,636 |
| Nebraska Public Power District |  |  |  |  |
| Columbus | 116,103 | 113,896 | 124,838 | 110,353 |
| Kearney | 10 | 71 | 949 | 800 |
| Minnechaduza | 0 | 0 | 0 | 0 |
| Monroe | 13,474 | 23,010 | 23,409 | 22,632 |
| North Platte | 126,358 | 154,527 | 175,605 | 184,694 |
| Spencer | 13,347 | 14,686 | 13,554 | 9,640 |
| Spalding | 0 | 0 | 0 | 0 |
| U.S. Corps of Engineers |  |  |  |  |
| Gavins Point | 769,034 | 855,704 | 819,632 | 845,772 |
| Totals | 1,426,058 | 1,601,919 | 1,672,419 | 1,682,834 |

## Coal Plant Generation

| (Megawatthours) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Plant | 1995 | 1996 | 1997 | 1998 |
| Fremont | 307,315 | 284,467 | 354,238 | 288,803 |
| Grand Island | 426,278 | 543,148 | 491,898 | 541,341 |
| Hastings | 409,031 | 428,559 | 401,150 | 439,471 |
| Nebraska Public Power District |  |  |  |  |
| Gentleman | 7,200,000 | 7,376,307 | 8,796,280 | 8,574,112 |
| Sheldon | 1,300,885 | 1,349,685 | 1,366,990 | 1,378,892 |
| Omaha Public Power District |  |  |  |  |
| Nebraska City | 3,412,970 | 3,186,887 | 2,750,477 | 3,978,323 |
| North Omaha | 2,214,715 | 2,871,722 | 3,048,047 | 3,000,323 |
| Nebraska Total | 16,079,519 | 16,040,775 | 17,209,080 | 18,201,265 |
| Lincoln Electric System |  |  |  |  |
| Laramie River ${ }^{(1)}$ | 1,070,829 | 1,153,638 | 1,084,657 | 1,289,822 |

[^4]
## Miscellaneous Statistics



Source: Nebraska Agricultural Statistics. Nebraska Department of Agriculture. Lincoln, Nebraska. Annual.

Consumer Price Index
All Items, Fuel and Other Utilities, Motor Fuel and Energy (1982-84 = 100)

| Year | All Items | Fuel and Other Utilities | Motor Fuel | Energy |
| :--- | :---: | :---: | :---: | :---: |
| 1994 | 148.2 | 122.0 | 100.4 | 104.7 |
| 1995 | 152.4 | 123.7 | 96.4 | 103.3 |
| 1996 | 156.9 | 129.4 | 108.6 | 112.2 |
| 1997 | 160.5 | 130.0 | 101.9 | 108.4 |
| 1998 | 163.0 | 126.6 | 86.2 | 98.9 |

Source: Consumer Price Index. Bureau of Labor Statistics

## Other Information

## Approximate Heat Content of Petroleum Products

| Product | (Million Btu/Barrel) | (Btu/Gallon) |
| :--- | :---: | :---: |
| Aviation Gasoline | 5.048 | 120,190 |
| Crude Oil | 5.800 | 138,095 |
| Distillate Fuel Oil | 5.825 | 138,690 |
| Jet Fuel, Kerosene Type | 5.670 | 135,000 |
| Kerosene | 5.670 | 135,000 |
| Lubricants | 6.065 | 144,405 |
| Motor Gasoline | 5.253 | 125,071 |
| Propane | 3.836 | 91,333 |
| Residual Fuel Oil | 6.287 | 149,690 |

Source: State Energy Data Report, Consumption Estimates, 1960-1994. Energy Information Administration, U.S. Department of Energy. Washington, D.C. October, 1996

## Approximate Heat Rates for Electricity

## Consumption

 3,412Fossil Fuel Steam-Electric Power Plant Generation 10,272

Nuclear Power Plant Generation
10,676

Source: State Energy Data Report, Consumption Estimates, 1960-1994. Energy Information Administration, U.S. Department of Energy Washington, D.C. October, 1996. 1995 Preliminary Estimates. Nebraska Energy Office.
Notes: The heat content of a kilowatthour of electricity for consumption is 3,412 Btu regardless of the generation process. The heat content for a fossil fuel steam-electric power plant is assumed to be the average at all such U.S. power plants. This factor is also applied to convert hydroelectricity for distribution.

## Approximate Heat Content of Natural Gas and Coal Consumed

| Year | Natural Gas |  | Coal |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Utility | Non-Utility | Residential and Commercial | Industrial | Electric Utility |
| 1994 | 0.987 | 0.985 | 21.888 | 19.098 | 17.141 |
| 1995 | 0.998 | 0.980 | 20.321 | 19.359 | 17.188 |
| 1996 | 1.004 | 1.007 | 17.300 | 18.823 | 17.198 |
| 1997 | 0.998 | 0.998 | 17.332 | 19.080 | 17.190 |

Source: State Energy Data Report, Consumption Estimates, 1997. Energy Information Administration, U.S. Department of Energy. Washington, D.C. September, 1999. DOE/EIA-0214(97). Pages 483, 485, 489, 491 and 493.

## Degree Days

Heating Degree Days (HDD) are used to estimate the amount of energy required for residential space heating during the cool season. To calculate the HDDs, you must first find the mean temperature for the day. This is usually done by taking the high and low temperature for the day, adding them together and dividing by two. If the mean temperature is at or above $65^{\circ} \mathrm{F}$, then the HDD value is zero. If the mean temperature is below $65^{\circ} \mathrm{F}$, then the HDD amount equals 65 minus the mean temperature. For example, if the mean temperature was $55^{\circ} \mathrm{F}$, then the HDD amount equals 10 .

Cooling Degree Days (CDD) are used to estimate the amount of air conditioning usage during the warm season. To calculate CDDs, you must first find the mean temperature for the day. This is usually done by taking the high and low temperature for the day, adding them together and diving by two. If the mean temperature is at or below $65^{\circ} \mathrm{F}$, then the CDD value is zero. If the mean temperature is above $65^{\circ} \mathrm{F}$, then the CDD amount equals the mean temperature minus 65 . For example, if the mean temperature was $75^{\circ} \mathrm{F}$, then the CDD amount equals 10 . You can think of cooling degree days as the flip side to HDD.

For example, the following table displays historical HDD weighted by population. Using the 1990 census, these data are weighted by population to account for differences between more and less populous areas of Nebraska. This produces values that can be used to assess Nebraska's climate.

Heating Degree Days Weighted by Population

| Nebraska, Monthly 1993-1997 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | J | F | M | A | M | $J$ | J | A | S | 0 | N | D | Total |
| 1993 | 1,458 | 1,267 | 922 | 548 | 217 | 62 | 15 | 15 | 202 | 449 | 944 | 1,083 | 7,182 |
| 1994 | 1,390 | 1,241 | 731 | 457 | 139 | 18 | 21 | 19 | 83 | 343 | 751 | 1,131 | 6,324 |
| 1995 | 1,284 | 894 | 833 | 571 | 324 | 45 | 3 | 1 | 135 | 412 | 889 | 1,149 | 6,540 |
| 1996 | 1,432 | 994 | 1,030 | 490 | 248 | 26 | 17 | 21 | 148 | 379 | 1,013 | 1,329 | 7,126 |
| 1997 | 1,386 | 1,001 | 743 | 616 | 281 | 26 | 6 | 19 | 78 | 371 | 888 | 1,098 | 6,513 |
| 1998 | 1,220 | 822 | 1,031 | 470 | 119 | 61 | 5 | 9 | 32 | 343 | 690 | 1,075 | 5,877 |
| 1999 | 1,267 | 806 | 806 | 464 | 193 | 51 | 0 | 18 | 140 | Inform | ation not | vailable a | his time |
| Normal | 1,332 | 1,042 | 824 | 446 | 195 | 33 | 10 | 14 | 112 | 405 | 849 | 1,205 | 6,467 |

Heating and Cooling Degree Day information for specific Nebraska locations is available by contacting the Nebraska Energy Office.

## Conversion Factors

A conversion factor is a number that translates units of one system of measure into corresponding units of another system of measure. Conversion factors can be used to translate physical units of measure for various fuels into British Thermal Unit (Btu) equivalents. This is useful to assess how much heat can be generated from a given amount of an energy source such as coal, propane or kerosene. Other conversion factors are used to change from one unit of measure to another.
The following examples illustrate conversions:

- One barrel of crude oil is equivalent to 42 U.S. gallons. To find out how many gallons are in 100 barrels of crude oil simply multiply the number of barrels by the conversion factor (42) to obtain 4,200.
- How many Btu are in 150 gallons of kerosene? Looking at the table on page 57, there are 135,000 Btu per gallon of kerosene. Multiply 150 gallons of kerosene by 135,000 Btu for the answer of 20,250,000 Btu.

| TO CONVERT FROM | TO | MULTIPLY BY |
| :---: | :---: | :---: |
| Barrels (oil) | Gallons (oil) | 42 |
| Btu | Joules | 1054.8 |
| Btu | Kilogram-calories | 0.252 |
| Btu | Kilowatt-hours | 0.0002928 |
| Btu/hr | Watts | 0.2931 |
| Btu/min | Horsepower | 0.02356 |
| Calories | Kilowatt-hours | $1.16 \times 10^{e-06}$ |
| Foot-candles | Lumens/square meter | 10.764 |
| Gallons (oil) | Barrels (oil) | 0.02380952 |
| Horsepower | Kilowatts | 0.7457 |
| Horsepower | Watts | 745.7 |
| Joules | Btu | $9.48 \times 10^{\mathrm{e}-04}$ |
| Kilogram-calories | Btu | 3.968 |
| Kilowatts | Horsepower | 1.341 |
| Kilowatts | Watts | 1000 |
| Kilowatt-hours | Btu | 3413 |
| Lumens | Spherical candle power | 0.07958 |
| Therms | Btu | 100,000 |
| Tons (metric) | Pounds | 2204.62 |
| Tons (long) | Pounds | 2240 |
| Tons (short) | Pounds | 2000 |
| Watts | Horsepower | 0.00134 |
| Watts | Kilowatts | 0.001 |
| Watt-hours | Horsepower-hours | 0.00134 |

[^5]
[^0]:    Source: State Energy Price and Expenditures Report: 1995. Energy Information Administration, U.S. Department of Energy. Washington, D.C. August, 1998. DOE/EIA-0376(95). Pages 7-10, 183 and 184-188. Note: This table represents the most current information available. Note: $\star$ represents a value less than 0.05.

[^1]:    Source: Natural Gas Annual 1998. Energy Information Administration, U.S. Department of Energy. Washington, D.C. October, 1999. DOE/EIA-0131(98). Pages 146-147.

[^2]:    1997
    Source: State Energy Price and Expenditure Report, 1995. Energy Information Administration, U.S. Department of Energy. Washington, D.C.

[^3]:    Source: Nebraska Oil Activity Monthly Summary. Nebraska Oil and Gas Conservation Commission. Sidney, Nebraska. Monthly.

[^4]:    Source: Electric Power Monthly. Energy Information Administration, U.S. Department of Energy. Washington, D.C. Monthly. Note: (1) Lincoln Electric System's ownership share of Laramie River plant in Wyoming.

[^5]:    Sources: Various, including State Energy Data Report: Consumption Estimates. EIA.

