

# Nebraska Energy Statistics

1960-1997

*Nebraska Energy Statistics, 1960-1997* presents Nebraska's energy data and brief analyses. This publication is intended to provide energy planners, policy makers and consumers with a useful reference to make informed energy decisions. Every effort has been made to ensure accuracy.

This publication is divided into four sections. The first section presents an overview of total energy consumption and expenditures in the state. The second covers the energy consumption, prices and expenditures of the residential, commercial, industrial, transportation and electric utility sectors. The third section provides information on energy resources including natural gas, petroleum, electricity, coal and ethanol. Section four contains miscellaneous information such as degree days, motor vehicle data, population, irrigation data, type of heating in occupied housing units, consumer price index numbers, well information, conversion factors and a glossary of terms.

Due to independent rounding, totals may not equal the sum of the components, and totals from one table to the next may not be equivalent.

A consumption table may show that a fuel has been consumed, but the price table and expenditure table may show that the fuel has no price and the state had no expenditure on this fuel. This fuel is either a process fuel or an intermediate product. A process fuel or intermediate product is not purchased by the end user and, therefore, does not have a price. To avoid being counted twice, the price and expenditure are represented by the final end-user product.

This publication covers the period of 1960-1997. The title of each table will indicate if data was available for the entire period.

Continuously updated energy statistics are on the Nebraska Energy Office website at [www.nol.org/home/NEO](http://www.nol.org/home/NEO)

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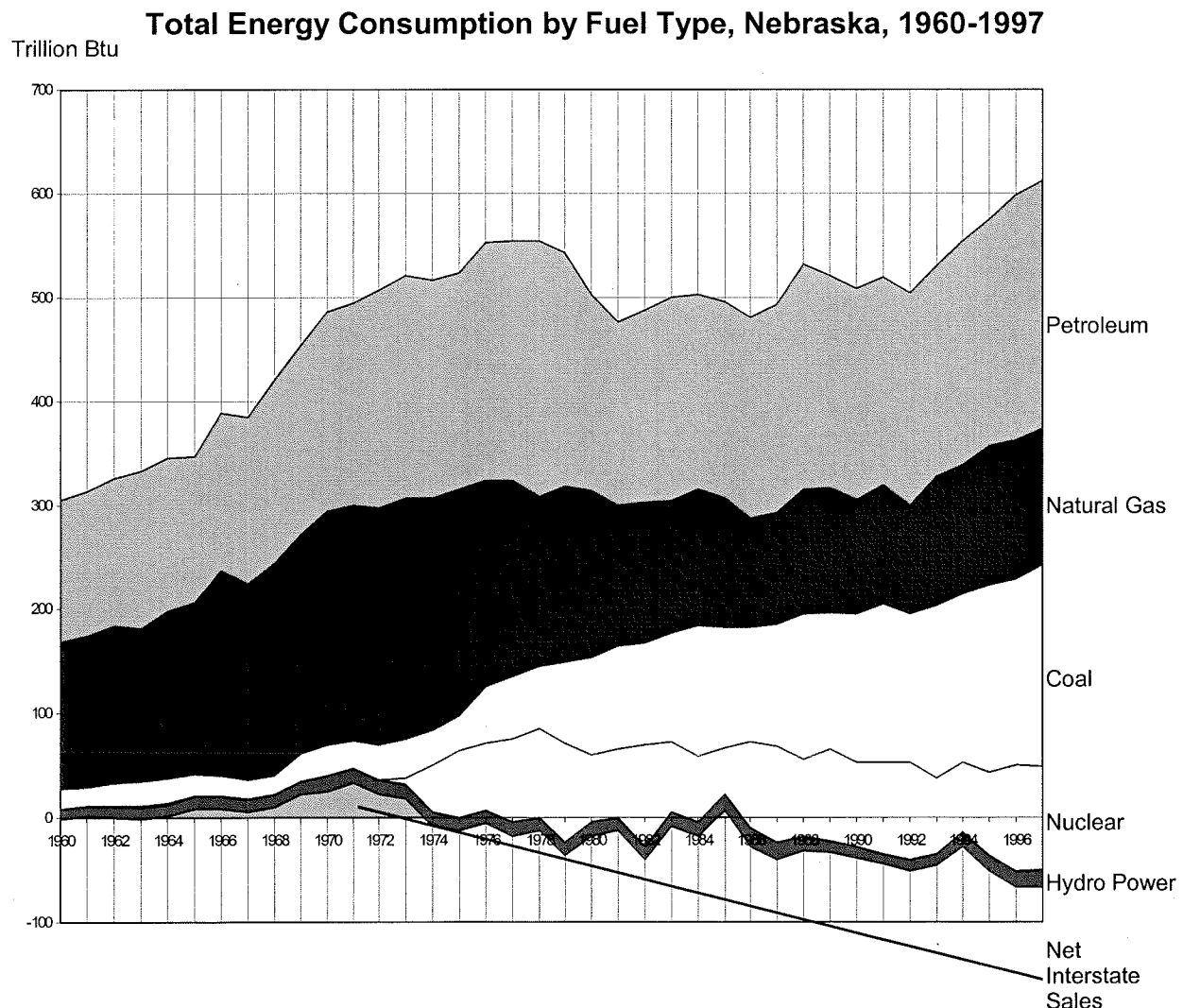


# Total Energy Consumption and Expenditures

## Total Energy Consumption

Total energy consumption is consumption of primary resources and end-use energy. Primary resource consumption includes energy used in the generation of electricity whether that electricity is used in Nebraska or not. End-use energy consumption refers to the energy content of electricity and other fuels at the point of use by consumers. Unless otherwise noted, total energy consumption refers to total primary energy consumption adjusted for net interstate sales of electricity. Net interstate sales represent the difference between the energy in electricity sold, including the associated losses, and the energy input at electric utilities in Nebraska. Net interstate sales will be a negative number if Nebraska sold, or exported, electricity; and it will be a positive number if Nebraska had to buy, or import, electricity. Approximately 70% of the primary energy used to generate and distribute electricity is lost as waste heat. This loss is referred to as associated energy losses or electric system losses.

Nebraska's total energy consumption in 1997 was 613.0 trillion Btu, a 2.5% increase from 1996. Petroleum use increased 1.6% from 1996, natural gas use decreased 1.4%, coal use increased 10.0%, nuclear power use decreased 2.0% and hydroelectric power increased 3.6%. Overall, consumption of primary energy resources increased 2.2% in 1997 from 1996. Interstate sales of electricity in 1997 remained the same from 1996.



# Total Energy Consumption by Fuel Type, Nebraska, 1960-1997

(Trillion Btu)

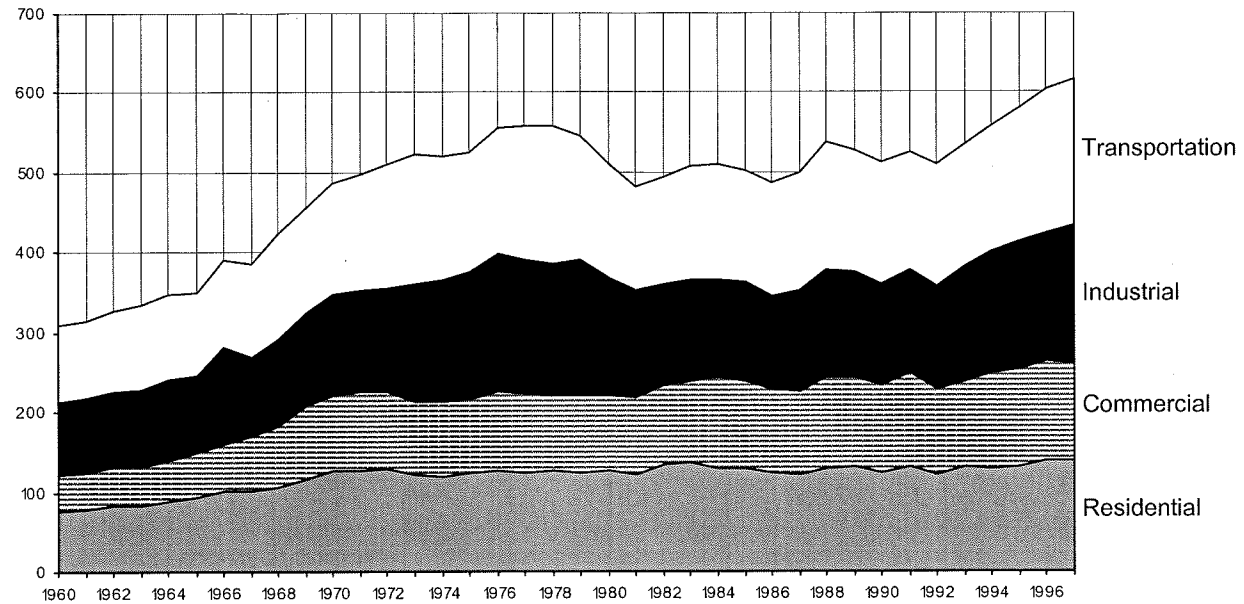
| Year | Petroleum | Natural Gas | Coal  | Nuclear | Hydro Power | Primary Total | Net Interstate Sales | Total |
|------|-----------|-------------|-------|---------|-------------|---------------|----------------------|-------|
| 1960 | 136.5     | 140.4       | 20.0  | 0.0     | 10.3        | 307.2         | -1.8                 | 305.4 |
| 1961 | 138.8     | 144.6       | 18.2  | 0.0     | 9.9         | 311.5         | 1.1                  | 312.6 |
| 1962 | 142.0     | 149.3       | 23.0  | 0.0     | 10.3        | 324.6         | 0.7                  | 325.3 |
| 1963 | 151.8     | 145.8       | 24.5  | 0.9     | 10.6        | 333.6         | -0.6                 | 333.0 |
| 1964 | 147.7     | 160.5       | 23.7  | 1.1     | 10.5        | 343.5         | 2.0                  | 345.5 |
| 1965 | 141.1     | 164.7       | 20.8  | -0.1    | 11.7        | 338.3         | 9.0                  | 347.3 |
| 1966 | 152.0     | 195.9       | 19.7  | 0.0     | 12.1        | 379.7         | 8.3                  | 388.0 |
| 1967 | 158.9     | 187.9       | 18.3  | 0.0     | 12.1        | 377.2         | 6.3                  | 383.5 |
| 1968 | 177.8     | 202.9       | 17.2  | 0.0     | 13.0        | 410.9         | 10.0                 | 420.9 |
| 1969 | 182.6     | 209.6       | 27.1  | 0.0     | 12.9        | 432.3         | 22.0                 | 454.3 |
| 1970 | 192.0     | 224.1       | 29.7  | 0.0     | 14.4        | 460.2         | 25.6                 | 485.8 |
| 1971 | 195.2     | 225.5       | 26.3  | 0.0     | 14.2        | 461.3         | 33.3                 | 494.6 |
| 1972 | 211.2     | 226.4       | 33.5  | 0.0     | 14.2        | 485.3         | 21.8                 | 507.1 |
| 1973 | 213.9     | 230.8       | 36.9  | 6.5     | 14.2        | 502.3         | 17.6                 | 519.9 |
| 1974 | 209.9     | 223.3       | 32.8  | 44.6    | 13.5        | 524.0         | -7.5                 | 516.5 |
| 1975 | 208.1     | 217.5       | 32.9  | 65.2    | 12.6        | 536.3         | -13.0                | 523.3 |
| 1976 | 229.5     | 197.4       | 53.7  | 64.3    | 13.2        | 558.2         | -5.9                 | 552.3 |
| 1977 | 231.1     | 188.4       | 59.3  | 80.2    | 12.7        | 571.9         | -17.4                | 554.5 |
| 1978 | 246.3     | 162.7       | 59.8  | 84.5    | 12.3        | 565.6         | -11.8                | 553.8 |
| 1979 | 224.9     | 169.0       | 77.6  | 94.2    | 12.9        | 578.5         | -35.9                | 542.6 |
| 1980 | 189.7     | 159.5       | 93.9  | 63.1    | 13.9        | 520.1         | -17.3                | 502.8 |
| 1981 | 176.4     | 135.3       | 98.6  | 66.0    | 12.5        | 488.8         | -13.0                | 475.8 |
| 1982 | 184.8     | 135.6       | 96.7  | 96.9    | 12.7        | 526.7         | -39.8                | 486.9 |
| 1983 | 195.6     | 127.0       | 104.8 | 66.3    | 14.2        | 507.8         | -8.2                 | 499.6 |
| 1984 | 187.4     | 131.9       | 124.3 | 62.7    | 14.0        | 520.3         | -17.7                | 502.6 |
| 1985 | 189.1     | 123.9       | 115.5 | 44.7    | 15.1        | 488.2         | 7.8                  | 496.0 |
| 1986 | 192.9     | 104.0       | 109.9 | 82.7    | 17.5        | 507.0         | -27.3                | 479.7 |
| 1987 | 199.7     | 107.7       | 116.5 | 92.6    | 16.3        | 532.8         | -40.3                | 492.5 |
| 1988 | 216.0     | 119.9       | 139.3 | 73.4    | 13.9        | 562.6         | -31.6                | 531.0 |
| 1989 | 205.1     | 118.7       | 132.0 | 86.6    | 12.1        | 554.4         | -33.8                | 520.6 |
| 1990 | 204.0     | 109.2       | 142.0 | 80.2    | 11.9        | 547.2         | -38.9                | 508.3 |
| 1991 | 200.9     | 114.0       | 152.0 | 86.4    | 10.9        | 564.2         | -44.9                | 519.3 |
| 1992 | 204.7     | 104.6       | 140.9 | 93.4    | 11.1        | 554.8         | -51.1                | 503.7 |
| 1993 | 203.7     | 123.0       | 166.1 | 72.7    | 10.3        | 575.8         | -45.2                | 530.6 |
| 1994 | 215.6     | 124.8       | 160.3 | 67.7    | 13.5        | 582.0         | -27.6                | 554.4 |
| 1995 | 218.5     | 133.7       | 179.4 | 79.8    | 14.7        | 626.1         | -51.0                | 575.1 |
| 1996 | 235.6     | 133.8       | 179.0 | 100.5   | 16.6        | 665.4         | -67.3                | 598.1 |
| 1997 | 239.4     | 131.9       | 193.3 | 98.5    | 17.2        | 680.3         | -67.3                | 613.0 |

Sources: *State Energy Data Report 1997, Consumption Estimates, September 1999.* Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Notes: The primary total includes energy used in the generation of electricity whether that electricity is used in Nebraska or not. Net Interstate Sales represent the difference between the energy in electricity sold, including associated losses, and the energy input at electric utilities in Nebraska (negative if exports, positive if imports). From 1960-1964 and 1992-1993, a small amount of other energy was consumed.

## Total Energy Consumption by End-Use Sector, Nebraska, 1960-1997

Trillion Btu



| Year | Residential | Commercial | Industrial | Transportation | Total |
|------|-------------|------------|------------|----------------|-------|
| 1960 | 77.2        | 44.0       | 93.0       | 94.2           | 308.5 |
| 1961 | 79.6        | 45.0       | 94.3       | 96.6           | 315.5 |
| 1962 | 84.8        | 46.6       | 95.4       | 101.2          | 328.0 |
| 1963 | 83.6        | 47.9       | 95.7       | 108.4          | 335.6 |
| 1964 | 88.4        | 50.5       | 101.6      | 107.1          | 347.8 |
| 1965 | 95.0        | 53.5       | 98.6       | 102.2          | 349.2 |
| 1966 | 100.9       | 58.4       | 122.9      | 107.7          | 389.9 |
| 1967 | 100.4       | 69.9       | 98.5       | 116.4          | 385.3 |
| 1968 | 106.3       | 77.4       | 109.2      | 129.8          | 422.7 |
| 1969 | 116.6       | 90.4       | 116.4      | 132.4          | 455.9 |
| 1970 | 126.0       | 94.9       | 127.2      | 139.3          | 487.4 |
| 1971 | 127.4       | 98.1       | 127.8      | 142.8          | 496.1 |
| 1972 | 128.9       | 96.7       | 128.5      | 155.5          | 509.7 |
| 1973 | 121.0       | 91.4       | 146.8      | 163.5          | 522.6 |
| 1974 | 118.6       | 93.4       | 153.9      | 153.2          | 519.1 |
| 1975 | 124.3       | 90.8       | 161.0      | 149.9          | 526.0 |
| 1976 | 126.7       | 99.7       | 170.8      | 158.1          | 555.4 |
| 1977 | 124.9       | 99.3       | 165.3      | 168.3          | 557.8 |
| 1978 | 126.3       | 93.4       | 165.0      | 172.9          | 557.6 |
| 1979 | 124.6       | 95.9       | 169.9      | 156.1          | 546.5 |
| 1980 | 126.9       | 93.5       | 148.5      | 141.0          | 509.9 |
| 1981 | 121.9       | 96.1       | 133.5      | 131.5          | 483.0 |
| 1982 | 133.4       | 100.9      | 125.6      | 134.8          | 494.7 |
| 1983 | 136.7       | 102.5      | 125.2      | 142.9          | 507.3 |
| 1984 | 130.1       | 112.9      | 122.7      | 143.8          | 509.4 |
| 1985 | 129.0       | 110.4      | 122.5      | 140.7          | 502.5 |
| 1986 | 124.5       | 104.8      | 115.5      | 141.7          | 486.4 |
| 1987 | 121.1       | 104.1      | 126.3      | 146.9          | 498.5 |
| 1988 | 130.2       | 113.1      | 133.9      | 159.9          | 537.2 |
| 1989 | 130.7       | 111.7      | 132.1      | 152.5          | 527.1 |
| 1990 | 123.4       | 109.3      | 128.4      | 151.5          | 512.7 |
| 1991 | 131.4       | 115.9      | 130.6      | 145.9          | 523.9 |
| 1992 | 120.8       | 106.3      | 129.6      | 152.0          | 508.7 |
| 1993 | 132.9       | 106.8      | 142.9      | 152.5          | 535.1 |
| 1994 | 130.1       | 117.2      | 154.2      | 157.6          | 559.2 |
| 1995 | 133.0       | 120.5      | 159.2      | 167.6          | 580.4 |
| 1996 | 140.6       | 123.5      | 158.7      | 180.6          | 603.4 |
| 1997 | 140.2       | 121.8      | 170.5      | 184.6          | 617.1 |

Sources: State Energy Data Report 1997, Consumption Estimates, September 1999 Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

**Total Energy Consumption by Fuel Type and by End-Use Sector, Nebraska**  
**1995, 1996 and 1997**  
(Trillion Btu)

| 1995 Fuel Type                | Residential | Commercial | Industrial | Transportation | Electric Utilities | Primary Energy Resources Total | End Use Energy Total |
|-------------------------------|-------------|------------|------------|----------------|--------------------|--------------------------------|----------------------|
| Coal                          | 0.1         | 0.1        | 6.6        | 0.0            | 172.7              | 179.5                          | 6.8                  |
| Natural Gas                   | 44.1        | 39.2       | 43.9       | 3.3            | 3.1                | 133.6                          | 130.5                |
| Petroleum                     | 4.8         | 1.9        | 47.1       | 164.3          | 0.4                | 218.5                          | 218.1                |
| Motor Gasoline                | -           | 0.1        | 4.0        | 97.3           | -                  | 101.4                          | 101.4                |
| Ethanol                       | -           | -          | -          | 2.0            | -                  | 2.0                            | 2.0                  |
| Aviation Fuel                 | -           | -          | -          | 0.4            | -                  | 0.4                            | 0.4                  |
| Propane                       | 4.2         | 0.7        | 5.9        | 0.1            | -                  | 10.9                           | 10.9                 |
| Distillates                   | 0.6         | 1.0        | 29.9       | 58.8           | -                  | 90.3                           | 90.3                 |
| Other                         | *           | *          | 7.5        | 7.8            | 0.4                | 15.7                           | 15.3                 |
| Nuclear                       | -           | -          | -          | -              | 79.8               | 79.8                           | -                    |
| Hydro                         | -           | -          | 0.0        | -              | 14.7               | 14.7                           | -                    |
| Total Primary                 | 49.0        | 41.2       | 97.6       | 167.6          | 270.7              | 626.1                          | -                    |
| Electric Sales                | 25.9        | 25.6       | 19.8       | 0.0            | -                  | -                              | 71.3                 |
| Net Interstate Sales          | -           | -          | -          | -              | -51.0              | -51.0                          | -                    |
| Total Net End Use             | 74.9        | 66.8       | 117.4      | 167.6          | -                  | -                              | 426.7                |
| Electric System Energy Losses | 54.0        | 53.3       | 41.2       | 0.0            | -                  | -                              | 148.5                |
| Total End Use                 | 128.9       | 120.1      | 158.6      | 167.6          | -                  | 575.2                          | 575.2                |

| 1996 Fuel Type                | Residential | Commercial | Industrial | Transportation | Electric Utilities | Primary Energy Resources Total | End Use Energy Total |
|-------------------------------|-------------|------------|------------|----------------|--------------------|--------------------------------|----------------------|
| Coal                          | *           | *          | 5.4        | 0.0            | 173.5              | 178.9                          | 5.4                  |
| Natural Gas                   | 49.3        | 41.1       | 36.4       | 4.6            | 2.3                | 133.7                          | 131.4                |
| Petroleum                     | 5.7         | 2.4        | 51.2       | 176.0          | 0.3                | 235.6                          | 235.3                |
| Motor Gasoline                | -           | 0.1        | 4.1        | 98.1           | -                  | 102.3                          | 102.3                |
| Ethanol                       | -           | -          | -          | 1.3            | -                  | 1.3                            | 1.3                  |
| Aviation Fuel                 | -           | -          | -          | 0.4            | -                  | 0.4                            | 0.4                  |
| Propane                       | 5.0         | 0.9        | 6.6        | 0.1            | -                  | 12.6                           | 12.6                 |
| Distillates                   | 0.7         | 1.4        | 27.2       | 69.7           | -                  | 99.0                           | 99.0                 |
| Other                         | *           | *          | 13.4       | 7.7            | 0.3                | 21.4                           | 21.1                 |
| Nuclear                       | -           | -          | -          | -              | 100.5              | 100.5                          | -                    |
| Hydro                         | -           | -          | 0.0        | -              | 16.6               | 16.6                           | -                    |
| Total Primary                 | 55.0        | 43.5       | 93.0       | 180.6          | 293.2              | 665.3                          | -                    |
| Electric Sales                | 26.4        | 25.8       | 21.1       | 0.0            | -                  | -                              | 73.3                 |
| Net Interstate Sales          | -           | -          | -          | -              | -67.3              | -67.3                          | -                    |
| Total Net End Use             | 81.4        | 69.3       | 114.1      | 180.6          | -                  | -                              | 445.4                |
| Electric System Energy Losses | 55.0        | 53.7       | 44.0       | 0.0            | -                  | -                              | 152.7                |
| Total End Use                 | 136.4       | 123.0      | 158.1      | 180.6          | -                  | 598.1                          | 598.1                |

| 1997 Fuel Type                | Residential | Commercial | Industrial | Transportation | Electric Utilities | Primary Energy Resources Total | End Use Energy Total |
|-------------------------------|-------------|------------|------------|----------------|--------------------|--------------------------------|----------------------|
| Coal                          | 0.7         | 1.3        | 5.7        | 0.0            | 185.6              | 193.3                          | 7.7                  |
| Natural Gas                   | 47.0        | 33.8       | 44.4       | 4.1            | 2.7                | 132.0                          | 129.3                |
| Petroleum                     | 5.6         | 2.1        | 50.7       | 180.5          | 0.4                | 239.3                          | 238.9                |
| Motor Gasoline                | -           | 0.1        | 4.3        | 99.8           | -                  | 104.2                          | 104.2                |
| Ethanol                       | -           | -          | -          | 1.6            | -                  | 1.6                            | 1.6                  |
| Aviation Fuel                 | -           | -          | -          | 0.5            | -                  | 0.5                            | 0.5                  |
| Propane                       | 5.0         | 0.9        | 6.7        | 0.1            | -                  | 12.7                           | 12.7                 |
| Distillates                   | 0.6         | 1.0        | 29.0       | 72.0           | -                  | 102.6                          | 102.6                |
| Other                         | *           | 0.1        | 10.8       | 8.2            | 0.4                | 19.5                           | 19.1                 |
| Nuclear                       | -           | -          | -          | -              | 98.5               | 98.5                           | -                    |
| Hydro                         | -           | -          | 0.0        | -              | 17.2               | 17.2                           | -                    |
| Total Primary                 | 53.3        | 37.2       | 100.8      | 184.6          | 304.4              | 680.3                          | -                    |
| Electric Sales                | 27.3        | 27.3       | 22.4       | 0.0            | -                  | -                              | 77.0                 |
| Net Interstate Sales          | -           | -          | -          | -              | -67.3              | -67.3                          | -                    |
| Total Net End Use             | 80.6        | 64.5       | 123.2      | 184.6          | -                  | -                              | 452.9                |
| Electric System Energy Losses | 56.6        | 56.8       | 46.6       | 0.0            | -                  | -                              | 160.0                |
| Total End Use                 | 137.2       | 121.3      | 169.8      | 184.6          | -                  | 612.9                          | 612.9                |

Sources: State Energy Data Report 1997, Consumption Estimates, September 1999. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

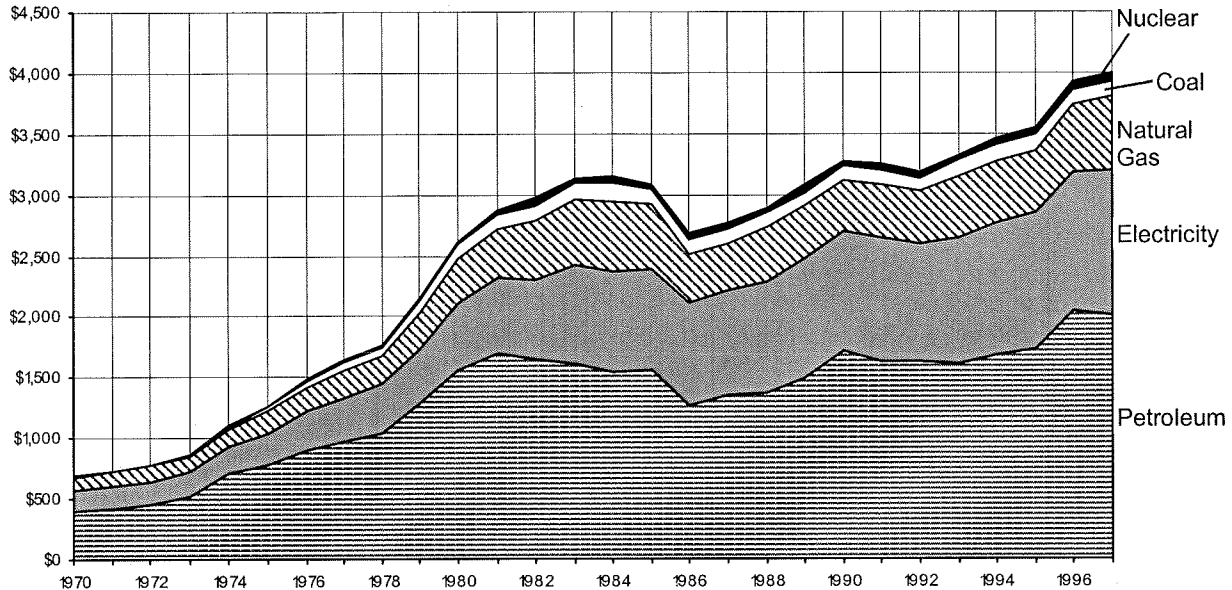
Notes: An asterisk (\*) indicates a value less than 0.05 million nominal dollars. Other in the residential sector includes kerosene. Other in the commercial sector includes kerosene and residual fuel. Other in the industrial sector includes asphalt and road oil, kerosene, lubricants, residual fuel and other petroleum products. Other in the transportation sector includes jet fuel, lubricants and residual fuel. Other in the electric utilities sector includes heavy oil, light oil and petroleum coke.

# Total Energy Expenditure

Expenditures on energy for 1997 were \$3.8 billion, an increase of 2.0% from 1996. The only expenditures which increased in 1997 from the previous year were natural gas and electricity, 12.2% and 4.7%, respectively. Expenditures in 1997 for petroleum, coal and nuclear fuel decreased from 1996 levels by 2.3%, 9.3% and 3.1%, respectively.

## Total Energy Expenditures by Fuel Type, Nebraska, 1970-1997

Million Nominal Dollars



Note: The cost of fuels used by electric utilities for the generation and transmission of electricity account for the difference between total expenditures and the sum of expenditures for each type of energy.

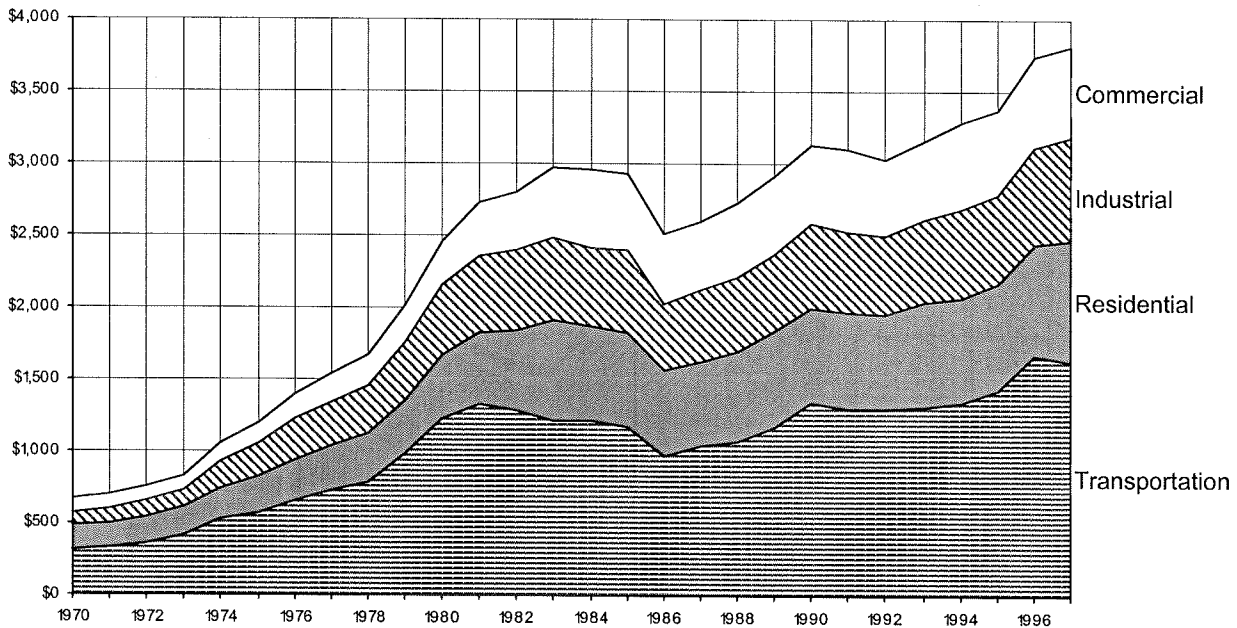
| Year | Petroleum | Natural Gas | Coal    | Nuclear | Primary Total | Less Electric Utilities | Electricity | Total     |
|------|-----------|-------------|---------|---------|---------------|-------------------------|-------------|-----------|
| 1970 | \$404.8   | \$104.1     | \$9.6   | \$0.0   | \$518.5       | \$22.3                  | \$170.3     | \$666.5   |
| 1971 | \$416.6   | \$115.7     | \$10.8  | \$0.0   | \$543.2       | \$24.9                  | \$187.9     | \$706.1   |
| 1972 | \$449.7   | \$130.7     | \$13.6  | \$0.0   | \$593.9       | \$32.8                  | \$191.9     | \$753.0   |
| 1973 | \$516.0   | \$134.4     | \$16.0  | \$1.0   | \$667.4       | \$39.5                  | \$203.7     | \$831.5   |
| 1974 | \$701.6   | \$150.9     | \$19.6  | \$7.0   | \$879.1       | \$53.2                  | \$226.0     | \$1,052.0 |
| 1975 | \$774.9   | \$184.3     | \$28.4  | \$10.0  | \$997.5       | \$68.1                  | \$271.2     | \$1,200.6 |
| 1976 | \$896.9   | \$200.6     | \$51.4  | \$12.0  | \$1,160.8     | \$82.2                  | \$326.6     | \$1,405.2 |
| 1977 | \$960.7   | \$236.1     | \$63.8  | \$15.0  | \$1,275.6     | \$92.6                  | \$363.4     | \$1,546.3 |
| 1978 | \$1,039.2 | \$227.2     | \$70.8  | \$16.0  | \$1,353.1     | \$99.7                  | \$412.0     | \$1,665.4 |
| 1979 | \$1,289.1 | \$291.2     | \$94.1  | \$27.0  | \$1,701.4     | \$133.8                 | \$447.6     | \$2,015.2 |
| 1980 | \$1,563.7 | \$354.1     | \$119.4 | \$27.0  | \$2,064.2     | \$164.7                 | \$550.6     | \$2,450.1 |
| 1981 | \$1,692.2 | \$395.7     | \$119.0 | \$36.0  | \$2,242.9     | \$154.8                 | \$628.9     | \$2,717.0 |
| 1982 | \$1,649.6 | \$499.6     | \$117.7 | \$66.0  | \$2,332.9     | \$181.3                 | \$644.5     | \$2,796.2 |
| 1983 | \$1,607.3 | \$542.5     | \$131.1 | \$41.0  | \$2,321.9     | \$169.7                 | \$816.8     | \$2,969.0 |
| 1984 | \$1,548.6 | \$567.2     | \$164.0 | \$35.0  | \$2,314.8     | \$191.7                 | \$826.9     | \$2,950.0 |
| 1985 | \$1,553.1 | \$523.7     | \$135.8 | \$29.0  | \$2,241.6     | \$158.7                 | \$841.2     | \$2,924.2 |
| 1986 | \$1,257.7 | \$408.4     | \$118.4 | \$52.0  | \$1,836.5     | \$167.8                 | \$846.3     | \$2,515.1 |
| 1987 | \$1,349.3 | \$383.6     | \$114.1 | \$58.0  | \$1,905.0     | \$169.4                 | \$864.2     | \$2,599.7 |
| 1988 | \$1,375.4 | \$439.0     | \$121.7 | \$46.0  | \$1,982.2     | \$166.5                 | \$914.0     | \$2,729.7 |
| 1989 | \$1,496.7 | \$436.6     | \$112.7 | \$56.0  | \$2,102.0     | \$168.9                 | \$972.0     | \$2,905.2 |
| 1990 | \$1,707.7 | \$415.4     | \$110.1 | \$49.0  | \$2,282.2     | \$161.1                 | \$995.7     | \$3,116.8 |
| 1991 | \$1,628.7 | \$438.4     | \$118.4 | \$53.0  | \$2,238.4     | \$169.5                 | \$1,019.1   | \$3,088.0 |
| 1992 | \$1,620.5 | \$418.8     | \$110.2 | \$53.0  | \$2,202.5     | \$159.2                 | \$983.2     | \$3,026.5 |
| 1993 | \$1,602.7 | \$512.2     | \$130.2 | \$46.0  | \$2,291.0     | \$172.8                 | \$1,038.7   | \$3,157.0 |
| 1994 | \$1,676.2 | \$509.1     | \$128.3 | \$49.0  | \$2,362.6     | \$172.9                 | \$1,090.5   | \$3,280.2 |
| 1995 | \$1,729.6 | \$506.1     | \$138.9 | \$54.0  | \$2,428.6     | \$190.2                 | \$1,127.9   | \$3,366.3 |
| 1996 | \$2,045.5 | \$545.2     | \$132.6 | \$64.0  | \$2,787.4     | \$195.2                 | \$1,143.1   | \$3,735.3 |
| 1997 | \$1,999.4 | \$611.8     | \$120.3 | \$62.0  | \$2,793.5     | \$180.7                 | \$1,196.3   | \$3,809.1 |

Sources: State Energy Price and Expenditure Report 1997. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington DC. Nebraska Energy Office.

Note: There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic or solar thermal energy.

## Total Energy Expenditures by End-Use Sector, Nebraska, 1970-1997

Million Nominal Dollars



| Year | Residential | Commercial | Industrial | Transportation | Total     |
|------|-------------|------------|------------|----------------|-----------|
| 1970 | \$167.5     | \$89.9     | \$92.4     | \$317.0        | \$666.8   |
| 1971 | \$178.5     | \$100.4    | \$102.6    | \$324.9        | \$706.4   |
| 1972 | \$189.4     | \$103.1    | \$107.0    | \$354.1        | \$753.6   |
| 1973 | \$200.5     | \$110.2    | \$113.6    | \$407.9        | \$832.2   |
| 1974 | \$214.3     | \$125.4    | \$186.8    | \$526.1        | \$1,052.6 |
| 1975 | \$249.6     | \$143.2    | \$231.1    | \$578.3        | \$1,202.2 |
| 1976 | \$286.4     | \$180.1    | \$288.1    | \$652.3        | \$1,406.9 |
| 1977 | \$324.0     | \$203.9    | \$298.7    | \$721.6        | \$1,548.2 |
| 1978 | \$344.6     | \$211.7    | \$329.6    | \$781.1        | \$1,667.1 |
| 1979 | \$378.3     | \$254.3    | \$402.0    | \$982.3        | \$2,017.0 |
| 1980 | \$436.5     | \$298.6    | \$486.4    | \$1,233.0      | \$2,454.6 |
| 1981 | \$497.8     | \$367.6    | \$527.2    | \$1,329.4      | \$2,722.0 |
| 1982 | \$562.9     | \$407.2    | \$545.5    | \$1,285.6      | \$2,801.2 |
| 1983 | \$691.4     | \$487.6    | \$577.2    | \$1,217.6      | \$2,973.8 |
| 1984 | \$654.6     | \$539.0    | \$541.6    | \$1,219.6      | \$2,954.7 |
| 1985 | \$646.5     | \$534.7    | \$570.4    | \$1,176.7      | \$2,928.3 |
| 1986 | \$595.5     | \$487.9    | \$457.6    | \$978.5        | \$2,519.4 |
| 1987 | \$583.0     | \$481.2    | \$496.1    | \$1,043.5      | \$2,603.8 |
| 1988 | \$631.7     | \$517.7    | \$512.6    | \$1,071.5      | \$2,733.5 |
| 1989 | \$660.7     | \$532.9    | \$539.7    | \$1,175.8      | \$2,909.0 |
| 1990 | \$653.3     | \$542.8    | \$576.0    | \$1,349.8      | \$3,122.0 |
| 1991 | \$685.2     | \$563.1    | \$552.1    | \$1,292.9      | \$3,093.4 |
| 1992 | \$650.7     | \$535.2    | \$543.5    | \$1,302.5      | \$3,031.9 |
| 1993 | \$727.7     | \$549.9    | \$572.6    | \$1,311.3      | \$3,161.5 |
| 1994 | \$723.6     | \$593.6    | \$619.1    | \$1,348.3      | \$3,284.6 |
| 1995 | \$738.0     | \$591.6    | \$614.6    | \$1,427.0      | \$3,371.2 |
| 1996 | \$778.5     | \$628.1    | \$664.1    | \$1,670.0      | \$3,740.7 |
| 1997 | \$830.5     | \$631.2    | \$717.4    | \$1,634.6      | \$3,813.7 |

Source: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington DC.

**Total Energy Expenditures by Fuel Type and by End-Use Sector, Nebraska**  
**1995, 1996 and 1997**  
(Million Nominal Dollars)

| 1995 Fuel Type           | Residential | Commercial | Industrial | Transportation | Electric Utilities | 1995 Total Expenditures |
|--------------------------|-------------|------------|------------|----------------|--------------------|-------------------------|
| Coal                     | *           | *          | \$9.40     | \$0.00         | \$129.20           | \$138.60                |
| Natural Gas              | \$217.60    | \$158.60   | 124.90     | 0.00           | 5.10               | \$506.20                |
| Petroleum                | 32.50       | 11.60      | 256.90     | 1,427.00       | 1.50               | \$1,729.50              |
| Motor Gasoline           | -           | 1.00       | 36.50      | 890.50         | -                  | \$928.00                |
| Aviation Fuel            | -           | -          | -          | 3.20           | -                  | \$3.20                  |
| Propane                  | 29.10       | 6.10       | 43.90      | 0.80           | -                  | \$79.90                 |
| Distillates              | 3.30        | 4.40       | 145.50     | 469.80         | -                  | \$623.00                |
| Other                    | *           | *          | 30.70      | 62.70          | 1.50               | \$94.90                 |
| Nuclear                  | -           | -          | -          | -              | 54.3               | \$54.30                 |
| Total Primary            | 253.90      | 170.70     | 391.70     | 1,427.00       | 190.10             | \$2,433.40              |
| Less Utility             | -           | -          | -          | -              | -190.10            | -\$190.10               |
| Electricity Expenditures | 484.10      | 420.90     | 222.90     | 0.00           | -                  | \$1,127.90              |
| Total Expenditures       | \$738.00    | \$591.60   | \$614.60   | \$1,427.00     | \$0.00             | \$3,371.20              |

| 1996 Fuel Type           | Residential | Commercial | Industrial | Transportation | Electric Utilities | 1996 Total Expenditures |
|--------------------------|-------------|------------|------------|----------------|--------------------|-------------------------|
| Coal                     | *           | *          | \$7.80     | \$0.00         | \$124.80           | \$132.60                |
| Natural Gas              | \$239.10    | \$182.50   | 118.90     | 0.00           | 4.80               | \$545.30                |
| Petroleum                | 48.20       | 16.80      | 309.10     | 1,670.00       | 1.40               | \$2,045.50              |
| Motor Gasoline           | -           | 1.10       | 40.40      | 976.20         | -                  | \$1,017.70              |
| Aviation Fuel            | -           | -          | -          | 3.50           | -                  | \$3.50                  |
| Propane                  | 43.50       | 8.40       | 60.00      | 0.60           | -                  | \$112.50                |
| Distillates              | 4.60        | 7.10       | 159.10     | 621.60         | -                  | \$792.40                |
| Other                    | *           | *          | 49.30      | 68.10          | 1.40               | \$118.80                |
| Nuclear                  | -           | -          | -          | -              | 64.10              | \$64.10                 |
| Total Primary            | 291.50      | 199.70     | 436.40     | 1,670.00       | 195.20             | \$2,792.80              |
| Less Utility             | -           | -          | -          | -              | -195.20            | -\$195.20               |
| Electricity Expenditures | 487.00      | 428.40     | 227.70     | 0.00           | -                  | \$1,143.10              |
| Total Expenditures       | \$778.50    | \$628.10   | \$664.10   | \$1,670.00     | \$0.00             | \$3,740.70              |

| 1997 Fuel Type           | Residential | Commercial | Industrial | Transportation | Electric Utilities | 1997 Total Expenditures |
|--------------------------|-------------|------------|------------|----------------|--------------------|-------------------------|
| Coal                     | \$1.70      | \$1.90     | \$8.10     | \$0.00         | \$108.60           | \$120.30                |
| Natural Gas              | 268.00      | 165.20     | 171.00     | 0.00           | 7.60               | \$611.80                |
| Petroleum                | 47.70       | 15.20      | 300.00     | 1,634.60       | 1.90               | \$1,999.40              |
| Motor Gasoline           | -           | 1.00       | 40.60      | 953.30         | -                  | \$994.90                |
| Aviation Fuel            | -           | -          | -          | 4.20           | -                  | \$4.20                  |
| Propane                  | 44.10       | 8.90       | 59.70      | 0.50           | -                  | \$113.20                |
| Distillates              | 3.30        | 5.00       | 155.50     | 610.80         | -                  | \$774.60                |
| Other                    | *           | *          | 43.70      | 65.70          | 1.90               | \$111.30                |
| Nuclear                  | -           | -          | -          | -              | 62.70              | \$62.70                 |
| Total Primary            | 320.50      | 182.60     | 479.70     | 1,634.60       | 180.70             | \$2,798.10              |
| Less Utility             | -           | -          | -          | -              | -180.70            | -\$180.70               |
| Electricity Expenditures | 510.00      | 448.70     | 237.70     | 0.00           | -                  | \$1,196.40              |
| Total Expenditures       | \$830.50    | \$631.20   | \$717.40   | \$1,634.60     | \$0.00             | \$3,813.70              |

Source: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington DC.

Notes: An asterisk (\*) indicates a value less than 0.05 million nominal dollars. Other in the residential sector includes kerosene. Other in the commercial sector includes kerosene and residual fuel. Other in the industrial sector includes asphalt and road oil, kerosene, lubricants, residual fuel and other petroleum products. Other in the transportation sector includes jet fuel, lubricants and residual fuel. Other in the electric utilities sector includes heavy oil, light oil and petroleum coke. There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic or solar thermal energy.

# Energy Consumption, Prices and Expenditures by End-Use Sector

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## Overview

This section contains information on energy consumption, prices and expenditures for the residential, commercial, industrial, transportation and electricity utility sectors.

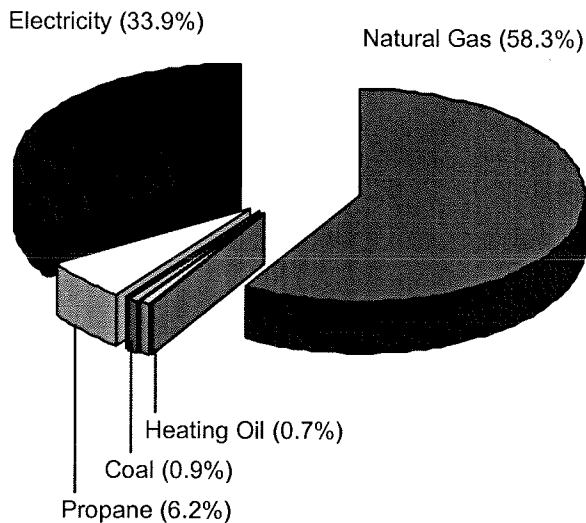
For the residential, commercial, and industrial sectors, a net total (less electrical systems losses) is provided to indicate the energy actually consumed by these sectors. In addition, energy consumed in the generation, transmission and distribution of electricity is allocated to each sector based on 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 Sector

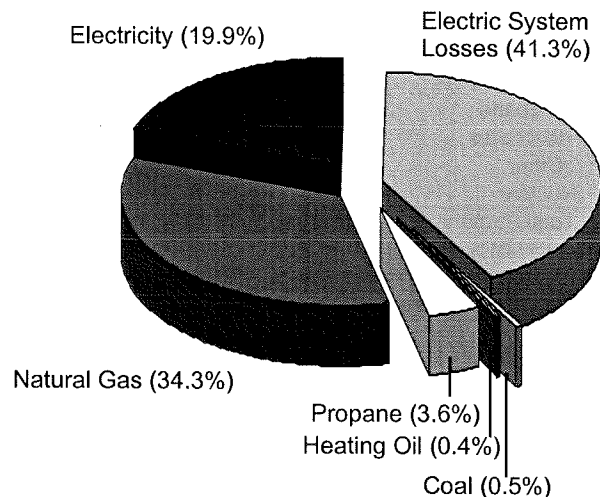
The residential sector consists of private households. Energy is consumed primarily for space heating, water heating, air conditioning, refrigeration, cooking, clothes drying and lighting. Fuel used for motor vehicles by household members is included in the transportation sector.

Between 1996 and 1997, residential sector net energy use decreased 1.1%, which was 14.6% below the peak recorded in 1972. Total energy attributed to the residential sector in 1997 increased 0.5% over 1996. Electricity use was up 3.2% from 1996, natural gas use was down 4.7% from 1996 and petroleum use was down 1.4% from 1996. Coal use was the highest since 1984.

**Net Energy Consumption by Fuel Type,  
Residential Sector,  
Nebraska, 1997**



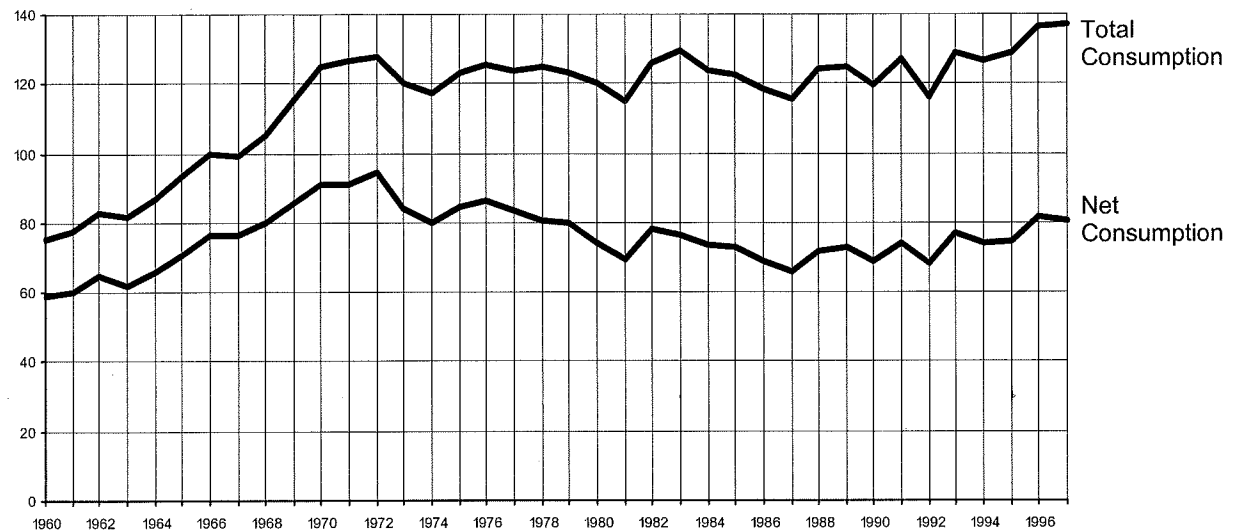
**Total Energy Consumption by  
Fuel Type, Residential Sector,  
Nebraska, 1997**





# Energy Consumption by Fuel Type, Residential Sector, Nebraska, 1960-1997

Trillion Btu



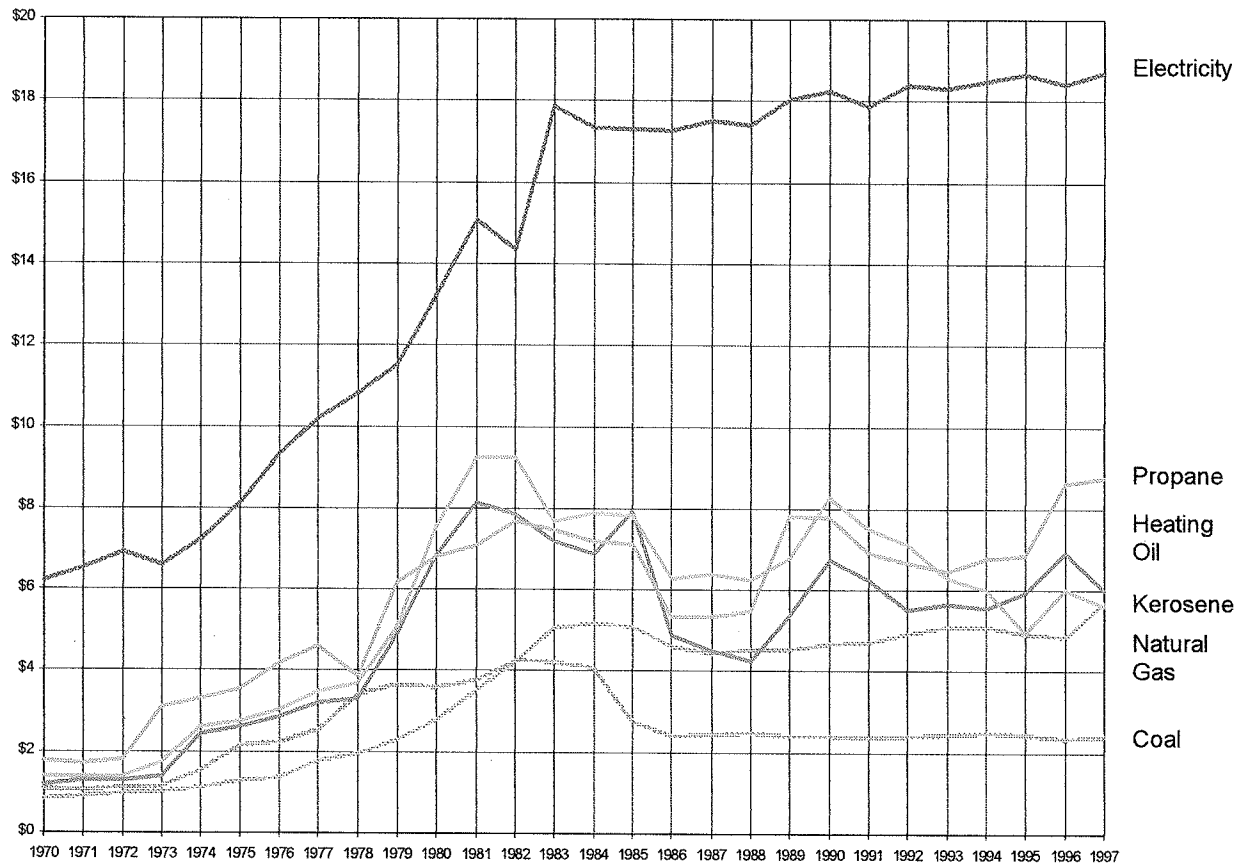
| Year | Coal | Natural Gas | Heating Oil | Kerosene | Propane | Electricity | Net Consumption | Electric System Losses | Total Consumption |
|------|------|-------------|-------------|----------|---------|-------------|-----------------|------------------------|-------------------|
| 1960 | 1.60 | 40.88       | 0.81        | 1.91     | 7.18    | 6.51        | 58.89           | 16.20                  | 75.09             |
| 1961 | 1.08 | 41.64       | 0.84        | 1.82     | 7.78    | 7.10        | 60.27           | 17.30                  | 77.57             |
| 1962 | 1.13 | 44.67       | 0.75        | 1.91     | 8.70    | 7.58        | 64.74           | 18.20                  | 82.94             |
| 1963 | 0.79 | 40.34       | 0.76        | 1.29     | 10.53   | 8.33        | 62.04           | 19.90                  | 81.94             |
| 1964 | 0.56 | 44.66       | 0.87        | 1.34     | 9.44    | 8.90        | 65.76           | 21.20                  | 86.96             |
| 1965 | 0.44 | 47.20       | 0.65        | 2.57     | 10.21   | 9.61        | 70.68           | 22.90                  | 93.58             |
| 1966 | 0.34 | 52.69       | 0.88        | 1.96     | 10.66   | 9.72        | 76.26           | 23.30                  | 99.56             |
| 1967 | 0.24 | 53.60       | 0.95        | 0.53     | 11.31   | 9.61        | 76.25           | 23.00                  | 99.25             |
| 1968 | 0.26 | 53.27       | 0.97        | 2.49     | 12.37   | 10.58       | 79.93           | 25.20                  | 105.13            |
| 1969 | 0.51 | 55.05       | 0.86        | 2.05     | 14.44   | 12.56       | 85.48           | 30.00                  | 115.48            |
| 1970 | 0.26 | 58.76       | 1.14        | 2.15     | 14.70   | 14.01       | 91.02           | 34.00                  | 125.02            |
| 1971 | 0.24 | 58.14       | 1.10        | 2.55     | 14.13   | 14.70       | 90.86           | 35.50                  | 126.36            |
| 1972 | 0.29 | 60.86       | 1.26        | 3.01     | 15.00   | 13.93       | 94.36           | 33.50                  | 127.86            |
| 1973 | 0.16 | 51.01       | 1.22        | 3.04     | 13.18   | 15.14       | 83.74           | 36.20                  | 119.94            |
| 1974 | 0.09 | 49.76       | 1.06        | 2.33     | 11.36   | 15.40       | 79.99           | 37.50                  | 117.49            |
| 1975 | 0.06 | 53.61       | 1.01        | 2.11     | 11.68   | 16.01       | 84.48           | 38.60                  | 123.08            |
| 1976 | 0.07 | 54.77       | 1.47        | 2.43     | 11.76   | 16.11       | 86.62           | 38.80                  | 125.42            |
| 1977 | 0.10 | 52.95       | 1.33        | 2.13     | 10.33   | 16.58       | 83.42           | 40.00                  | 123.42            |
| 1978 | 0.15 | 48.21       | 1.55        | 1.63     | 10.51   | 18.24       | 80.29           | 44.60                  | 124.89            |
| 1979 | 0.39 | 53.39       | 2.65        | 0.15     | 5.25    | 17.96       | 79.78           | 43.30                  | 123.08            |
| 1980 | 0.12 | 47.95       | 2.09        | 0.06     | 5.16    | 18.84       | 74.22           | 45.80                  | 120.02            |
| 1981 | 0.10 | 43.00       | 2.24        | 0.16     | 4.78    | 19.11       | 69.39           | 45.50                  | 114.89            |
| 1982 | 0.18 | 50.40       | 2.13        | 0.16     | 5.19    | 19.94       | 78.02           | 47.90                  | 125.92            |
| 1983 | 0.41 | 46.41       | 1.44        | 0.26     | 6.18    | 21.97       | 76.67           | 52.60                  | 129.27            |
| 1984 | 0.68 | 46.94       | 1.56        | 0.39     | 2.76    | 21.39       | 73.71           | 49.80                  | 123.51            |
| 1985 | 0.09 | 45.85       | 1.98        | 0.23     | 3.60    | 21.14       | 72.88           | 49.70                  | 122.58            |
| 1986 | 0.03 | 42.02       | 1.65        | 0.11     | 3.24    | 21.58       | 68.62           | 49.60                  | 118.22            |
| 1987 | 0.03 | 38.29       | 1.17        | 0.07     | 4.47    | 21.76       | 65.80           | 49.70                  | 115.50            |
| 1988 | 0.29 | 42.78       | 1.16        | 0.09     | 4.36    | 23.25       | 71.93           | 52.60                  | 124.53            |
| 1989 | 0.04 | 44.25       | 1.45        | 0.05     | 4.46    | 22.94       | 73.18           | 51.50                  | 124.68            |
| 1990 | 0.03 | 40.85       | 0.98        | 0.02     | 3.55    | 23.20       | 68.63           | 50.70                  | 119.33            |
| 1991 | 0.11 | 44.02       | 1.15        | 0.03     | 4.43    | 24.36       | 74.10           | 53.00                  | 127.10            |
| 1992 | 0.06 | 40.56       | 0.85        | 0.06     | 4.51    | 22.39       | 68.42           | 47.80                  | 116.22            |
| 1993 | 0.04 | 47.05       | 0.98        | 0.06     | 4.22    | 24.66       | 77.00           | 52.10                  | 129.10            |
| 1994 | 0.05 | 43.73       | 0.94        | 0.03     | 3.96    | 25.18       | 73.89           | 52.50                  | 126.39            |
| 1995 | 0.06 | 44.13       | 0.55        | 0.02     | 4.25    | 25.92       | 74.94           | 54.00                  | 128.94            |
| 1996 | 0.01 | 49.33       | 0.67        | 0.02     | 5.04    | 26.41       | 81.49           | 55.00                  | 136.49            |
| 1997 | 0.72 | 47.01       | 0.56        | 0.04     | 5.05    | 27.26       | 80.63           | 56.60                  | 137.23            |

Sources: State Energy Data Report 1997, Consumption Estimates, 1960-1997. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy. Washington, DC. September 1999. Nebraska Energy Office.

## Energy Prices by Fuel Type, Residential Sector, Nebraska, 1970-1997

In 1997, the average price for all energy sources for the residential sector in Nebraska increased 8.2% from the 1996 average price. The natural gas price increased 17.5%, propane increased 1.4%, electricity increased 1.5%, heating oil decreased 13.2%, kerosene decreased 6.3%, and coal increased 2.1% from their 1996 levels.

Nominal Dollars per Million Btu



| Year | Coal   | Natural Gas | Heating Oil | Kerosene | Propane | Electricity | Average |
|------|--------|-------------|-------------|----------|---------|-------------|---------|
| 1970 | \$1.08 | \$0.84      | \$1.19      | \$1.39   | \$1.78  | \$6.21      | \$1.84  |
| 1971 | \$1.03 | \$0.91      | \$1.29      | \$1.39   | \$1.71  | \$6.52      | \$1.96  |
| 1972 | \$1.10 | \$0.98      | \$1.30      | \$1.40   | \$1.82  | \$6.92      | \$2.00  |
| 1973 | \$1.16 | \$1.03      | \$1.41      | \$1.73   | \$3.10  | \$6.60      | \$2.39  |
| 1974 | \$1.52 | \$1.13      | \$2.43      | \$2.63   | \$3.33  | \$7.22      | \$2.67  |
| 1975 | \$2.15 | \$1.29      | \$2.62      | \$2.74   | \$3.57  | \$8.13      | \$2.95  |
| 1976 | \$2.22 | \$1.37      | \$2.86      | \$3.04   | \$4.18  | \$9.32      | \$3.30  |
| 1977 | \$2.56 | \$1.80      | \$3.22      | \$3.48   | \$4.60  | \$10.20     | \$3.87  |
| 1978 | \$3.42 | \$1.97      | \$3.30      | \$3.69   | \$3.87  | \$10.81     | \$4.28  |
| 1979 | \$3.68 | \$2.31      | \$4.91      | \$5.09   | \$6.17  | \$11.52     | \$4.73  |
| 1980 | \$3.60 | \$2.78      | \$6.85      | \$7.55   | \$6.82  | \$13.22     | \$5.79  |
| 1981 | \$3.75 | \$3.52      | \$8.12      | \$9.24   | \$7.08  | \$15.07     | \$7.06  |
| 1982 | \$4.26 | \$4.24      | \$7.84      | \$9.24   | \$7.67  | \$14.34     | \$7.10  |
| 1983 | \$4.23 | \$5.05      | \$7.20      | \$7.70   | \$7.46  | \$17.88     | \$8.88  |
| 1984 | \$4.09 | \$5.18      | \$6.89      | \$7.89   | \$7.18  | \$17.35     | \$8.75  |
| 1985 | \$2.76 | \$5.10      | \$7.92      | \$7.81   | \$7.12  | \$17.30     | \$8.74  |
| 1986 | \$2.40 | \$4.62      | \$4.88      | \$6.29   | \$5.34  | \$17.27     | \$8.55  |
| 1987 | \$2.43 | \$4.43      | \$4.50      | \$6.38   | \$5.35  | \$17.52     | \$8.74  |
| 1988 | \$2.49 | \$4.53      | \$4.27      | \$6.26   | \$5.48  | \$17.42     | \$8.67  |
| 1989 | \$2.42 | \$4.54      | \$5.37      | \$6.78   | \$7.82  | \$18.05     | \$8.91  |
| 1990 | \$2.42 | \$4.67      | \$6.74      | \$8.28   | \$7.79  | \$18.25     | \$9.35  |
| 1991 | \$2.36 | \$4.71      | \$6.25      | \$7.52   | \$6.92  | \$17.86     | \$9.08  |
| 1992 | \$2.39 | \$4.92      | \$5.51      | \$7.13   | \$6.65  | \$18.38     | \$9.32  |
| 1993 | \$2.44 | \$5.09      | \$5.65      | \$6.28   | \$6.45  | \$18.31     | \$9.31  |
| 1994 | \$2.47 | \$5.09      | \$5.56      | \$6.00   | \$6.78  | \$18.48     | \$9.64  |
| 1995 | \$2.44 | \$4.93      | \$5.92      | \$4.97   | \$6.84  | \$18.68     | \$9.68  |
| 1996 | \$2.35 | \$4.85      | \$6.91      | \$6.00   | \$8.62  | \$18.44     | \$9.41  |
| 1997 | \$2.40 | \$5.70      | \$6.00      | \$5.62   | \$8.74  | \$18.71     | \$10.18 |

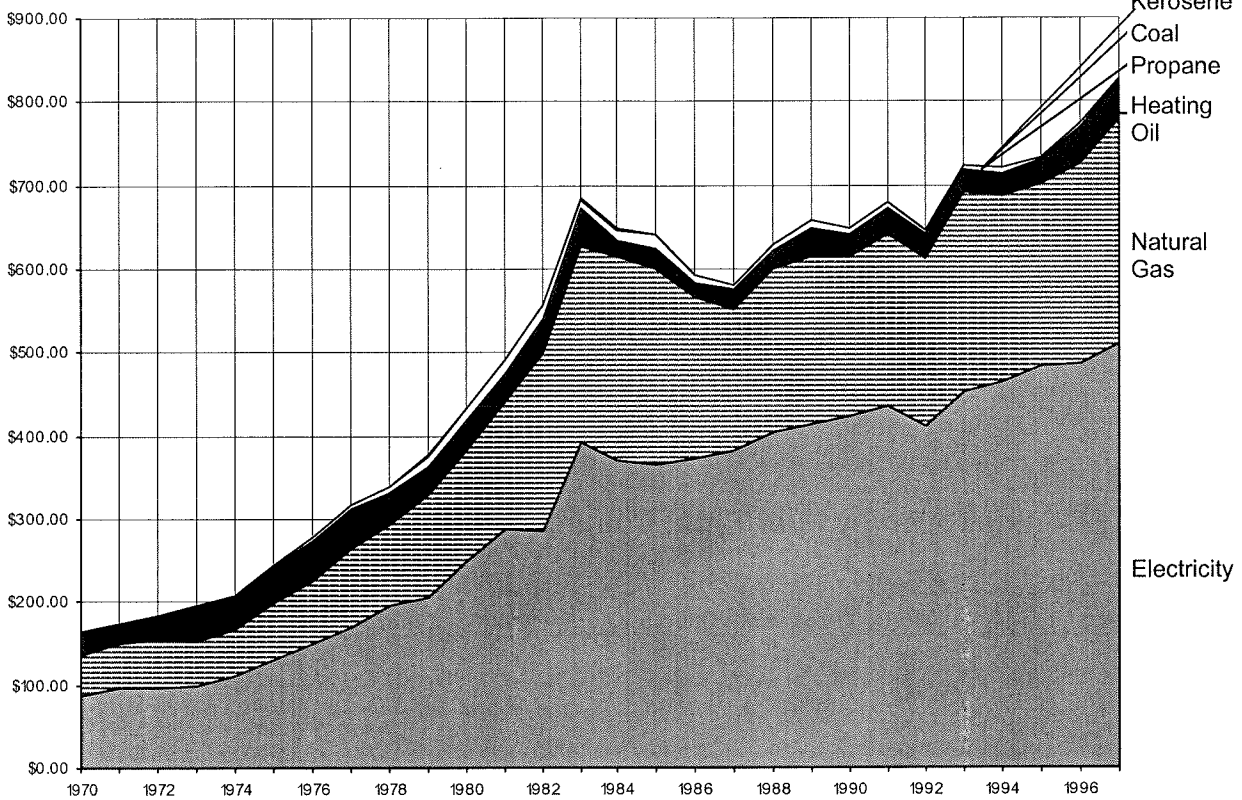
Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: The average column contains the average price of all residential sector energy sources for each year.

## Energy Expenditures by Fuel Type, Residential Sector, Nebraska, 1970-1997

Total residential sector expenditures on energy increased 6.7% to \$830.46 million in 1997 from the previous year. Expenditures for coal increased 56.3%, natural gas increased 12.1%, electricity increased 4.7%, heating oil decreased 27.9% and kerosene increased 69.2%.

Million Nominal Dollars



| Year | Coal  | Natural Gas | Heating Oil | Kerosene | Propane | Electricity | Total   |
|------|-------|-------------|-------------|----------|---------|-------------|---------|
| 1970 | \$0.3 | \$49.6      | \$1.4       | \$3.0    | \$26.1  | \$87.0      | \$167.5 |
| 1971 | \$0.2 | \$53.2      | \$1.4       | \$3.6    | \$24.1  | \$95.9      | \$178.5 |
| 1972 | \$0.3 | \$59.4      | \$1.6       | \$4.2    | \$27.3  | \$96.3      | \$189.4 |
| 1973 | \$0.2 | \$52.4      | \$1.7       | \$5.3    | \$40.9  | \$99.9      | \$200.5 |
| 1974 | \$0.1 | \$56.3      | \$2.6       | \$6.1    | \$37.8  | \$111.2     | \$214.3 |
| 1975 | \$0.1 | \$68.9      | \$2.6       | \$5.8    | \$41.7  | \$130.3     | \$249.6 |
| 1976 | \$0.1 | \$75.1      | \$4.2       | \$7.4    | \$49.2  | \$150.1     | \$286.4 |
| 1977 | \$0.3 | \$95.1      | \$4.3       | \$7.4    | \$47.5  | \$169.1     | \$324.0 |
| 1978 | \$0.5 | \$94.8      | \$5.1       | \$6.0    | \$40.6  | \$197.1     | \$344.6 |
| 1979 | \$1.4 | \$123.3     | \$13.0      | \$0.7    | \$32.4  | \$206.8     | \$378.3 |
| 1980 | \$0.4 | \$133.5     | \$14.4      | \$0.4    | \$35.2  | \$249.1     | \$436.5 |
| 1981 | \$0.4 | \$151.5     | \$18.2      | \$1.5    | \$33.8  | \$288.0     | \$497.8 |
| 1982 | \$0.8 | \$213.6     | \$16.7      | \$1.5    | \$39.8  | \$286.0     | \$562.9 |
| 1983 | \$1.8 | \$234.1     | \$10.4      | \$2.0    | \$46.1  | \$392.7     | \$691.4 |
| 1984 | \$2.8 | \$243.3     | \$10.8      | \$3.1    | \$19.8  | \$371.0     | \$654.6 |
| 1985 | \$0.3 | \$233.9     | \$15.7      | \$1.8    | \$25.6  | \$365.5     | \$646.5 |
| 1986 | \$0.1 | \$194.0     | \$8.0       | \$0.7    | \$17.3  | \$372.6     | \$595.5 |
| 1987 | \$0.1 | \$169.5     | \$5.3       | \$0.5    | \$23.9  | \$381.4     | \$583.0 |
| 1988 | \$0.7 | \$194.0     | \$4.9       | \$0.6    | \$23.9  | \$405.0     | \$631.7 |
| 1989 | \$0.1 | \$200.7     | \$7.8       | \$0.3    | \$34.8  | \$414.0     | \$660.7 |
| 1990 | \$0.1 | \$190.9     | \$6.6       | \$0.2    | \$27.6  | \$423.4     | \$653.3 |
| 1991 | \$0.3 | \$207.3     | \$7.2       | \$0.2    | \$30.7  | \$435.0     | \$685.2 |
| 1992 | \$0.1 | \$199.6     | \$4.7       | \$0.4    | \$30.0  | \$411.4     | \$650.7 |
| 1993 | \$0.1 | \$239.3     | \$5.5       | \$0.4    | \$27.2  | \$451.6     | \$727.7 |
| 1994 | \$0.1 | \$222.4     | \$5.2       | \$0.2    | \$26.9  | \$465.4     | \$723.6 |
| 1995 | \$0.2 | \$217.6     | \$3.3       | \$0.1    | \$29.1  | \$484.1     | \$738.0 |
| 1996 | \$0.0 | \$239.1     | \$4.6       | \$0.1    | \$43.5  | \$487.0     | \$778.5 |
| 1997 | \$1.7 | \$268.0     | \$3.3       | \$0.2    | \$44.1  | \$510.0     | \$830.5 |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

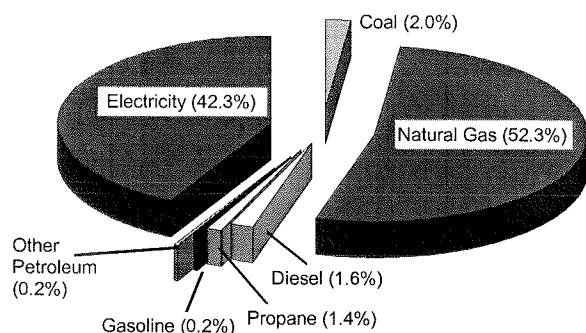
Note: The total column contains the total expenditures of all residential sector energy sources for each year.

# Commercial Sector

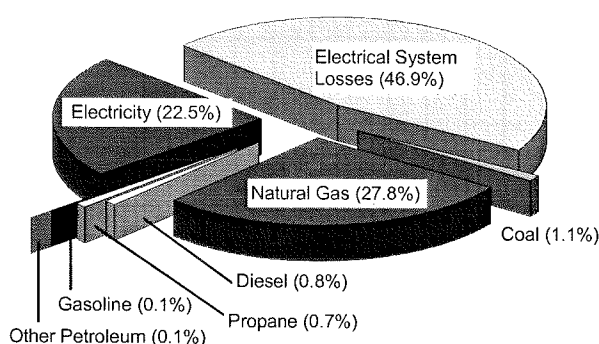
The commercial sector consists of nonmanufacturing business establishments. Included are hotels, motels, restaurants, wholesale businesses, retail stores, laundries and other service enterprises; health, social and educational institutions; and federal, state and local governments. Streetlights, pumps, bridges and public services are also included. Fuel used in motor vehicles for commercial purposes is included in the transportation sector. Examples of common uses of energy in the commercial sector include space heating, water heating, refrigeration, air conditioning and cooking.

Over the last year, commercial net energy use decreased 6.9% to 64.56 trillion Btu. Total energy use in the sector decreased 1.4% to 121.36 trillion Btu. Electricity use was up 10.0% over 1996. Coal use was at its highest level since 1984.

**Net Energy Consumption by Fuel Type, Commercial Sector, Nebraska, 1997**



**Total Energy Consumption by Fuel Type, Commercial Sector, Nebraska, 1997**



**Energy Consumption by Fuel Type, Commercial Sector, Nebraska, 1960-1997**  
(Trillion Btu)

| Year | Coal | Natural Gas | Diesel Fuel | Propane | Gasoline | Other Petroleum | Electricity | Net Total | Electric System Losses | Total  |
|------|------|-------------|-------------|---------|----------|-----------------|-------------|-----------|------------------------|--------|
| 1960 | 2.96 | 22.70       | 0.82        | 1.27    | 0.44     | 0.64            | 4.33        | 33.17     | 10.80                  | 43.97  |
| 1961 | 2.00 | 23.20       | 0.84        | 1.37    | 0.46     | 0.58            | 4.81        | 33.26     | 11.70                  | 44.96  |
| 1962 | 2.09 | 22.42       | 0.76        | 1.54    | 0.48     | 0.84            | 5.42        | 33.54     | 13.00                  | 46.54  |
| 1963 | 1.46 | 22.23       | 0.76        | 1.86    | 0.48     | 0.97            | 5.94        | 33.70     | 14.20                  | 47.90  |
| 1964 | 1.04 | 23.95       | 0.88        | 1.67    | 0.49     | 0.93            | 6.38        | 35.33     | 15.20                  | 50.53  |
| 1965 | 0.82 | 25.28       | 0.65        | 1.80    | 0.50     | 1.02            | 6.91        | 36.98     | 16.50                  | 53.48  |
| 1966 | 0.63 | 29.80       | 0.89        | 1.88    | 0.51     | 1.49            | 6.81        | 42.01     | 16.30                  | 58.31  |
| 1967 | 0.45 | 41.28       | 0.96        | 2.00    | 0.51     | 1.11            | 6.95        | 53.25     | 16.60                  | 69.85  |
| 1968 | 0.48 | 41.68       | 0.97        | 2.18    | 0.54     | 2.05            | 8.70        | 56.60     | 20.70                  | 77.30  |
| 1969 | 0.94 | 45.95       | 0.86        | 2.55    | 0.57     | 2.20            | 11.02       | 64.09     | 26.30                  | 90.39  |
| 1970 | 0.48 | 47.20       | 1.15        | 2.59    | 0.58     | 1.93            | 11.96       | 65.88     | 29.00                  | 94.88  |
| 1971 | 0.44 | 47.64       | 1.11        | 2.49    | 0.60     | 1.83            | 12.86       | 66.97     | 31.10                  | 98.07  |
| 1972 | 0.54 | 46.19       | 1.27        | 2.65    | 0.63     | 1.87            | 12.78       | 65.92     | 30.80                  | 96.72  |
| 1973 | 0.29 | 39.17       | 1.23        | 2.33    | 0.63     | 1.88            | 13.50       | 59.03     | 32.30                  | 91.33  |
| 1974 | 0.17 | 42.60       | 1.06        | 2.00    | 0.63     | 1.94            | 13.08       | 61.48     | 31.90                  | 93.38  |
| 1975 | 0.11 | 42.97       | 1.01        | 2.06    | 0.63     | 1.40            | 12.49       | 60.67     | 30.10                  | 90.77  |
| 1976 | 0.12 | 48.54       | 1.48        | 2.08    | 0.66     | 2.41            | 13.02       | 68.32     | 31.40                  | 99.72  |
| 1977 | 0.19 | 47.03       | 1.33        | 1.82    | 0.68     | 2.10            | 13.50       | 66.65     | 32.60                  | 99.25  |
| 1978 | 0.28 | 40.75       | 1.56        | 1.85    | 0.72     | 1.59            | 13.53       | 60.27     | 33.10                  | 93.37  |
| 1979 | 0.72 | 43.39       | 2.66        | 0.93    | 0.74     | 0.71            | 13.70       | 62.84     | 33.10                  | 95.94  |
| 1980 | 0.22 | 42.50       | 1.05        | 0.91    | 0.78     | 0.26            | 13.88       | 59.61     | 33.80                  | 93.41  |
| 1981 | 0.18 | 39.77       | 1.98        | 0.84    | 0.81     | 0.16            | 15.44       | 59.18     | 36.80                  | 95.98  |
| 1982 | 0.34 | 42.20       | 1.74        | 0.92    | 0.69     | 0.72            | 15.92       | 62.51     | 38.20                  | 100.71 |
| 1983 | 0.75 | 38.37       | 4.84        | 1.09    | 0.63     | 0.04            | 16.67       | 62.39     | 39.90                  | 102.29 |
| 1984 | 1.26 | 41.12       | 5.23        | 0.49    | 0.50     | 0.06            | 19.25       | 67.90     | 44.80                  | 112.70 |
| 1985 | 0.17 | 38.70       | 4.66        | 0.63    | 0.83     | 0.07            | 19.50       | 64.56     | 45.80                  | 110.36 |
| 1986 | 0.05 | 36.12       | 1.94        | 0.57    | 0.75     | 0.05            | 19.78       | 59.25     | 45.50                  | 104.75 |
| 1987 | 0.05 | 33.70       | 2.06        | 0.79    | 0.73     | 0.03            | 20.32       | 57.68     | 46.40                  | 104.08 |
| 1988 | 0.53 | 38.74       | 1.74        | 0.77    | 0.71     | 0.09            | 21.64       | 64.22     | 48.90                  | 113.12 |
| 1989 | 0.07 | 36.89       | 1.33        | 0.79    | 0.66     | 0.29            | 22.09       | 62.11     | 49.60                  | 111.71 |
| 1990 | 0.06 | 35.92       | 1.44        | 0.63    | 0.82     | 0.26            | 22.01       | 61.12     | 48.10                  | 109.22 |
| 1991 | 0.14 | 39.70       | 1.07        | 0.78    | 0.53     | 0.18            | 23.12       | 65.53     | 50.30                  | 115.83 |
| 1992 | 0.07 | 33.78       | 1.57        | 0.80    | 0.48     | 0.27            | 22.08       | 59.05     | 47.20                  | 106.25 |
| 1993 | 0.07 | 33.88       | 1.78        | 0.74    | 0.11     | 0.14            | 22.38       | 59.11     | 47.30                  | 106.41 |
| 1994 | 0.10 | 38.36       | 2.11        | 0.70    | 0.11     | 0.15            | 24.39       | 65.92     | 50.90                  | 116.82 |
| 1995 | 0.12 | 39.23       | 1.02        | 0.75    | 0.11     | 0.03            | 25.57       | 66.82     | 53.30                  | 120.12 |
| 1996 | 0.01 | 41.12       | 1.36        | 0.89    | 0.11     | 0.02            | 25.81       | 69.32     | 53.70                  | 123.02 |
| 1997 | 1.33 | 33.79       | 1.02        | 0.89    | 0.11     | 0.08            | 27.34       | 64.56     | 56.80                  | 121.36 |

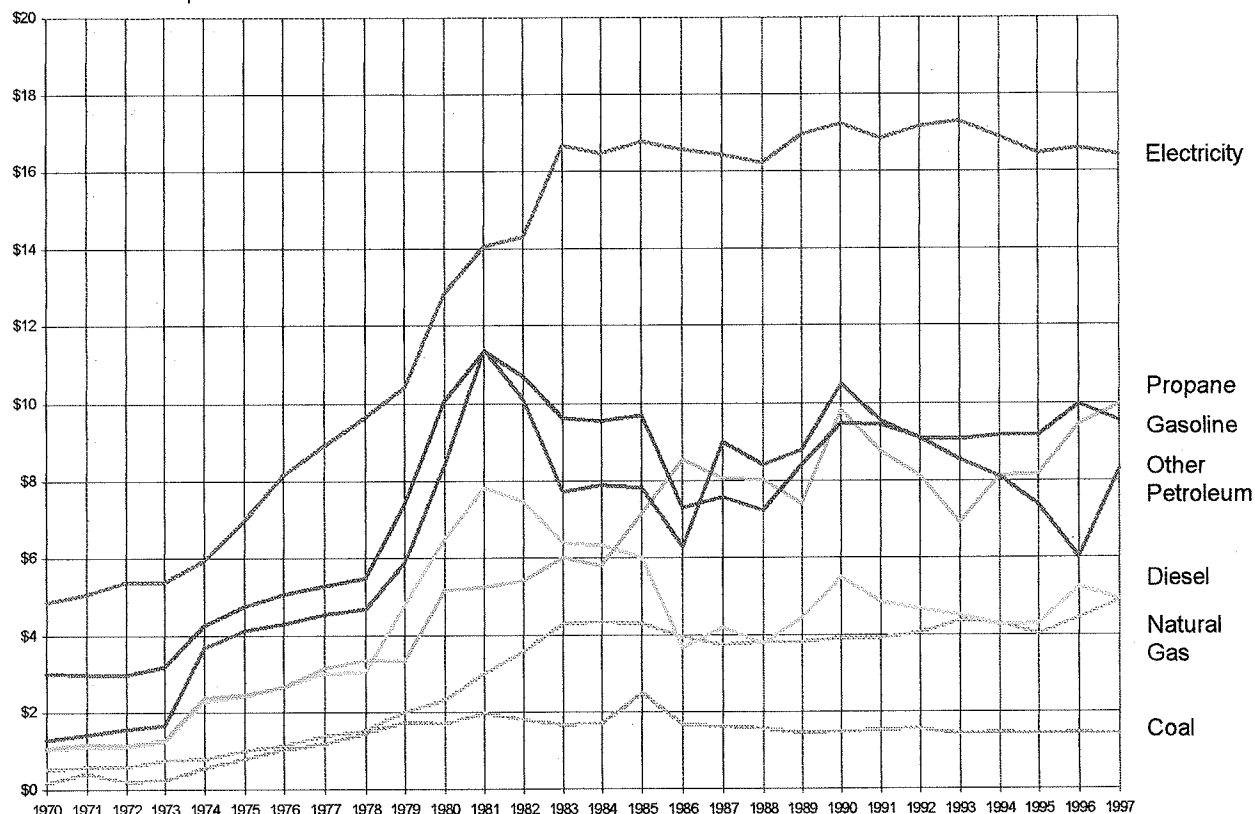
Sources: State Energy Data Report 1997, Consumption Estimates, September 1999 Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: Other petroleum includes kerosene and residual fuel.

## Energy Prices by Fuel Type, Commercial Sector, Nebraska, 1970-1997

The 1997 commercial sector energy price for natural gas increased 10.1%, propane increased 5.6%, and other petroleum products increased 37.8%. The price for electricity decreased 1.1%, gasoline decreased 4.0%, diesel decreased 6.3%, and coal decreased 2.1%.

Nominal Dollars per Million Btu



| Year | Coal   | Natural Gas | Diesel Fuel | Propane | Gasoline | Other Petroleum | Electricity | Average |
|------|--------|-------------|-------------|---------|----------|-----------------|-------------|---------|
| 1970 | \$0.16 | \$0.52      | \$1.03      | \$1.09  | \$3.03   | \$1.30          | \$4.87      | \$1.36  |
| 1971 | \$0.41 | \$0.58      | \$1.11      | \$1.18  | \$3.00   | \$1.44          | \$5.08      | \$1.50  |
| 1972 | \$0.22 | \$0.57      | \$1.12      | \$1.15  | \$3.00   | \$1.57          | \$5.37      | \$1.56  |
| 1973 | \$0.24 | \$0.75      | \$1.24      | \$1.28  | \$3.21   | \$1.67          | \$5.39      | \$1.87  |
| 1974 | \$0.57 | \$0.81      | \$2.29      | \$2.40  | \$4.27   | \$3.66          | \$5.94      | \$2.04  |
| 1975 | \$0.81 | \$1.00      | \$2.45      | \$2.46  | \$4.76   | \$4.14          | \$6.96      | \$2.36  |
| 1976 | \$1.03 | \$1.16      | \$2.67      | \$2.68  | \$5.06   | \$4.31          | \$8.16      | \$2.64  |
| 1977 | \$1.17 | \$1.39      | \$3.01      | \$3.16  | \$5.29   | \$4.56          | \$8.94      | \$3.06  |
| 1978 | \$1.47 | \$1.54      | \$3.07      | \$3.36  | \$5.50   | \$4.68          | \$9.66      | \$3.51  |
| 1979 | \$1.72 | \$2.01      | \$4.80      | \$3.35  | \$7.41   | \$5.86          | \$10.43     | \$4.05  |
| 1980 | \$1.69 | \$2.33      | \$6.49      | \$5.19  | \$10.06  | \$8.39          | \$12.86     | \$5.01  |
| 1981 | \$1.97 | \$3.02      | \$7.80      | \$5.24  | \$11.37  | \$11.38         | \$14.06     | \$6.21  |
| 1982 | \$1.79 | \$3.56      | \$7.46      | \$5.41  | \$10.71  | \$10.09         | \$14.32     | \$6.51  |
| 1983 | \$1.67 | \$4.29      | \$6.37      | \$6.01  | \$9.61   | \$7.70          | \$16.66     | \$7.81  |
| 1984 | \$1.70 | \$4.35      | \$6.34      | \$5.78  | \$9.55   | \$7.89          | \$16.44     | \$7.93  |
| 1985 | \$2.51 | \$4.29      | \$6.00      | \$7.17  | \$9.67   | \$7.81          | \$16.78     | \$8.28  |
| 1986 | \$1.67 | \$3.95      | \$3.67      | \$8.54  | \$7.28   | \$6.29          | \$16.55     | \$8.23  |
| 1987 | \$1.62 | \$3.76      | \$4.21      | \$8.07  | \$7.58   | \$8.98          | \$16.43     | \$8.34  |
| 1988 | \$1.57 | \$3.81      | \$3.80      | \$8.04  | \$7.22   | \$8.39          | \$16.22     | \$8.06  |
| 1989 | \$1.47 | \$3.82      | \$4.44      | \$7.41  | \$8.42   | \$8.80          | \$16.93     | \$8.58  |
| 1990 | \$1.48 | \$3.92      | \$5.50      | \$9.83  | \$9.49   | \$10.50         | \$17.21     | \$8.88  |
| 1991 | \$1.54 | \$3.93      | \$4.88      | \$8.76  | \$9.43   | \$9.56          | \$16.84     | \$8.59  |
| 1992 | \$1.57 | \$4.07      | \$4.68      | \$8.12  | \$9.09   | \$9.10          | \$17.15     | \$9.06  |
| 1993 | \$1.43 | \$4.38      | \$4.50      | \$6.91  | \$9.08   | \$8.56          | \$17.28     | \$9.29  |
| 1994 | \$1.46 | \$4.30      | \$4.29      | \$8.14  | \$9.17   | \$8.08          | \$16.88     | \$8.99  |
| 1995 | \$1.42 | \$4.04      | \$4.30      | \$8.17  | \$9.15   | \$7.35          | \$16.46     | \$8.84  |
| 1996 | \$1.45 | \$4.44      | \$5.24      | \$9.45  | \$9.95   | \$6.00          | \$16.60     | \$9.05  |
| 1997 | \$1.42 | \$4.89      | \$4.91      | \$9.98  | \$9.55   | \$8.27          | \$16.41     | \$9.76  |

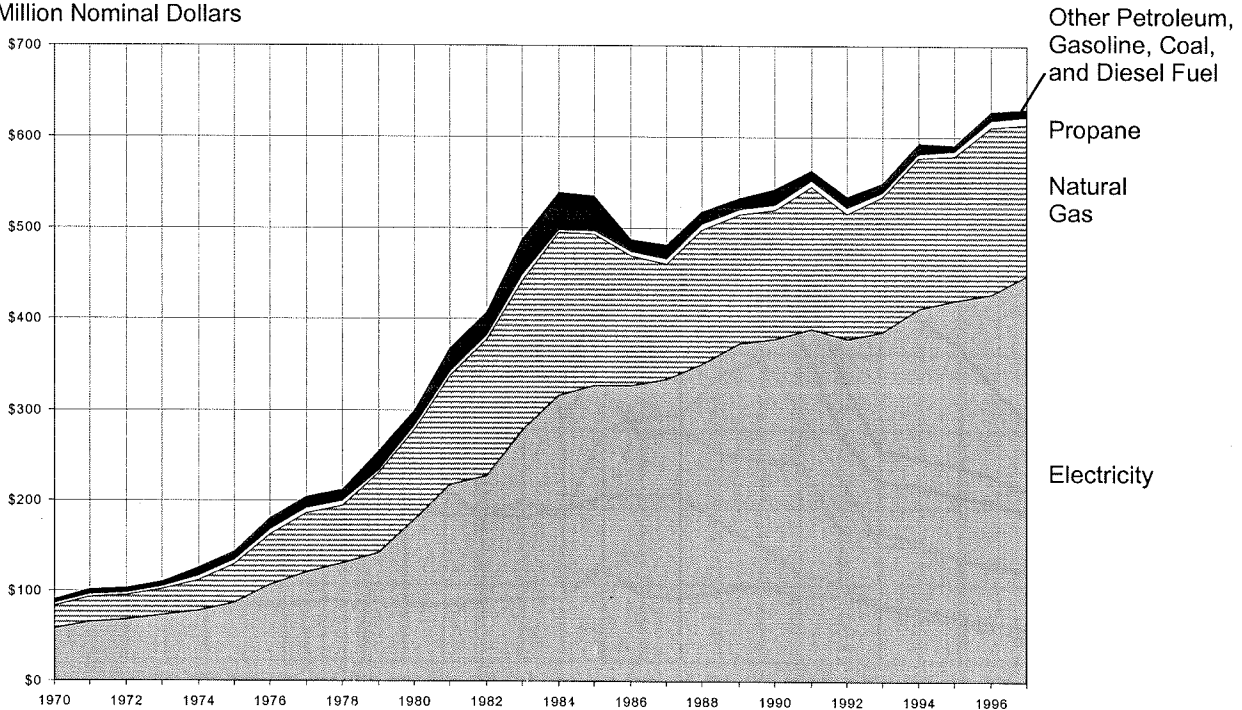
Sources: State Energy Price and Expenditure Report 1997. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Notes: Other petroleum includes kerosene and residual fuel. The average column contains the average price of all commercial sector energy sources for each year.

## Energy Expenditures by Fuel Type, Commercial Sector, Nebraska, 1970-1997

Commercial energy expenditures increased 0.5% to \$631.24 million in 1997 from the previous year. Electricity and natural gas are the major expenditures in this sector. The expenditure for electricity increased 4.7% from 1996, and the expenditure for natural gas decreased 9.5%.

Million Nominal Dollars



| Year | Coal   | Natural Gas | Diesel Fuel | Propane | Gasoline | Other Petroleum | Electricity | Total    |
|------|--------|-------------|-------------|---------|----------|-----------------|-------------|----------|
| 1970 | \$0.08 | \$24.74     | \$1.18      | \$2.82  | \$1.74   | \$1.09          | \$58.27     | \$89.92  |
| 1971 | \$0.18 | \$27.74     | \$1.23      | \$2.94  | \$1.79   | \$1.21          | \$65.35     | \$100.44 |
| 1972 | \$0.12 | \$26.54     | \$1.41      | \$3.04  | \$1.88   | \$1.42          | \$68.69     | \$103.10 |
| 1973 | \$0.07 | \$29.32     | \$1.53      | \$2.99  | \$2.03   | \$1.44          | \$72.77     | \$110.16 |
| 1974 | \$0.10 | \$34.33     | \$2.43      | \$4.81  | \$2.67   | \$3.38          | \$77.64     | \$125.37 |
| 1975 | \$0.09 | \$42.86     | \$2.48      | \$5.06  | \$3.00   | \$2.71          | \$86.94     | \$143.15 |
| 1976 | \$0.13 | \$56.22     | \$3.94      | \$5.57  | \$3.35   | \$4.57          | \$106.31    | \$180.09 |
| 1977 | \$0.22 | \$65.51     | \$4.01      | \$5.76  | \$3.60   | \$4.21          | \$120.63    | \$203.95 |
| 1978 | \$0.41 | \$62.60     | \$4.78      | \$6.22  | \$3.94   | \$3.09          | \$130.69    | \$211.74 |
| 1979 | \$1.23 | \$87.18     | \$12.80     | \$3.11  | \$5.45   | \$1.68          | \$142.86    | \$254.32 |
| 1980 | \$0.38 | \$99.09     | \$6.84      | \$4.73  | \$7.86   | \$1.08          | \$178.55    | \$298.61 |
| 1981 | \$0.36 | \$120.26    | \$15.41     | \$4.41  | \$9.19   | \$0.87          | \$217.02    | \$367.63 |
| 1982 | \$0.60 | \$150.25    | \$12.96     | \$4.96  | \$7.35   | \$3.05          | \$227.89    | \$407.16 |
| 1983 | \$1.26 | \$164.72    | \$30.88     | \$6.55  | \$6.08   | \$0.28          | \$277.72    | \$487.58 |
| 1984 | \$2.14 | \$178.97    | \$33.15     | \$2.81  | \$4.78   | \$0.44          | \$316.59    | \$538.98 |
| 1985 | \$0.42 | \$166.01    | \$27.96     | \$4.55  | \$8.04   | \$0.52          | \$327.18    | \$534.68 |
| 1986 | \$0.09 | \$142.77    | \$7.11      | \$4.88  | \$5.44   | \$0.29          | \$327.30    | \$487.87 |
| 1987 | \$0.09 | \$126.56    | \$8.67      | \$6.36  | \$5.53   | \$0.16          | \$333.80    | \$481.18 |
| 1988 | \$0.84 | \$147.70    | \$6.62      | \$6.19  | \$5.09   | \$0.24          | \$350.98    | \$517.68 |
| 1989 | \$0.10 | \$140.81    | \$5.89      | \$5.83  | \$5.56   | \$0.66          | \$374.01    | \$532.86 |
| 1990 | \$0.08 | \$140.85    | \$7.92      | \$6.15  | \$7.75   | \$1.36          | \$378.74    | \$542.84 |
| 1991 | \$0.22 | \$155.93    | \$5.20      | \$6.86  | \$4.97   | \$0.45          | \$389.47    | \$563.10 |
| 1992 | \$0.12 | \$137.62    | \$7.35      | \$6.46  | \$4.40   | \$0.57          | \$378.65    | \$535.16 |
| 1993 | \$0.10 | \$148.36    | \$8.01      | \$5.15  | \$1.00   | \$0.43          | \$386.81    | \$549.85 |
| 1994 | \$0.15 | \$165.13    | \$9.04      | \$5.69  | \$1.01   | \$0.43          | \$411.83    | \$593.56 |
| 1995 | \$0.17 | \$158.57    | \$4.38      | \$6.13  | \$1.02   | \$0.12          | \$420.93    | \$591.60 |
| 1996 | \$0.01 | \$182.52    | \$7.13      | \$8.41  | \$1.11   | \$0.14          | \$428.40    | \$628.07 |
| 1997 | \$1.90 | \$165.20    | \$5.00      | \$8.89  | \$1.05   | \$0.24          | \$448.66    | \$631.24 |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

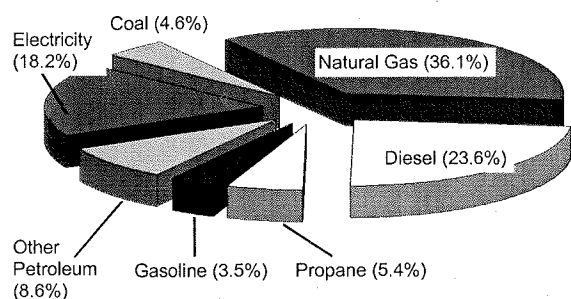
Notes: Other petroleum includes kerosene and residual fuel. The total column contains the total expenditures of all commercial sector energy sources for each year.

# Industrial Sector

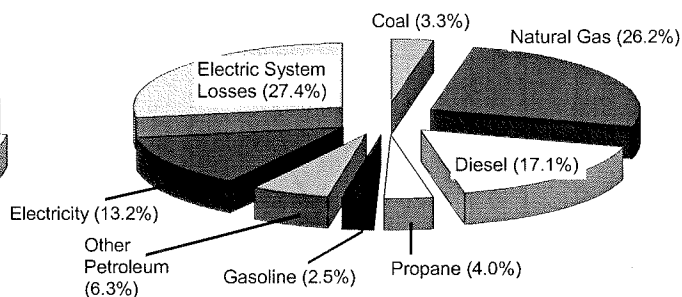
The industrial sector consists of manufacturing, construction, mining, agriculture and forestry organizations. Energy used by this sector to transport products to market or inputs to the organizations is included in the transportation sector.

In 1997, industrial sector net energy use increased by 8.0% from 1996. Total energy attributed to the industrial sector in 1997 increased 7.4% from 1996. Electricity use increased 6.3% from 1996, natural gas use increased 21.8% from 1996, coal use increased 4.8% from 1996, diesel fuel use increased 6.6%, and other petroleum use decreased 19.3% from 1996.

**Net Energy Consumption by Fuel Type, Industrial Sector, Nebraska, 1997**



**Total Energy Consumption by Fuel Type, Industrial Sector, Nebraska, 1997**



**Energy Consumption by Fuel Type, Industrial Sector, 1960-1997**  
(Trillion Btu)

| Year | Coal  | Natural Gas | Diesel Fuel | Propane | Gasoline | Other Petroleum | Electricity | Net Total | Electric System Losses | Total  |
|------|-------|-------------|-------------|---------|----------|-----------------|-------------|-----------|------------------------|--------|
| 1960 | 8.96  | 38.27       | 14.01       | 1.77    | 11.27    | 7.44            | 3.03        | 84.76     | 7.50                   | 92.26  |
| 1961 | 9.86  | 38.68       | 14.41       | 1.42    | 11.54    | 6.67            | 3.20        | 85.76     | 7.80                   | 93.56  |
| 1962 | 10.26 | 41.95       | 12.16       | 1.25    | 10.97    | 6.64            | 3.34        | 86.58     | 8.00                   | 94.58  |
| 1963 | 10.91 | 40.59       | 12.21       | 1.84    | 9.87     | 7.55            | 3.55        | 86.51     | 8.50                   | 95.01  |
| 1964 | 9.78  | 46.52       | 13.97       | 1.53    | 10.03    | 6.40            | 3.73        | 91.97     | 8.90                   | 100.87 |
| 1965 | 7.59  | 47.72       | 11.39       | 1.26    | 9.40     | 6.76            | 4.03        | 88.15     | 9.60                   | 97.75  |
| 1966 | 8.54  | 64.74       | 15.62       | 2.03    | 8.93     | 7.75            | 4.27        | 111.87    | 10.20                  | 122.07 |
| 1967 | 5.45  | 43.49       | 16.37       | 2.14    | 9.22     | 6.56            | 4.27        | 87.50     | 10.20                  | 97.70  |
| 1968 | 3.42  | 49.55       | 17.43       | 2.40    | 7.91     | 7.37            | 5.95        | 94.02     | 14.20                  | 108.22 |
| 1969 | 3.68  | 52.08       | 17.00       | 3.54    | 8.39     | 7.49            | 6.84        | 99.02     | 16.30                  | 115.32 |
| 1970 | 4.93  | 56.89       | 19.05       | 3.11    | 6.93     | 10.13           | 7.32        | 108.36    | 17.70                  | 126.06 |
| 1971 | 3.91  | 57.11       | 19.27       | 3.07    | 7.88     | 9.69            | 7.48        | 108.41    | 18.10                  | 126.51 |
| 1972 | 4.39  | 57.62       | 20.65       | 4.05    | 6.52     | 8.53            | 7.17        | 108.93    | 17.30                  | 126.23 |
| 1973 | 6.29  | 73.73       | 20.45       | 4.57    | 3.69     | 8.80            | 7.88        | 125.42    | 18.90                  | 144.32 |
| 1974 | 6.39  | 72.05       | 19.30       | 5.44    | 8.46     | 9.30            | 8.89        | 129.84    | 21.70                  | 151.54 |
| 1975 | 5.93  | 73.50       | 18.84       | 6.73    | 8.64     | 7.66            | 10.92       | 132.22    | 26.30                  | 158.52 |
| 1976 | 11.61 | 64.71       | 25.91       | 9.45    | 8.44     | 6.81            | 12.09       | 139.02    | 29.10                  | 168.12 |
| 1977 | 10.53 | 61.09       | 22.31       | 8.81    | 8.57     | 9.31            | 12.28       | 132.90    | 29.70                  | 162.60 |
| 1978 | 10.69 | 52.35       | 26.55       | 6.77    | 8.47     | 12.38           | 12.91       | 130.11    | 31.60                  | 161.71 |
| 1979 | 10.12 | 51.81       | 32.47       | 10.41   | 8.21     | 6.10            | 13.92       | 133.03    | 33.60                  | 166.63 |
| 1980 | 5.16  | 50.91       | 19.87       | 9.83    | 7.73     | 5.38            | 14.18       | 113.05    | 34.50                  | 147.55 |
| 1981 | 7.02  | 42.22       | 17.87       | 8.27    | 7.13     | 5.19            | 13.24       | 100.94    | 31.60                  | 132.54 |
| 1982 | 6.12  | 36.38       | 19.53       | 10.57   | 6.33     | 5.95            | 11.81       | 96.69     | 28.40                  | 125.09 |
| 1983 | 4.26  | 36.70       | 20.68       | 9.40    | 5.75     | 5.45            | 12.50       | 94.74     | 30.00                  | 124.74 |
| 1984 | 5.43  | 37.90       | 22.34       | 4.12    | 5.05     | 5.04            | 12.71       | 92.59     | 29.60                  | 122.19 |
| 1985 | 4.86  | 32.63       | 25.00       | 4.90    | 7.31     | 3.88            | 12.94       | 91.52     | 30.40                  | 121.92 |
| 1986 | 6.25  | 20.31       | 24.84       | 4.97    | 6.25     | 8.61            | 12.82       | 84.05     | 29.50                  | 113.55 |
| 1987 | 5.81  | 29.65       | 22.60       | 6.34    | 6.56     | 10.27           | 13.14       | 94.36     | 30.00                  | 124.36 |
| 1988 | 5.02  | 31.81       | 25.35       | 7.46    | 5.59     | 10.97           | 14.00       | 100.20    | 31.70                  | 131.90 |
| 1989 | 5.34  | 30.20       | 23.27       | 7.86    | 5.56     | 9.52            | 14.91       | 96.66     | 33.50                  | 130.16 |
| 1990 | 4.48  | 25.37       | 24.12       | 6.16    | 4.99     | 11.05           | 15.76       | 91.92     | 34.50                  | 126.42 |
| 1991 | 6.13  | 24.43       | 27.11       | 6.00    | 4.94     | 10.76           | 16.00       | 95.37     | 34.80                  | 130.17 |
| 1992 | 6.00  | 25.94       | 28.63       | 6.21    | 4.33     | 7.16            | 16.22       | 94.48     | 34.60                  | 129.08 |
| 1993 | 6.83  | 37.75       | 28.67       | 5.62    | 3.66     | 7.21            | 16.93       | 106.67    | 35.80                  | 142.47 |
| 1994 | 7.91  | 36.49       | 34.27       | 6.27    | 3.86     | 8.38            | 18.24       | 115.42    | 38.10                  | 153.52 |
| 1995 | 6.56  | 43.91       | 29.89       | 5.86    | 3.99     | 7.23            | 19.79       | 117.23    | 41.20                  | 158.43 |
| 1996 | 5.40  | 36.43       | 27.19       | 6.59    | 4.06     | 13.13           | 21.13       | 113.92    | 44.00                  | 157.92 |
| 1997 | 5.66  | 44.37       | 28.98       | 6.72    | 4.25     | 10.60           | 22.45       | 123.04    | 46.60                  | 169.64 |

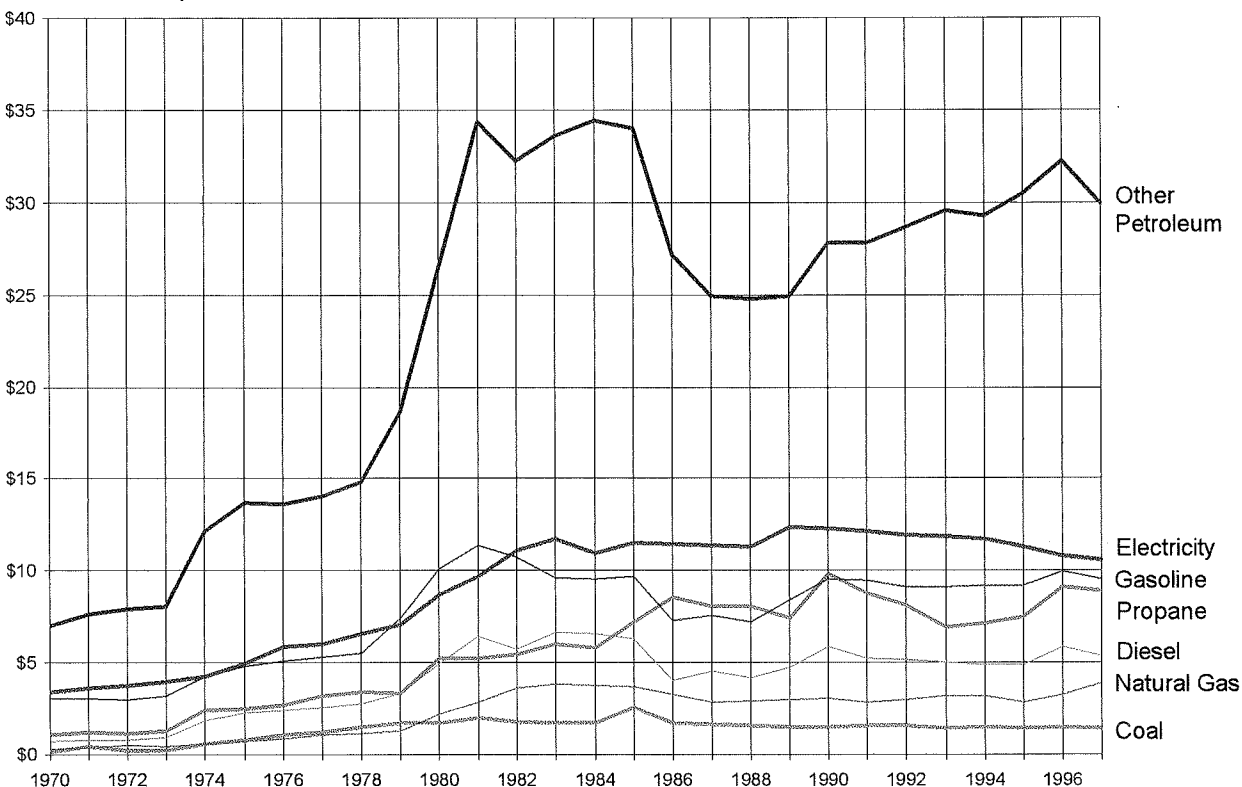
Sources: State Energy Data Report 1997, Consumption Estimates, September 1999. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: Other petroleum includes asphalt, road oil, kerosene, lubricants and residual fuel.

## Energy Prices by Fuel Type, Industrial Sector, Nebraska, 1970-1997

In 1997, energy prices paid by the industrial sector decreased for coal, diesel fuel, propane, gasoline, other petroleum and electricity. Only the price for natural gas increased. The average for all energy prices remained the same as in 1996.

Nominal Dollars per Million Btu



| Year | Coal   | Natural Gas | Diesel Fuel | Propane | Gasoline | Other Petroleum | Electricity | Average |
|------|--------|-------------|-------------|---------|----------|-----------------|-------------|---------|
| 1970 | \$0.16 | \$0.32      | \$0.73      | \$1.09  | \$3.03   | \$6.98          | \$3.42      | \$0.88  |
| 1971 | \$0.41 | \$0.36      | \$0.79      | \$1.18  | \$3.00   | \$7.60          | \$3.57      | \$0.97  |
| 1972 | \$0.22 | \$0.48      | \$0.79      | \$1.15  | \$3.00   | \$7.93          | \$3.76      | \$1.00  |
| 1973 | \$0.24 | \$0.43      | \$0.94      | \$1.28  | \$3.21   | \$8.07          | \$3.95      | \$0.94  |
| 1974 | \$0.57 | \$0.54      | \$1.85      | \$2.40  | \$4.27   | \$12.15         | \$4.20      | \$1.47  |
| 1975 | \$0.81 | \$0.69      | \$2.25      | \$2.46  | \$4.76   | \$13.68         | \$4.96      | \$1.77  |
| 1976 | \$1.03 | \$0.85      | \$2.39      | \$2.68  | \$5.06   | \$13.59         | \$5.83      | \$2.09  |
| 1977 | \$1.17 | \$1.02      | \$2.53      | \$3.16  | \$5.29   | \$14.03         | \$6.02      | \$2.27  |
| 1978 | \$1.47 | \$1.11      | \$2.76      | \$3.36  | \$5.50   | \$14.83         | \$6.54      | \$2.56  |
| 1979 | \$1.72 | \$1.26      | \$3.34      | \$3.35  | \$7.41   | \$18.60         | \$7.07      | \$3.08  |
| 1980 | \$1.69 | \$2.21      | \$4.94      | \$5.19  | \$10.06  | \$26.55         | \$8.71      | \$4.50  |
| 1981 | \$1.97 | \$2.84      | \$6.40      | \$5.24  | \$11.37  | \$34.32         | \$9.66      | \$5.35  |
| 1982 | \$1.79 | \$3.62      | \$5.72      | \$5.41  | \$10.71  | \$32.21         | \$11.06     | \$5.62  |
| 1983 | \$1.67 | \$3.79      | \$6.67      | \$6.01  | \$9.61   | \$33.61         | \$11.71     | \$6.07  |
| 1984 | \$1.70 | \$3.71      | \$6.57      | \$5.78  | \$9.55   | \$34.43         | \$10.96     | \$5.83  |
| 1985 | \$2.51 | \$3.67      | \$6.25      | \$7.17  | \$9.67   | \$34.00         | \$11.47     | \$6.21  |
| 1986 | \$1.67 | \$3.28      | \$4.04      | \$8.54  | \$7.28   | \$27.15         | \$11.42     | \$5.35  |
| 1987 | \$1.62 | \$2.81      | \$4.50      | \$8.07  | \$7.58   | \$24.92         | \$11.34     | \$5.18  |
| 1988 | \$1.57 | \$2.90      | \$4.16      | \$8.04  | \$7.22   | \$24.78         | \$11.28     | \$5.04  |
| 1989 | \$1.47 | \$2.96      | \$4.72      | \$7.41  | \$8.42   | \$24.92         | \$12.34     | \$5.50  |
| 1990 | \$1.48 | \$3.02      | \$5.87      | \$9.83  | \$9.49   | \$27.78         | \$12.28     | \$6.16  |
| 1991 | \$1.54 | \$2.80      | \$5.22      | \$8.76  | \$9.43   | \$27.81         | \$12.17     | \$5.77  |
| 1992 | \$1.57 | \$2.98      | \$5.16      | \$8.12  | \$9.09   | \$28.66         | \$11.91     | \$5.74  |
| 1993 | \$1.43 | \$3.17      | \$5.00      | \$6.91  | \$9.08   | \$29.57         | \$11.83     | \$5.35  |
| 1994 | \$1.46 | \$3.17      | \$4.86      | \$7.14  | \$9.17   | \$29.27         | \$11.70     | \$5.35  |
| 1995 | \$1.42 | \$2.85      | \$4.87      | \$7.49  | \$9.15   | \$30.45         | \$11.26     | \$5.23  |
| 1996 | \$1.45 | \$3.27      | \$5.85      | \$9.11  | \$9.95   | \$32.25         | \$10.78     | \$5.81  |
| 1997 | \$1.42 | \$3.86      | \$5.37      | \$8.88  | \$9.55   | \$29.94         | \$10.59     | \$5.81  |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

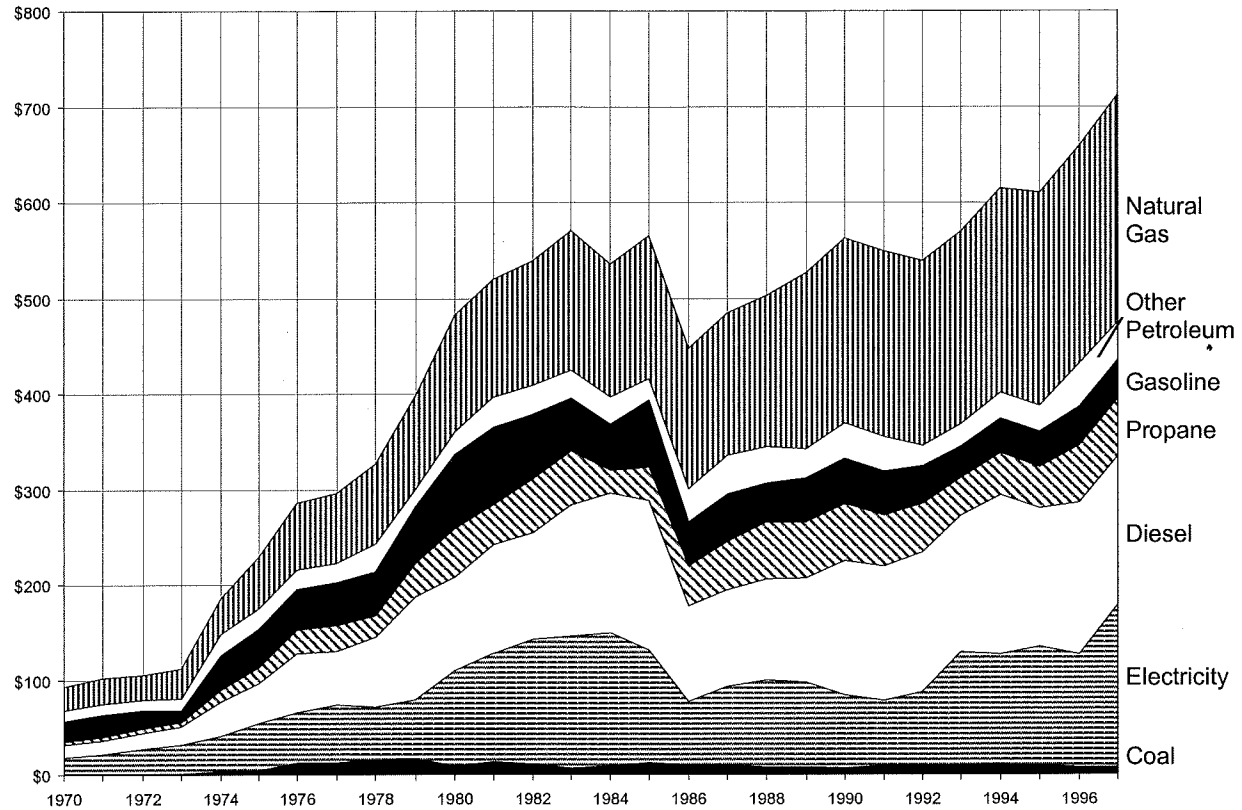
Notes: Other petroleum includes asphalt, road oil, kerosene, lubricants and residual fuel. The average column contains the average price of all industrial sector energy sources for each year.



## Energy Expenditures by Fuel Type, Industrial Sector, Nebraska, 1970-1997

Total industrial sector expenditures increased 8.0% in 1997 to \$717.41 million from 1996 to 1997.

Million Nominal Dollars



| Year | Coal   | Natural Gas | Diesel Fuel | Propane | Gasoline | Other Petroleum | Electricity | Total   |
|------|--------|-------------|-------------|---------|----------|-----------------|-------------|---------|
| 1970 | \$0.8  | \$17.0      | \$14.0      | \$3.4   | \$21.0   | \$11.1          | \$25.0      | \$92.4  |
| 1971 | \$1.6  | \$19.6      | \$15.2      | \$3.6   | \$23.6   | \$11.3          | \$26.7      | \$102.6 |
| 1972 | \$1.0  | \$26.5      | \$16.2      | \$4.6   | \$19.5   | \$10.8          | \$26.8      | \$107.0 |
| 1973 | \$1.5  | \$30.5      | \$19.2      | \$4.6   | \$11.8   | \$13.1          | \$31.0      | \$113.6 |
| 1974 | \$3.6  | \$37.2      | \$35.7      | \$13.1  | \$36.1   | \$22.0          | \$37.2      | \$186.8 |
| 1975 | \$4.8  | \$49.2      | \$42.3      | \$16.5  | \$41.1   | \$21.4          | \$54.0      | \$231.1 |
| 1976 | \$12.0 | \$53.8      | \$62.0      | \$25.3  | \$42.7   | \$19.9          | \$70.2      | \$288.1 |
| 1977 | \$12.3 | \$60.9      | \$56.4      | \$27.8  | \$45.4   | \$20.1          | \$73.7      | \$298.7 |
| 1978 | \$15.8 | \$55.9      | \$73.2      | \$22.7  | \$46.6   | \$28.5          | \$84.2      | \$329.6 |
| 1979 | \$17.4 | \$61.3      | \$108.6     | \$34.8  | \$60.8   | \$17.7          | \$98.0      | \$402.0 |
| 1980 | \$8.7  | \$101.1     | \$98.1      | \$51.0  | \$77.7   | \$23.4          | \$123.0     | \$486.4 |
| 1981 | \$13.8 | \$113.6     | \$113.9     | \$42.6  | \$81.0   | \$31.3          | \$123.9     | \$527.2 |
| 1982 | \$11.0 | \$131.1     | \$111.8     | \$57.2  | \$67.8   | \$29.8          | \$130.7     | \$545.5 |
| 1983 | \$7.1  | \$138.8     | \$137.9     | \$56.4  | \$55.2   | \$29.3          | \$146.4     | \$577.2 |
| 1984 | \$9.2  | \$140.1     | \$146.8     | \$23.8  | \$48.2   | \$28.4          | \$139.3     | \$541.6 |
| 1985 | \$12.2 | \$119.4     | \$156.4     | \$35.1  | \$70.8   | \$22.4          | \$148.5     | \$570.4 |
| 1986 | \$10.4 | \$66.3      | \$100.3     | \$42.4  | \$45.5   | \$35.8          | \$146.4     | \$457.6 |
| 1987 | \$9.4  | \$83.2      | \$101.7     | \$51.1  | \$49.7   | \$40.9          | \$149.0     | \$496.1 |
| 1988 | \$7.9  | \$92.1      | \$105.5     | \$60.0  | \$40.3   | \$39.0          | \$158.0     | \$512.6 |
| 1989 | \$7.9  | \$89.2      | \$109.8     | \$58.2  | \$46.8   | \$30.5          | \$184.0     | \$539.7 |
| 1990 | \$6.6  | \$76.5      | \$141.5     | \$60.6  | \$47.4   | \$36.7          | \$193.5     | \$576.0 |
| 1991 | \$9.4  | \$68.3      | \$141.6     | \$52.5  | \$46.6   | \$36.2          | \$194.7     | \$552.1 |
| 1992 | \$9.4  | \$77.2      | \$147.8     | \$50.4  | \$39.4   | \$22.0          | \$193.2     | \$543.5 |
| 1993 | \$9.8  | \$119.5     | \$143.5     | \$38.8  | \$33.2   | \$24.0          | \$200.4     | \$572.6 |
| 1994 | \$11.5 | \$115.3     | \$166.6     | \$44.8  | \$35.4   | \$27.5          | \$213.3     | \$619.1 |
| 1995 | \$9.4  | \$124.9     | \$145.5     | \$43.9  | \$36.5   | \$27.0          | \$222.9     | \$614.6 |
| 1996 | \$7.8  | \$118.9     | \$159.1     | \$60.0  | \$40.4   | \$45.0          | \$227.7     | \$664.1 |
| 1997 | \$8.1  | \$171.0     | \$155.5     | \$59.7  | \$40.6   | \$39.7          | \$237.7     | \$717.4 |

Sources: State Energy Price and Expenditure Report 1997. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

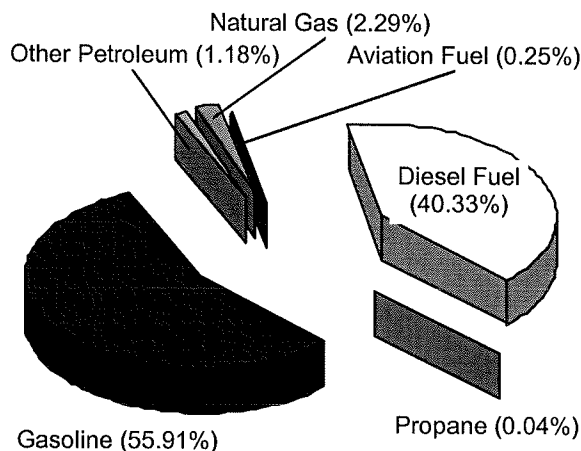
Notes: Other petroleum includes asphalt, road oil, kerosene, lubricants, and residual fuel. The total column contains the total expenditures of all industrial sector energy sources for each year.

## Transportation Sector

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

Transportation energy use in 1997 increased 2.0% to 178.47 trillion Btu from 174.90 trillion Btu in 1996. Transportation energy consumption has peaked in the last three years (1995 to 1997) compared with its history.

### Energy Consumption by Fuel Type, Transportation Sector, Nebraska 1997



### Energy Consumption by Fuel Type, Transportation Sector, 1960-1997 (Trillion Btu)

| Year | Coal | Natural Gas | Aviation Fuel | Diesel Fuel | Propane | Gasoline | Other Petroleum | Total  |
|------|------|-------------|---------------|-------------|---------|----------|-----------------|--------|
| 1960 | 0.16 | 6.51        | 1.87          | 8.17        | 0.41    | 67.07    | 3.61            | 87.80  |
| 1961 | 0.05 | 6.79        | 2.10          | 9.53        | 0.38    | 66.61    | 4.14            | 89.60  |
| 1962 | 0.04 | 6.82        | 2.13          | 9.60        | 0.36    | 69.90    | 4.45            | 93.30  |
| 1963 | 0.04 | 6.47        | 2.16          | 11.01       | 0.50    | 73.13    | 7.02            | 100.33 |
| 1964 | 0.04 | 8.14        | 2.24          | 11.06       | 0.42    | 70.49    | 6.52            | 98.90  |
| 1965 | 0.03 | 8.58        | 2.07          | 8.38        | 0.40    | 72.81    | 2.48            | 94.74  |
| 1966 | 0.03 | 9.29        | 1.83          | 8.32        | 0.74    | 76.77    | 2.54            | 99.52  |
| 1967 | 0.01 | 10.21       | 1.68          | 11.59       | 0.90    | 78.32    | 3.64            | 106.37 |
| 1968 | 0.01 | 9.97        | 2.81          | 17.91       | 1.01    | 83.22    | 3.31            | 118.24 |
| 1969 | 0.01 | 11.45       | 1.18          | 18.35       | 1.04    | 86.03    | 3.21            | 121.26 |
| 1970 | 0.01 | 13.24       | 1.00          | 21.31       | 0.82    | 89.81    | 3.35            | 129.54 |
| 1971 | 0.01 | 13.34       | 1.00          | 22.04       | 0.93    | 92.55    | 3.01            | 132.88 |
| 1972 | 0.00 | 13.32       | 0.45          | 28.19       | 0.88    | 100.09   | 3.17            | 146.10 |
| 1973 | 0.00 | 13.77       | 0.87          | 29.98       | 0.88    | 105.71   | 3.12            | 154.32 |
| 1974 | 0.00 | 11.61       | 0.88          | 28.65       | 0.93    | 98.14    | 3.07            | 143.27 |
| 1975 | 0.00 | 10.39       | 0.71          | 26.90       | 0.86    | 99.13    | 2.68            | 140.67 |
| 1976 | 0.00 | 10.37       | 0.70          | 30.25       | 1.02    | 104.25   | 2.23            | 148.82 |
| 1977 | 0.00 | 12.26       | 0.93          | 37.00       | 0.81    | 105.32   | 2.27            | 158.58 |
| 1978 | 0.00 | 8.95        | 1.04          | 41.94       | 0.93    | 106.78   | 2.29            | 161.94 |
| 1979 | 0.00 | 7.01        | 0.91          | 35.94       | 0.64    | 98.62    | 2.46            | 145.59 |
| 1980 | 0.00 | 6.88        | 1.07          | 29.77       | 0.63    | 91.82    | 2.11            | 132.29 |
| 1981 | 0.00 | 6.00        | 1.08          | 25.21       | 0.76    | 88.37    | 2.04            | 123.47 |
| 1982 | 0.00 | 5.10        | 0.62          | 29.74       | 0.63    | 88.91    | 1.84            | 126.84 |
| 1983 | 0.00 | 3.99        | 0.60          | 39.83       | 0.74    | 87.68    | 1.93            | 134.77 |
| 1984 | 0.00 | 4.53        | 0.54          | 40.45       | 0.26    | 88.33    | 2.06            | 136.16 |
| 1985 | 0.00 | 5.45        | 0.49          | 40.13       | 0.21    | 85.03    | 1.92            | 133.23 |
| 1986 | 0.00 | 3.89        | 0.59          | 41.49       | 0.14    | 86.28    | 1.88            | 134.26 |
| 1987 | 0.00 | 4.40        | 0.45          | 45.61       | 0.18    | 86.66    | 2.12            | 139.44 |
| 1988 | 0.00 | 4.62        | 0.48          | 52.89       | 0.19    | 91.46    | 2.05            | 151.69 |
| 1989 | 0.00 | 4.85        | 0.47          | 46.08       | 0.24    | 90.57    | 2.10            | 144.31 |
| 1990 | 0.00 | 3.48        | 0.42          | 45.84       | 0.22    | 91.12    | 2.16            | 143.23 |
| 1991 | 0.00 | 2.33        | 0.43          | 46.37       | 0.23    | 88.04    | 1.93            | 139.34 |
| 1992 | 0.00 | 2.50        | 0.41          | 50.89       | 0.17    | 89.48    | 1.97            | 145.42 |
| 1993 | 0.00 | 2.46        | 0.36          | 50.16       | 0.17    | 90.94    | 2.01            | 146.10 |
| 1994 | 0.00 | 3.24        | 0.38          | 53.82       | 0.26    | 90.82    | 2.10            | 150.62 |
| 1995 | 0.00 | 3.33        | 0.39          | 58.81       | 0.08    | 97.29    | 2.06            | 161.96 |
| 1996 | 0.00 | 4.60        | 0.38          | 69.72       | 0.07    | 98.12    | 2.00            | 174.90 |
| 1997 | 0.00 | 4.08        | 0.45          | 71.99       | 0.07    | 99.78    | 2.11            | 178.47 |

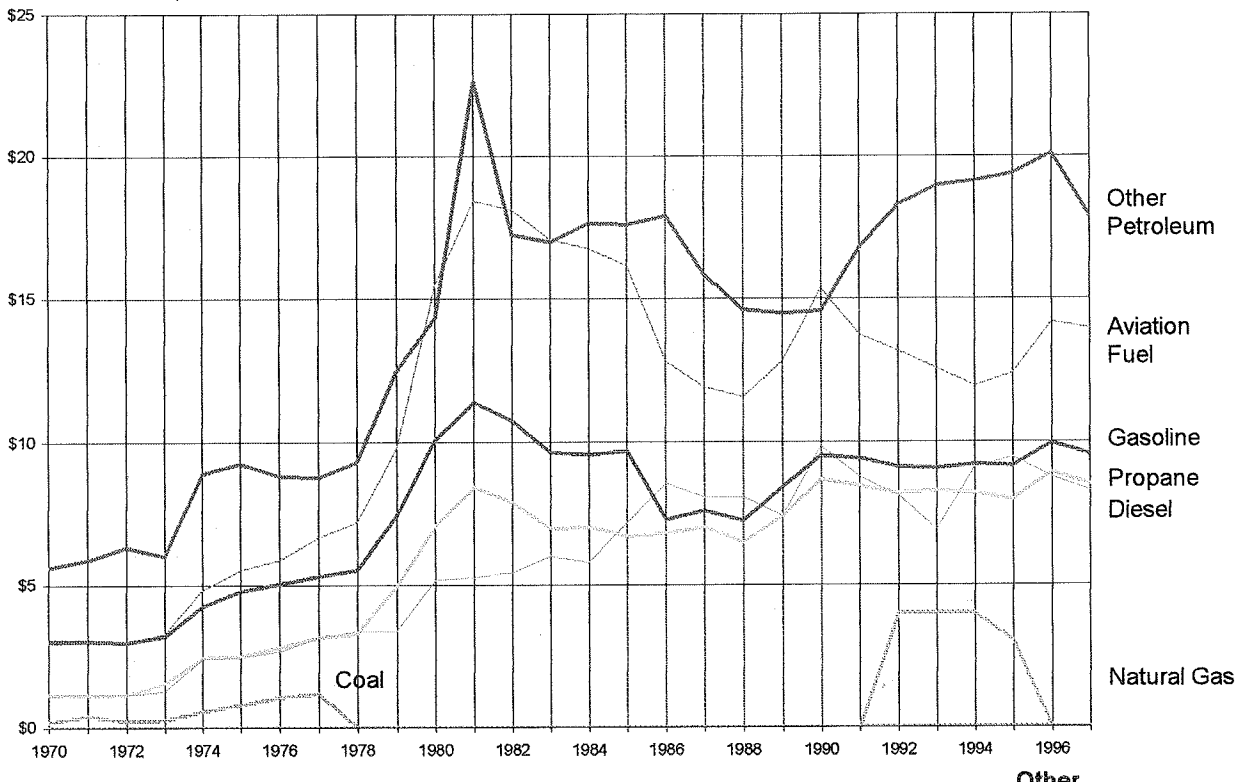
Sources: State Energy Data Report 1997, Consumption Estimates, September 1999 and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office. Energy Information Administration, Office of Energy Markets

Notes: Aviation fuel includes aviation gasoline and jet fuel. Other petroleum includes lubricants and residual fuel.

# Energy Prices by Fuel Type, Transportation Sector, Nebraska, 1970-1997

Prices of all petroleum products used in the transportation sector in 1997 decreased from 1996 levels.

Nominal Dollars per Million Btu



| Year | Coal   | Natural Gas | Aviation Fuel | Diesel Fuel | Propane | Gasoline | Other Petroleum | Average |
|------|--------|-------------|---------------|-------------|---------|----------|-----------------|---------|
| 1970 | \$0.16 | \$0.00      | \$2.92        | \$1.14      | \$1.09  | \$3.03   | \$5.58          | \$2.51  |
| 1971 | \$0.41 | \$0.00      | \$3.00        | \$1.16      | \$1.18  | \$3.00   | \$5.86          | \$2.51  |
| 1972 | \$0.22 | \$0.00      | \$2.98        | \$1.15      | \$1.15  | \$3.00   | \$6.30          | \$2.49  |
| 1973 | \$0.24 | \$0.00      | \$3.29        | \$1.52      | \$1.28  | \$3.21   | \$5.98          | \$2.72  |
| 1974 | \$0.57 | \$0.00      | \$4.84        | \$2.45      | \$2.40  | \$4.27   | \$8.88          | \$3.72  |
| 1975 | \$0.81 | \$0.00      | \$5.53        | \$2.50      | \$2.46  | \$4.76   | \$9.22          | \$4.15  |
| 1976 | \$1.03 | \$0.00      | \$5.85        | \$2.79      | \$2.68  | \$5.06   | \$8.80          | \$4.41  |
| 1977 | \$1.17 | \$0.00      | \$6.66        | \$3.16      | \$3.16  | \$5.29   | \$8.77          | \$4.62  |
| 1978 | \$0.00 | \$0.00      | \$7.20        | \$3.26      | \$3.36  | \$5.50   | \$9.29          | \$4.76  |
| 1979 | \$0.00 | \$0.00      | \$9.76        | \$4.95      | \$3.35  | \$7.41   | \$12.48         | \$6.59  |
| 1980 | \$0.00 | \$0.00      | \$15.49       | \$7.06      | \$5.19  | \$10.06  | \$14.36         | \$9.20  |
| 1981 | \$0.00 | \$0.00      | \$18.44       | \$8.39      | \$5.24  | \$11.37  | \$22.63         | \$10.59 |
| 1982 | \$0.00 | \$0.00      | \$18.11       | \$7.88      | \$5.41  | \$10.71  | \$17.25         | \$9.91  |
| 1983 | \$0.00 | \$0.00      | \$17.07       | \$6.96      | \$6.01  | \$9.61   | \$16.98         | \$8.76  |
| 1984 | \$0.00 | \$0.00      | \$16.76       | \$7.00      | \$5.78  | \$9.55   | \$17.63         | \$8.76  |
| 1985 | \$0.00 | \$0.00      | \$16.18       | \$6.68      | \$7.17  | \$9.67   | \$17.61         | \$8.70  |
| 1986 | \$0.00 | \$0.00      | \$12.84       | \$6.79      | \$8.54  | \$7.28   | \$17.91         | \$7.10  |
| 1987 | \$0.00 | \$0.00      | \$11.92       | \$7.02      | \$8.07  | \$7.58   | \$15.87         | \$7.32  |
| 1988 | \$0.00 | \$0.00      | \$11.55       | \$6.47      | \$8.04  | \$7.22   | \$14.62         | \$6.90  |
| 1989 | \$0.00 | \$0.00      | \$12.82       | \$7.39      | \$7.41  | \$8.42   | \$14.48         | \$7.96  |
| 1990 | \$0.00 | \$0.00      | \$15.35       | \$8.66      | \$9.83  | \$9.49   | \$14.60         | \$9.12  |
| 1991 | \$0.00 | \$0.00      | \$13.73       | \$8.44      | \$8.76  | \$9.43   | \$16.80         | \$9.00  |
| 1992 | \$0.00 | \$4.00      | \$13.18       | \$8.20      | \$8.12  | \$9.09   | \$18.32         | \$8.71  |
| 1993 | \$0.00 | \$4.00      | \$12.57       | \$8.29      | \$6.91  | \$9.08   | \$18.96         | \$8.74  |
| 1994 | \$0.00 | \$4.00      | \$11.95       | \$8.21      | \$9.11  | \$9.17   | \$19.11         | \$8.73  |
| 1995 | \$0.00 | \$3.00      | \$12.37       | \$7.99      | \$9.46  | \$9.15   | \$19.41         | \$8.69  |
| 1996 | \$0.00 | \$0.00      | \$14.17       | \$8.92      | \$8.78  | \$9.95   | \$20.08         | \$9.49  |
| 1997 | \$0.00 | \$0.00      | \$13.98       | \$8.48      | \$8.28  | \$9.55   | \$17.86         | \$9.06  |

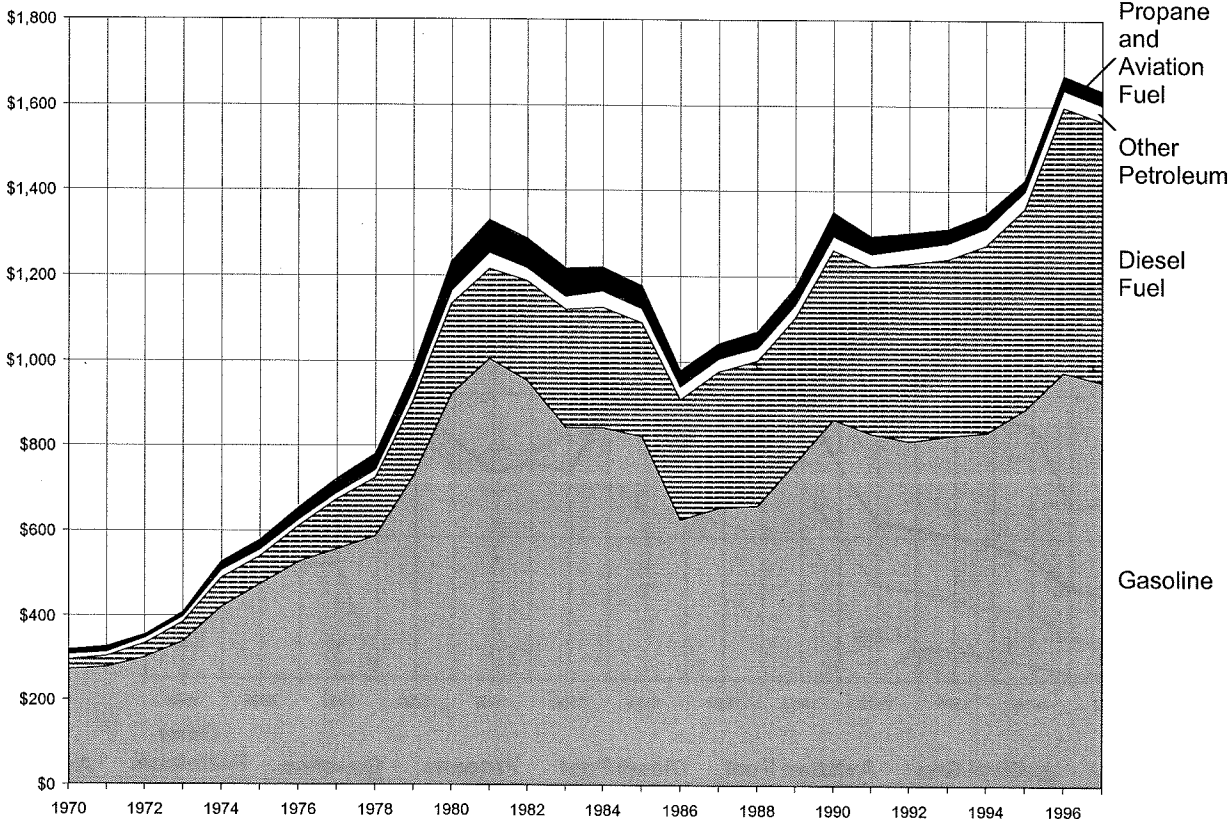
Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Notes: All zeros in the coal and natural gas columns indicate no consumption by the end user. Aviation fuel includes aviation gasoline and jet fuel. Other petroleum includes lubricants and residual fuel. The average column contains the average price of all transportation sector energy sources for each year.

## Energy Expenditures by Fuel Type, Transportation Sector, Nebraska, 1970-1997

Transportation sector expenditures on energy decreased 2.1% in 1997 to \$1,634.6 million (\$1.635 billion) from 1996 energy expenditures of \$1,670.02 million (\$1.670 billion).

Million Nominal Dollars



| Year | Coal  | Natural Gas | Aviation Fuel | Diesel Fuel | Propane | Gasoline  | Other Petroleum | Total     |
|------|-------|-------------|---------------|-------------|---------|-----------|-----------------|-----------|
| 1970 | \$0.0 | \$0.0       | \$9.5         | \$24.4      | \$0.9   | \$271.7   | \$10.5          | \$317.0   |
| 1971 | \$0.0 | \$0.0       | \$10.0        | \$25.5      | \$1.1   | \$277.6   | \$10.8          | \$324.9   |
| 1972 | \$0.0 | \$0.0       | \$8.4         | \$32.5      | \$1.0   | \$299.9   | \$12.3          | \$354.1   |
| 1973 | \$0.0 | \$0.0       | \$10.5        | \$45.5      | \$1.1   | \$338.9   | \$11.8          | \$407.9   |
| 1974 | \$0.0 | \$0.0       | \$18.7        | \$70.3      | \$2.2   | \$418.7   | \$16.2          | \$526.1   |
| 1975 | \$0.0 | \$0.0       | \$21.7        | \$67.2      | \$2.1   | \$472.2   | \$15.1          | \$578.3   |
| 1976 | \$0.0 | \$0.0       | \$23.6        | \$84.4      | \$2.7   | \$527.0   | \$14.6          | \$652.3   |
| 1977 | \$0.0 | \$0.0       | \$29.9        | \$116.8     | \$2.6   | \$557.4   | \$15.0          | \$721.6   |
| 1978 | \$0.0 | \$0.0       | \$36.4        | \$136.9     | \$3.1   | \$587.5   | \$17.3          | \$781.1   |
| 1979 | \$0.0 | \$0.0       | \$47.5        | \$177.9     | \$2.2   | \$730.4   | \$24.4          | \$982.3   |
| 1980 | \$0.0 | \$0.0       | \$65.9        | \$210.2     | \$3.3   | \$923.3   | \$30.3          | \$1,233.0 |
| 1981 | \$0.0 | \$0.0       | \$72.6        | \$211.5     | \$4.0   | \$1,004.8 | \$36.5          | \$1,329.4 |
| 1982 | \$0.0 | \$0.0       | \$63.9        | \$234.3     | \$3.4   | \$952.2   | \$31.8          | \$1,285.6 |
| 1983 | \$0.0 | \$0.0       | \$60.2        | \$277.2     | \$4.5   | \$843.0   | \$32.8          | \$1,217.6 |
| 1984 | \$0.0 | \$0.0       | \$54.8        | \$283.3     | \$1.5   | \$843.6   | \$36.3          | \$1,219.6 |
| 1985 | \$0.0 | \$0.0       | \$50.8        | \$268.1     | \$1.5   | \$822.6   | \$33.8          | \$1,176.7 |
| 1986 | \$0.0 | \$0.0       | \$37.8        | \$281.8     | \$1.2   | \$628.5   | \$29.3          | \$978.5   |
| 1987 | \$0.0 | \$0.0       | \$36.3        | \$320.3     | \$1.5   | \$656.7   | \$28.8          | \$1,043.5 |
| 1988 | \$0.0 | \$0.0       | \$37.7        | \$342.3     | \$1.5   | \$660.0   | \$29.9          | \$1,071.5 |
| 1989 | \$0.0 | \$0.0       | \$41.0        | \$340.4     | \$1.8   | \$762.2   | \$30.4          | \$1,175.8 |
| 1990 | \$0.0 | \$0.0       | \$53.9        | \$397.2     | \$2.2   | \$865.0   | \$31.5          | \$1,349.8 |
| 1991 | \$0.0 | \$0.0       | \$36.8        | \$391.2     | \$2.0   | \$830.4   | \$32.5          | \$1,292.9 |
| 1992 | \$0.0 | \$0.0       | \$34.2        | \$417.1     | \$1.4   | \$813.8   | \$36.1          | \$1,302.5 |
| 1993 | \$0.0 | \$0.0       | \$30.8        | \$415.8     | \$1.2   | \$825.4   | \$38.0          | \$1,311.3 |
| 1994 | \$0.0 | \$0.0       | \$31.1        | \$441.7     | \$2.4   | \$833.0   | \$40.1          | \$1,348.3 |
| 1995 | \$0.0 | \$0.0       | \$26.0        | \$469.8     | \$0.8   | \$890.5   | \$40.0          | \$1,427.0 |
| 1996 | \$0.0 | \$0.0       | \$31.5        | \$621.6     | \$0.6   | \$976.2   | \$40.2          | \$1,670.0 |
| 1997 | \$0.0 | \$0.0       | \$32.2        | \$610.8     | \$0.5   | \$953.3   | \$37.7          | \$1,634.6 |

Sources: State Energy Price and Expenditure Report 1997. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

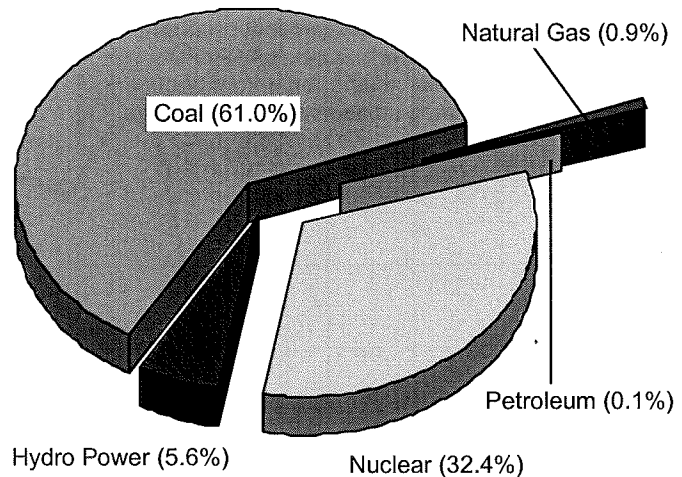
Notes: All zeros in the coal and natural gas columns indicate no consumption by the end user. Aviation fuel includes aviation gasoline and jet fuel. Other petroleum includes lubricants and residual fuel. The total column contains the total expenditures of all transportation sector energy sources for each year.

## Electric Utility Sector

The electric utility sector consists of facilities which generate electricity primarily for use by the public. Energy is used for the generation, distribution and transmission of electric power.

In 1997, energy use in the electric utility sector increased 3.8% over 1996.

**Energy Consumption by Fuel Type,  
Electric Utility Sector, Nebraska, 1997**



**Energy Consumption by Fuel Type, Electric Utility Sector, Nebraska, 1960-1997**  
(Trillion Btu)

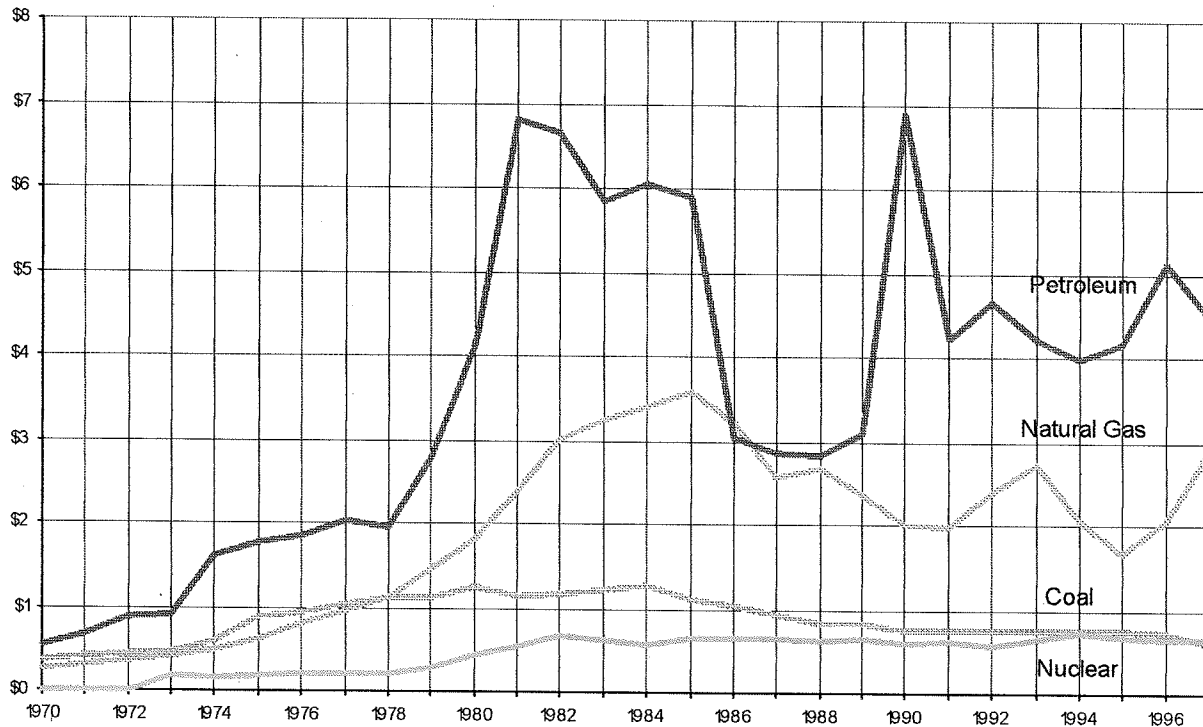
| Year | Coal   | Natural Gas | Petroleum | Nuclear | Hydro Power | Total  |
|------|--------|-------------|-----------|---------|-------------|--------|
| 1960 | 6.33   | 32.06       | 0.97      | 0.00    | 10.31       | 49.68  |
| 1961 | 5.18   | 34.26       | 0.97      | 0.00    | 9.88        | 50.29  |
| 1962 | 9.52   | 33.47       | 1.30      | 0.00    | 10.29       | 54.58  |
| 1963 | 11.32  | 36.15       | 1.57      | 0.89    | 10.62       | 60.54  |
| 1964 | 12.24  | 37.28       | 0.92      | 1.08    | 10.48       | 62.02  |
| 1965 | 11.94  | 35.94       | 1.09      | -0.06   | 11.66       | 60.56  |
| 1966 | 10.21  | 39.34       | 0.77      | 0.00    | 12.10       | 62.44  |
| 1967 | 12.15  | 39.32       | 0.67      | 0.00    | 12.13       | 64.27  |
| 1968 | 13.04  | 48.47       | 0.80      | 0.00    | 13.04       | 75.35  |
| 1969 | 21.94  | 45.08       | 1.13      | 0.00    | 12.93       | 81.08  |
| 1970 | 24.05  | 48.02       | 1.92      | 0.00    | 14.38       | 88.37  |
| 1971 | 21.74  | 49.23       | 1.30      | 0.00    | 14.24       | 86.51  |
| 1972 | 28.28  | 48.37       | 2.73      | 0.00    | 14.24       | 93.62  |
| 1973 | 30.12  | 53.11       | 2.29      | 6.54    | 14.24       | 106.31 |
| 1974 | 26.10  | 47.22       | 4.59      | 44.60   | 13.51       | 136.02 |
| 1975 | 26.78  | 37.05       | 5.94      | 65.15   | 12.62       | 147.54 |
| 1976 | 41.91  | 19.05       | 7.91      | 64.34   | 13.24       | 146.45 |
| 1977 | 48.52  | 15.11       | 5.46      | 80.25   | 12.74       | 162.07 |
| 1978 | 48.70  | 12.43       | 7.81      | 84.52   | 12.30       | 165.77 |
| 1979 | 66.38  | 13.36       | 4.62      | 94.20   | 12.90       | 191.46 |
| 1980 | 88.44  | 11.26       | 1.61      | 63.08   | 13.88       | 178.26 |
| 1981 | 91.28  | 4.30        | 0.55      | 66.05   | 12.51       | 174.68 |
| 1982 | 90.11  | 1.53        | 0.77      | 96.92   | 12.67       | 201.99 |
| 1983 | 99.39  | 1.50        | 0.47      | 66.32   | 14.16       | 181.84 |
| 1984 | 116.90 | 1.42        | 0.24      | 62.68   | 14.04       | 195.27 |
| 1985 | 110.36 | 1.23        | 0.36      | 44.70   | 15.05       | 171.70 |
| 1986 | 103.60 | 1.66        | 0.62      | 82.69   | 17.53       | 206.11 |
| 1987 | 110.57 | 1.70        | 0.57      | 92.55   | 16.33       | 221.72 |
| 1988 | 133.50 | 1.95        | 0.85      | 73.35   | 13.94       | 223.60 |
| 1989 | 126.55 | 2.49        | 0.67      | 86.62   | 12.08       | 228.41 |
| 1990 | 137.44 | 3.56        | 0.18      | 80.22   | 11.86       | 233.26 |
| 1991 | 145.62 | 3.48        | 0.18      | 86.43   | 10.90       | 246.60 |
| 1992 | 134.80 | 1.82        | 0.14      | 93.42   | 11.12       | 241.31 |
| 1993 | 159.19 | 1.83        | 0.25      | 72.69   | 10.33       | 244.29 |
| 1994 | 152.20 | 3.02        | 0.26      | 67.74   | 13.53       | 236.76 |
| 1995 | 172.70 | 3.05        | 0.36      | 79.78   | 14.71       | 270.60 |
| 1996 | 173.54 | 2.32        | 0.27      | 100.46  | 16.56       | 293.15 |
| 1997 | 185.58 | 2.65        | 0.42      | 98.46   | 17.24       | 304.35 |

Sources: *State Energy Data Report 1997, Consumption Estimates, September 1999.* Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

## Energy Prices by Fuel Type, Electric Utility Sector, Nebraska, 1970-1997

The nuclear fuel price paid by the electric utility sector in 1997 remained the same as it was in 1996. At \$.58, the coal price was 54.7% lower than the peak price of \$1.28 paid in 1984. Coal and petroleum prices decreased from 1996 to 1997 and the natural gas price increased.

Nominal Dollars per Million Btu



| Year | Coal   | Natural Gas | Petroleum | Nuclear | Average |
|------|--------|-------------|-----------|---------|---------|
| 1970 | \$0.35 | \$0.27      | \$0.54    | \$0.00  | \$0.30  |
| 1971 | \$0.40 | \$0.31      | \$0.69    | \$0.00  | \$0.34  |
| 1972 | \$0.43 | \$0.38      | \$0.88    | \$0.00  | \$0.41  |
| 1973 | \$0.47 | \$0.42      | \$0.91    | \$0.17  | \$0.43  |
| 1974 | \$0.60 | \$0.49      | \$1.60    | \$0.16  | \$0.43  |
| 1975 | \$0.87 | \$0.63      | \$1.77    | \$0.17  | \$0.50  |
| 1976 | \$0.93 | \$0.81      | \$1.86    | \$0.20  | \$0.62  |
| 1977 | \$1.05 | \$0.97      | \$2.02    | \$0.20  | \$0.62  |
| 1978 | \$1.11 | \$1.11      | \$1.95    | \$0.20  | \$0.65  |
| 1979 | \$1.12 | \$1.45      | \$2.79    | \$0.29  | \$0.75  |
| 1980 | \$1.24 | \$1.82      | \$4.14    | \$0.44  | \$1.00  |
| 1981 | \$1.14 | \$2.40      | \$6.82    | \$0.55  | \$0.95  |
| 1982 | \$1.17 | \$3.02      | \$6.65    | \$0.68  | \$0.96  |
| 1983 | \$1.22 | \$3.26      | \$5.85    | \$0.62  | \$1.01  |
| 1984 | \$1.28 | \$3.40      | \$6.04    | \$0.57  | \$1.06  |
| 1985 | \$1.11 | \$3.58      | \$5.89    | \$0.65  | \$1.01  |
| 1986 | \$1.04 | \$3.21      | \$3.05    | \$0.64  | \$0.89  |
| 1987 | \$0.94 | \$2.56      | \$2.87    | \$0.64  | \$0.82  |
| 1988 | \$0.84 | \$2.69      | \$2.83    | \$0.63  | \$0.79  |
| 1989 | \$0.83 | \$2.36      | \$3.09    | \$0.65  | \$0.78  |
| 1990 | \$0.75 | \$2.01      | \$6.89    | \$0.61  | \$0.73  |
| 1991 | \$0.75 | \$1.97      | \$4.20    | \$0.62  | \$0.72  |
| 1992 | \$0.75 | \$2.38      | \$4.65    | \$0.57  | \$0.69  |
| 1993 | \$0.76 | \$2.73      | \$4.20    | \$0.64  | \$0.74  |
| 1994 | \$0.77 | \$2.05      | \$3.98    | \$0.73  | \$0.77  |
| 1995 | \$0.75 | \$1.66      | \$4.15    | \$0.68  | \$0.74  |
| 1996 | \$0.72 | \$2.06      | \$5.11    | \$0.64  | \$0.71  |
| 1997 | \$0.58 | \$2.87      | \$4.50    | \$0.64  | \$0.63  |

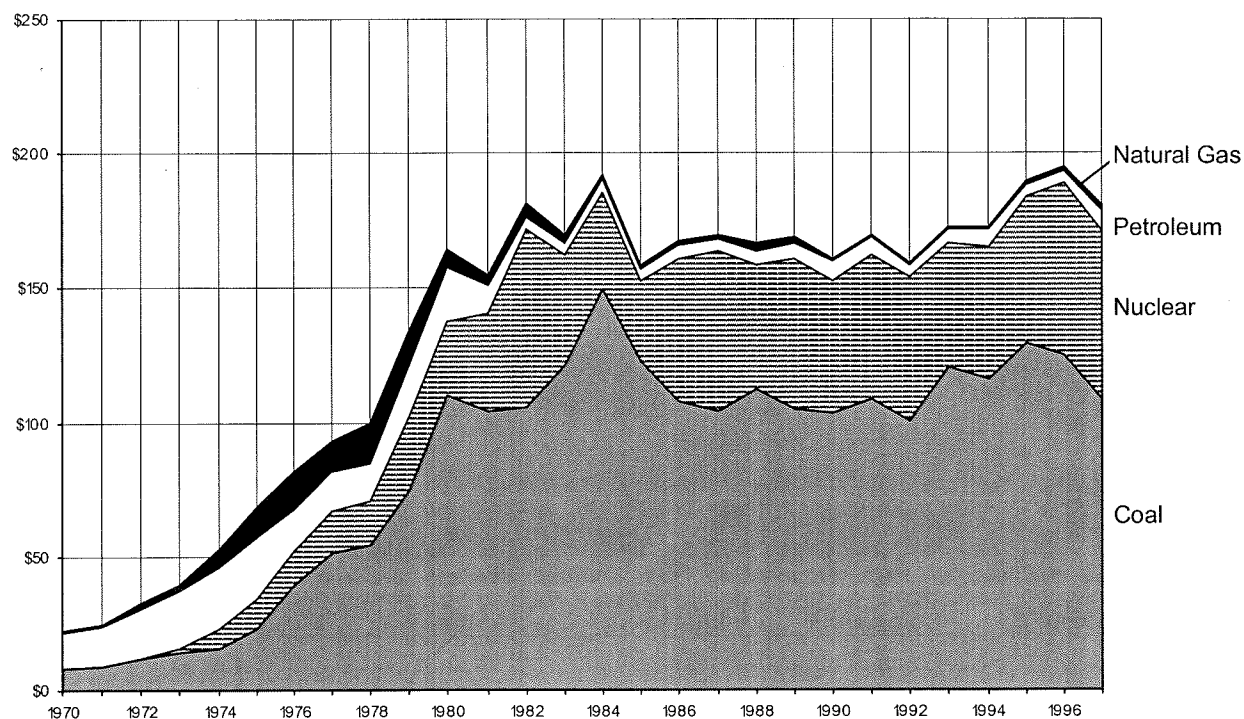
Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: The average column contains the average price of all electric utility sector energy sources for each year. There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic or solar thermal energy.

## Energy Expenditures by Fuel Type, Electric Utility Sector, Nebraska, 1970-1997

Electric utility expenditures on energy decreased 7.4% to \$180.7 million in 1997 compared to \$195.2 million in 1996. Expenditures in 1996 reached above peak expenditures of \$191.7 million in 1984.

Million Nominal Dollars



| Year | Coal    | Natural Gas | Petroleum | Nuclear | Total   |
|------|---------|-------------|-----------|---------|---------|
| 1970 | \$8.5   | \$12.8      | \$1.0     | \$0.0   | \$22.3  |
| 1971 | \$8.8   | \$15.2      | \$0.9     | \$0.0   | \$24.9  |
| 1972 | \$12.2  | \$18.2      | \$2.4     | \$0.0   | \$32.8  |
| 1973 | \$14.2  | \$22.1      | \$2.1     | \$1.1   | \$39.5  |
| 1974 | \$15.7  | \$23.0      | \$7.3     | \$7.0   | \$53.2  |
| 1975 | \$23.4  | \$23.3      | \$10.5    | \$11.0  | \$68.1  |
| 1976 | \$39.1  | \$15.5      | \$14.7    | \$12.9  | \$82.2  |
| 1977 | \$51.0  | \$14.6      | \$11.0    | \$16.0  | \$92.6  |
| 1978 | \$54.1  | \$13.8      | \$15.2    | \$16.6  | \$99.7  |
| 1979 | \$74.1  | \$19.3      | \$12.9    | \$27.5  | \$133.8 |
| 1980 | \$109.8 | \$20.5      | \$6.7     | \$27.7  | \$164.7 |
| 1981 | \$104.4 | \$10.3      | \$3.7     | \$36.3  | \$154.8 |
| 1982 | \$105.3 | \$4.6       | \$5.1     | \$66.2  | \$181.3 |
| 1983 | \$121.0 | \$4.9       | \$2.7     | \$41.1  | \$169.7 |
| 1984 | \$149.9 | \$4.8       | \$1.5     | \$35.5  | \$191.7 |
| 1985 | \$122.9 | \$4.4       | \$2.1     | \$29.3  | \$158.7 |
| 1986 | \$107.7 | \$5.3       | \$1.9     | \$52.8  | \$167.8 |
| 1987 | \$104.5 | \$4.4       | \$1.6     | \$59.0  | \$169.4 |
| 1988 | \$112.3 | \$5.2       | \$2.4     | \$46.5  | \$166.5 |
| 1989 | \$104.7 | \$5.9       | \$2.1     | \$56.3  | \$168.9 |
| 1990 | \$103.4 | \$7.2       | \$1.3     | \$49.3  | \$161.1 |
| 1991 | \$108.5 | \$6.8       | \$0.8     | \$53.4  | \$169.5 |
| 1992 | \$100.6 | \$4.3       | \$0.7     | \$53.6  | \$159.2 |
| 1993 | \$120.2 | \$5.0       | \$1.0     | \$46.5  | \$172.8 |
| 1994 | \$116.4 | \$6.2       | \$1.1     | \$49.1  | \$172.9 |
| 1995 | \$129.2 | \$5.1       | \$1.5     | \$54.3  | \$190.2 |
| 1996 | \$124.8 | \$4.8       | \$1.4     | \$64.1  | \$195.2 |
| 1997 | \$108.6 | \$7.6       | \$1.9     | \$62.7  | \$180.7 |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: The total column contains the total expenditures of all electric utility sector energy sources for each year. There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic or solar thermal energy.

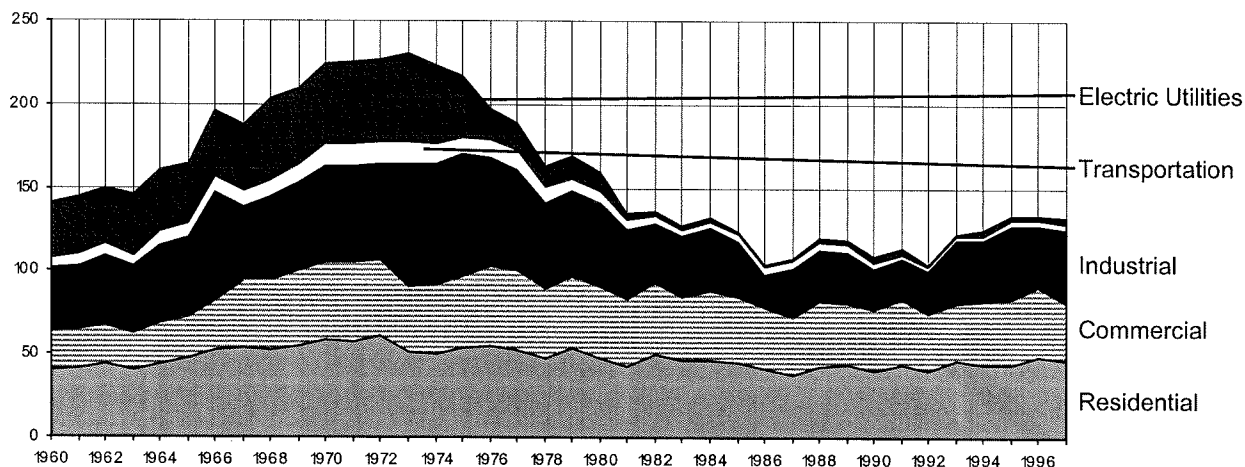
# Energy Resource Statistics

## Natural Gas

Natural gas use in Nebraska for 1997 was 131.9 trillion Btu, a decrease of 1.4% from 1996. Natural gas use has shown a general decline in Nebraska since annual consumption peaked at 230.8 trillion Btu in 1973.

### Natural Gas Annual Consumption by End-Use Sector, Nebraska, 1997

Trillion Btu



| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Total |
|------|-------------|------------|------------|----------------|--------------------|-------|
| 1960 | 40.9        | 22.7       | 38.3       | 6.5            | 32.1               | 140.4 |
| 1961 | 41.6        | 23.2       | 38.7       | 6.8            | 34.3               | 144.6 |
| 1962 | 44.7        | 22.4       | 42.0       | 6.8            | 33.5               | 149.3 |
| 1963 | 40.3        | 22.2       | 40.6       | 6.5            | 36.1               | 145.8 |
| 1964 | 44.7        | 23.9       | 46.5       | 8.1            | 37.3               | 160.5 |
| 1965 | 47.2        | 25.3       | 47.7       | 8.6            | 35.9               | 164.7 |
| 1966 | 52.7        | 29.8       | 64.7       | 9.3            | 39.3               | 195.9 |
| 1967 | 53.6        | 41.3       | 43.5       | 10.2           | 39.3               | 187.9 |
| 1968 | 53.3        | 41.7       | 49.5       | 10.0           | 48.5               | 202.9 |
| 1969 | 55.1        | 45.9       | 52.1       | 11.4           | 45.1               | 209.6 |
| 1970 | 58.8        | 47.2       | 56.9       | 13.2           | 48.0               | 224.1 |
| 1971 | 58.1        | 47.6       | 57.1       | 13.3           | 49.2               | 225.5 |
| 1972 | 60.9        | 46.2       | 57.6       | 13.3           | 48.4               | 226.4 |
| 1973 | 51.0        | 39.2       | 73.7       | 13.8           | 53.1               | 230.8 |
| 1974 | 49.8        | 42.6       | 72.1       | 11.6           | 47.2               | 223.3 |
| 1975 | 53.6        | 43.0       | 73.5       | 10.4           | 37.0               | 217.5 |
| 1976 | 54.8        | 48.5       | 64.7       | 10.4           | 19.0               | 197.4 |
| 1977 | 53.0        | 47.0       | 61.1       | 12.3           | 15.1               | 188.4 |
| 1978 | 48.2        | 40.8       | 52.3       | 9.0            | 12.4               | 162.7 |
| 1979 | 53.4        | 43.4       | 51.8       | 7.0            | 13.4               | 169.0 |
| 1980 | 47.9        | 42.5       | 50.9       | 6.9            | 11.3               | 159.5 |
| 1981 | 43.0        | 39.8       | 42.2       | 6.0            | 4.3                | 135.3 |
| 1982 | 50.4        | 42.2       | 36.4       | 5.1            | 1.5                | 135.6 |
| 1983 | 46.4        | 38.4       | 36.7       | 4.0            | 1.5                | 127.0 |
| 1984 | 46.9        | 41.1       | 37.9       | 4.5            | 1.4                | 131.9 |
| 1985 | 45.8        | 38.7       | 32.6       | 5.5            | 1.2                | 123.9 |
| 1986 | 42.0        | 36.1       | 20.3       | 3.9            | 1.7                | 104.0 |
| 1987 | 38.3        | 33.7       | 29.6       | 4.4            | 1.7                | 107.7 |
| 1988 | 42.8        | 38.7       | 31.8       | 4.6            | 2.0                | 119.9 |
| 1989 | 44.2        | 36.9       | 30.2       | 4.8            | 2.5                | 118.7 |
| 1990 | 40.8        | 35.9       | 25.4       | 3.5            | 3.6                | 109.2 |
| 1991 | 44.0        | 39.7       | 24.4       | 2.3            | 3.5                | 114.0 |
| 1992 | 40.6        | 33.8       | 25.9       | 2.5            | 1.8                | 104.6 |
| 1993 | 47.0        | 33.9       | 37.7       | 2.5            | 1.8                | 123.0 |
| 1994 | 43.7        | 38.4       | 36.5       | 3.2            | 3.0                | 124.8 |
| 1995 | 44.1        | 39.2       | 43.9       | 3.3            | 3.1                | 133.7 |
| 1996 | 49.3        | 41.1       | 36.4       | 4.6            | 2.3                | 133.8 |
| 1997 | 47.0        | 33.8       | 44.4       | 4.1            | 2.7                | 131.9 |

Sources: State Energy Data Report 1997, Consumption Estimates, September 1999. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: Beginning with the reporting of 1996 annual data, the EIA changed the customer category used for reporting deliveries to consumers in the agricultural industry from commercial to industrial.



# Natural Gas Monthly Consumption by End-Use Sector, Nebraska, 1985-1997

(Million Cubic Feet)

| Sector<br>Year                      | Jan    | Feb    | Mar    | Apr    | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov    | Dec    | Annual<br>Total |
|-------------------------------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|-----------------|
| <b>All Consumers</b>                |        |        |        |        |       |       |       |       |       |       |        |        |                 |
| 1985                                | 16,657 | 17,391 | 12,491 | 9,197  | 6,250 | 5,127 | 6,474 | 6,263 | 6,124 | 7,871 | 9,851  | 16,800 | 120,496         |
| 1986                                | 15,098 | 13,298 | 11,870 | 8,007  | 5,745 | 4,750 | 5,470 | 5,889 | 4,521 | 4,887 | 8,932  | 12,294 | 100,761         |
| 1987                                | 14,899 | 12,670 | 10,825 | 9,748  | 5,528 | 4,709 | 5,786 | 7,166 | 5,546 | 5,947 | 9,044  | 12,918 | 104,786         |
| 1988                                | 17,399 | 16,893 | 12,519 | 8,997  | 6,059 | 7,198 | 7,908 | 7,521 | 5,306 | 6,070 | 8,968  | 12,435 | 117,273         |
| 1989                                | 14,343 | 15,985 | 14,384 | 9,341  | 6,459 | 5,581 | 7,513 | 7,645 | 5,693 | 5,804 | 8,805  | 13,739 | 115,292         |
| 1990                                | 14,697 | 12,925 | 11,176 | 9,208  | 6,188 | 4,736 | 7,915 | 5,974 | 5,852 | 6,824 | 8,747  | 13,257 | 107,499         |
| 1991                                | 18,117 | 13,158 | 10,698 | 7,753  | 6,342 | 4,941 | 8,801 | 7,337 | 5,266 | 6,634 | 11,229 | 13,134 | 113,410         |
| 1992                                | 13,529 | 12,142 | 9,903  | 8,555  | 5,622 | 4,977 | 5,483 | 5,428 | 5,197 | 6,974 | 11,269 | 15,177 | 104,256         |
| 1993                                | 17,440 | 11,785 | 15,697 | 12,913 | 6,938 | 5,815 | 6,154 | 5,936 | 6,061 | 7,581 | 11,803 | 15,414 | 123,537         |
| 1994                                | 17,081 | 16,933 | 13,791 | 10,627 | 7,341 | 7,199 | 6,725 | 7,467 | 5,934 | 6,633 | 9,373  | 14,259 | 123,363         |
| 1995                                | 15,442 | 13,709 | 12,441 | 9,786  | 7,953 | 6,070 | 8,481 | 8,600 | 7,255 | 8,905 | 15,412 | 18,870 | 132,924         |
| 1996                                | 17,384 | 16,979 | 14,342 | 11,193 | 7,619 | 6,017 | 7,356 | 6,101 | 5,903 | 8,322 | 10,994 | 16,087 | 128,297         |
| 1997                                | 18,715 | 16,276 | 14,317 | 11,696 | 8,903 | 6,298 | 7,610 | 7,187 | 5,477 | 7,278 | 9,915  | 14,359 | 128,031         |
| <b>Commercial Consumers</b>         |        |        |        |        |       |       |       |       |       |       |        |        |                 |
| 1985                                | 5,227  | 5,782  | 3,692  | 2,506  | 1,468 | 1,248 | 2,828 | 2,944 | 2,496 | 2,396 | 3,768  | 5,843  | 40,198          |
| 1986                                | 5,209  | 4,437  | 3,633  | 2,318  | 1,545 | 1,176 | 2,512 | 3,710 | 2,260 | 1,857 | 3,436  | 4,265  | 36,358          |
| 1987                                | 4,490  | 3,886  | 3,251  | 2,945  | 1,425 | 1,187 | 2,384 | 4,019 | 2,292 | 2,035 | 2,700  | 3,540  | 34,154          |
| 1988                                | 5,037  | 5,009  | 3,656  | 2,522  | 1,562 | 3,115 | 4,304 | 4,270 | 1,578 | 2,047 | 2,552  | 3,668  | 39,320          |
| 1989                                | 4,202  | 4,825  | 4,252  | 2,505  | 1,648 | 1,757 | 3,381 | 4,240 | 1,634 | 2,109 | 2,602  | 4,196  | 37,351          |
| 1990                                | 4,765  | 4,019  | 3,355  | 2,799  | 1,480 | 1,325 | 4,837 | 2,596 | 2,333 | 2,334 | 2,552  | 4,094  | 36,489          |
| 1991                                | 5,452  | 4,111  | 3,382  | 2,193  | 1,771 | 1,779 | 5,675 | 4,406 | 1,961 | 2,056 | 3,468  | 4,037  | 40,291          |
| 1992                                | 4,332  | 3,760  | 2,970  | 2,411  | 1,781 | 1,330 | 2,366 | 2,393 | 1,710 | 2,508 | 3,988  | 4,941  | 34,490          |
| 1993                                | 5,784  | 3,806  | 4,611  | 3,119  | 1,629 | 1,388 | 1,324 | 1,828 | 1,333 | 2,164 | 3,495  | 4,263  | 34,744          |
| 1994                                | 5,469  | 5,455  | 4,089  | 2,741  | 1,934 | 2,284 | 2,501 | 3,613 | 1,834 | 2,239 | 2,606  | 4,182  | 38,947          |
| 1995                                | 3,282  | 2,977  | 2,455  | 1,742  | 1,320 | 1,003 | 2,436 | 2,997 | 1,669 | 3,999 | 6,886  | 9,276  | 40,042          |
| 1996                                | 5,382  | 4,846  | 4,257  | 3,099  | 1,995 | 1,460 | 3,544 | 2,489 | 2,273 | 2,778 | 3,678  | 5,032  | 40,833          |
| 1997                                | 4,714  | 3,925  | 3,330  | 2,520  | 2,093 | 1,309 | 4,067 | 2,295 | 1,477 | 1,855 | 2,812  | 3,454  | 33,851          |
| <b>Electric Utilities Consumers</b> |        |        |        |        |       |       |       |       |       |       |        |        |                 |
| 1985                                | 72     | 62     | 82     | 192    | 62    | 91    | 107   | 93    | 132   | 196   | 77     | 119    | 1,285           |
| 1986                                | 65     | 78     | 68     | 119    | 82    | 478   | 119   | 92    | 86    | 134   | 252    | 140    | 1,713           |
| 1987                                | 237    | 90     | 111    | 106    | 138   | 305   | 326   | 107   | 72    | 84    | 101    | 66     | 1,743           |
| 1988                                | 91     | 60     | 94     | 64     | 103   | 615   | 247   | 176   | 154   | 142   | 236    | 64     | 2,046           |
| 1989                                | 54     | 249    | 189    | 428    | 89    | 113   | 392   | 189   | 167   | 295   | 357    | 71     | 2,593           |
| 1990                                | 59     | 46     | 185    | 336    | 370   | 239   | 144   | 334   | 627   | 563   | 435    | 428    | 3,766           |
| 1991                                | 322    | 60     | 39     | 540    | 511   | 190   | 194   | 139   | 309   | 479   | 538    | 368    | 3,689           |
| 1992                                | 97     | 76     | 213    | 211    | 111   | 139   | 153   | 85    | 280   | 210   | 191    | 136    | 1,902           |
| 1993                                | 104    | 48     | 111    | 148    | 137   | 114   | 454   | 399   | 82    | 120   | 60     | 98     | 1,875           |
| 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     | 2,350           |
| 1997                                | 31     | 77     | 79     | 172    | 108   | 218   | 879   | 364   | 263   | 354   | 77     | 34     | 2,656           |
| <b>Industrial Consumers</b>         |        |        |        |        |       |       |       |       |       |       |        |        |                 |
| 1985                                | 3,502  | 3,255  | 3,040  | 2,839  | 2,788 | 2,464 | 2,379 | 2,137 | 2,396 | 2,962 | 2,659  | 2,713  | 33,134          |
| 1986                                | 1,950  | 1,943  | 2,363  | 2,097  | 1,982 | 1,779 | 1,721 | 1,053 | 1,072 | 1,297 | 1,513  | 1,618  | 20,388          |
| 1987                                | 3,181  | 2,696  | 2,665  | 2,323  | 2,210 | 1,983 | 1,980 | 1,975 | 2,097 | 2,020 | 3,021  | 3,866  | 30,017          |
| 1988                                | 3,945  | 3,815  | 2,982  | 2,485  | 2,301 | 2,289 | 2,267 | 2,064 | 2,544 | 2,174 | 2,556  | 2,986  | 32,408          |
| 1989                                | 3,082  | 3,001  | 3,201  | 2,721  | 2,754 | 2,574 | 2,662 | 2,208 | 2,680 | 1,428 | 2,058  | 2,175  | 30,544          |
| 1990                                | 2,280  | 2,388  | 2,375  | 2,114  | 2,062 | 1,878 | 1,879 | 2,097 | 1,858 | 2,031 | 2,302  | 2,484  | 25,748          |
| 1991                                | 2,835  | 2,443  | 2,065  | 1,897  | 1,826 | 1,810 | 1,912 | 1,839 | 1,911 | 2,037 | 2,027  | 2,156  | 24,758          |
| 1992                                | 2,243  | 2,350  | 2,015  | 2,172  | 1,710 | 2,197 | 1,917 | 1,966 | 2,111 | 2,226 | 2,529  | 3,015  | 26,451          |
| 1993                                | 2,539  | 1,799  | 3,307  | 4,548  | 2,811 | 2,818 | 3,256 | 2,710 | 3,428 | 3,299 | 3,911  | 4,232  | 38,658          |
| 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                                | 3,929  | 3,507  | 3,755  | 3,626  | 3,553 | 3,269 | 4,526 | 3,915 | 4,337 | 3,084 | 4,125  | 3,141  | 44,767          |
| 1996                                | 3,653  | 3,246  | 3,337  | 3,106  | 2,652 | 2,616 | 2,479 | 2,467 | 2,452 | 3,248 | 3,179  | 3,689  | 36,124          |
| 1997                                | 4,282  | 4,449  | 4,679  | 4,651  | 3,526 | 3,394 | 1,649 | 3,588 | 2,801 | 3,687 | 2,627  | 5,084  | 44,417          |
| <b>Residential Consumers</b>        |        |        |        |        |       |       |       |       |       |       |        |        |                 |
| 1985                                | 8,030  | 8,778  | 5,783  | 3,811  | 1,971 | 1,381 | 1,192 | 1,104 | 1,269 | 2,427 | 3,537  | 8,062  | 47,345          |
| 1986                                | 7,874  | 6,841  | 5,806  | 3,479  | 2,136 | 1,317 | 1,118 | 1,034 | 1,103 | 1,599 | 3,732  | 6,271  | 42,310          |
| 1987                                | 6,991  | 5,998  | 4,798  | 4,374  | 1,755 | 1,234 | 1,096 | 1,065 | 1,085 | 1,808 | 3,222  | 5,446  | 38,872          |
| 1988                                | 8,326  | 8,011  | 5,788  | 3,925  | 2,093 | 1,179 | 1,089 | 1,011 | 1,030 | 1,708 | 3,625  | 5,717  | 43,502          |
| 1989                                | 7,006  | 7,911  | 6,742  | 3,687  | 1,968 | 1,137 | 1,078 | 1,007 | 1,212 | 1,972 | 3,788  | 7,297  | 44,805          |
| 1990                                | 7,593  | 6,472  | 5,262  | 3,959  | 2,276 | 1,294 | 1,056 | 947   | 1,034 | 1,896 | 3,458  | 6,251  | 41,498          |
| 1991                                | 9,508  | 6,544  | 5,212  | 3,123  | 2,234 | 1,163 | 1,019 | 953   | 1,085 | 2,062 | 5,196  | 6,573  | 44,672          |
| 1992                                | 6,858  | 5,956  | 4,706  | 3,760  | 2,020 | 1,311 | 1,047 | 983   | 1,096 | 2,030 | 4,561  | 7,085  | 41,413          |
| 1993                                | 9,013  | 6,132  | 7,668  | 5,098  | 2,360 | 1,495 | 1,119 | 999   | 1,217 | 1,998 | 4,336  | 6,820  | 48,255          |
| 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                                | 8,146  | 7,156  | 6,026  | 4,284  | 2,967 | 1,587 | 1,035 | 906   | 1,051 | 1,577 | 4,132  | 6,188  | 45,055          |
| 1996                                | 8,226  | 8,807  | 6,609  | 4,786  | 2,651 | 1,475 | 985   | 932   | 1,017 | 2,173 | 4,043  | 7,283  | 48,989          |
| 1997                                | 9,688  | 7,825  | 6,229  | 4,353  | 3,176 | 1,376 | 1,015 | 939   | 936   | 1,382 | 4,399  | 5,787  | 47,105          |

Source: *Natural Gas Monthly*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC.

Notes: The numbers in this table are preliminary and may not be equivalent to the final numbers listed in the table on page 24. Electric utilities consumption includes all steam electric utility generating plants with a combined capacity of 50 MW or greater. Gas volumes delivered for use as vehicle fuel are included in the annual total for the transportation sector but not in the monthly components.

## Natural Gas Annual Prices by End-Use Sector, Nebraska, 1970-1997

From 1996 to 1997, the residential natural gas price increased 17.5%, the commercial price increased 10.1%, the industrial price increased 18.0% and the electric utility price increased 39.3%.

Nominal Dollars per Million Btu



| Year | Residential | Commercial | Industrial | Electric Utilities | Average |
|------|-------------|------------|------------|--------------------|---------|
| 1970 | \$0.84      | \$0.52     | \$0.32     | \$0.27             | \$0.49  |
| 1971 | \$0.91      | \$0.58     | \$0.36     | \$0.31             | \$0.54  |
| 1972 | \$0.98      | \$0.57     | \$0.48     | \$0.38             | \$0.60  |
| 1973 | \$1.03      | \$0.75     | \$0.43     | \$0.42             | \$0.66  |
| 1974 | \$1.13      | \$0.81     | \$0.54     | \$0.49             | \$0.74  |
| 1975 | \$1.29      | \$1.00     | \$0.69     | \$0.63             | \$0.90  |
| 1976 | \$1.37      | \$1.16     | \$0.85     | \$0.81             | \$1.05  |
| 1977 | \$1.80      | \$1.39     | \$1.02     | \$0.97             | \$1.30  |
| 1978 | \$1.97      | \$1.54     | \$1.11     | \$1.11             | \$1.43  |
| 1979 | \$2.31      | \$2.01     | \$1.26     | \$1.45             | \$1.76  |
| 1980 | \$2.78      | \$2.33     | \$2.21     | \$1.82             | \$2.29  |
| 1981 | \$3.52      | \$3.02     | \$2.84     | \$2.40             | \$2.95  |
| 1982 | \$4.24      | \$3.56     | \$3.62     | \$3.02             | \$3.61  |
| 1983 | \$5.05      | \$4.29     | \$3.79     | \$3.26             | \$4.10  |
| 1984 | \$5.18      | \$4.35     | \$3.71     | \$3.40             | \$4.16  |
| 1985 | \$5.10      | \$4.29     | \$3.67     | \$3.58             | \$4.16  |
| 1986 | \$4.62      | \$3.95     | \$3.28     | \$3.21             | \$3.76  |
| 1987 | \$4.43      | \$3.76     | \$2.81     | \$2.56             | \$3.39  |
| 1988 | \$4.53      | \$3.81     | \$2.90     | \$2.69             | \$3.48  |
| 1989 | \$4.54      | \$3.82     | \$2.96     | \$2.36             | \$3.42  |
| 1990 | \$4.67      | \$3.92     | \$3.02     | \$2.01             | \$3.41  |
| 1991 | \$4.71      | \$3.93     | \$2.80     | \$1.97             | \$3.35  |
| 1992 | \$4.92      | \$4.07     | \$2.98     | \$2.38             | \$3.59  |
| 1993 | \$5.09      | \$4.38     | \$3.17     | \$2.73             | \$3.84  |
| 1994 | \$5.09      | \$4.30     | \$3.17     | \$2.05             | \$3.65  |
| 1995 | \$4.93      | \$4.04     | \$2.85     | \$1.66             | \$3.37  |
| 1996 | \$4.85      | \$4.44     | \$3.27     | \$2.06             | \$3.65  |
| 1997 | \$5.70      | \$4.89     | \$3.86     | \$2.87             | \$4.33  |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: The price of natural gas delivered to electric utilities consumers includes all steam electric utility generating plants with a combined capacity of 50 MW or greater.

# Natural Gas Monthly Prices by End-Use Sector, Nebraska, 1992-1997

(Dollars per Thousand Cubic Feet)

| Sector<br>Year                      | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    | Annual<br>Average |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| <b>Commercial Consumers</b>         |        |        |        |        |        |        |        |        |        |        |        |        |                   |
| 1992                                | \$4.12 | \$3.87 | \$3.76 | \$3.69 | \$3.75 | \$3.98 | \$3.69 | \$3.78 | \$3.93 | \$4.21 | \$4.27 | \$4.31 | \$3.95            |
| 1993                                | \$4.33 | \$4.19 | \$4.15 | \$4.23 | \$4.57 | \$4.12 | \$4.54 | \$4.18 | \$4.79 | \$4.21 | \$4.16 | \$4.27 | \$4.31            |
| 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 | \$4.19            |
| 1995                                | \$4.21 | \$4.09 | \$4.09 | \$4.02 | \$5.16 | \$3.89 | \$3.75 | \$3.74 | \$3.71 | \$3.80 | \$3.88 | \$3.91 | \$4.02            |
| 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 | \$4.44            |
| 1997                                | \$5.91 | \$5.25 | \$4.24 | \$3.92 | \$5.01 | \$5.90 | \$3.57 | \$3.77 | \$4.34 | \$5.27 | \$5.41 | \$5.35 | \$4.83            |
| <b>Electric Utilities Consumers</b> |        |        |        |        |        |        |        |        |        |        |        |        |                   |
| 1992                                | \$2.80 | \$2.58 | \$2.02 | \$1.54 | \$2.31 | \$2.10 | \$2.12 | \$2.50 | \$2.27 | \$2.46 | \$2.32 | \$2.84 | \$2.32            |
| 1993                                | \$2.88 | \$2.61 | \$2.46 | \$2.45 | \$2.87 | \$2.26 | \$2.35 | \$3.01 | \$2.87 | \$2.58 | \$2.86 | \$3.14 | \$2.70            |
| 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 | \$2.19            |
| 1995                                | \$2.09 | \$1.90 | \$1.90 | \$1.60 | \$1.94 | \$1.96 | \$1.50 | \$1.54 | \$1.51 | \$1.50 | \$1.67 | \$1.91 | \$1.75            |
| 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 | \$2.26            |
| 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 | \$2.89            |
| <b>Industrial Consumers</b>         |        |        |        |        |        |        |        |        |        |        |        |        |                   |
| 1992                                | \$3.03 | \$2.61 | \$2.42 | \$2.39 | \$2.45 | \$2.60 | \$2.65 | \$2.96 | \$3.00 | \$3.62 | \$3.41 | \$3.36 | \$2.88            |
| 1993                                | \$3.15 | \$2.95 | \$2.88 | \$3.08 | \$3.83 | \$2.50 | \$2.83 | \$2.79 | \$3.13 | \$3.11 | \$3.14 | \$3.48 | \$3.07            |
| 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 | \$3.03            |
| 1995                                | \$3.01 | \$2.94 | \$2.96 | \$2.72 | \$2.72 | \$2.63 | \$2.68 | \$2.96 | \$2.79 | \$2.54 | \$2.38 | \$2.91 | \$2.77            |
| 1996                                | \$3.19 | \$3.19 | \$3.10 | \$3.13 | \$2.92 | \$3.09 | \$3.19 | \$3.42 | \$2.86 | \$2.71 | \$3.62 | \$4.30 | \$3.23            |
| 1997                                | \$5.13 | \$4.26 | \$3.29 | \$2.74 | \$2.86 | \$3.11 | \$3.19 | \$3.48 | \$3.59 | \$4.28 | \$4.44 | \$4.08 | \$3.70            |
| <b>Residential Consumers</b>        |        |        |        |        |        |        |        |        |        |        |        |        |                   |
| 1992                                | \$4.57 | \$4.28 | \$4.26 | \$4.41 | \$4.91 | \$5.47 | \$5.90 | \$6.24 | \$6.16 | \$5.78 | \$5.15 | \$4.90 | \$5.17            |
| 1993                                | \$4.75 | \$4.57 | \$4.53 | \$4.80 | \$5.54 | \$6.02 | \$6.49 | \$6.75 | \$6.43 | \$5.73 | \$4.98 | \$4.77 | \$5.45            |
| 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 | \$5.44            |
| 1995                                | \$4.49 | \$4.43 | \$4.43 | \$4.71 | \$5.09 | \$5.94 | \$6.35 | \$6.59 | \$6.32 | \$5.84 | \$4.96 | \$4.74 | \$5.32            |
| 1996                                | \$4.27 | \$4.29 | \$4.46 | \$4.68 | \$5.22 | \$5.95 | \$6.76 | \$7.02 | \$6.74 | \$5.59 | \$5.01 | \$5.35 | \$5.44            |
| 1997                                | \$6.21 | \$6.71 | \$4.72 | \$4.77 | \$4.51 | \$6.48 | \$7.21 | \$7.47 | \$7.67 | \$7.31 | \$6.01 | \$6.01 | \$6.26            |

Sources: *Natural Gas Monthly*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: The numbers in this table are preliminary and may not be equivalent to the final numbers listed in the table on page 26.

## Natural Gas Average City Gate Prices, Nebraska, 1984-1997

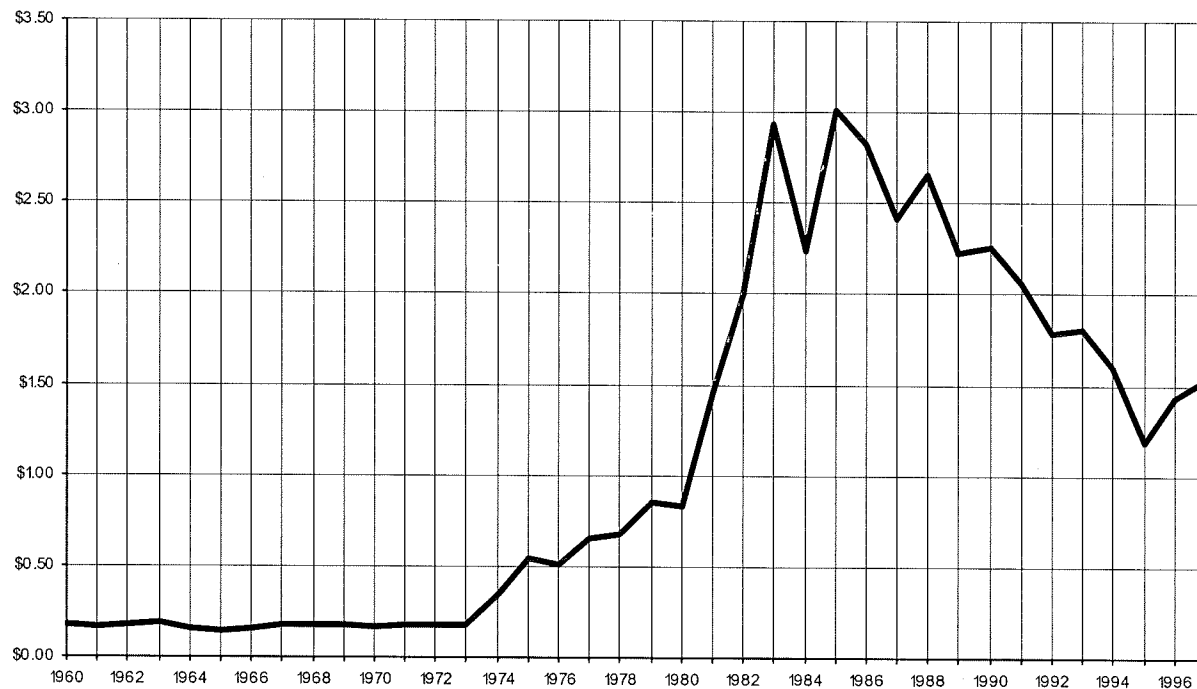
| Year | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    | Average |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1984 | \$4.01 | \$4.10 | \$4.50 | \$3.99 | \$4.19 | \$4.42 | \$4.40 | \$4.37 | \$4.25 | \$4.03 | \$3.86 | \$3.94 | \$4.17  |
| 1985 | \$3.77 | \$3.79 | \$4.06 | \$3.89 | \$4.00 | \$4.21 | \$4.48 | \$4.43 | \$4.24 | \$3.92 | \$3.57 | \$3.53 | \$3.99  |
| 1986 | \$3.54 | \$3.49 | \$3.78 | \$3.72 | \$4.17 | \$4.26 | \$4.24 | \$4.47 | \$4.03 | \$2.81 | \$2.49 | \$2.87 | \$3.66  |
| 1987 | \$2.80 | \$3.06 | \$3.10 | \$3.07 | \$3.41 | \$3.33 | \$3.34 | \$3.55 | \$3.33 | \$2.68 | \$2.65 | \$2.85 | \$3.10  |
| 1988 | \$2.96 | \$3.06 | \$3.13 | \$2.78 | \$3.08 | \$3.34 | \$3.44 | \$3.38 | \$3.50 | \$2.90 | \$2.73 | \$3.04 | \$3.11  |
| 1989 | \$3.18 | \$2.76 | \$2.86 | \$2.68 | \$2.98 | \$3.34 | \$3.39 | \$3.22 | \$3.15 | \$2.67 | \$2.64 | \$2.90 | \$2.98  |
| 1990 | \$3.50 | \$2.76 | \$2.78 | \$2.59 | \$2.85 | \$3.20 | \$3.10 | \$2.93 | \$3.11 | \$2.62 | \$2.90 | \$2.97 | \$2.94  |
| 1991 | \$2.68 | \$2.57 | \$2.68 | \$2.69 | \$2.90 | \$2.90 | \$2.97 | \$2.78 | \$3.00 | \$2.85 | \$2.62 | \$2.88 | \$2.79  |
| 1992 | \$2.71 | \$2.36 | \$2.46 | \$2.47 | \$3.07 | \$3.28 | \$3.18 | \$3.23 | \$3.47 | \$3.55 | \$3.15 | \$3.09 | \$3.00  |
| 1993 | \$2.92 | \$2.78 | \$2.78 | \$3.19 | \$3.94 | \$3.49 | \$3.37 | \$3.51 | \$6.24 | \$4.28 | \$3.96 | \$3.96 | \$3.70  |
| 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 | \$3.16  |
| 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 | \$2.64  |
| 1996 | \$2.66 | \$2.45 | \$2.71 | \$3.04 | \$3.41 | \$3.50 | \$3.30 | \$4.83 | \$2.85 | \$2.93 | \$3.11 | \$3.99 | \$3.23  |
| 1997 | \$8.69 | \$3.75 | \$3.02 | \$2.28 | \$3.11 | \$4.09 | \$4.96 | \$5.51 | \$7.03 | \$5.76 | \$6.30 | \$5.31 | \$4.98  |

Sources: *Natural Gas Monthly*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: Prices in this table represent Nebraska's average price of natural gas at the point where the gas transferred from a pipeline to a local distribution company within Nebraska.

## Natural Gas Wellhead Prices, Nebraska, 1960-1997

Dollars per Thousand Cubic Feet



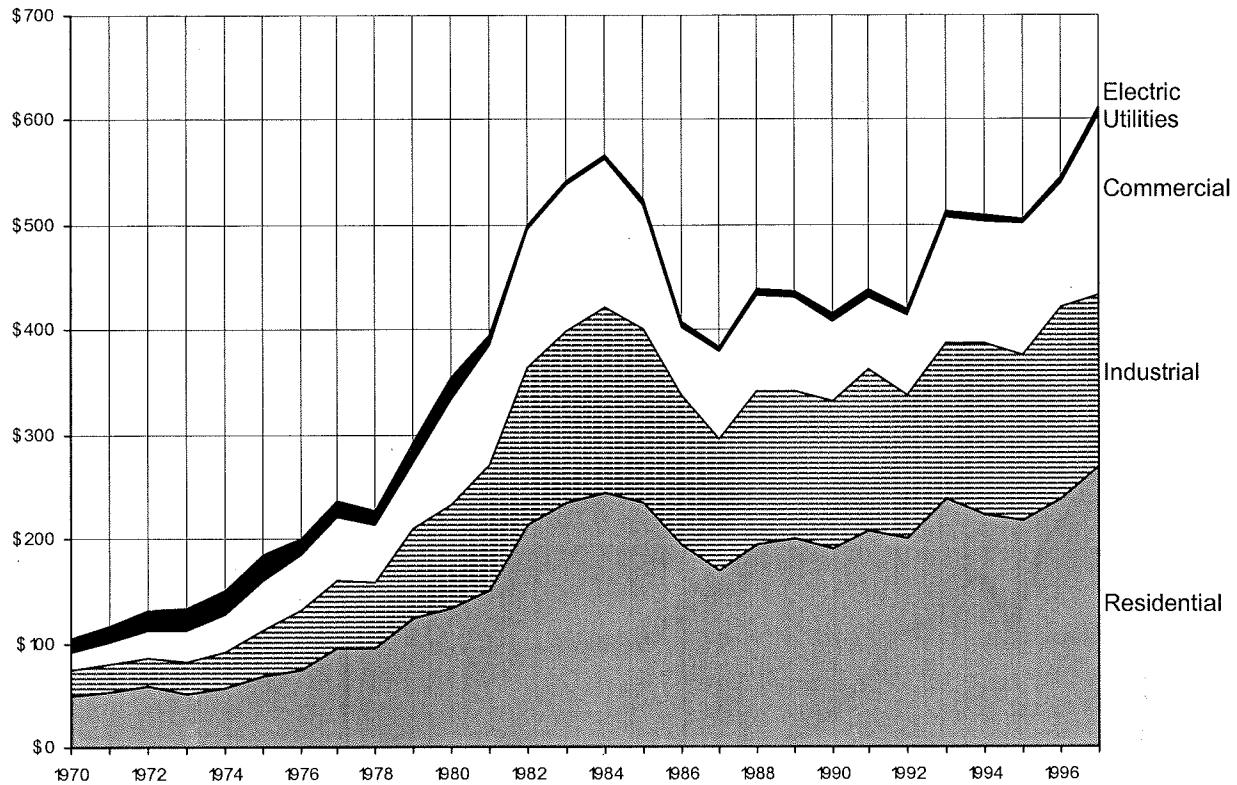
|      |       |        |      |       |        |      |       |        |      |       |        |
|------|-------|--------|------|-------|--------|------|-------|--------|------|-------|--------|
| 1960 | ..... | \$0.18 | 1970 | ..... | \$0.17 | 1980 | ..... | \$0.83 | 1990 | ..... | \$2.26 |
| 1961 | ..... | \$0.17 | 1971 | ..... | \$0.18 | 1981 | ..... | \$1.45 | 1991 | ..... | \$2.06 |
| 1962 | ..... | \$0.18 | 1972 | ..... | \$0.18 | 1982 | ..... | \$1.99 | 1992 | ..... | \$1.78 |
| 1963 | ..... | \$0.19 | 1973 | ..... | \$0.18 | 1983 | ..... | \$2.93 | 1993 | ..... | \$1.81 |
| 1964 | ..... | \$0.15 | 1974 | ..... | \$0.34 | 1984 | ..... | \$2.24 | 1994 | ..... | \$1.60 |
| 1965 | ..... | \$0.15 | 1975 | ..... | \$0.54 | 1985 | ..... | \$3.01 | 1995 | ..... | \$1.19 |
| 1966 | ..... | \$0.16 | 1976 | ..... | \$0.51 | 1986 | ..... | \$2.82 | 1996 | ..... | \$1.43 |
| 1967 | ..... | \$0.17 | 1977 | ..... | \$0.65 | 1987 | ..... | \$2.42 | 1997 | ..... | \$1.53 |
| 1968 | ..... | \$0.18 | 1978 | ..... | \$0.68 | 1988 | ..... | \$2.66 |      |       |        |
| 1969 | ..... | \$0.17 | 1979 | ..... | \$0.85 | 1989 | ..... | \$2.23 |      |       |        |

Source: *Natural Gas Annual*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC.

## Natural Gas Expenditures by End-Use Sector, Nebraska, 1970-1997

Expenditures on natural gas increased from \$545.22 million in 1996 to \$611.85 million in 1997. The 1997 expenditure surpasses the peak of \$567.2 million in 1984.

Million Nominal Dollars



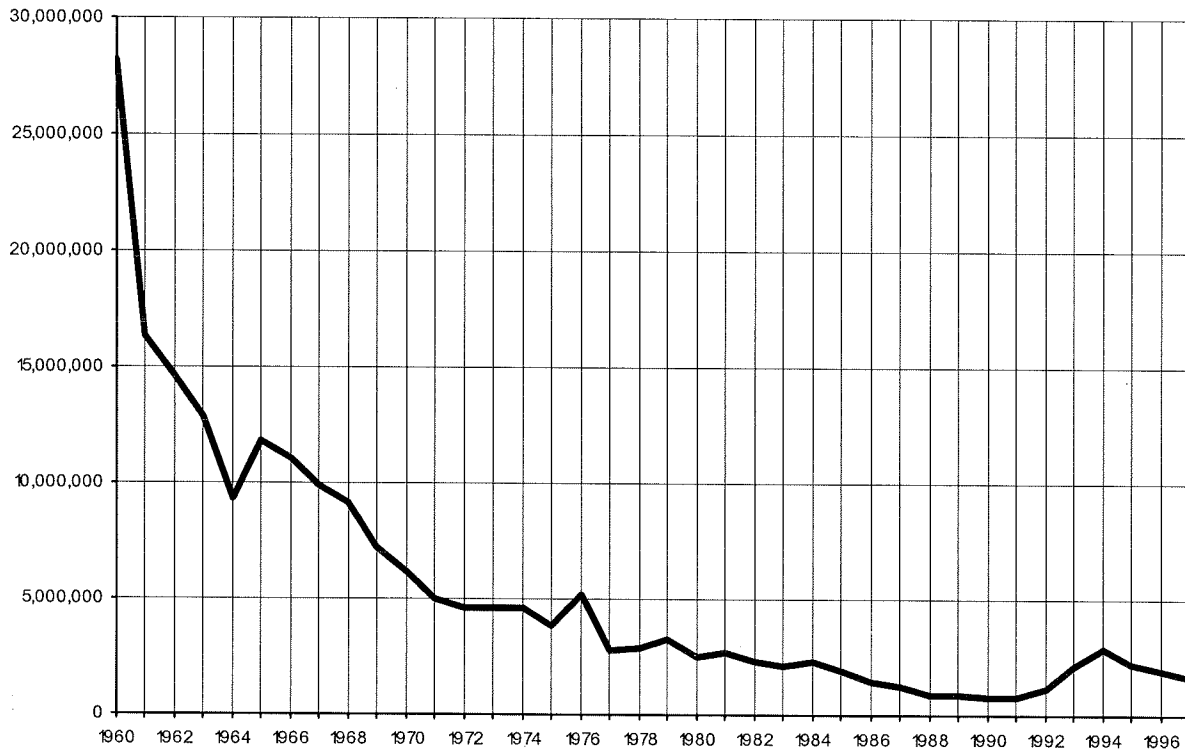
| Year | Residential | Commercial | Industrial | Electric Utilities | Total   |
|------|-------------|------------|------------|--------------------|---------|
| 1970 | \$49.6      | \$24.7     | \$17.0     | \$12.8             | \$104.1 |
| 1971 | \$53.2      | \$27.7     | \$19.6     | \$15.2             | \$115.7 |
| 1972 | \$59.4      | \$26.5     | \$26.5     | \$18.2             | \$130.7 |
| 1973 | \$52.4      | \$29.3     | \$30.5     | \$22.1             | \$134.4 |
| 1974 | \$56.3      | \$34.3     | \$37.2     | \$23.0             | \$150.9 |
| 1975 | \$68.9      | \$42.9     | \$49.2     | \$23.3             | \$184.3 |
| 1976 | \$75.1      | \$56.2     | \$53.8     | \$15.5             | \$200.6 |
| 1977 | \$95.1      | \$65.5     | \$60.9     | \$14.6             | \$236.1 |
| 1978 | \$94.8      | \$62.6     | \$55.9     | \$13.8             | \$227.2 |
| 1979 | \$123.3     | \$87.2     | \$61.3     | \$19.3             | \$291.2 |
| 1980 | \$133.5     | \$99.1     | \$101.1    | \$20.5             | \$354.1 |
| 1981 | \$151.5     | \$120.3    | \$113.6    | \$10.3             | \$395.7 |
| 1982 | \$213.6     | \$150.2    | \$131.1    | \$4.6              | \$499.6 |
| 1983 | \$234.1     | \$164.7    | \$138.8    | \$4.9              | \$542.5 |
| 1984 | \$243.3     | \$179.0    | \$140.1    | \$4.8              | \$567.2 |
| 1985 | \$233.9     | \$166.0    | \$119.4    | \$4.4              | \$523.7 |
| 1986 | \$194.0     | \$142.8    | \$66.3     | \$5.3              | \$408.4 |
| 1987 | \$169.5     | \$126.6    | \$83.2     | \$4.4              | \$383.6 |
| 1988 | \$194.0     | \$147.7    | \$92.1     | \$5.2              | \$439.0 |
| 1989 | \$200.7     | \$140.8    | \$89.2     | \$5.9              | \$436.6 |
| 1990 | \$190.9     | \$140.8    | \$76.5     | \$7.2              | \$415.4 |
| 1991 | \$207.3     | \$155.9    | \$68.3     | \$6.8              | \$438.4 |
| 1992 | \$199.6     | \$137.6    | \$77.2     | \$4.3              | \$418.8 |
| 1993 | \$239.3     | \$148.4    | \$119.5    | \$5.0              | \$512.2 |
| 1994 | \$222.4     | \$165.1    | \$115.3    | \$6.2              | \$509.1 |
| 1995 | \$217.6     | \$158.6    | \$124.9    | \$5.1              | \$506.1 |
| 1996 | \$239.1     | \$182.5    | \$118.9    | \$4.8              | \$545.2 |
| 1997 | \$268.0     | \$165.2    | \$171.0    | \$7.6              | \$611.8 |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

## Natural Gas Annual Production, Nebraska, 1960-1997

Natural gas production in Nebraska for 1997 was 1,669,685 thousand cubic feet, a decrease of 11.0% from 1996 when production was 1,875,997 thousand cubic feet. Nebraska's natural gas production in 1997 represented only 1.3% of the natural gas consumed in the state.

Thousand Cubic Feet

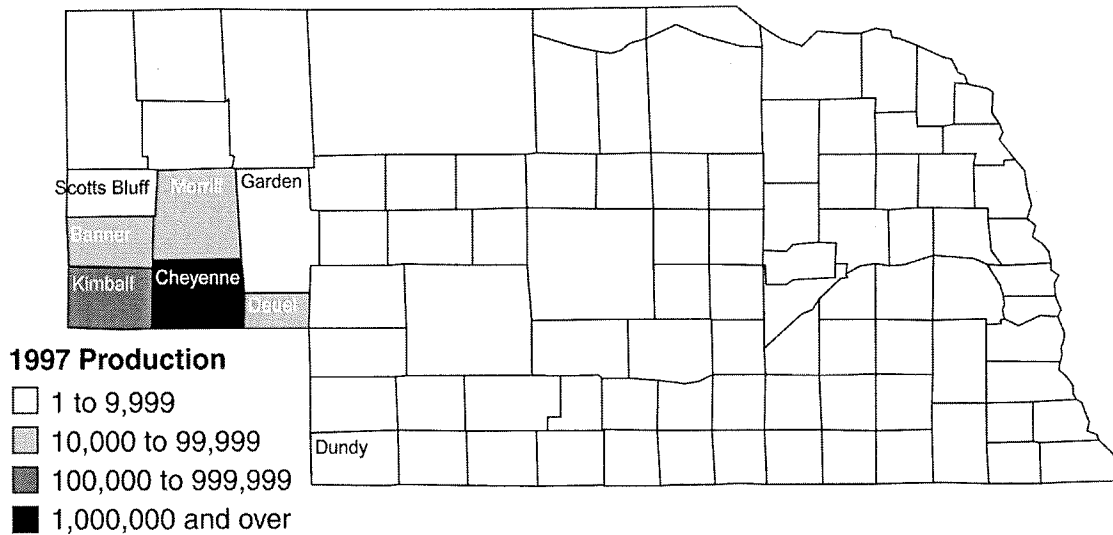


|      |            |      |           |      |           |      |           |
|------|------------|------|-----------|------|-----------|------|-----------|
| 1960 | 28,189,817 | 1970 | 6,184,845 | 1980 | 2,500,276 | 1990 | 793,142   |
| 1961 | 16,385,851 | 1971 | 4,955,127 | 1981 | 2,712,781 | 1991 | 783,503   |
| 1962 | 14,644,383 | 1972 | 4,646,995 | 1982 | 2,279,799 | 1992 | 1,176,501 |
| 1963 | 12,909,175 | 1973 | 4,579,029 | 1983 | 2,091,328 | 1993 | 2,114,246 |
| 1964 | 9,303,924  | 1974 | 4,583,565 | 1984 | 2,300,268 | 1994 | 2,898,337 |
| 1965 | 11,790,398 | 1975 | 3,884,635 | 1985 | 1,944,569 | 1995 | 2,239,897 |
| 1966 | 11,097,418 | 1976 | 5,200,371 | 1986 | 1,403,485 | 1996 | 1,875,997 |
| 1967 | 9,884,224  | 1977 | 2,796,144 | 1987 | 1,260,540 | 1997 | 1,669,685 |
| 1968 | 9,146,108  | 1978 | 2,882,045 | 1988 | 910,468   |      |           |
| 1969 | 7,240,347  | 1979 | 3,224,877 | 1989 | 878,517   |      |           |

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

## Natural Gas Production by County, Nebraska, 1997

(Thousand Cubic Feet)



## Natural Gas Production by County, Nebraska, 1988-1997

(Thousand Cubic Feet)

| County       | 1988           | 1989           | 1990           | 1991           | 1992             | 1993             | 1994             | 1995             | 1996             | 1997             |
|--------------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Banner       | 57,074         | 42,152         | 43,922         | 43,546         | 37,919           | 33,539           | 32,478           | 31,747           | 29,784           | 27,825           |
| Cheyenne     | 531,539        | 477,798        | 443,997        | 424,242        | 800,134          | 1,642,768        | 2,401,085        | 1,762,869        | 1,493,477        | 1,329,949        |
| Deuel        | 282            | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 4,626            | 56,702           |
| Dundy        | 933            | 1,036          | 868            | 910            | 316              | 0                | 278              | 542              | 527              | 516              |
| Garden       | 0              | 0              | 0              | 0              | 0                | 0                | 0                | 39,346           | 34,842           | 1,920            |
| Kimball      | 290,461        | 326,149        | 266,329        | 278,240        | 302,677          | 407,847          | 438,491          | 381,865          | 290,878          | 234,651          |
| Morrill      | 17,735         | 17,674         | 24,902         | 22,751         | 24,797           | 25,178           | 20,736           | 18,825           | 16,389           | 13,401           |
| Scotts Bluff | 3,889          | 4,454          | 4,207          | 5,705          | 6,444            | 4,914            | 5,269            | 4,703            | 5,474            | 4,721            |
| Sioux        | 8,555          | 9,254          | 8,917          | 8,109          | 4,214            | 0                | 0                | 0                | 0                | 0                |
| <b>Total</b> | <b>910,468</b> | <b>878,517</b> | <b>793,142</b> | <b>783,503</b> | <b>1,176,501</b> | <b>2,114,246</b> | <b>2,898,337</b> | <b>2,239,897</b> | <b>1,875,997</b> | <b>1,669,685</b> |

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

## Producing Wells, Natural Gas, Nebraska, 1960-1997

(As of December 31 of Each Year)

|                |     |                |     |                |     |                |     |
|----------------|-----|----------------|-----|----------------|-----|----------------|-----|
| 1960 . . . . . | .53 | 1970 . . . . . | .35 | 1980 . . . . . | .22 | 1990 . . . . . | .11 |
| 1961 . . . . . | .49 | 1971 . . . . . | .29 | 1981 . . . . . | .25 | 1991 . . . . . | .12 |
| 1962 . . . . . | .47 | 1972 . . . . . | .29 | 1982 . . . . . | .23 | 1992 . . . . . | .22 |
| 1963 . . . . . | .44 | 1973 . . . . . | .29 | 1983 . . . . . | .23 | 1993 . . . . . | .69 |
| 1964 . . . . . | .41 | 1974 . . . . . | .25 | 1984 . . . . . | .23 | 1994 . . . . . | .76 |
| 1965 . . . . . | .39 | 1975 . . . . . | .19 | 1985 . . . . . | .19 | 1995 . . . . . | .79 |
| 1966 . . . . . | .37 | 1976 . . . . . | .17 | 1986 . . . . . | .16 | 1996 . . . . . | .77 |
| 1967 . . . . . | .37 | 1977 . . . . . | .18 | 1987 . . . . . | .20 | 1997 . . . . . | .91 |
| 1968 . . . . . | .36 | 1978 . . . . . | .22 | 1988 . . . . . | .18 |                |     |
| 1969 . . . . . | .35 | 1979 . . . . . | .20 | 1989 . . . . . | .15 |                |     |

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

## Proven Natural Gas Reserves, Nebraska, 1960-1997

(Billion Cubic Feet)

|               |       |               |       |               |       |               |      |
|---------------|-------|---------------|-------|---------------|-------|---------------|------|
| 1960. . . . . | 117.8 | 1970. . . . . | 58.2  | 1980. . . . . | 176.0 | 1990. . . . . | 72.0 |
| 1961. . . . . | 104.3 | 1971. . . . . | 59.4  | 1981. . . . . | 191.0 | 1991. . . . . | 76.0 |
| 1962. . . . . | 100.7 | 1972. . . . . | 50.3  | 1982. . . . . | 69.0  | 1992. . . . . | 93.0 |
| 1963. . . . . | 100.0 | 1973. . . . . | 48.8  | 1983. . . . . | 78.0  | 1993. . . . . | 96.0 |
| 1964. . . . . | 93.4  | 1974. . . . . | 54.6  | 1984. . . . . | 75.0  | 1994. . . . . | 67.0 |
| 1965. . . . . | 79.6  | 1975. . . . . | 55.8  | 1985. . . . . | 76.0  | 1995. . . . . | 69.0 |
| 1966. . . . . | 72.8  | 1976. . . . . | 59.2  | 1986. . . . . | 133.0 | 1996. . . . . | 69.0 |
| 1967. . . . . | 63.8  | 1977. . . . . | 102.0 | 1987. . . . . | 65.0  | 1997. . . . . | 44.0 |
| 1968. . . . . | 56.8  | 1978. . . . . | 109.0 | 1988. . . . . | 84.0  |               |      |
| 1969. . . . . | 56.6  | 1979. . . . . | 153.0 | 1989. . . . . | 87.0  |               |      |

Source: U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves. Annual Report. Energy Information Administration, U.S. Department of Energy. Washington, DC.

Note: Nebraska reserves are presented for 1960-1976. Beginning in 1977, Nebraska reserves have been included with a group of miscellaneous states, including Arizona, Illinois, Indiana, Maryland, Missouri, Nevada, Oregon, South Dakota, and Tennessee.



**Natural Gas Storage, Nebraska, 1995-1997**  
(Million Cubic Feet)

| Year | Month     | Total Storage Capacity | Natural Gas in Underground Storage at End of Period |             |        |
|------|-----------|------------------------|-----------------------------------------------------|-------------|--------|
|      |           |                        | Base Gas                                            | Working Gas | Total  |
| 1995 | November  | 39,469                 | 31,507                                              | 2,078       | 33,585 |
| 1995 | December  | 39,469                 | 31,507                                              | 485         | 31,992 |
| 1996 | January   | 39,469                 | 30,147                                              | 0           | 30,147 |
| 1996 | February  | 39,469                 | 29,429                                              | 0           | 29,429 |
| 1996 | March     | 39,469                 | 28,665                                              | 0           | 28,665 |
| 1996 | April     | 39,469                 | 28,952                                              | 0           | 28,952 |
| 1996 | May       | 39,469                 | 30,487                                              | 0           | 30,487 |
| 1996 | June      | 39,469                 | 31,507                                              | 806         | 32,313 |
| 1996 | July      | 39,469                 | 31,507                                              | 1,938       | 33,445 |
| 1996 | August    | 39,469                 | 31,507                                              | 3,215       | 34,722 |
| 1996 | September | 39,469                 | 31,507                                              | 3,960       | 35,467 |
| 1996 | October   | 39,469                 | 31,507                                              | 3,389       | 34,896 |
| 1996 | November  | 39,469                 | 31,507                                              | 2,932       | 34,439 |
| 1996 | December  | 39,469                 | 31,507                                              | 1,949       | 33,456 |
| 1997 | January   | 39,469                 | 31,507                                              | 1,082       | 32,589 |
| 1997 | February  | 39,469                 | 31,507                                              | 579         | 32,086 |
| 1997 | March     | 39,469                 | 31,507                                              | 819         | 32,326 |
| 1997 | April     | 39,469                 | 31,507                                              | 862         | 32,369 |
| 1997 | May       | 39,469                 | 31,507                                              | 1,571       | 33,078 |
| 1997 | June      | 39,469                 | 31,507                                              | 2,412       | 33,919 |
| 1997 | July      | 39,469                 | 31,507                                              | 2,442       | 33,949 |
| 1997 | August    | 39,469                 | 31,507                                              | 3,407       | 34,914 |
| 1997 | September | 39,469                 | 31,507                                              | 4,498       | 36,005 |
| 1997 | October   | 39,469                 | 31,507                                              | 4,564       | 36,071 |
| 1997 | November  | 39,469                 | 31,507                                              | 4,438       | 35,945 |
| 1997 | December  | 39,469                 | 31,507                                              | 3,494       | 35,001 |

Source: *Natural Gas Monthly*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC.

## Average Annual Natural Gas Consumption Per Consumer, Cost Per Consumer and Number of Consumers, Residential and Commercial Sectors, Nebraska, 1967-1997

The number of residential consumers increased to 445,000 (1.1%) in 1997 from 1996, average annual consumption per consumer decreased 4.5% to 106 thousand cubic feet and the average annual residential natural gas bill increased 11.3% to \$603. The average annual residential natural gas bill peaked at \$622 in 1984.

The number of commercial consumers decreased 14.8% to 52,000 in 1997 from 1996. The average annual consumption per commercial consumer decreased 1.9% to 655 thousand cubic feet, and the average annual commercial natural gas bill increased 7.0% to \$3,196.

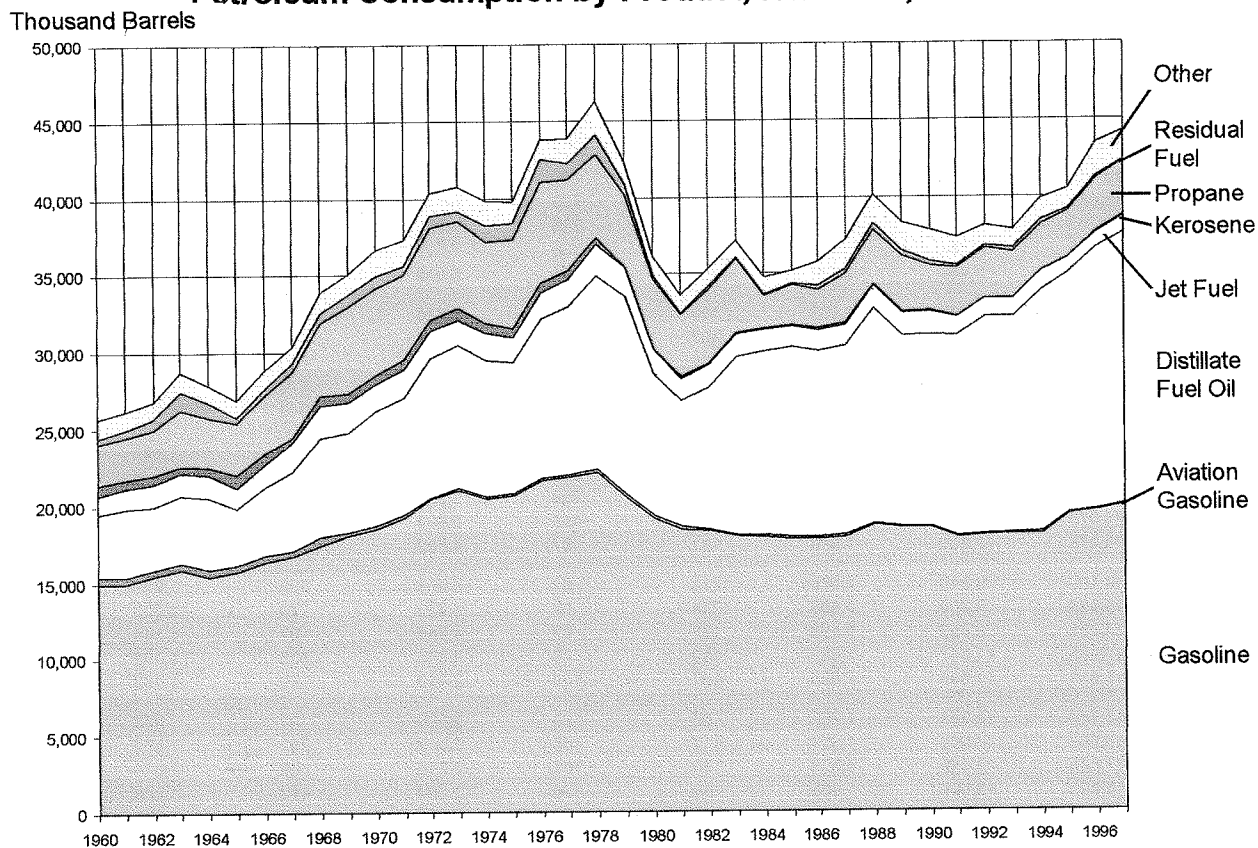
| Residential |                      |       |                         | Commercial |                      |         |                         |
|-------------|----------------------|-------|-------------------------|------------|----------------------|---------|-------------------------|
| Year        | Consumption<br>(mcf) | Cost  | Consumers<br>(thousand) | Year       | Consumption<br>(mcf) | Cost    | Consumers<br>(thousand) |
| 1967        | 179                  | \$142 | 301                     | 1967       | 987                  | \$476   | 42                      |
| 1968        | 174                  | \$138 | 307                     | 1968       | 908                  | \$441   | 46                      |
| 1969        | 176                  | \$146 | 314                     | 1969       | 959                  | \$491   | 48                      |
| 1970        | 183                  | \$156 | 318                     | 1970       | 956                  | \$505   | 49                      |
| 1971        | 177                  | \$164 | 325                     | 1971       | 945                  | \$555   | 50                      |
| 1972        | 180                  | \$178 | 334                     | 1972       | 910                  | \$531   | 50                      |
| 1973        | 155                  | \$161 | 326                     | 1973       | 790                  | \$577   | 49                      |
| 1974        | 142                  | \$162 | 348                     | 1974       | 783                  | \$636   | 54                      |
| 1975        | 151                  | \$194 | 356                     | 1975       | 770                  | \$765   | 56                      |
| 1976        | 160                  | \$218 | 344                     | 1976       | 919                  | \$1,061 | 53                      |
| 1977        | 146                  | \$262 | 363                     | 1977       | 870                  | \$1,213 | 54                      |
| 1978        | 131                  | \$258 | 367                     | 1978       | 799                  | \$1,228 | 51                      |
| 1979        | 147                  | \$339 | 364                     | 1979       | 946                  | \$1,895 | 46                      |
| 1980        | 125                  | \$342 | 391                     | 1980       | 903                  | \$2,064 | 48                      |
| 1981        | 111                  | \$384 | 395                     | 1981       | 677                  | \$2,004 | 60                      |
| 1982        | 130                  | \$542 | 394                     | 1982       | 995                  | \$3,476 | 43                      |
| 1983        | 119                  | \$588 | 398                     | 1983       | 659                  | \$2,778 | 59                      |
| 1984        | 122                  | \$622 | 391                     | 1984       | 706                  | \$3,014 | 59                      |
| 1985        | 119                  | \$595 | 393                     | 1985       | 657                  | \$2,767 | 60                      |
| 1986        | 107                  | \$490 | 396                     | 1986       | 596                  | \$2,341 | 61                      |
| 1987        | 97                   | \$424 | 400                     | 1987       | 563                  | \$2,084 | 61                      |
| 1988        | 108                  | \$481 | 404                     | 1988       | 642                  | \$2,404 | 61                      |
| 1989        | 110                  | \$493 | 407                     | 1989       | 619                  | \$2,331 | 60                      |
| 1990        | 102                  | \$469 | 407                     | 1990       | 604                  | \$2,330 | 60                      |
| 1991        | 108                  | \$502 | 413                     | 1991       | 661                  | \$2,562 | 61                      |
| 1992        | 99                   | \$477 | 419                     | 1992       | 562                  | \$2,242 | 61                      |
| 1993        | 117                  | \$572 | 413                     | 1993       | 573                  | \$2,447 | 61                      |
| 1994        | 104                  | \$521 | 428                     | 1994       | 628                  | \$2,663 | 62                      |
| 1995        | 105                  | \$507 | 428                     | 1995       | 654                  | \$2,590 | 61                      |
| 1996        | 111                  | \$542 | 440                     | 1996       | 668                  | \$2,986 | 61                      |
| 1997        | 106                  | \$603 | 445                     | 1997       | 655                  | \$3,196 | 52                      |

Sources: *Natural Gas Annual*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

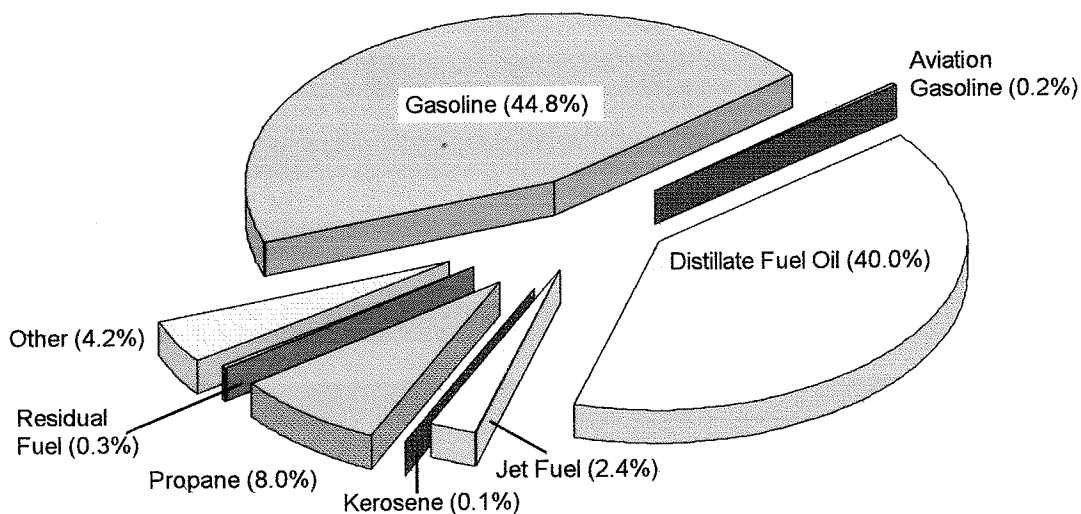
# Petroleum

Petroleum use in Nebraska for 1997 was 44,192 thousand barrels (44.19 million barrels), an increase of 1.7% from 1996. Petroleum use peaked at 46,268 thousand barrels (46.27 million barrels) in 1978.

## Petroleum Consumption by Product, Nebraska, 1960-1997



## Petroleum Consumption by Product, Nebraska, 1997



Sources: *State Energy Data Report 1997, Consumption Estimates, September 1999.* Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: Other includes asphalt, road oil, lubricants and other specialty products.

**Petroleum Consumption by Product, Nebraska, 1960-1997**  
(Thousand Barrels)

| Year | Motor<br>Gasoline | Distillate<br>Fuel Oil | Jet Fuel | Aviation<br>Gasoline | Kerosene | Propane | Residual<br>Fuel | Other | Total  |
|------|-------------------|------------------------|----------|----------------------|----------|---------|------------------|-------|--------|
| 1960 | 14,998            | 4,151                  | 1,202    | 371                  | 677      | 2,650   | 415              | 1,264 | 25,729 |
| 1961 | 14,965            | 4,462                  | 1,309    | 416                  | 622      | 2,730   | 496              | 1,173 | 26,173 |
| 1962 | 15,486            | 4,080                  | 1,463    | 423                  | 610      | 2,953   | 666              | 1,145 | 26,824 |
| 1963 | 15,893            | 4,351                  | 1,491    | 428                  | 457      | 3,672   | 1,161            | 1,272 | 28,725 |
| 1964 | 15,422            | 4,659                  | 1,530    | 443                  | 496      | 3,255   | 983              | 1,100 | 27,888 |
| 1965 | 15,745            | 3,689                  | 1,371    | 410                  | 790      | 3,407   | 332              | 1,131 | 26,875 |
| 1966 | 16,412            | 4,464                  | 1,510    | 362                  | 722      | 3,818   | 430              | 1,199 | 28,917 |
| 1967 | 16,763            | 5,172                  | 1,849    | 333                  | 348      | 4,262   | 586              | 1,084 | 30,397 |
| 1968 | 17,451            | 6,454                  | 2,124    | 556                  | 638      | 4,705   | 643              | 1,328 | 33,900 |
| 1969 | 18,082            | 6,439                  | 2,038    | 233                  | 526      | 5,669   | 779              | 1,308 | 35,074 |
| 1970 | 18,525            | 7,449                  | 1,783    | 199                  | 582      | 5,616   | 793              | 1,710 | 36,656 |
| 1971 | 19,231            | 7,613                  | 1,812    | 197                  | 680      | 5,468   | 579              | 1,687 | 37,267 |
| 1972 | 20,414            | 9,097                  | 1,721    | 89                   | 771      | 6,006   | 720              | 1,502 | 40,320 |
| 1973 | 20,948            | 9,307                  | 1,665    | 172                  | 782      | 5,593   | 670              | 1,577 | 40,714 |
| 1974 | 20,412            | 8,847                  | 1,797    | 174                  | 623      | 5,289   | 1,049            | 1,646 | 39,837 |
| 1975 | 20,636            | 8,507                  | 1,679    | 141                  | 554      | 5,740   | 1,092            | 1,391 | 39,740 |
| 1976 | 21,580            | 10,426                 | 1,692    | 138                  | 635      | 6,552   | 1,505            | 1,270 | 43,798 |
| 1977 | 21,810            | 10,916                 | 1,771    | 183                  | 559      | 5,922   | 1,088            | 1,630 | 43,879 |
| 1978 | 22,075            | 12,630                 | 1,989    | 207                  | 456      | 5,469   | 1,266            | 2,178 | 46,268 |
| 1979 | 20,478            | 12,862                 | 1,900    | 181                  | 57       | 4,682   | 707              | 1,406 | 42,272 |
| 1980 | 19,100            | 9,149                  | 1,588    | 213                  | 62       | 4,499   | 228              | 1,254 | 36,093 |
| 1981 | 18,333            | 8,200                  | 1,466    | 214                  | 87       | 4,023   | 70               | 1,196 | 33,589 |
| 1982 | 18,261            | 9,253                  | 1,453    | 123                  | 93       | 4,788   | 191              | 1,145 | 35,308 |
| 1983 | 17,905            | 11,547                 | 1,482    | 119                  | 76       | 4,818   | 105              | 1,099 | 37,150 |
| 1984 | 17,871            | 11,986                 | 1,385    | 107                  | 109      | 2,118   | 70               | 1,085 | 34,729 |
| 1985 | 17,737            | 12,384                 | 1,357    | 96                   | 74       | 2,590   | 62               | 903   | 35,203 |
| 1986 | 17,757            | 12,051                 | 1,353    | 117                  | 168      | 2,449   | 252              | 1,577 | 35,725 |
| 1987 | 17,885            | 12,299                 | 1,373    | 90                   | 104      | 3,218   | 265              | 1,914 | 37,149 |
| 1988 | 18,609            | 13,995                 | 1,505    | 96                   | 76       | 3,500   | 412              | 1,929 | 40,121 |
| 1989 | 18,427            | 12,432                 | 1,488    | 93                   | 22       | 3,622   | 376              | 1,803 | 38,263 |
| 1990 | 18,451            | 12,455                 | 1,501    | 83                   | 41       | 2,912   | 260              | 2,103 | 37,806 |
| 1991 | 17,801            | 13,022                 | 1,192    | 84                   | 17       | 3,167   | 200              | 1,801 | 37,285 |
| 1992 | 17,951            | 14,091                 | 1,198    | 81                   | 20       | 3,225   | 187              | 1,290 | 38,042 |
| 1993 | 18,029            | 14,049                 | 1,157    | 72                   | 24       | 2,984   | 278              | 1,197 | 37,791 |
| 1994 | 18,043            | 15,692                 | 1,259    | 76                   | 21       | 3,080   | 215              | 1,448 | 39,834 |
| 1995 | 19,302            | 15,558                 | 1,001    | 77                   | 17       | 3,020   | 123              | 1,340 | 40,435 |
| 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 1997, Consumption Estimates, September 1999.* Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC.

Note: Other includes asphalt, road oil, lubricants and other specialty products.

## Motor Gasoline Consumption, Nebraska, 1993-1997

(Gallons)

| Year | Jan        | Feb        | Mar        | Apr        | May        | Jun        | Jul        | Aug        | Sep        | Oct        | Nov        | Dec        | Annual Total |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| 1993 | 25,927,206 | 30,993,030 | 36,613,664 | 39,062,905 | 44,080,715 | 50,836,900 | 47,853,973 | 49,942,745 | 46,182,565 | 45,934,123 | 43,863,911 | 47,439,019 | 508,730,756  |
| 1994 | 33,080,669 | 37,212,420 | 40,609,639 | 43,457,720 | 45,883,941 | 47,478,065 | 48,951,147 | 49,271,048 | 45,457,631 | 45,544,554 | 44,225,652 | 44,089,075 | 525,261,561  |
| 1995 | 45,122,982 | 41,451,395 | 46,823,884 | 44,627,850 | 53,672,389 | 59,084,853 | 52,678,333 | 51,986,038 | 48,504,232 | 50,769,230 | 47,087,667 | 45,694,444 | 587,503,297  |
| 1996 | 43,809,040 | 42,991,661 | 47,993,030 | 49,728,381 | 53,423,201 | 54,913,117 | 60,432,685 | 60,676,348 | 53,667,603 | 61,425,676 | 54,239,086 | 53,485,615 | 636,785,443  |
| 1997 | 47,623,484 | 41,932,440 | 49,460,939 | 49,258,585 | 55,340,811 | 55,011,328 | 61,408,229 | 57,128,629 | 53,466,585 | 54,702,090 | 51,198,191 | 53,355,754 | 629,887,065  |

Source: "Monthly Motor Fuel Consumption." Nebraska Department of Revenue.

## Diesel Fuel Consumption, Nebraska, 1994-1997

(Gallons)

| Year | Jan        | Feb        | Mar        | Apr        | May        | Jun        | Jul        | Aug        | Sep        | Oct        | Nov        | Dec        | Annual Total |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| 1994 |            |            |            |            |            |            | 19,255,761 | 20,580,981 | 21,293,317 | 21,539,334 | 20,023,580 | 18,338,835 | 121,031,808  |
| 1995 | 20,614,763 | 17,688,766 | 20,954,389 | 21,079,940 | 21,381,917 | 22,796,589 | 19,267,264 | 21,733,304 | 20,341,252 | 22,898,888 | 20,854,849 | 18,849,658 | 248,461,579  |
| 1996 | 20,245,070 | 18,988,050 | 21,275,722 | 21,807,522 | 20,648,289 | 21,137,492 | 21,596,293 | 21,526,996 | 21,201,801 | 25,832,888 | 21,795,116 | 19,841,743 | 255,896,982  |
| 1997 | 22,322,791 | 19,471,387 | 23,270,117 | 23,207,534 | 24,738,446 | 23,543,978 | 24,294,208 | 23,870,204 | 24,943,394 | 28,260,671 | 24,694,433 | 23,490,325 | 286,107,488  |

Source: "Monthly Motor Fuel Consumption." Nebraska Department of Revenue.

Note: The *Diesel Fuel Tax Act* replaced the *Special Fuels Tax Act* and became effective on July 1, 1994. There are no numbers available before July 1, 1994.

## Distillate Fuel Oil Consumption by End Use, Nebraska, 1988-1997

(Thousand Gallons)

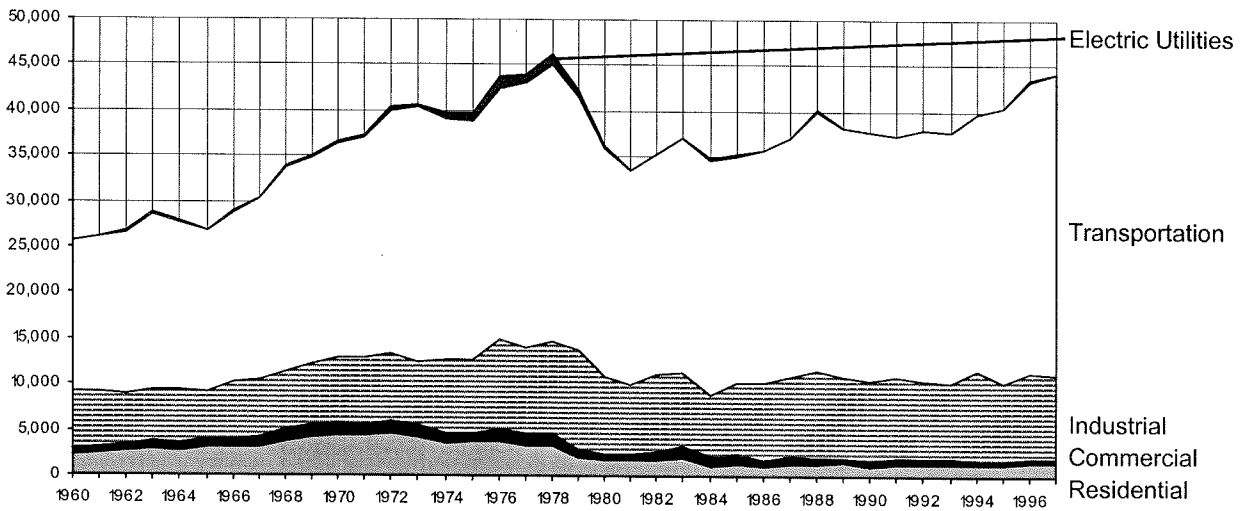
| End Use          | 1988    | 1989    | 1990    | 1991    | 1992    | 1993    | 1994    | 1995    | 1996    | 1997    |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Residential      | 8,736   | 12,598  | 8,499   | 8,353   | 6,251   | 7,332   | 6,437   | 3,888   | 4,917   | 3,918   |
| Commercial       | 13,128  | 11,519  | 12,488  | 7,743   | 11,604  | 13,368  | 14,475  | 7,138   | 10,015  | 7,178   |
| Industrial       | 5,350   | 6,080   | 5,563   | 4,228   | 6,630   | 5,734   | 4,040   | 3,941   | 4,199   | 4,396   |
| Oil Company      | 479     | 27      | 46      | 70      | 29      | 9       | 78      | 774     | 628     | 1,036   |
| Farm             | 166,328 | 175,469 | 188,698 | 181,956 | 194,423 | 195,278 | 221,032 | 186,677 | 177,287 | 182,347 |
| Electric Utility | 582     | 3,211   | 2,082   | 1,064   | 674     | 1,272   | 1,879   | 1,594   | 1,451   | 2,404   |
| Railroad         | 154,686 | 121,912 | 107,399 | 112,358 | 126,990 | 107,504 | 100,192 | 108,815 | 169,069 | 197,184 |
| Vessel Bunkering |         | 80      |         |         |         |         |         |         | 50      | 73      |
| On-Highway       | 217,014 | 208,258 | 218,344 | 220,319 | 242,727 | 257,871 | 281,594 | 312,127 | 336,764 | 316,626 |
| Military         | 1,489   | 1,281   | 350     | 2,470   | 327     | 395     | 770     | 396     | 474     | 620     |
| Off-Highway      | 18,921  | 20,582  | 14,156  | 10,691  | 10,325  | 14,265  | 10,052  | 18,286  | 18,010  | 16,542  |
| Total            | 586,713 | 561,017 | 557,625 | 549,252 | 599,980 | 603,028 | 640,549 | 643,636 | 722,864 | 732,324 |

Source: *Fuel Oil and Kerosene Sales*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC.

Notes: Blanks indicate no data reported.

## Petroleum Consumption by End-Use Sector, Nebraska, 1960-1997

Thousand Barrels



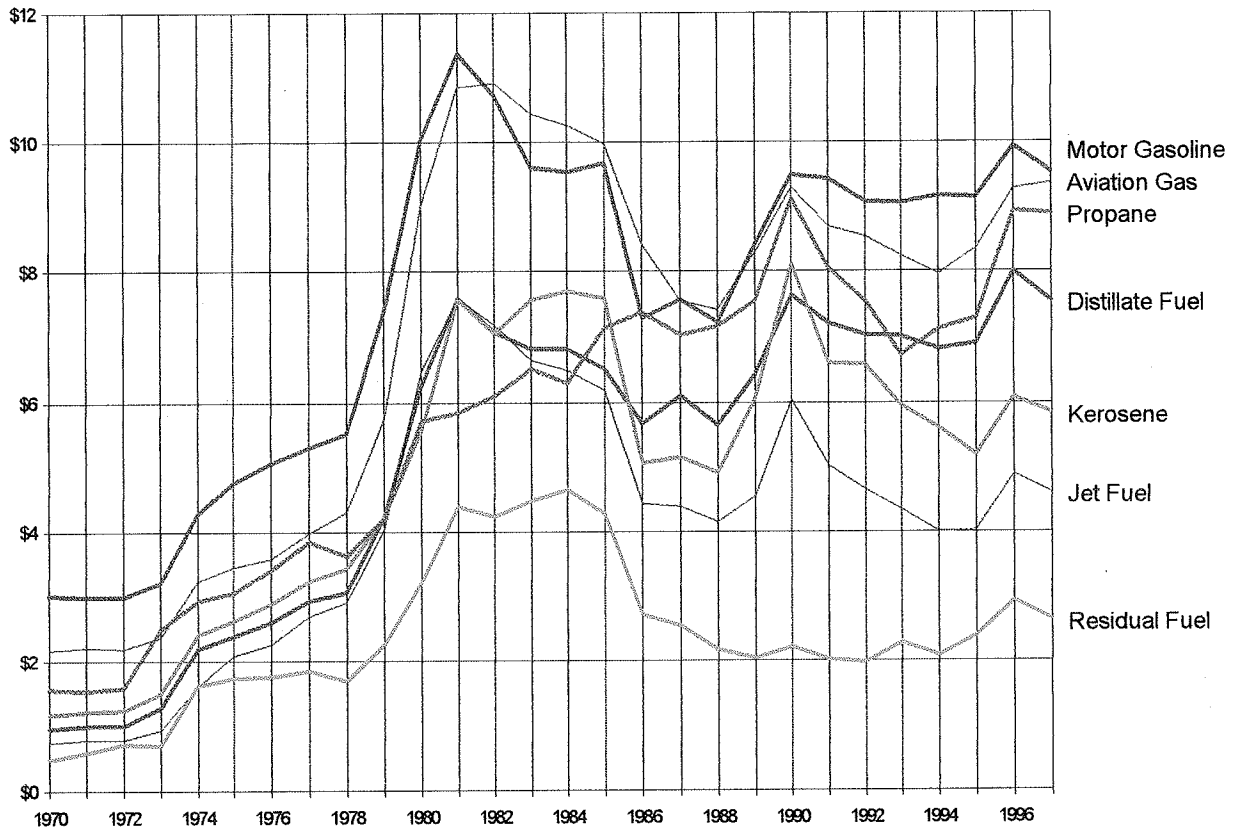
| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Total  |
|------|-------------|------------|------------|----------------|--------------------|--------|
| 1960 | 2,267       | 649        | 6,222      | 16,432         | 160                | 25,569 |
| 1961 | 2,405       | 673        | 6,128      | 16,808         | 158                | 26,014 |
| 1962 | 2,635       | 743        | 5,587      | 17,648         | 212                | 26,612 |
| 1963 | 2,984       | 845        | 5,657      | 18,981         | 258                | 28,467 |
| 1964 | 2,738       | 812        | 5,742      | 18,445         | 151                | 27,737 |
| 1965 | 3,110       | 827        | 5,177      | 17,583         | 178                | 26,697 |
| 1966 | 3,155       | 963        | 6,158      | 18,515         | 127                | 28,791 |
| 1967 | 3,204       | 960        | 6,216      | 19,907         | 110                | 30,288 |
| 1968 | 3,846       | 1,176      | 6,346      | 22,400         | 131                | 33,769 |
| 1969 | 4,305       | 1,283      | 6,707      | 22,593         | 186                | 34,889 |
| 1970 | 4,464       | 1,307      | 7,073      | 23,497         | 314                | 36,342 |
| 1971 | 4,385       | 1,264      | 7,252      | 24,149         | 217                | 37,050 |
| 1972 | 4,738       | 1,348      | 7,326      | 26,453         | 455                | 39,865 |
| 1973 | 4,264       | 1,262      | 6,956      | 27,849         | 382                | 40,332 |
| 1974 | 3,637       | 1,155      | 7,978      | 26,319         | 748                | 39,089 |
| 1975 | 3,688       | 1,079      | 8,030      | 25,976         | 967                | 38,773 |
| 1976 | 3,851       | 1,331      | 9,826      | 27,511         | 1,279              | 42,519 |
| 1977 | 3,413       | 1,195      | 9,434      | 28,948         | 888                | 42,991 |
| 1978 | 3,418       | 1,167      | 10,061     | 30,354         | 1,267              | 45,001 |
| 1979 | 1,909       | 962        | 11,045     | 27,605         | 750                | 41,522 |
| 1980 | 1,775       | 622        | 8,523      | 24,911         | 262                | 35,831 |
| 1981 | 1,726       | 751        | 7,642      | 23,377         | 93                 | 33,496 |
| 1982 | 1,832       | 797        | 8,462      | 24,084         | 132                | 35,176 |
| 1983 | 2,003       | 1,260      | 8,153      | 25,654         | 80                 | 37,070 |
| 1984 | 1,102       | 1,139      | 6,785      | 25,661         | 41                 | 34,688 |
| 1985 | 1,379       | 1,146      | 7,713      | 24,903         | 62                 | 35,141 |
| 1986 | 1,190       | 640        | 8,427      | 25,366         | 103                | 35,622 |
| 1987 | 1,436       | 713        | 8,717      | 26,191         | 92                 | 37,057 |
| 1988 | 1,410       | 659        | 9,430      | 28,481         | 140                | 39,980 |
| 1989 | 1,467       | 613        | 8,927      | 27,145         | 110                | 38,153 |
| 1990 | 1,151       | 618        | 8,790      | 27,216         | 31                 | 37,775 |
| 1991 | 1,430       | 529        | 8,915      | 26,380         | 30                 | 37,255 |
| 1992 | 1,401       | 624        | 8,571      | 27,422         | 25                 | 38,017 |
| 1993 | 1,349       | 557        | 8,312      | 27,531         | 42                 | 37,749 |
| 1994 | 1,256       | 600        | 9,652      | 28,281         | 45                 | 39,789 |
| 1995 | 1,272       | 408        | 8,638      | 30,056         | 61                 | 40,374 |
| 1996 | 1,514       | 505        | 9,292      | 32,082         | 47                 | 43,394 |
| 1997 | 1,498       | 454        | 9,285      | 32,883         | 72                 | 44,120 |

Sources: *State Energy Data Report 1997, Consumption Estimates, September 1999.* Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

# Petroleum Product Prices, Nebraska, 1970-1997

Prices in Nebraska decreased in 1997 for all petroleum products with the exception of aviation gasoline.

Nominal Dollars per Million Btu



| Year | Motor Gasoline | Distillate Fuel | Jet Fuel | Aviation Gasoline | Kerosene | Propane | Residual Fuel |
|------|----------------|-----------------|----------|-------------------|----------|---------|---------------|
| 1970 | \$3.03         | \$0.95          | \$0.75   | \$2.17            | \$1.18   | \$1.56  | \$0.48        |
| 1971 | \$3.00         | \$0.99          | \$0.78   | \$2.21            | \$1.21   | \$1.54  | \$0.60        |
| 1972 | \$3.00         | \$1.01          | \$0.78   | \$2.19            | \$1.23   | \$1.59  | \$0.71        |
| 1973 | \$3.21         | \$1.28          | \$0.93   | \$2.36            | \$1.51   | \$2.49  | \$0.70        |
| 1974 | \$4.27         | \$2.20          | \$1.60   | \$3.23            | \$2.42   | \$2.93  | \$1.62        |
| 1975 | \$4.76         | \$2.38          | \$2.09   | \$3.45            | \$2.63   | \$3.07  | \$1.74        |
| 1976 | \$5.06         | \$2.61          | \$2.26   | \$3.59            | \$2.88   | \$3.41  | \$1.76        |
| 1977 | \$5.29         | \$2.92          | \$2.69   | \$3.97            | \$3.23   | \$3.84  | \$1.86        |
| 1978 | \$5.50         | \$3.06          | \$2.90   | \$4.29            | \$3.44   | \$3.62  | \$1.70        |
| 1979 | \$7.41         | \$4.24          | \$4.03   | \$5.73            | \$4.24   | \$4.21  | \$2.26        |
| 1980 | \$10.06        | \$6.24          | \$6.47   | \$9.02            | \$5.56   | \$5.70  | \$3.21        |
| 1981 | \$11.37        | \$7.60          | \$7.60   | \$10.84           | \$7.57   | \$5.84  | \$4.38        |
| 1982 | \$10.71        | \$7.07          | \$7.19   | \$10.92           | \$7.05   | \$6.09  | \$4.22        |
| 1983 | \$9.61         | \$6.82          | \$6.63   | \$10.44           | \$7.58   | \$6.52  | \$4.46        |
| 1984 | \$9.55         | \$6.81          | \$6.50   | \$10.27           | \$7.69   | \$6.29  | \$4.65        |
| 1985 | \$9.67         | \$6.52          | \$6.19   | \$9.99            | \$7.60   | \$7.15  | \$4.28        |
| 1986 | \$7.28         | \$5.67          | \$4.43   | \$8.41            | \$5.05   | \$7.38  | \$2.71        |
| 1987 | \$7.58         | \$6.09          | \$4.38   | \$7.55            | \$5.14   | \$7.04  | \$2.53        |
| 1988 | \$7.22         | \$5.65          | \$4.14   | \$7.41            | \$4.91   | \$7.17  | \$2.17        |
| 1989 | \$8.42         | \$6.42          | \$4.54   | \$8.28            | \$6.06   | \$7.55  | \$2.04        |
| 1990 | \$9.49         | \$7.64          | \$6.03   | \$9.32            | \$8.12   | \$9.15  | \$2.22        |
| 1991 | \$9.43         | \$7.20          | \$5.01   | \$8.71            | \$6.61   | \$8.05  | \$2.02        |
| 1992 | \$9.09         | \$7.04          | \$4.64   | \$8.54            | \$6.57   | \$7.55  | \$1.97        |
| 1993 | \$9.08         | \$7.01          | \$4.33   | \$8.24            | \$5.95   | \$6.73  | \$2.27        |
| 1994 | \$9.17         | \$6.82          | \$3.99   | \$7.96            | \$5.60   | \$7.12  | \$2.08        |
| 1995 | \$9.15         | \$6.89          | \$4.01   | \$8.36            | \$5.20   | \$7.30  | \$2.38        |
| 1996 | \$9.95         | \$8.00          | \$4.89   | \$9.29            | \$6.07   | \$8.93  | \$2.94        |
| 1997 | \$9.55         | \$7.54          | \$4.59   | \$9.39            | \$5.84   | \$8.90  | \$2.65        |

Sources: State Energy Price and Expenditure Report 1997. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

## Crude Oil Wellhead Prices, Nebraska, 1978-1997

Dollars per Barrel



|            |         |            |         |            |         |
|------------|---------|------------|---------|------------|---------|
| 1978 ..... | \$11.40 | 1985 ..... | \$25.42 | 1992 ..... | \$17.51 |
| 1979 ..... | \$18.13 | 1986 ..... | \$13.70 | 1993 ..... | \$14.90 |
| 1980 ..... | \$30.60 | 1987 ..... | \$17.08 | 1994 ..... | \$13.60 |
| 1981 ..... | \$35.32 | 1988 ..... | \$14.08 | 1995 ..... | \$15.18 |
| 1982 ..... | \$30.98 | 1989 ..... | \$17.36 | 1996 ..... | \$19.57 |
| 1983 ..... | \$28.58 | 1990 ..... | \$21.94 | 1997 ..... | \$18.10 |
| 1984 ..... | \$27.83 | 1991 ..... | \$18.78 |            |         |

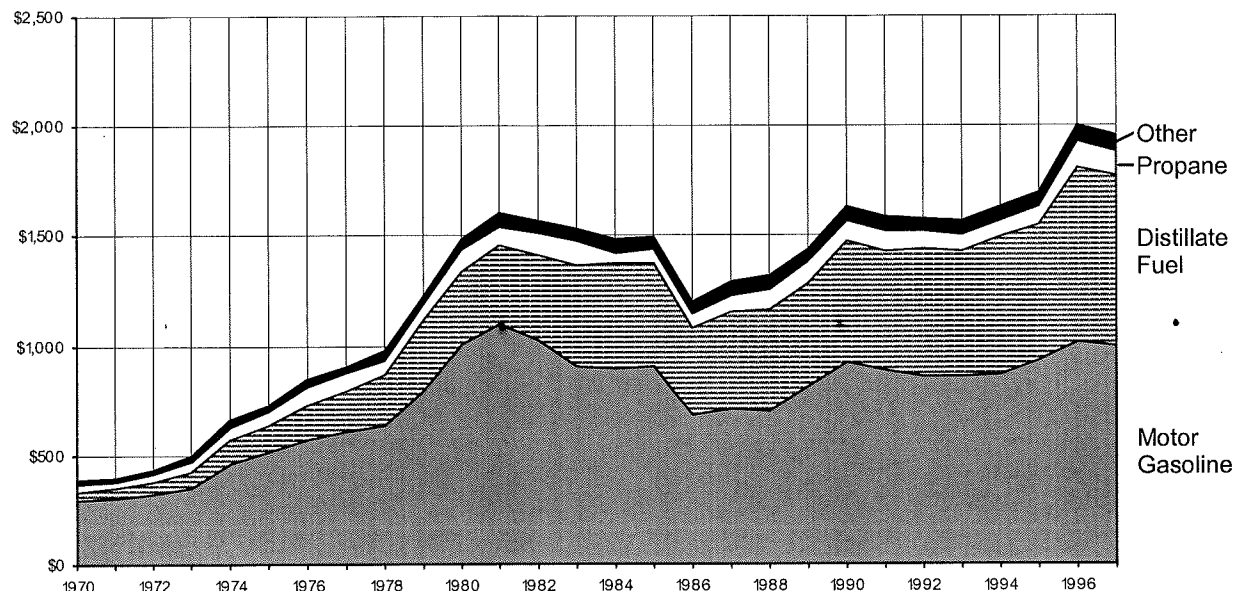
Source: *Petroleum Marketing Monthly*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC.



## Petroleum Expenditures by Product, Nebraska, 1970-1997

Expenditures on petroleum decreased to \$1,994.90 million (\$1.995 billion) in 1997, a 2.3% decrease from 1996 expenditures of \$2,040.87 million (\$2.041 billion). A new record was set in 1996 for peak expenditures (previously \$1,694.82 million in 1990).

Million Nominal Dollars



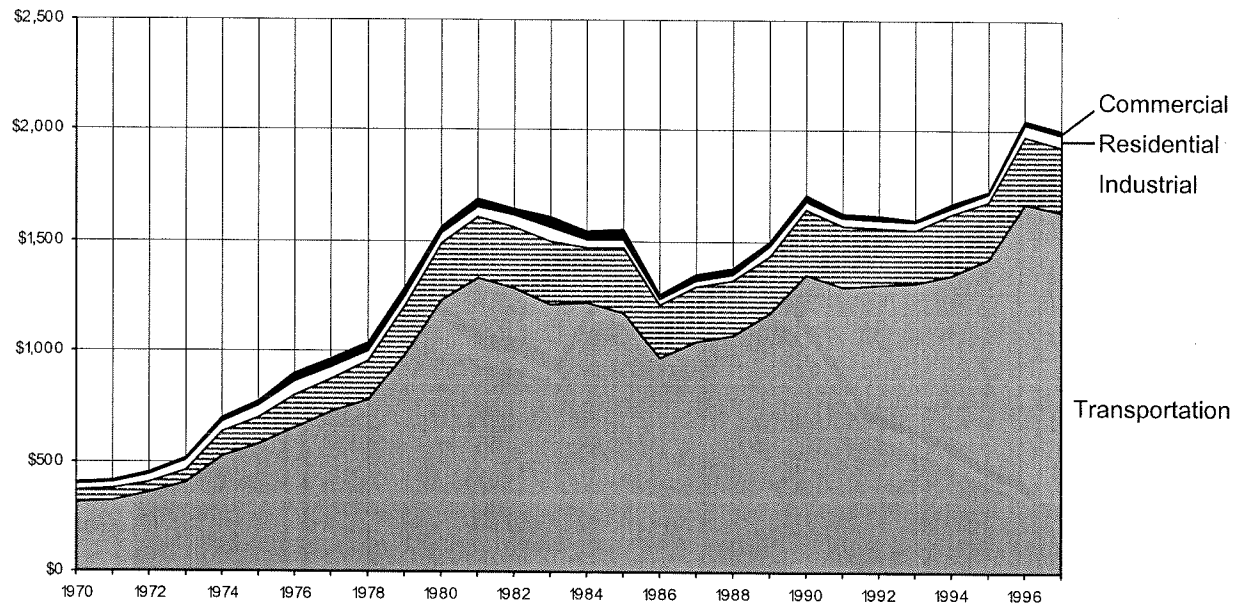
| Year | Motor Gasoline | Distillate Fuel | Jet Fuel | Aviation Gasoline | Kerosene | Propane | Residual Fuel | Other  | Total     |
|------|----------------|-----------------|----------|-------------------|----------|---------|---------------|--------|-----------|
| 1970 | \$294.4        | \$41.4          | \$7.3    | \$2.2             | \$3.9    | \$33.2  | \$2.3         | \$20.1 | \$404.8   |
| 1971 | \$303.0        | \$43.9          | \$7.8    | \$2.2             | \$4.7    | \$31.8  | \$2.0         | \$20.3 | \$415.7   |
| 1972 | \$321.3        | \$53.4          | \$7.4    | \$1.0             | \$5.4    | \$36.0  | \$3.0         | \$21.2 | \$448.6   |
| 1973 | \$352.8        | \$69.4          | \$8.5    | \$2.0             | \$6.7    | \$49.6  | \$2.9         | \$22.6 | \$514.5   |
| 1974 | \$457.5        | \$113.2         | \$15.8   | \$2.8             | \$8.5    | \$57.9  | \$10.1        | \$34.3 | \$700.2   |
| 1975 | \$516.3        | \$117.9         | \$19.3   | \$2.5             | \$8.2    | \$65.4  | \$11.2        | \$32.7 | \$773.5   |
| 1976 | \$573.0        | \$158.2         | \$21.1   | \$2.5             | \$10.4   | \$82.8  | \$15.9        | \$31.1 | \$895.1   |
| 1977 | \$606.3        | \$185.6         | \$26.2   | \$3.7             | \$10.2   | \$83.6  | \$11.9        | \$31.4 | \$959.0   |
| 1978 | \$638.0        | \$225.4         | \$31.9   | \$4.5             | \$8.9    | \$72.7  | \$13.0        | \$42.7 | \$1,037.0 |
| 1979 | \$796.6        | \$317.5         | \$42.3   | \$5.2             | \$1.4    | \$72.5  | \$9.8         | \$41.0 | \$1,286.5 |
| 1980 | \$1,008.9      | \$332.7         | \$56.2   | \$9.7             | \$2.0    | \$94.2  | \$4.3         | \$52.4 | \$1,560.4 |
| 1981 | \$1,095.0      | \$362.4         | \$60.9   | \$11.7            | \$3.7    | \$84.9  | \$1.7         | \$65.2 | \$1,685.4 |
| 1982 | \$1,027.3      | \$380.8         | \$57.2   | \$6.8             | \$3.7    | \$105.4 | \$5.1         | \$57.4 | \$1,643.7 |
| 1983 | \$904.3        | \$459.0         | \$53.9   | \$6.3             | \$3.3    | \$113.5 | \$2.9         | \$58.2 | \$1,601.4 |
| 1984 | \$896.6        | \$475.5         | \$49.3   | \$5.5             | \$4.7    | \$47.9  | \$2.0         | \$61.4 | \$1,543.1 |
| 1985 | \$901.4        | \$470.2         | \$45.9   | \$4.9             | \$3.2    | \$66.7  | \$1.7         | \$53.6 | \$1,547.6 |
| 1986 | \$679.4        | \$398.3         | \$32.8   | \$5.0             | \$4.8    | \$65.8  | \$4.3         | \$57.6 | \$1,248.0 |
| 1987 | \$711.9        | \$436.7         | \$32.9   | \$3.4             | \$3.0    | \$82.9  | \$4.2         | \$64.0 | \$1,339.0 |
| 1988 | \$705.4        | \$460.7         | \$34.2   | \$3.6             | \$2.1    | \$91.6  | \$5.6         | \$63.1 | \$1,366.2 |
| 1989 | \$814.6        | \$465.1         | \$37.1   | \$3.9             | \$0.7    | \$100.7 | \$4.8         | \$57.2 | \$1,484.1 |
| 1990 | \$920.2        | \$554.4         | \$50.0   | \$3.9             | \$1.9    | \$96.5  | \$3.6         | \$64.3 | \$1,694.8 |
| 1991 | \$882.0        | \$545.9         | \$33.1   | \$3.7             | \$0.7    | \$92.1  | \$2.5         | \$66.2 | \$1,626.3 |
| 1992 | \$857.6        | \$577.6         | \$30.7   | \$3.5             | \$0.7    | \$88.3  | \$2.3         | \$56.0 | \$1,616.6 |
| 1993 | \$859.6        | \$573.9         | \$27.8   | \$3.0             | \$0.8    | \$72.4  | \$4.0         | \$58.0 | \$1,599.5 |
| 1994 | \$869.4        | \$623.6         | \$28.1   | \$3.0             | \$0.7    | \$79.7  | \$2.8         | \$64.7 | \$1,672.0 |
| 1995 | \$928.0        | \$624.4         | \$22.7   | \$3.2             | \$0.5    | \$79.9  | \$1.8         | \$64.9 | \$1,725.5 |
| 1996 | \$1,017.7      | \$793.9         | \$27.9   | \$3.5             | \$0.7    | \$112.5 | \$3.1         | \$81.6 | \$2,040.9 |
| 1997 | \$995.0        | \$776.5         | \$28.0   | \$4.2             | \$0.8    | \$113.3 | \$1.9         | \$75.2 | \$1,994.9 |

Sources: State Energy Price and Expenditure Report 1997. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: Other includes asphalt, road oil and lubricants.

## Petroleum Expenditures by End-Use Sector, Nebraska, 1970-1997

Million Nominal Dollars



| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Total     |
|------|-------------|------------|------------|----------------|--------------------|-----------|
| 1970 | \$30.4      | \$6.8      | \$49.5     | \$317.0        | \$1.0              | \$404.8   |
| 1971 | \$29.1      | \$7.2      | \$54.6     | \$324.9        | \$0.9              | \$416.6   |
| 1972 | \$33.2      | \$7.7      | \$52.3     | \$354.1        | \$2.4              | \$449.7   |
| 1973 | \$47.9      | \$8.0      | \$50.1     | \$407.9        | \$2.1              | \$516.0   |
| 1974 | \$46.5      | \$13.3     | \$108.3    | \$526.1        | \$7.3              | \$701.6   |
| 1975 | \$50.1      | \$13.3     | \$122.7    | \$578.3        | \$10.5             | \$774.9   |
| 1976 | \$60.8      | \$17.4     | \$151.7    | \$652.3        | \$14.7             | \$896.9   |
| 1977 | \$59.2      | \$17.6     | \$151.3    | \$721.6        | \$11.0             | \$960.7   |
| 1978 | \$51.8      | \$18.0     | \$173.1    | \$781.1        | \$15.2             | \$1,039.2 |
| 1979 | \$46.2      | \$23.0     | \$224.6    | \$982.3        | \$12.9             | \$1,289.1 |
| 1980 | \$50.0      | \$20.5     | \$253.5    | \$1,233.0      | \$6.7              | \$1,563.7 |
| 1981 | \$53.5      | \$29.9     | \$275.7    | \$1,329.4      | \$3.7              | \$1,692.2 |
| 1982 | \$58.0      | \$28.3     | \$272.6    | \$1,285.6      | \$5.1              | \$1,649.6 |
| 1983 | \$58.5      | \$43.8     | \$284.7    | \$1,217.6      | \$2.7              | \$1,607.3 |
| 1984 | \$33.6      | \$41.2     | \$252.8    | \$1,219.6      | \$1.5              | \$1,548.6 |
| 1985 | \$43.1      | \$41.1     | \$290.1    | \$1,176.7      | \$2.1              | \$1,553.1 |
| 1986 | \$26.0      | \$17.7     | \$233.7    | \$978.5        | \$1.9              | \$1,257.7 |
| 1987 | \$29.7      | \$20.7     | \$253.8    | \$1,043.5      | \$1.6              | \$1,349.3 |
| 1988 | \$29.4      | \$18.1     | \$253.9    | \$1,071.5      | \$2.4              | \$1,375.4 |
| 1989 | \$42.9      | \$17.9     | \$258.0    | \$1,175.8      | \$2.1              | \$1,496.7 |
| 1990 | \$34.4      | \$23.2     | \$299.1    | \$1,349.8      | \$1.3              | \$1,707.7 |
| 1991 | \$38.1      | \$17.5     | \$279.3    | \$1,292.9      | \$0.8              | \$1,628.7 |
| 1992 | \$35.1      | \$18.8     | \$263.4    | \$1,302.5      | \$0.7              | \$1,620.5 |
| 1993 | \$33.1      | \$14.6     | \$242.7    | \$1,311.3      | \$1.0              | \$1,602.7 |
| 1994 | \$32.3      | \$16.2     | \$278.4    | \$1,348.3      | \$1.1              | \$1,676.2 |
| 1995 | \$32.5      | \$11.6     | \$256.9    | \$1,427.0      | \$1.5              | \$1,729.6 |
| 1996 | \$48.2      | \$16.8     | \$309.1    | \$1,670.0      | \$1.4              | \$2,045.5 |
| 1997 | \$47.7      | \$15.2     | \$300.0    | \$1,634.6      | \$1.9              | \$1,999.4 |

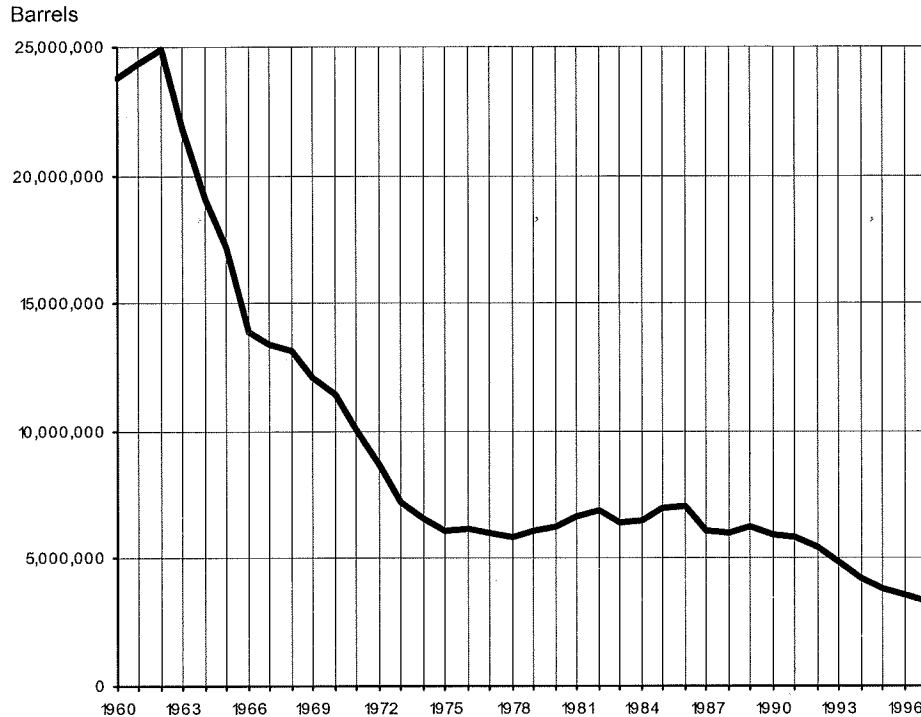
Source: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC.

## Crude Oil Annual Production, Nebraska, 1960-1997

Petroleum production in Nebraska for 1997 was 3,336,834 barrels, a decrease of 5.8% from 1996 production of 3,543,110 barrels. This represents the lowest production level in Nebraska in the last 37 years. Nebraska's petroleum production in 1997 represented 7.6% of the petroleum consumed in the state. Petroleum produced in Nebraska is first exported from the state for refining.

### Year                      Barrels

|      |            |
|------|------------|
| 1960 | 23,786,739 |
| 1961 | 24,339,769 |
| 1962 | 24,893,777 |
| 1963 | 21,845,633 |
| 1964 | 19,113,091 |
| 1965 | 17,215,924 |
| 1966 | 13,850,367 |
| 1967 | 13,372,691 |
| 1968 | 13,183,023 |
| 1969 | 12,105,728 |
| 1970 | 11,452,511 |
| 1971 | 10,061,690 |
| 1972 | 8,705,122  |
| 1973 | 7,240,309  |
| 1974 | 6,610,595  |
| 1975 | 6,119,671  |
| 1976 | 6,179,902  |
| 1977 | 5,968,452  |
| 1978 | 5,862,277  |
| 1979 | 6,068,361  |
| 1980 | 6,239,652  |
| 1981 | 6,671,313  |
| 1982 | 6,872,204  |
| 1983 | 6,386,417  |
| 1984 | 6,469,723  |
| 1985 | 6,942,502  |
| 1986 | 7,097,633  |
| 1987 | 6,090,631  |
| 1988 | 5,978,429  |
| 1989 | 6,231,544  |
| 1990 | 5,889,722  |
| 1991 | 5,832,115  |
| 1992 | 5,474,188  |
| 1993 | 4,868,255  |
| 1994 | 4,217,322  |
| 1995 | 3,793,759  |
| 1996 | 3,543,110  |
| 1997 | 3,336,834  |



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

## Crude Oil Monthly Production, Nebraska, 1987-1997 (Barrels)

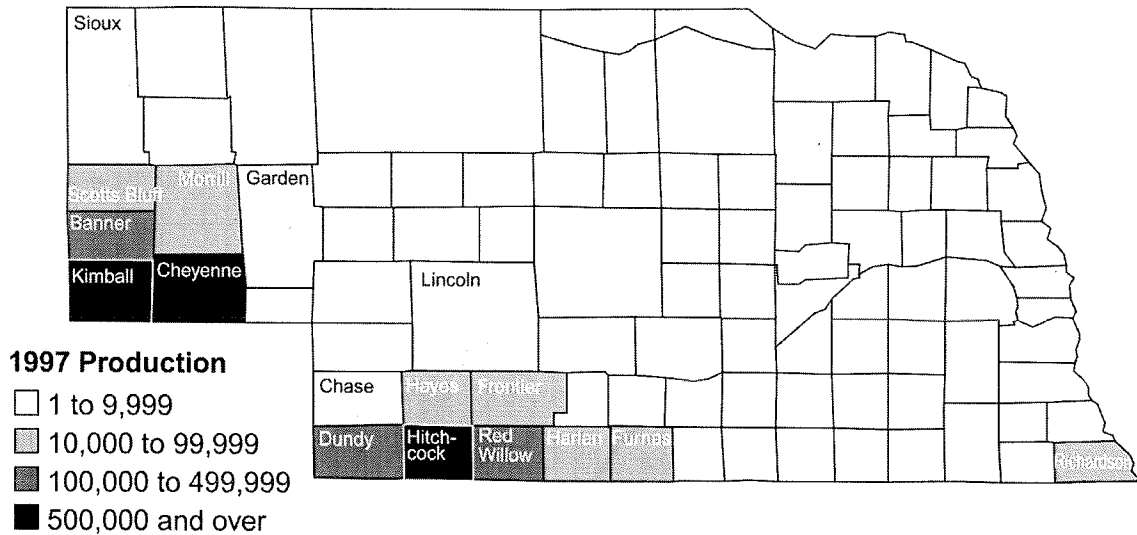
| Month                | 1987             | 1988             | 1989             | 1990             | 1991             | 1992             | 1993             | 1994             | 1995             | 1996             | 1997             |
|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| January              | 540,588          | 475,850          | 560,755          | 495,587          | 484,621          | 487,064          | 423,080          | 377,397          | 339,141          | 298,385          | 284,468          |
| February             | 483,887          | 459,849          | 483,927          | 453,011          | 446,305          | 454,314          | 380,548          | 335,172          | 308,455          | 283,805          | 261,642          |
| March                | 509,946          | 477,192          | 532,398          | 499,275          | 493,822          | 477,821          | 424,198          | 368,888          | 334,305          | 305,605          | 289,554          |
| April                | 510,008          | 473,833          | 531,987          | 492,188          | 480,509          | 465,851          | 411,144          | 330,110          | 320,629          | 292,958          | 273,429          |
| May                  | 521,386          | 497,501          | 531,549          | 499,698          | 492,898          | 475,649          | 426,356          | 365,458          | 322,370          | 298,182          | 280,816          |
| June                 | 508,937          | 491,800          | 536,038          | 481,191          | 477,288          | 449,522          | 416,168          | 346,816          | 309,952          | 295,579          | 269,162          |
| July                 | 514,704          | 506,413          | 537,398          | 507,066          | 492,365          | 457,451          | 419,282          | 357,857          | 308,773          | 300,191          | 274,499          |
| August               | 506,652          | 518,445          | 521,793          | 512,786          | 500,261          | 448,996          | 410,755          | 355,171          | 317,743          | 297,363          | 276,983          |
| September            | 494,073          | 500,694          | 504,189          | 497,133          | 484,883          | 442,453          | 393,794          | 346,106          | 307,646          | 290,523          | 271,845          |
| October              | 508,775          | 532,802          | 514,255          | 503,250          | 501,591          | 450,999          | 428,760          | 351,934          | 315,256          | 301,561          | 285,170          |
| November             | 490,748          | 516,135          | 483,913          | 473,634          | 479,628          | 428,757          | 377,872          | 337,184          | 302,238          | 286,507          | 282,426          |
| December             | 504,194          | 534,628          | 488,017          | 471,128          | 498,266          | 434,678          | 386,677          | 345,040          | 307,302          | 290,483          | 286,056          |
| <b>Total</b>         | <b>6,093,898</b> | <b>5,985,142</b> | <b>6,226,219</b> | <b>5,885,947</b> | <b>5,832,437</b> | <b>5,473,555</b> | <b>4,898,634</b> | <b>4,217,133</b> | <b>3,793,810</b> | <b>3,541,142</b> | <b>3,336,050</b> |
| <b>Annual Report</b> | <b>6,090,631</b> | <b>5,978,429</b> | <b>6,231,544</b> | <b>5,889,722</b> | <b>5,832,115</b> | <b>5,474,188</b> | <b>4,868,255</b> | <b>4,217,322</b> | <b>3,793,759</b> | <b>3,543,110</b> | <b>3,336,834</b> |

Sources: "Nebraska Oil Activity Summary," Nebraska Oil and Gas Conservation Commission. Sidney, NE. Nebraska Energy Office.

Note: Data in the annual report is compiled after corrections and updates have been made which are not reflected in the monthly reports.

## Crude Oil Production by County, Nebraska, 1997

(Barrels)



## Crude Oil Production by County, Nebraska, 1988-1997

(Barrels)

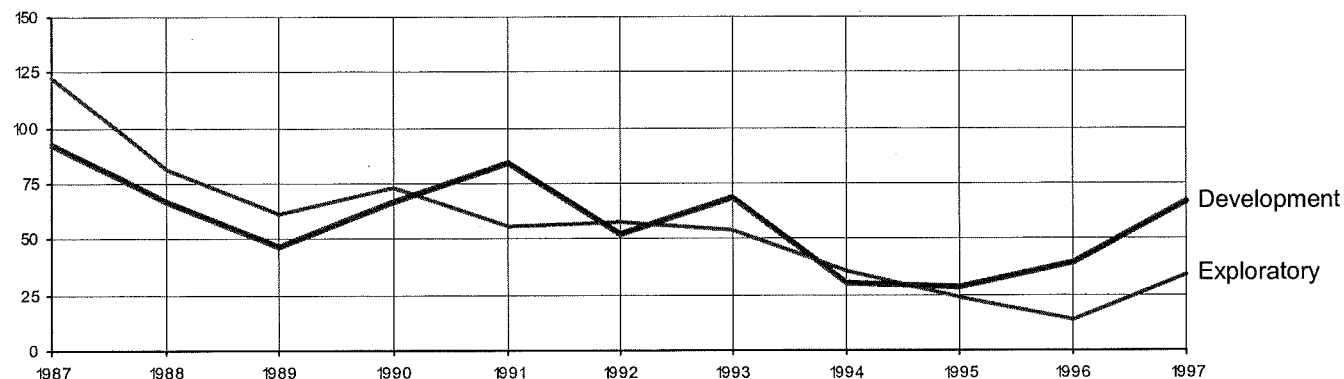
| County       | 1988             | 1989             | 1990             | 1991             | 1992             | 1993             | 1994             | 1995             | 1996             | 1997             |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Banner       | 418,562          | 385,677          | 390,077          | 419,953          | 389,439          | 346,969          | 308,526          | 283,193          | 254,221          | 233,304          |
| Chase        | 3,925            | 3,570            | 3,158            | 2,707            | 2,492            | 2,217            | 1,797            | 1,856            | 1,776            | 1,583            |
| Cheyenne     | 1,063,357        | 919,001          | 819,031          | 743,202          | 751,136          | 783,505          | 682,800          | 599,965          | 589,915          | 546,425          |
| Deuel        | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 34               | 0                | 0                |
| Dundy        | 191,568          | 180,239          | 154,381          | 155,914          | 123,291          | 110,070          | 101,470          | 108,988          | 148,033          | 204,462          |
| Frontier     | 73,026           | 70,004           | 60,796           | 66,749           | 62,777           | 54,862           | 54,691           | 48,679           | 41,059           | 43,308           |
| Furnas       | 30,604           | 29,106           | 28,161           | 38,314           | 28,380           | 24,637           | 19,996           | 19,733           | 18,990           | 17,266           |
| Garden       | 1,873            | 2,608            | 2,451            | 2,301            | 2,142            | 1,771            | 1,143            | 4,965            | 8,351            | 7,229            |
| Harlan       | 19,872           | 19,562           | 19,212           | 17,968           | 16,635           | 11,838           | 12,407           | 12,809           | 13,240           | 14,756           |
| Hayes        | 193,982          | 241,707          | 216,649          | 177,316          | 149,501          | 125,760          | 119,505          | 102,457          | 95,152           | 97,681           |
| Hitchcock    | 1,440,318        | 1,912,424        | 1,852,168        | 1,667,341        | 1,525,782        | 1,340,375        | 1,170,753        | 1,069,829        | 959,040          | 861,726          |
| Kimball      | 751,257          | 884,888          | 1,029,480        | 1,399,691        | 1,357,646        | 1,123,629        | 911,773          | 800,989          | 730,132          | 700,949          |
| Lincoln      | 2,314            | 2,217            | 1,995            | 3,487            | 3,133            | 1,871            | 1,554            | 2,891            | 4,985            | 3,728            |
| Morrill      | 193,478          | 203,752          | 188,135          | 164,050          | 149,447          | 134,841          | 135,635          | 120,646          | 103,335          | 93,950           |
| Red Willow   | 1,434,475        | 1,220,950        | 993,756          | 851,914          | 785,741          | 690,248          | 574,806          | 525,835          | 487,142          | 433,867          |
| Richardson   | 35,349           | 39,300           | 34,409           | 31,906           | 38,177           | 38,130           | 42,124           | 29,281           | 21,113           | 17,746           |
| Scotts Bluff | 116,574          | 110,144          | 91,471           | 85,525           | 84,615           | 76,138           | 77,342           | 61,733           | 62,407           | 55,255           |
| Sioux        | 7,895            | 6,395            | 4,392            | 3,777            | 3,854            | 1,394            | 0                | 0                | 4,219            | 3,599            |
| <b>Total</b> | <b>5,978,429</b> | <b>6,231,544</b> | <b>5,889,722</b> | <b>5,832,115</b> | <b>5,474,188</b> | <b>4,868,255</b> | <b>4,216,322</b> | <b>3,793,883</b> | <b>3,543,110</b> | <b>3,336,834</b> |

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

## Drilling Permits Issued for Development and Exploratory Wells, Nebraska, 1987-1997

The 67 permits issued for development wells in 1997 was a 71.8% increase from the 39 permits issued in 1996. There were 34 drilling permits issued in 1997 for exploratory wells, increasing almost 1.5 times the number in 1996 (14 permits).

Number of Permits



| Type        |     |     |     |     |     |     |     |     |     |     |     |     | Annual |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| Year        | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total  |
| Development |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 1987        | 5   | 8   | 5   | 6   | 14  | 11  | 9   | 6   | 6   | 9   | 6   | 7   | 92     |
| 1988        | 0   | 3   | 5   | 9   | 9   | 10  | 5   | 6   | 4   | 6   | 4   | 6   | 67     |
| 1989        | 1   | 4   | 6   | 3   | 6   | 2   | 0   | 6   | 5   | 4   | 5   | 6   | 48     |
| 1990        | 4   | 7   | 7   | 5   | 5   | 3   | 6   | 8   | 8   | 7   | 3   | 4   | 67     |
| 1991        | 16  | 3   | 10  | 11  | 8   | 12  | 4   | 5   | 3   | 7   | 1   | 4   | 84     |
| 1992        | 4   | 5   | 9   | 3   | 2   | 1   | 4   | 3   | 7   | 8   | 1   | 5   | 52     |
| 1993        | 2   | 3   | 5   | 5   | 3   | 3   | 5   | 14  | 6   | 16  | 5   | 2   | 69     |
| 1994        | 2   | 5   | 3   | 0   | 1   | 3   | 4   | 1   | 1   | 1   | 0   | 9   | 30     |
| 1995        | 3   | 2   | 1   | 0   | 3   | 2   | 5   | 2   | 1   | 3   | 3   | 1   | 26     |
| 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     |
| Exploratory |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 1987        | 6   | 7   | 9   | 6   | 4   | 14  | 12  | 13  | 14  | 13  | 12  | 13  | 123    |
| 1988        | 10  | 7   | 8   | 6   | 5   | 5   | 7   | 8   | 8   | 7   | 4   | 6   | 81     |
| 1989        | 4   | 3   | 4   | 3   | 5   | 14  | 3   | 2   | 4   | 6   | 6   | 7   | 61     |
| 1990        | 3   | 3   | 5   | 3   | 7   | 11  | 7   | 5   | 10  | 8   | 7   | 4   | 73     |
| 1991        | 0   | 1   | 7   | 8   | 5   | 4   | 3   | 5   | 4   | 6   | 7   | 6   | 56     |
| 1992        | 1   | 4   | 4   | 2   | 1   | 1   | 5   | 9   | 10  | 4   | 10  | 7   | 58     |
| 1993        | 3   | 6   | 5   | 2   | 1   | 0   | 12  | 3   | 7   | 7   | 5   | 3   | 54     |
| 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 Summary." Nebraska Oil and Gas Conservation Commission. Sidney, NE.

## Stripper Oil Wells, Nebraska, 1979-1997

| Year | Number of Stripper Wells | Production (Barrels) | Plugged and Abandoned Stripper Wells | Average Daily Production per Well (Barrels) | Percent of Total Crude Oil Production |
|------|--------------------------|----------------------|--------------------------------------|---------------------------------------------|---------------------------------------|
| 1979 | 1,037                    | 1,865,695            | 17                                   | 4.93                                        | 30.74%                                |
| 1980 | 1,223                    | 2,236,500            | 18                                   | 5.00                                        | 35.84%                                |
| 1981 | 1,414                    | 2,510,329            | 11                                   | 4.86                                        | 37.63%                                |
| 1982 | 1,585                    | 2,878,602            | 15                                   | 4.97                                        | 41.89%                                |
| 1983 | 1,672                    | 3,417,977            | 18                                   | 5.60                                        | 53.52%                                |
| 1984 | 1,707                    | 2,974,420            | 36                                   | 4.76                                        | 45.97%                                |
| 1985 | 1,716                    | 2,947,347            | 36                                   | 4.71                                        | 42.45%                                |
| 1986 | 1,637                    | 2,617,159            | 45                                   | 4.38                                        | 36.87%                                |
| 1987 | 1,589                    | 2,687,697            | 39                                   | 4.63                                        | 44.13%                                |
| 1988 | 1,505                    | 2,446,275            | 30                                   | 4.44                                        | 40.92%                                |
| 1989 | 1,247                    | 2,110,732            | 43                                   | 4.64                                        | 33.87%                                |
| 1990 | 1,269                    | 2,011,219            | 60                                   | 4.34                                        | 34.15%                                |
| 1991 | 1,190                    | 1,871,474            | 43                                   | 4.31                                        | 32.09%                                |
| 1992 | 1,209                    | 2,023,359            | 55                                   | 4.59                                        | 36.96%                                |
| 1993 | 1,274                    | 2,214,607            | 65                                   | 4.76                                        | 45.49%                                |
| 1994 | 1,185                    | 2,147,655            | 50                                   | 4.97                                        | 50.92%                                |
| 1995 | 1,114                    | 1,899,004            | 36                                   | 4.67                                        | 50.06%                                |
| 1996 | 1,004                    | 1,948,710            | 112                                  | 5.30                                        | 55.00%                                |
| 1997 | 1,699                    | 2,366,278            | 66                                   | 3.82                                        | 70.91%                                |

Source: *Marginal Oil and Gas: Fuel for Economic Growth*. Interstate Oil and Gas Compact Commission. Oklahoma City, OK.

Note: The number of wells is estimated for 1997.

## Producing Wells, Crude Oil, Nebraska, 1960-1997

(As of December 31 of Each Year)

|            |       |            |       |            |       |            |       |
|------------|-------|------------|-------|------------|-------|------------|-------|
| 1960 ..... | 1,571 | 1970 ..... | 1,244 | 1980 ..... | 1,693 | 1990 ..... | 1,742 |
| 1961 ..... | 1,860 | 1971 ..... | 1,191 | 1981 ..... | 1,870 | 1991 ..... | 1,716 |
| 1962 ..... | 1,764 | 1972 ..... | 1,143 | 1982 ..... | 2,006 | 1992 ..... | 1,660 |
| 1963 ..... | 1,726 | 1973 ..... | 1,107 | 1983 ..... | 2,100 | 1993 ..... | 1,582 |
| 1964 ..... | 1,711 | 1974 ..... | 1,127 | 1984 ..... | 2,095 | 1994 ..... | 1,489 |
| 1965 ..... | 1,611 | 1975 ..... | 1,190 | 1985 ..... | 2,091 | 1995 ..... | 1,446 |
| 1966 ..... | 1,511 | 1976 ..... | 1,291 | 1986 ..... | 1,838 | 1996 ..... | 1,402 |
| 1967 ..... | 1,430 | 1977 ..... | 1,382 | 1987 ..... | 1,852 | 1997 ..... | 1,361 |
| 1968 ..... | 1,403 | 1978 ..... | 1,469 | 1988 ..... | 1,723 |            |       |
| 1969 ..... | 1,305 | 1979 ..... | 1,551 | 1989 ..... | 1,687 |            |       |

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

## Proven Crude Oil Reserves, Nebraska, 1960-1997

(Million Barrels)

|            |     |            |    |            |    |            |    |
|------------|-----|------------|----|------------|----|------------|----|
| 1960 ..... | 86  | 1970 ..... | 41 | 1980 ..... | 46 | 1990 ..... | 26 |
| 1961 ..... | 100 | 1971 ..... | 36 | 1981 ..... | 41 | 1991 ..... | 26 |
| 1962 ..... | 94  | 1972 ..... | 31 | 1982 ..... | 32 | 1992 ..... | 26 |
| 1963 ..... | 84  | 1973 ..... | 28 | 1983 ..... | 44 | 1993 ..... | 20 |
| 1964 ..... | 71  | 1974 ..... | 27 | 1984 ..... | 46 | 1994 ..... | 22 |
| 1965 ..... | 71  | 1975 ..... | 28 | 1985 ..... | 42 | 1995 ..... | 25 |
| 1966 ..... | 57  | 1976 ..... | 31 | 1986 ..... | 45 | 1996 ..... | 28 |
| 1967 ..... | 63  | 1977 ..... | 22 | 1987 ..... | 33 | 1997 ..... | 21 |
| 1968 ..... | 55  | 1978 ..... | 30 | 1988 ..... | 42 |            |    |
| 1969 ..... | 47  | 1979 ..... | 25 | 1989 ..... | 32 |            |    |

Source: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1998 Annual Report, December 1999* Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC.

Note: Estimates for the years 1980, 1982, 1984, 1986, and 1997 are associated with sampling errors (95 percent confidence interval) greater than 20 percent of the volume estimated.

## Aviation Fuel Available for Sale, Nebraska, 1983-1997

(Thousand Gallons)

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Total  |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1983 | 1,837 | 1,559 | 1,721 | 2,466 | 2,217 | 2,167 | 2,489 | 2,614 | 3,174 | 2,508 | 2,337 | 2,833 | 27,922 |
| 1984 | 2,378 | 2,002 | 2,177 | 2,359 | 2,464 | 2,209 | 2,578 | 2,579 | 2,076 | 2,111 | 2,052 | 2,334 | 27,319 |
| 1985 | 1,742 | 1,769 | 1,976 | 1,895 | 2,412 | 2,062 | 2,266 | 2,224 | 1,952 | 2,196 | 2,152 | 2,381 | 25,027 |
| 1986 | 2,082 | 1,779 | 1,960 | 1,690 | 2,068 | 2,080 | 2,358 | 2,321 | 1,826 | 1,861 | 1,666 | 1,649 | 23,340 |
| 1987 | 1,598 | 1,510 | 1,841 | 1,661 | 1,684 | 2,020 | 2,237 | 2,319 | 2,297 | 2,109 | 1,974 | 2,122 | 23,372 |
| 1988 | 2,122 | 2,145 | 2,386 | 2,113 | 2,075 | 2,296 | 2,728 | 2,304 | 2,129 | 1,924 | 2,150 | 2,277 | 26,649 |
| 1989 | 2,216 | 1,944 | 2,531 | 2,290 | 2,469 | 2,087 | 2,595 | 2,345 | 1,748 | 2,140 | 2,208 | 2,704 | 27,277 |
| 1990 | 2,863 | 2,602 | 2,753 | 2,721 | 2,796 | 2,641 | 2,711 | 2,949 | 2,714 | 2,722 | 2,820 | 2,800 | 33,092 |
| 1991 | 2,349 | 2,203 | 2,343 | 2,192 | 2,558 | 2,458 | 3,042 | 2,584 | 2,504 | 2,668 | 1,941 | 2,414 | 29,256 |
| 1992 | 2,292 | 1,859 | 2,210 | 2,063 | 2,047 | 2,406 | 2,723 | 2,520 | 2,286 | 2,545 | 2,143 | 2,838 | 27,932 |
| 1993 | 2,329 | 2,104 | 2,695 | 2,495 | 2,332 | 2,644 | 2,398 | 2,764 | 2,315 | 2,192 | 2,155 | 2,347 | 28,770 |
| 1994 | 2,536 | 2,685 | 2,796 | 2,529 | 2,784 | 3,036 | 3,320 | 3,565 | 3,252 | 3,196 | 3,222 | 3,023 | 35,944 |
| 1995 | 2,837 | 2,741 | 2,942 | 3,993 | 3,432 | 3,189 | 3,925 | 4,157 | 3,090 | 3,720 | 3,168 | 3,221 | 40,414 |
| 1996 | 3,357 | 3,135 | 3,162 | 3,432 | 3,209 | 3,291 | 3,373 | 3,742 | 3,597 | 3,928 | 3,312 | 3,537 | 41,074 |
| 1997 | 3,615 | 3,206 | 3,469 | 3,123 | 3,069 | 3,384 | 3,581 | 3,540 | 3,441 | 3,432 | 3,087 | 3,819 | 40,765 |

Source: *Petroleum Marketing Annual*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC.

Note: Aviation fuel includes jet fuel and aviation gasoline.

## Propane Available for Sale, Nebraska, 1983-1997

(Thousand Gallons)

| Year | Jan    | Feb    | Mar    | Apr    | May   | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    | Total   |
|------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1983 | 15,456 | 13,106 | 11,911 | 10,055 | 4,933 | 4,123  | 13,116 | 10,978 | 14,385 | 10,754 | 9,151  | 22,088 | 140,056 |
| 1984 | 16,267 | 9,917  | 9,957  | 7,413  | 4,634 | 4,349  | 13,591 | 16,315 | 11,453 | 26,169 | 16,676 | 11,648 | 148,389 |
| 1985 | 15,407 | 10,899 | 8,404  | 4,680  | 2,866 | 5,620  | 14,262 | 7,776  | 10,675 | 24,331 | 21,237 | 16,206 | 142,363 |
| 1986 | 9,079  | 8,419  | 8,923  | 4,236  | 4,443 | 5,691  | 9,412  | 8,471  | 8,101  | 16,193 | 16,456 | 11,461 | 110,885 |
| 1987 | 9,020  | 6,660  | 6,492  | 5,496  | 2,325 | 7,247  | 12,992 | 7,984  | 10,250 | 18,619 | 7,720  | 12,761 | 107,566 |
| 1988 | 17,246 | 12,896 | 9,323  | 5,023  | 4,056 | 12,570 | 12,790 | 13,481 | 12,261 | 14,347 | 9,801  | 12,598 | 136,392 |
| 1989 | 12,400 | 14,628 | 10,165 | 4,808  | 4,332 | 5,779  | 12,156 | 14,682 | 9,579  | 12,438 | 8,703  | 18,621 | 128,291 |
| 1990 | 7,923  | 10,120 | 7,535  | 4,099  | 4,354 | 4,029  | 15,433 | 11,404 | 9,236  | 11,253 | 8,221  | 13,699 | 107,306 |
| 1991 | 14,681 | 7,176  | 5,687  | 3,494  | 2,395 | 6,965  | 18,916 | 12,523 | 11,107 | 6,968  | 9,339  | 9,681  | 108,932 |
| 1992 | 9,965  | 7,098  | 5,507  | 3,981  | 3,193 | 3,887  | 6,332  | 6,729  | 7,191  | 13,504 | 20,818 | 16,441 | 104,646 |
| 1993 | 12,043 | 11,646 | 8,743  | 4,774  | 2,340 | 2,607  | 2,868  | 7,329  | 8,180  | 13,704 | 13,281 | 9,980  | 97,495  |
| 1994 | 20,076 | 17,430 | 9,781  | 5,469  | 4,638 | 8,637  | 7,263  | 11,486 | 12,957 | 17,974 | 10,128 | 14,753 | 140,590 |
| 1995 | 17,112 | 12,894 | 10,432 | 6,477  | 4,439 | 5,778  | 18,944 | 18,501 | 13,221 | 14,071 | 12,324 | 15,041 | 149,234 |
| 1996 | 21,576 | 16,234 | 11,768 | 6,720  | 3,717 | 4,959  | 18,829 | 9,777  | 12,495 | 26,455 | 18,645 | 18,374 | 169,550 |
| 1997 | 22,996 | 14,445 | 10,472 | 7,146  | 5,555 | 5,022  | 19,710 | 12,719 | 11,745 | 16,331 | 15,207 | 17,053 | 158,401 |

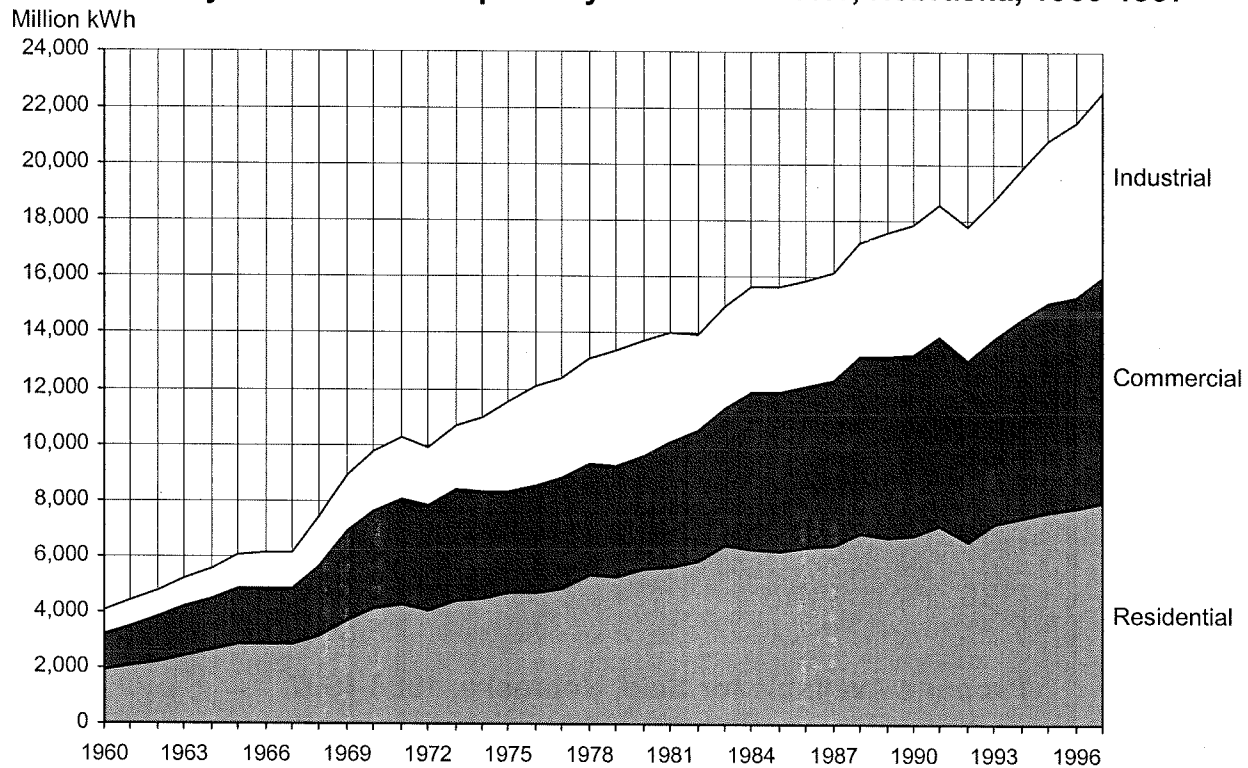
Source: *Petroleum Marketing Annual*. Energy Information Administration, Office of Oil and Gas, U.S. Department of Energy, Washington, DC.

Note: Propane is consumer grade.

# Electricity

Electricity use in Nebraska increased to 22,582 million kilowatt-hours in 1997, a 5.0% increase from 1996. Electricity use has steadily increased since 1992. Electricity use increased 3.2% in the residential sector, increased 6.0% in the commercial sector and increased 6.2% in the industrial sector.

**Electricity Annual Consumption by End-Use Sector, Nebraska, 1960-1997**



| Year | Residential | Commercial | Industrial | Total  |
|------|-------------|------------|------------|--------|
| 1960 | 1,907       | 1,269      | 889        | 4,065  |
| 1961 | 2,082       | 1,409      | 937        | 4,427  |
| 1962 | 2,221       | 1,589      | 979        | 4,790  |
| 1963 | 2,442       | 1,740      | 1,039      | 5,221  |
| 1964 | 2,607       | 1,870      | 1,094      | 5,571  |
| 1965 | 2,816       | 2,025      | 1,182      | 6,022  |
| 1966 | 2,850       | 1,996      | 1,252      | 6,098  |
| 1967 | 2,816       | 2,036      | 1,250      | 6,102  |
| 1968 | 3,099       | 2,549      | 1,743      | 7,391  |
| 1969 | 3,682       | 3,229      | 2,005      | 8,915  |
| 1970 | 4,107       | 3,505      | 2,145      | 9,757  |
| 1971 | 4,308       | 3,770      | 2,193      | 10,272 |
| 1972 | 4,081       | 3,746      | 2,102      | 9,929  |
| 1973 | 4,436       | 3,957      | 2,310      | 10,703 |
| 1974 | 4,512       | 3,833      | 2,606      | 10,951 |
| 1975 | 4,693       | 3,660      | 3,200      | 11,553 |
| 1976 | 4,722       | 3,817      | 3,542      | 12,081 |
| 1977 | 4,859       | 3,957      | 3,599      | 12,415 |
| 1978 | 5,347       | 3,964      | 3,784      | 13,095 |
| 1979 | 5,263       | 4,014      | 4,079      | 13,356 |

| Year | Residential | Commercial | Industrial | Total  |
|------|-------------|------------|------------|--------|
| 1980 | 5,521       | 4,068      | 4,155      | 13,744 |
| 1981 | 5,601       | 4,524      | 3,881      | 14,006 |
| 1982 | 5,845       | 4,665      | 3,462      | 13,972 |
| 1983 | 6,438       | 4,886      | 3,665      | 14,989 |
| 1984 | 6,268       | 5,643      | 3,725      | 15,636 |
| 1985 | 6,195       | 5,714      | 3,794      | 15,702 |
| 1986 | 6,325       | 5,798      | 3,757      | 15,880 |
| 1987 | 6,378       | 5,956      | 3,851      | 16,185 |
| 1988 | 6,813       | 6,342      | 4,104      | 17,259 |
| 1989 | 6,723       | 6,473      | 4,370      | 17,567 |
| 1990 | 6,800       | 6,451      | 4,618      | 17,868 |
| 1991 | 7,138       | 6,777      | 4,690      | 18,605 |
| 1992 | 6,561       | 6,470      | 4,752      | 17,784 |
| 1993 | 7,226       | 6,560      | 4,963      | 18,749 |
| 1994 | 7,379       | 7,149      | 5,345      | 19,873 |
| 1995 | 7,597       | 7,494      | 5,802      | 20,892 |
| 1996 | 7,741       | 7,563      | 6,193      | 21,497 |
| 1997 | 7,989       | 8,014      | 6,580      | 22,582 |

Sources: State Energy Data Report 1997, Consumption Estimates, September 1999. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.



# Electricity Monthly Consumption by End-Use Sector, Nebraska, 1988-1997

(Million kWh)

| Sector                | Year  | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec    | Total |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| All Consumers         |       |       |       |       |       |       |       |       |       |       |       |       |        |       |
| 1988                  | 1,512 | 1,399 | 1,358 | 1,233 | 1,265 | 1,562 | 1,774 | 1,884 | 1,508 | 1,294 | 1,260 | 1,449 | 17,498 |       |
| 1989                  | 1,431 | 1,441 | 1,426 | 1,312 | 1,314 | 1,413 | 1,801 | 1,758 | 1,439 | 1,319 | 1,340 | 1,551 | 17,545 |       |
| 1990                  | 1,519 | 1,362 | 1,342 | 1,290 | 1,259 | 1,548 | 1,825 | 1,820 | 1,688 | 1,367 | 1,352 | 1,520 | 17,892 |       |
| 1991                  | 1,670 | 1,382 | 1,363 | 1,291 | 1,399 | 1,663 | 1,947 | 1,890 | 1,681 | 1,391 | 1,459 | 1,503 | 18,639 |       |
| 1992                  | 1,557 | 1,431 | 1,353 | 1,341 | 1,339 | 1,422 | 1,607 | 1,624 | 1,578 | 1,372 | 1,497 | 1,717 | 17,838 |       |
| 1993                  | 1,655 | 1,541 | 1,558 | 1,421 | 1,352 | 1,515 | 1,752 | 1,895 | 1,595 | 1,433 | 1,485 | 1,667 | 18,869 |       |
| 1994                  | 1,754 | 1,610 | 1,525 | 1,404 | 1,509 | 1,787 | 1,867 | 1,917 | 1,838 | 1,537 | 1,485 | 1,663 | 19,896 |       |
| 1995                  | 1,756 | 1,563 | 1,596 | 1,457 | 1,474 | 1,703 | 2,089 | 2,350 | 1,977 | 1,576 | 1,615 | 1,738 | 20,894 |       |
| 1996                  | 1,890 | 1,769 | 1,700 | 1,589 | 1,588 | 1,850 | 2,103 | 2,066 | 1,851 | 1,635 | 1,721 | 1,904 | 21,666 |       |
| 1997                  | 2,016 | 1,789 | 1,696 | 1,654 | 1,588 | 1,888 | 2,309 | 2,222 | 2,100 | 1,811 | 1,744 | 1,915 | 22,732 |       |
| Commercial Consumers  |       |       |       |       |       |       |       |       |       |       |       |       |        |       |
| 1988                  | 539   | 494   | 489   | 469   | 476   | 582   | 619   | 634   | 567   | 505   | 476   | 536   | 6,386  |       |
| 1989                  | 516   | 517   | 514   | 495   | 504   | 556   | 652   | 635   | 542   | 520   | 520   | 574   | 6,545  |       |
| 1990                  | 520   | 470   | 468   | 462   | 461   | 603   | 669   | 691   | 575   | 495   | 490   | 550   | 6,454  |       |
| 1991                  | 554   | 476   | 486   | 461   | 520   | 629   | 732   | 724   | 615   | 510   | 532   | 544   | 6,783  |       |
| 1992                  | 526   | 502   | 485   | 485   | 517   | 551   | 610   | 616   | 646   | 522   | 553   | 623   | 6,636  |       |
| 1993                  | 564   | 525   | 530   | 501   | 494   | 558   | 619   | 658   | 617   | 538   | 522   | 574   | 6,700  |       |
| 1994                  | 496   | 451   | 433   | 416   | 472   | 542   | 535   | 548   | 497   | 465   | 447   | 482   | 5,784  |       |
| 1995                  | 497   | 443   | 463   | 433   | 432   | 525   | 596   | 663   | 455   | 484   | 475   | 493   | 5,959  |       |
| 1996                  | 530   | 494   | 488   | 463   | 473   | 561   | 579   | 589   | 498   | 504   | 512   | 542   | 6,233  |       |
| 1997                  | 557   | 509   | 484   | 486   | 483   | 578   | 648   | 622   | 535   | 539   | 515   | 536   | 6,492  |       |
| Industrial Consumers  |       |       |       |       |       |       |       |       |       |       |       |       |        |       |
| 1988                  | 309   | 316   | 329   | 319   | 370   | 382   | 359   | 398   | 348   | 348   | 340   | 336   | 4,154  |       |
| 1989                  | 314   | 333   | 330   | 341   | 373   | 376   | 386   | 391   | 348   | 368   | 362   | 348   | 4,270  |       |
| 1990                  | 310   | 317   | 332   | 331   | 343   | 392   | 368   | 414   | 359   | 364   | 349   | 336   | 4,215  |       |
| 1991                  | 338   | 319   | 309   | 342   | 376   | 381   | 378   | 398   | 372   | 375   | 349   | 322   | 4,259  |       |
| 1992                  | 344   | 335   | 338   | 343   | 362   | 390   | 371   | 396   | 384   | 380   | 380   | 372   | 4,395  |       |
| 1993                  | 389   | 387   | 399   | 390   | 409   | 451   | 435   | 483   | 425   | 438   | 433   | 411   | 5,050  |       |
| 1994                  | 412   | 401   | 411   | 405   | 450   | 482   | 449   | 502   | 471   | 460   | 449   | 425   | 5,317  |       |
| 1995                  | 436   | 421   | 444   | 430   | 475   | 531   | 517   | 551   | 467   | 493   | 492   | 465   | 5,722  |       |
| 1996                  | 494   | 474   | 486   | 489   | 521   | 573   | 552   | 577   | 516   | 541   | 542   | 524   | 6,289  |       |
| 1997                  | 525   | 495   | 519   | 515   | 527   | 616   | 591   | 578   | 581   | 596   | 565   | 569   | 6,677  |       |
| Other Consumers       |       |       |       |       |       |       |       |       |       |       |       |       |        |       |
| 1990                  | 87    |       |       |       |       |       |       |       |       |       |       |       |        | 87    |
| 1991                  | 95    |       |       |       |       |       |       |       |       | 88    |       | 88    | 118    | 389   |
| 1992                  | 93    | 88    | 86    | 85    | 92    | 92    | 116   | 119   | 179   | 92    | 91    | 112   | 1,245  |       |
| 1993                  | 96    | 89    | 91    | 98    | 77    | 89    | 98    | 125   | 201   | 112   | 90    | 102   | 1,268  |       |
| 1994                  | 91    | 84    | 94    | 80    | 88    | 104   | 123   | 148   | 236   | 100   | 86    | 99    | 1,333  |       |
| 1995                  | 95    | 88    | 86    | 84    | 84    | 87    | 171   | 193   | 332   | 96    | 89    | 95    | 1,500  |       |
| 1996                  | 96    | 95    | 93    | 91    | 93    | 99    | 167   | 144   | 229   | 90    | 90    | 96    | 1,383  |       |
| 1997                  | 102   | 91    | 89    | 94    | 87    | 108   | 207   | 170   | 309   | 114   | 90    | 97    | 1,558  |       |
| Residential Consumers |       |       |       |       |       |       |       |       |       |       |       |       |        |       |
| 1988                  | 665   | 589   | 541   | 445   | 419   | 599   | 797   | 852   | 593   | 441   | 444   | 578   | 6,963  |       |
| 1989                  | 601   | 591   | 583   | 476   | 438   | 481   | 763   | 732   | 549   | 431   | 459   | 629   | 6,733  |       |
| 1990                  | 690   | 574   | 542   | 502   | 455   | 554   | 787   | 714   | 753   | 508   | 513   | 633   | 7,225  |       |
| 1991                  | 778   | 587   | 568   | 487   | 504   | 652   | 837   | 768   | 695   | 510   | 577   | 637   | 7,600  |       |
| 1992                  | 687   | 594   | 530   | 514   | 461   | 481   | 626   | 613   | 547   | 470   | 564   | 721   | 6,808  |       |
| 1993                  | 702   | 629   | 628   | 530   | 449   | 506   | 699   | 754   | 552   | 456   | 530   | 681   | 7,116  |       |
| 1994                  | 754   | 675   | 587   | 503   | 499   | 659   | 760   | 719   | 635   | 512   | 504   | 657   | 7,464  |       |
| 1995                  | 728   | 610   | 603   | 509   | 483   | 560   | 806   | 944   | 723   | 503   | 559   | 685   | 7,713  |       |
| 1996                  | 770   | 705   | 633   | 545   | 501   | 618   | 805   | 755   | 606   | 501   | 578   | 742   | 7,759  |       |
| 1997                  | 833   | 693   | 604   | 559   | 491   | 586   | 863   | 851   | 675   | 562   | 573   | 713   | 8,003  |       |

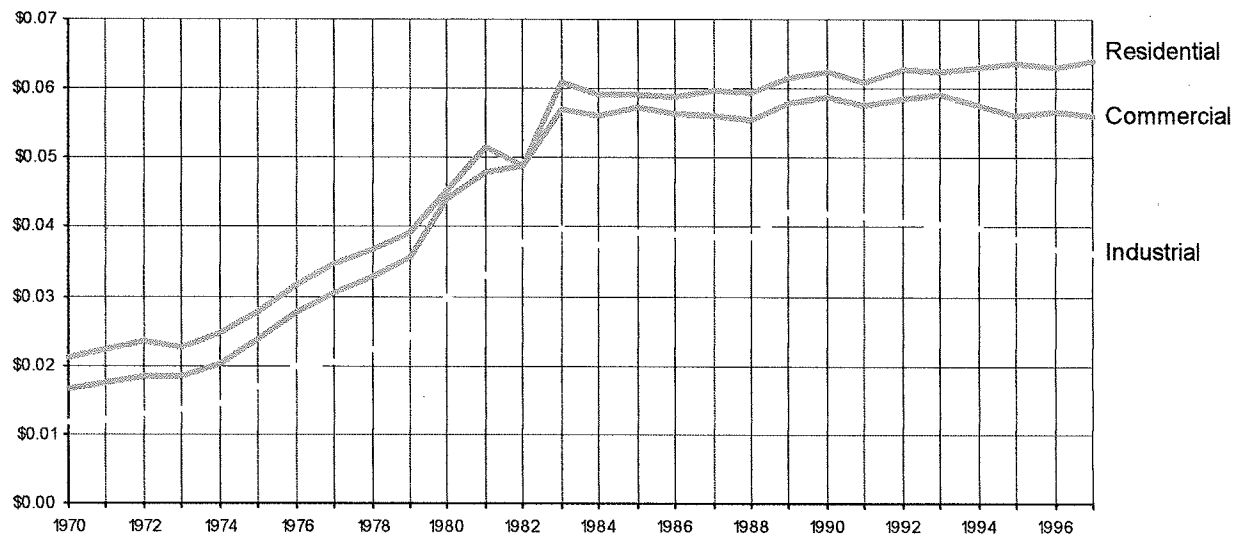
Source: *Electric Power Monthly*. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy, Washington, DC.

Notes: The numbers in this table are preliminary and may not be equivalent to the final numbers listed in the table on page 48. Other consumers include public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales. Blanks indicate no data available.

## Electricity Prices by End-Use Sector, Nebraska, 1970-1997

Prices for electricity increased 1.5% in the residential sector in 1997, decreased 1.1% in the commercial sector and decreased 1.8% in the industrial sector.

Cents per kWh



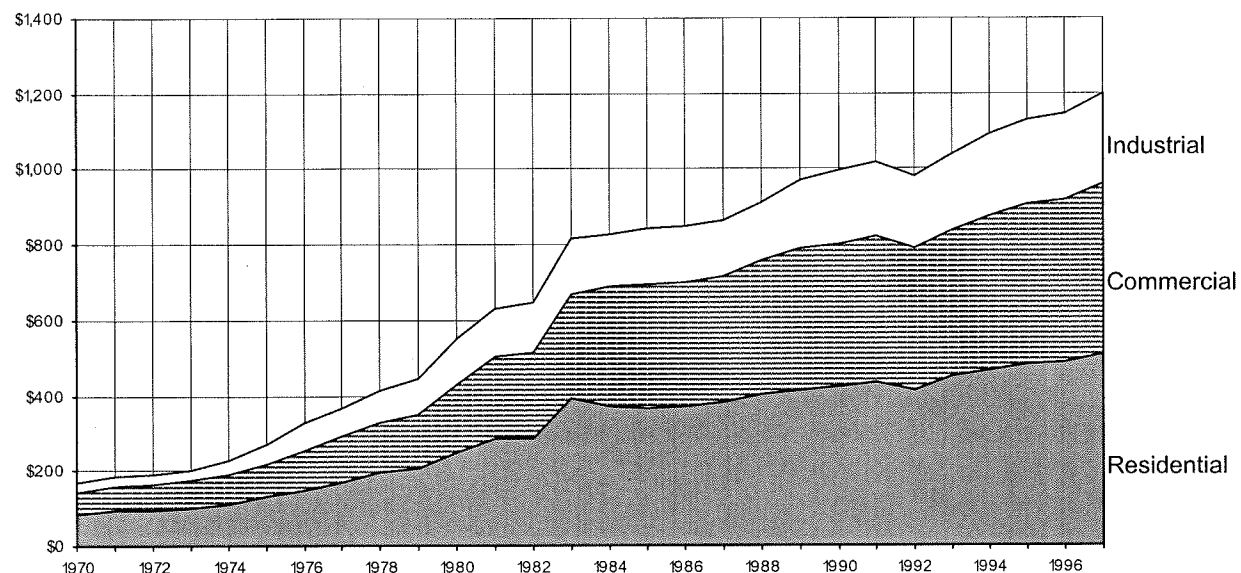
| Year | Residential | Commercial | Industrial | Average  |
|------|-------------|------------|------------|----------|
| 1970 | \$0.0212    | \$0.0166   | \$0.0117   | \$0.0165 |
| 1971 | \$0.0223    | \$0.0174   | \$0.0122   | \$0.0173 |
| 1972 | \$0.0236    | \$0.0184   | \$0.0128   | \$0.0183 |
| 1973 | \$0.0225    | \$0.0184   | \$0.0135   | \$0.0181 |
| 1974 | \$0.0247    | \$0.0203   | \$0.0143   | \$0.0198 |
| 1975 | \$0.0278    | \$0.0238   | \$0.0169   | \$0.0228 |
| 1976 | \$0.0318    | \$0.0279   | \$0.0199   | \$0.0265 |
| 1977 | \$0.0348    | \$0.0305   | \$0.0206   | \$0.0286 |
| 1978 | \$0.0369    | \$0.0330   | \$0.0223   | \$0.0308 |
| 1979 | \$0.0393    | \$0.0356   | \$0.0241   | \$0.0330 |
| 1980 | \$0.0452    | \$0.0439   | \$0.0298   | \$0.0396 |
| 1981 | \$0.0515    | \$0.0480   | \$0.0330   | \$0.0442 |
| 1982 | \$0.0490    | \$0.0489   | \$0.0378   | \$0.0452 |
| 1983 | \$0.0611    | \$0.0569   | \$0.0400   | \$0.0526 |
| 1984 | \$0.0592    | \$0.0562   | \$0.0374   | \$0.0509 |
| 1985 | \$0.0591    | \$0.0573   | \$0.0392   | \$0.0519 |
| 1986 | \$0.0590    | \$0.0565   | \$0.0390   | \$0.0515 |
| 1987 | \$0.0598    | \$0.0561   | \$0.0387   | \$0.0516 |
| 1988 | \$0.0595    | \$0.0554   | \$0.0385   | \$0.0511 |
| 1989 | \$0.0616    | \$0.0578   | \$0.0421   | \$0.0539 |
| 1990 | \$0.0623    | \$0.0588   | \$0.0419   | \$0.0543 |
| 1991 | \$0.0610    | \$0.0575   | \$0.0416   | \$0.0534 |
| 1992 | \$0.0628    | \$0.0586   | \$0.0407   | \$0.0540 |
| 1993 | \$0.0626    | \$0.0590   | \$0.0404   | \$0.0540 |
| 1994 | \$0.0631    | \$0.0577   | \$0.0399   | \$0.0536 |
| 1995 | \$0.0638    | \$0.0562   | \$0.0385   | \$0.0528 |
| 1996 | \$0.0630    | \$0.0567   | \$0.0368   | \$0.0522 |
| 1997 | \$0.0639    | \$0.0560   | \$0.0362   | \$0.0520 |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

## Electricity Expenditures by End-Use Sector, Nebraska, 1970-1997

Expenditures for electricity increased to \$1,196.33 million (\$1.2 billion) in 1997, 4.7% more than the \$1,143.08 million (\$1.1 billion) spent on electricity in 1996.

Million Nominal Dollars



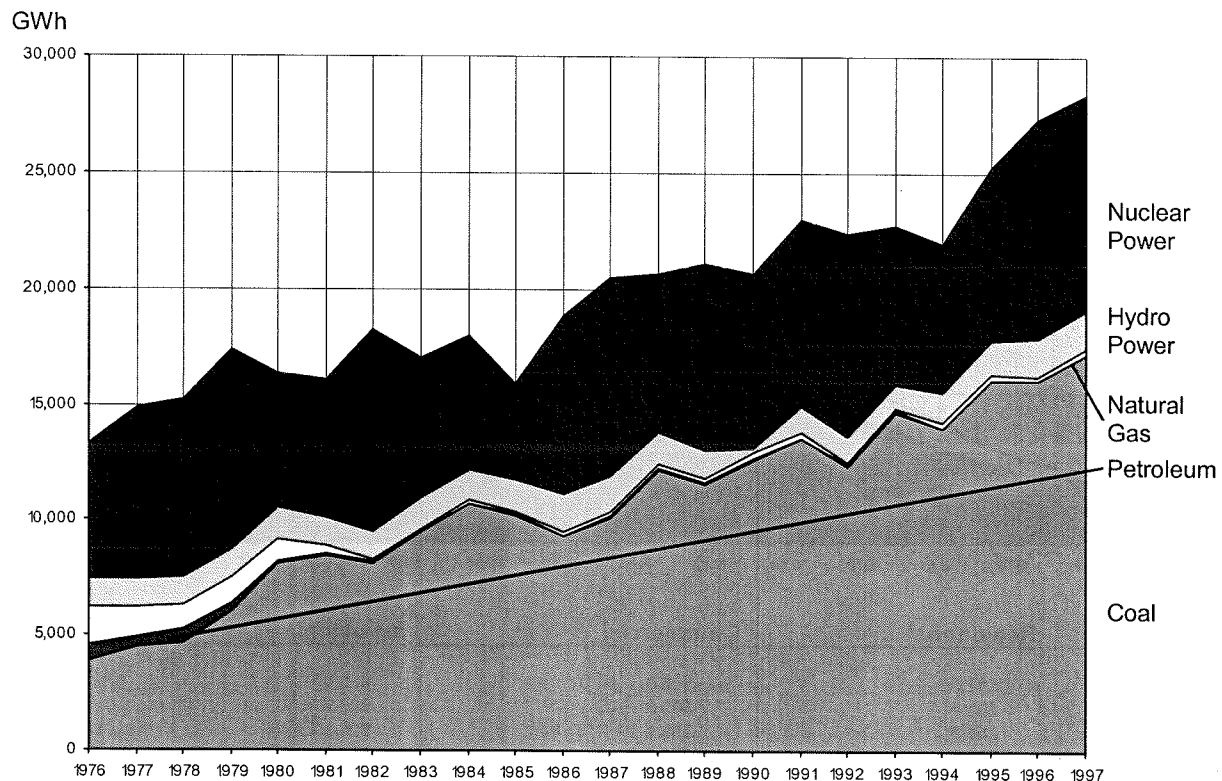
| Year | Residential | Commercial | Industrial | Total     |
|------|-------------|------------|------------|-----------|
| 1970 | \$87.0      | \$58.3     | \$25.0     | \$170.3   |
| 1971 | \$95.9      | \$65.3     | \$26.7     | \$187.9   |
| 1972 | \$96.3      | \$68.7     | \$26.8     | \$191.9   |
| 1973 | \$99.9      | \$72.8     | \$31.0     | \$203.7   |
| 1974 | \$111.2     | \$77.6     | \$37.2     | \$226.0   |
| 1975 | \$130.3     | \$86.9     | \$54.0     | \$271.2   |
| 1976 | \$150.1     | \$106.3    | \$70.2     | \$326.6   |
| 1977 | \$169.1     | \$120.6    | \$73.7     | \$363.4   |
| 1978 | \$197.1     | \$130.7    | \$84.2     | \$412.0   |
| 1979 | \$206.8     | \$142.9    | \$98.0     | \$447.6   |
| 1980 | \$249.1     | \$178.5    | \$123.0    | \$550.6   |
| 1981 | \$288.0     | \$217.0    | \$123.9    | \$628.9   |
| 1982 | \$286.0     | \$227.9    | \$130.7    | \$644.5   |
| 1983 | \$392.7     | \$277.7    | \$146.4    | \$816.8   |
| 1984 | \$371.0     | \$316.6    | \$139.3    | \$826.9   |
| 1985 | \$365.5     | \$327.2    | \$148.5    | \$841.2   |
| 1986 | \$372.6     | \$327.3    | \$146.4    | \$846.3   |
| 1987 | \$381.4     | \$333.8    | \$149.0    | \$864.2   |
| 1988 | \$405.0     | \$351.0    | \$158.0    | \$914.0   |
| 1989 | \$414.0     | \$374.0    | \$184.0    | \$972.0   |
| 1990 | \$423.4     | \$378.7    | \$193.5    | \$995.7   |
| 1991 | \$435.0     | \$389.5    | \$194.7    | \$1,019.1 |
| 1992 | \$411.4     | \$378.6    | \$193.2    | \$983.2   |
| 1993 | \$451.6     | \$386.8    | \$200.4    | \$1,038.7 |
| 1994 | \$465.4     | \$411.8    | \$213.3    | \$1,090.5 |
| 1995 | \$484.1     | \$420.9    | \$222.9    | \$1,127.9 |
| 1996 | \$487.0     | \$428.4    | \$227.7    | \$1,143.1 |
| 1997 | \$510.0     | \$448.7    | \$237.7    | \$1,196.3 |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

## Electricity Annual Generation by Fuel Type, Nebraska, 1976-1997

Electricity generation increased 3.9% in 1997 to 28,388 gigawatt-hours. Of the power generated, coal accounted for 60.6%, nuclear power 32.7%, hydroelectric power 5.9% and natural gas, petroleum and renewable .0035%. Nebraska remained a net exporter of electricity.

In 1997, generation of electricity by coal increased 7.3% from 1996, generation by hydroelectric power increased 4.4%, and generation by nuclear power decreased 2.0%.



| Year | Coal   | Petroleum | Natural Gas | Hydro Power | Nuclear Power | Renewable | Total  |
|------|--------|-----------|-------------|-------------|---------------|-----------|--------|
| 1976 | 3,919  | 673       | 1,599       | 1,276       | 5,824         | 0         | 13,291 |
| 1977 | 4,493  | 446       | 1,255       | 1,221       | 7,452         | 0         | 14,867 |
| 1978 | 4,664  | 642       | 994         | 1,187       | 7,725         | 0         | 15,212 |
| 1979 | 6,027  | 398       | 1,088       | 1,246       | 8,658         | 0         | 17,417 |
| 1980 | 8,122  | 127       | 945         | 1,336       | 5,783         | 0         | 16,313 |
| 1981 | 8,482  | 47        | 351         | 1,197       | 5,988         | 0         | 16,065 |
| 1982 | 8,121  | 65        | 121         | 1,213       | 8,751         | 0         | 18,271 |
| 1983 | 9,471  | 40        | 114         | 1,346       | 6,084         | 0         | 17,055 |
| 1984 | 10,715 | 19        | 118         | 1,331       | 5,781         | 0         | 17,964 |
| 1985 | 10,232 | 25        | 103         | 1,441       | 4,135         | 0         | 15,936 |
| 1986 | 9,319  | 56        | 131         | 1,679       | 7,658         | 0         | 18,843 |
| 1987 | 10,152 | 47        | 135         | 1,568       | 8,589         | 0         | 20,491 |
| 1988 | 12,225 | 71        | 162         | 1,351       | 6,828         | 0         | 20,637 |
| 1989 | 11,581 | 56        | 225         | 1,158       | 8,075         | 0         | 21,095 |
| 1990 | 12,659 | 13        | 307         | 140         | 7,511         | 0         | 20,630 |
| 1991 | 13,561 | 12        | 300         | 1,046       | 8,049         | 0         | 22,968 |
| 1992 | 12,402 | 9         | 145         | 1,075       | 8,748         | 6         | 22,385 |
| 1993 | 14,740 | 19        | 153         | 1,002       | 6,805         | 6         | 22,725 |
| 1994 | 14,002 | 18        | 259         | 1,312       | 6,345         | 9         | 21,945 |
| 1995 | 16,080 | 27        | 245         | 1,426       | 7,485         | 16        | 25,279 |
| 1996 | 16,041 | 20        | 192         | 1,602       | 9,457         | 12        | 27,324 |
| 1997 | 17,209 | 31        | 206         | 1,672       | 9,269         | 1         | 28,388 |

Sources: *Electric Power Annual*. Energy Information Administration, U.S. Department of Energy. Washington, DC. Nebraska Energy Office.

Notes: Petroleum includes petroleum coke. Renewable includes geothermal, biomass, wind, solar thermal and photovoltaic (excludes hydroelectric).

# Electricity Monthly Generation by Fuel Type, Nebraska, 1988-1997

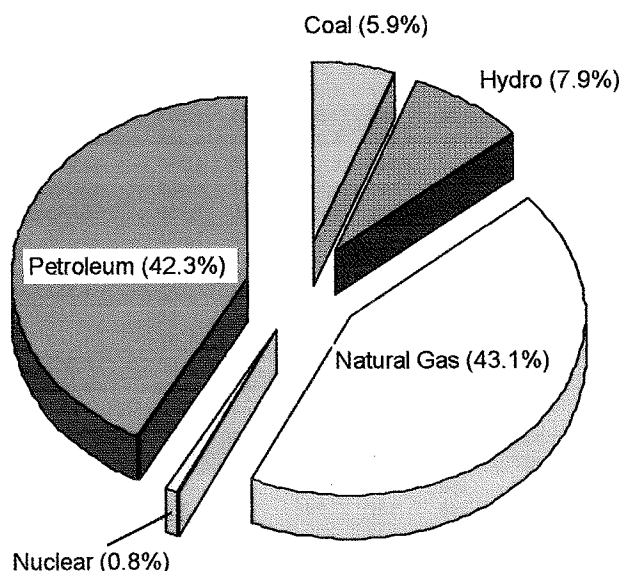
(GWh)

| Fuel Type            | Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Annual Generation |
|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| <b>Coal</b>          |      |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|                      | 1988 | 1,081 | 848   | 1,024 | 792   | 757   | 1,152 | 1,190 | 1,291 | 823   | 1,001 | 980   | 1,286 | 12,225            |
|                      | 1989 | 1,046 | 830   | 718   | 724   | 1,004 | 1,087 | 1,070 | 1,109 | 830   | 899   | 951   | 1,313 | 11,581            |
|                      | 1990 | 1,205 | 1,083 | 1,320 | 1,136 | 933   | 1,071 | 1,286 | 1,216 | 837   | 607   | 893   | 1,072 | 12,659            |
|                      | 1991 | 1,175 | 1,144 | 1,292 | 828   | 970   | 1,139 | 1,371 | 1,291 | 1,067 | 1,026 | 1,055 | 1,203 | 13,561            |
|                      | 1992 | 1,219 | 1,162 | 1,095 | 974   | 967   | 843   | 1,177 | 1,174 | 886   | 800   | 803   | 1,303 | 12,403            |
|                      | 1993 | 1,343 | 1,232 | 1,404 | 1,203 | 1,023 | 1,168 | 1,217 | 1,137 | 1,120 | 1,320 | 1,188 | 1,385 | 14,740            |
|                      | 1994 | 1,359 | 1,340 | 1,157 | 635   | 851   | 1,262 | 1,364 | 1,404 | 1,147 | 1,172 | 967   | 1,344 | 14,002            |
|                      | 1995 | 1,396 | 1,299 | 1,414 | 1,351 | 1,145 | 1,164 | 1,464 | 1,618 | 1,091 | 1,343 | 1,297 | 1,498 | 16,080            |
|                      | 1996 | 1,494 | 1,364 | 1,390 | 807   | 971   | 1,485 | 1,546 | 1,372 | 1,396 | 1,445 | 1,635 | 1,136 | 16,041            |
|                      | 1997 | 1,659 | 1,396 | 1,426 | 1,478 | 1,482 | 1,465 | 1,665 | 1,532 | 1,230 | 1,140 | 1,268 | 1,433 | 17,174            |
| <b>Hydro Power</b>   |      |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|                      | 1988 | 87    | 87    | 117   | 134   | 143   | 135   | 146   | 125   | 123   | 119   | 68    | 67    | 1,351             |
|                      | 1989 | 80    | 74    | 77    | 96    | 115   | 122   | 138   | 133   | 102   | 104   | 55    | 62    | 1,158             |
|                      | 1990 | 65    | 62    | 83    | 129   | 116   | 111   | 136   | 124   | 106   | 97    | 54    | 57    | 1,140             |
|                      | 1991 | 73    | 60    | 65    | 88    | 97    | 103   | 133   | 127   | 103   | 93    | 47    | 57    | 1,046             |
|                      | 1992 | 71    | 74    | 96    | 95    | 102   | 110   | 123   | 120   | 91    | 80    | 51    | 62    | 1,075             |
|                      | 1993 | 69    | 73    | 83    | 64    | 82    | 84    | 76    | 73    | 95    | 105   | 104   | 94    | 1,002             |
|                      | 1994 | 92    | 86    | 101   | 89    | 122   | 121   | 139   | 129   | 101   | 112   | 105   | 114   | 1,311             |
|                      | 1995 | 78    | 71    | 85    | 81    | 98    | 148   | 161   | 152   | 145   | 152   | 146   | 109   | 1,426             |
|                      | 1996 | 96    | 105   | 132   | 142   | 135   | 149   | 72    | 150   | 145   | 140   | 141   | 113   | 1,520             |
|                      | 1997 | 118   | 104   | 146   | 143   | 151   | 148   | 149   | 146   | 147   | 141   | 145   | 134   | 1,672             |
| <b>Natural Gas</b>   |      |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|                      | 1988 | 7     | 3     | 6     | 4     | 8     | 50    | 20    | 13    | 13    | 12    | 21    | 5     | 162               |
|                      | 1989 | 4     | 21    | 15    | 36    | 8     | 10    | 33    | 16    | 13    | 24    | 39    | 6     | 225               |
|                      | 1990 | 4     | 3     | 15    | 26    | 30    | 18    | 11    | 27    | 52    | 49    | 35    | 37    | 307               |
|                      | 1991 | 27    | 5     | 3     | 44    | 43    | 16    | 16    | 11    | 27    | 41    | 47    | 20    | 300               |
|                      | 1992 | 6     | 5     | 17    | 16    | 8     | 11    | 13    | 7     | 21    | 15    | 15    | 11    | 145               |
|                      | 1993 | 8     | 4     | 9     | 11    | 11    | 10    | 38    | 31    | 7     | 11    | 5     | 8     | 153               |
|                      | 1994 | 8     | 4     | 18    | 48    | 34    | 63    | 19    | 13    | 13    | 14    | 12    | 12    | 258               |
|                      | 1995 | 7     | 5     | 15    | 11    | 10    | 17    | 39    | 62    | 17    | 20    | 21    | 21    | 245               |
|                      | 1996 |       |       | 11    | 16    | 25    | 38    | 28    | 17    | 14    | 11    | 8     | 7     | 175               |
|                      | 1997 | 2     | 6     | 5     | 13    | 8     | 18    | 68    | 26    | 21    | 29    | 7     | 3     | 206               |
| <b>Nuclear Power</b> |      |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|                      | 1988 | 818   | 592   | 307   | 334   | 354   | 480   | 808   | 776   | 674   | 568   | 554   | 563   | 6,828             |
|                      | 1989 | 441   | 607   | 885   | 420   | 172   | 516   | 886   | 896   | 717   | 873   | 775   | 887   | 8,075             |
|                      | 1990 | 909   | 652   | 26    | -2    | 419   | 785   | 897   | 825   | 815   | 594   | 857   | 734   | 7,511             |
|                      | 1991 | 815   | 784   | 695   | 769   | 777   | 814   | 867   | 793   | 549   | 277   | 351   | 558   | 8,049             |
|                      | 1992 | 880   | 411   | 570   | 433   | 818   | 865   | 643   | 702   | 699   | 905   | 900   | 923   | 8,749             |
|                      | 1993 | 919   | 796   | 390   | 198   | 312   | 279   | 350   | 858   | 802   | 568   | 567   | 766   | 6,805             |
|                      | 1994 | 908   | 785   | 530   | 895   | 800   | 339   | 349   | 341   | 339   | 348   | 362   | 362   | 6,345             |
|                      | 1995 | 362   | 306   | 565   | 698   | 791   | 883   | 900   | 853   | 845   | 561   | 351   | 372   | 7,487             |
|                      | 1996 | 857   | 872   | 772   | 849   | 905   | 498   | 908   | 911   | 838   | 584   | 553   | 911   | 9,458             |
|                      | 1997 | 917   | 839   | 849   | 243   | 310   | 868   | 866   | 830   | 797   | 925   | 895   | 931   | 9,270             |
| <b>Petroleum</b>     |      |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|                      | 1988 | 1     | 6     | 1     | 13    | 34    | 3     | 1     | 3     | 2     | 1     | 1     | 5     | 71                |
|                      | 1989 | 0     | 12    | 28    | 0     | 1     | 1     | 2     | 1     | 1     | 1     | 1     | 8     | 56                |
|                      | 1990 | 1     | 1     | 0     | 0     | 1     | 2     | 1     | 2     | 2     | 1     | 0     | 2     | 13                |
|                      | 1991 | 0     | 0     | 0     | 0     | 2     | 2     | 1     | 1     | 3     | 2     | 0     | 1     | 12                |
|                      | 1992 | 1     | 1     | 0     | 0     | 1     | 1     | 1     | 1     | 0     | 1     | 2     | 1     | 10                |
|                      | 1993 | 2     | 1     | 1     | 2     | 2     | 1     | 6     | 1     | 1     | 0     | 0     | 1     | 18                |
|                      | 1994 | 5     | 2     | 1     | 1     | 2     | 3     | 1     | 1     | 1     |       | 1     | 1     | 19                |
|                      | 1995 | 1     | 1     | 1     | 4     | 3     | 2     | 5     | 5     | 1     | 1     | 2     | 1     | 27                |
|                      | 1996 |       | 1     |       |       | 3     |       | 2     |       | 1     | 1     | 3     | 2     | 13                |
|                      | 1997 | 2     | 1     | 2     | 2     | 3     |       |       |       | 3     | 4     | 3     | 3     | 23                |
| <b>Renewable</b>     |      |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|                      | 1990 |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|                      | 1991 |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|                      | 1992 |       |       |       |       |       |       |       |       | 1     | 2     | 2     | 2     | 7                 |
|                      | 1993 |       |       |       |       |       | 2     | 1     | 1     | 1     |       |       |       | 5                 |
|                      | 1994 |       | 1     |       |       | 2     | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 11                |
|                      | 1995 | 1     | 2     |       | 1     | 1     | 1     | 1     | 2     | 1     | 2     | 3     | 2     | 17                |
|                      | 1996 | 1     | 1     | 2     | 1     |       | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 12                |
|                      | 1997 | 1     |       |       |       |       |       |       |       |       |       |       |       | 1                 |

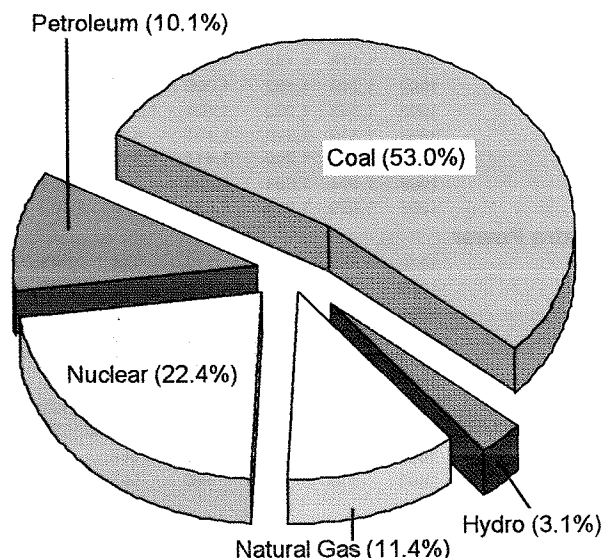
Source: *Electric Power Monthly*. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy. Washington, DC.

Notes: The numbers in this table are preliminary and may not be equivalent to the final numbers listed in the table on page 52. Renewable energy sources include geothermal, wood, wind, waste and solar. A blank indicates the value is not available, is not meaningful or is less than 0.5.

**Generating Units by Energy Source,  
Nebraska, 1997**



**Generator Nameplate Capacity by  
Energy Source, Nebraska, 1997**



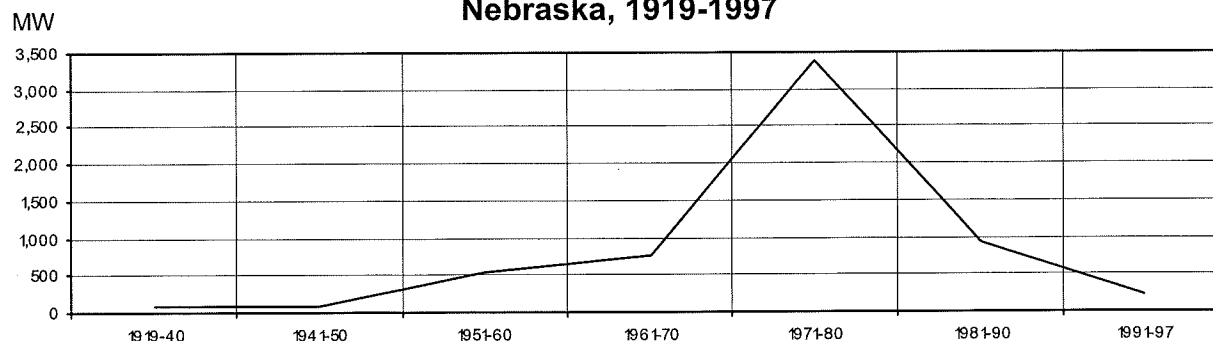
**Operable Electric Generating Capacity by Energy Source, Nebraska  
1995-1997**

| Year | State Primary<br>Energy Source | Generator Nameplate |                  | Net Summer Capability<br>(MW) | Net Winter<br>Capability (MW) |
|------|--------------------------------|---------------------|------------------|-------------------------------|-------------------------------|
|      |                                | Number<br>of Units  | Capacity<br>(MW) |                               |                               |
| 1995 | Nuclear                        | 2                   | 1,338            | 1,254                         | 1,270                         |
|      | Hydro                          | 20                  | 183              | 167                           | 167                           |
|      | Natural Gas                    | 112                 | 707              | 666                           | 708                           |
|      | Petroleum                      | 101                 | 382              | 331                           | 378                           |
|      | Coal                           | 15                  | 3,168            | 3,112                         | 3,003                         |
|      | Total                          | 250                 | 5,778            | 5,530                         | 5,526                         |
| 1996 | Nuclear                        | 2                   | 1,338            | 1,250                         | 1,266                         |
|      | Hydro                          | 20                  | 183              | 167                           | 167                           |
|      | Natural Gas                    | 108                 | 589              | 559                           | 579                           |
|      | Petroleum                      | 105                 | 604              | 544                           | 611                           |
|      | Coal                           | 15                  | 3,168            | 3,111                         | 3,002                         |
|      | Total                          | 250                 | 5,882            | 5,631                         | 5,625                         |
| 1997 | Nuclear                        | 2                   | 1,338            | 1,250                         | 1,266                         |
|      | Hydro                          | 20                  | 183              | 167                           | 167                           |
|      | Natural Gas                    | 109                 | 684              | 644                           | 659                           |
|      | Petroleum                      | 107                 | 607              | 547                           | 614                           |
|      | Coal                           | 15                  | 3,168            | 3,152                         | 3,041                         |
|      | Total                          | 253                 | 5,980            | 5,760                         | 5,747                         |

Source: *Inventory of Electric Utility Power Plants in the United States*. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy. Washington, DC.

Note: Before 1995, data is as of December 31; data for 1995 and years after 1995 are as of January 1.

## Operable Electric Generating Capacity by Unit's Year of Initial Operation Nebraska, 1919-1997



## Operable Electric Generating Capacity by Unit's Year of Initial Operation and by Energy Source of Unit, Nebraska, 1919-1997

| Period Inclusive of<br>Year of Initial Operation | Primary Energy Source | Number<br>of Units | Generator<br>Nameplate<br>(MW) | Net Summer<br>Capability<br>(MW) | Net Winter<br>Capability<br>(MW) |
|--------------------------------------------------|-----------------------|--------------------|--------------------------------|----------------------------------|----------------------------------|
| 1919-40                                          | Hydroelectric         | 11                 | 76.2                           | 73.3                             | 72.6                             |
|                                                  | Natural Gas           | 3                  | 3.4                            | 3.3                              | 3.3                              |
|                                                  | Petroleum             | 15                 | 5.8                            | 5.4                              | 5.5                              |
|                                                  | Total                 | 29                 | 85.4                           | 82.0                             | 81.4                             |
| 1941-50                                          | Hydroelectric         | 5                  | 55.0                           | 54.0                             | 54.0                             |
|                                                  | Natural Gas           | 10                 | 14.3                           | 12.3                             | 12.9                             |
|                                                  | Petroleum             | 22                 | 9.6                            | 8.4                              | 8.4                              |
|                                                  | Total                 | 37                 | 78.9                           | 74.7                             | 75.3                             |
| 1951-60                                          | Coal                  | 4                  | 307.6                          | 315.6                            | 261.2                            |
|                                                  | Hydroelectric         | 2                  | 1.7                            | 1.1                              | 1.1                              |
|                                                  | Natural Gas           | 32                 | 184.7                          | 184.7                            | 185.8                            |
|                                                  | Petroleum             | 35                 | 32.1                           | 27.4                             | 27.8                             |
|                                                  | Total                 | 73                 | 526.1                          | 528.8                            | 475.9                            |
| 1961-70                                          | Coal                  | 5                  | 604.3                          | 607.2                            | 533.2                            |
|                                                  | Natural Gas           | 34                 | 127.0                          | 120.3                            | 122.2                            |
|                                                  | Petroleum             | 11                 | 19.1                           | 17.9                             | 17.9                             |
|                                                  | Total                 | 50                 | 750.4                          | 745.4                            | 673.3                            |
| 1971-80                                          | Coal                  | 3                  | 1,388.7                        | 1,368.8                          | 1,369.6                          |
|                                                  | Natural Gas           | 21                 | 291.7                          | 282.8                            | 297.2                            |
|                                                  | Petroleum             | 11                 | 361.7                          | 320.0                            | 366.9                            |
|                                                  | Uranium               | 2                  | 1,337.6                        | 1,245.0                          | 1,261.0                          |
|                                                  | Total                 | 37                 | 3,379.7                        | 3,216.6                          | 3,294.7                          |
| 1981-90                                          | Coal                  | 3                  | 867.4                          | 877.0                            | 877.0                            |
|                                                  | Hydroelectric         | 1                  | 50.0                           | 38.0                             | 38.0                             |
|                                                  | Natural Gas           | 3                  | 14.0                           | 13.5                             | 14.1                             |
|                                                  | Petroleum             | 4                  | 3.6                            | 3.2                              | 3.2                              |
|                                                  | Total                 | 11                 | 935.0                          | 931.7                            | 932.3                            |
| 1991-97                                          | Natural Gas           | 3                  | 100.6                          | 86.9                             | 98.1                             |
|                                                  | Petroleum             | 10                 | 123.2                          | 122.0                            | 136.5                            |
|                                                  | Total                 | 13                 | 223.8                          | 208.9                            | 234.6                            |

Source: *Inventory of Electric Utility Power Plants in the United States*. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy. Washington, DC.

Note: Before 1995, data is as of December 31; data for 1995 and years after 1995 are as of January 1.

# Operable Electric Generating Units, Nebraska, as of January 1, 1998

| Company<br>-Plant (County)                      | Unit<br>ID | GN<br>(MW) | Net<br>Summer<br>Capability<br>(MW) | Net<br>Winter<br>Capability<br>(MW) | UT | ES  | Year<br>of<br>CO | Company<br>-Plant (County)     | Unit<br>ID | GN<br>(MW) | Net<br>Summer<br>Capability<br>(MW) | Net<br>Winter<br>Capability<br>(MW) | UT | ES  | Year<br>of<br>CO |
|-------------------------------------------------|------------|------------|-------------------------------------|-------------------------------------|----|-----|------------------|--------------------------------|------------|------------|-------------------------------------|-------------------------------------|----|-----|------------------|
| <b>Ansley, City of</b>                          | 2          | 0.6        | 0.6                                 | 0.6                                 | IC | N   | 1963             | <b>Curtis, City of</b>         | 2          | 0.9        | 0.8                                 | 0.8                                 | IC | N/2 | 1955             |
| -Ansley (Custer)                                | 3          | 0.9        | 0.9                                 | 0.9                                 | IC | N   | 1969             | -Curtis (Frontier)             | 3          | 1.1        | 1.0                                 | 1.0                                 | IC | N/2 | 1969             |
|                                                 |            |            |                                     |                                     |    |     |                  |                                | 4          | 1.4        | 1.2                                 | 1.2                                 | IC | N/2 | 1975             |
| <b>Arnold, Village of</b>                       | 1          | 0.6        | 0.5                                 | 0.5                                 | IC | 2   | 1960             | <b>Deshler, City of</b>        | 1          | 0.3        | 0.2                                 | 0.2                                 | IC | 1   | 1938             |
| -Arnold (Custer)                                | @2         | 0.2        | E0.1                                | E0.1                                | IC | 2   | 1928             | -Deshler (Thayer)              | 2          | 0.4        | 0.2                                 | 0.2                                 | IC | 1   | 1950             |
|                                                 | 3          | 0.2        | 0.2                                 | 0.2                                 | IC | 2   | 1941             |                                | 3          | 0.2        | 0.2                                 | 0.2                                 | IC | 1   | 1935             |
|                                                 | 4          | 0.3        | 0.3                                 | 0.3                                 | IC | 2   | 1949             |                                | 4          | 0.7        | 0.6                                 | 0.6                                 | IC | 1   | 1956             |
| <b>Auburn, City of</b>                          | 4A         | 3.8        | 3.8                                 | 3.8                                 | IC | N/2 | 1993             | <b>Emerson, City of</b>        | 2          | 1.1        | 1.1                                 | 1.1                                 | IC | N/2 | 1968             |
| -Auburn (Nemaha)                                | 1          | 2.4        | 2.2                                 | 2.4                                 | IC | N/2 | 1982             | -Emerson (Dixon)               | 3          | 0.1        | 0.1                                 | 0.1                                 | IC | 2   | 1947             |
|                                                 | 2          | 1.0        | 0.9                                 | 1.0                                 | IC | N/2 | 1949             |                                | 4          | 0.5        | 0.5                                 | 0.5                                 | IC | N/2 | 1960             |
|                                                 | 5          | 3.4        | 3.1                                 | 3.4                                 | IC | N/2 | 1973             | <b>Fairbury, City of</b>       | 1          | 4.0        | 3.8                                 | 4.0                                 | ST | N/6 | 1948             |
|                                                 | 6          | 2.8        | 2.5                                 | 2.8                                 | IC | N/2 | 1967             | -Fairbury (Jefferson)          | 2          | 2.5        | 2.5                                 | 2.5                                 | ST | N/6 | 1938             |
|                                                 | 7          | 5.6        | 5.2                                 | 5.6                                 | IC | N/2 | 1987             |                                | 4          | 12.5       | 12.5                                | 13.0                                | ST | N/6 | 1965             |
| <b>Beaver City, City of</b>                     | 1          | 0.5        | 0.5                                 | 0.5                                 | IC | 2/N | 1957             | <b>Falls City, City of</b>     | 1          | 0.7        | 0.7                                 | 0.7                                 | IC | 2   | 1930             |
| -City Lt & Water                                | 2          | 0.4        | 0.3                                 | 0.4                                 | IC | N/2 | 1963             | -Falls City                    | 2          | 1.0        | 1.0                                 | 1.0                                 | IC | 2   | 1937             |
| (Furnas)                                        | 3          | 0.3        | 0.3                                 | 0.3                                 | IC | 2   | 1947             | (Richardson)                   | 3          | 2.8        | 2.3                                 | 2.3                                 | IC | N/2 | 1965             |
|                                                 | 4          | 0.9        | 0.9                                 | 0.9                                 | IC | N/2 | 1967             |                                | 4          | 1.1        | 0.9                                 | 0.9                                 | IC | N/2 | 1946             |
| <b>Benkelman, City of</b>                       | 1          | 0.9        | 0.8                                 | 0.8                                 | IC | 2   | 1952             |                                | 5          | 2.0        | 1.3                                 | 1.3                                 | IC | N/2 | 1950             |
| -Benkelman (Dundy)                              | @2         | 0.3        | 0.3                                 | 0.3                                 | IC | 2   | 1941             |                                | 6          | 2.5        | 2.1                                 | 2.1                                 | IC | N/2 | 1958             |
| <b>Blue Hill, City of</b>                       | 1          | 0.9        | 0.8                                 | 0.8                                 | IC | 2   | 1987             |                                | 7          | 6.3        | 6.3                                 | 6.3                                 | IC | N/2 | 1972             |
| -City Light & Water                             | 2          | 0.4        | 0.4                                 | 0.4                                 | IC | 2   | 1987             |                                | 8          | 6.0        | 6.1                                 | 6.1                                 | IC | N/2 | 1982             |
| (Webster)                                       |            |            |                                     |                                     |    |     |                  | <b>Franklin, City of</b>       | 1          | 0.7        | 0.7                                 | 0.7                                 | IC | N/2 | 1963             |
| <b>Broken Bow, City of</b>                      | 1          | 0.5        | 0.5                                 | 0.5                                 | IC | 2   | 1936             | -Franklin (Franklin)           | 2          | 1.4        | 1.4                                 | 1.4                                 | IC | N/2 | 1974             |
| -Broken Bow (Custer)                            | 2          | 3.5        | 3.5                                 | 3.5                                 | IC | N/2 | 1970             |                                | 3          | 1.1        | 1.1                                 | 1.1                                 | IC | N/2 | 1969             |
|                                                 | 3          | 0.8        | 0.7                                 | 0.7                                 | IC | N/2 | 1945             |                                | 4          | 0.9        | 0.9                                 | 0.9                                 | IC | N/2 | 1955             |
|                                                 | 4          | 0.8        | 0.8                                 | 0.8                                 | IC | N/2 | 1951             | <b>Fremont, City of</b>        | 6          | 16.5       | 15.0                                | 15.0                                | ST | S/N | 1957             |
|                                                 | 5          | 1.0        | 1.0                                 | 1.0                                 | IC | N/2 | 1951             | -Lon Wright (Dodge)            | 7          | 22.0       | 20.0                                | 20.0                                | ST | S/N | 1963             |
|                                                 | 6          | 2.1        | 2.0                                 | 2.0                                 | IC | N/2 | 1961             |                                | 8          | 91.5       | 85.0                                | 85.0                                | ST | S/N | 1977             |
| <b>Burwell, City of</b>                         | 1          | 1.4        | 1.4                                 | 1.4                                 | IC | N/2 | 1972             | <b>Grand Island, City of</b>   |            |            |                                     |                                     |    |     |                  |
| -Burwell (Garfield)                             | 2          | 1.1        | 1.1                                 | 1.1                                 | IC | N/2 | 1968             | -C W Burdick (Hall)            | GT1        | 16.0       | 14.8                                | 14.8                                | GT | N/2 | 1968             |
|                                                 | 3          | 0.9        | 0.9                                 | 0.9                                 | IC | N/2 | 1960             |                                | 1          | 18.8       | 16.5                                | 16.5                                | ST | N/6 | 1957             |
|                                                 | 4          | 0.7        | 0.7                                 | 0.7                                 | IC | 2   | 1955             |                                | 2          | 25.0       | 22.0                                | 22.0                                | ST | N/6 | 1963             |
| <b>Callaway, Village of</b>                     | 1          | 0.2        | 0.2                                 | 0.2                                 | IC | 2   | 1948             |                                | 3          | 54.4       | 54.0                                | 54.0                                | ST | N/6 | 1972             |
| -Callaway (Custer)                              | 2          | 0.2        | 0.2                                 | 0.2                                 | IC | 2   | 1950             | -Platte (Hall)                 | 1          | 109.8      | 100.0                               | 100.0                               | ST | S   | 1982             |
|                                                 | 3          | 0.5        | 0.5                                 | 0.5                                 | IC | 2   | 1960             | <b>Hastings, City of</b>       |            |            |                                     |                                     |    |     |                  |
| <b>Cambridge, City of</b>                       | 1          | 0.8        | 0.7                                 | 0.7                                 | IC | 2   | 1957             | -Don Henry (Adams)             | 1          | 22.0       | 18.0                                | 18.0                                | GT | N/2 | 1972             |
| -Cambridge (Furnas)                             | 2          | 0.9        | 0.8                                 | 0.8                                 | IC | 2   | 1963             | -North Denver                  | 4          | 17.0       | 13.0                                | 13.0                                | ST | N/6 | 1957             |
|                                                 | 3          | 1.4        | 1.2                                 | 1.2                                 | IC | 2   | 1971             | (Adams)                        | 5          | 22.0       | 24.0                                | 24.0                                | ST | N/6 | 1967             |
| <b>Campbell, Village of</b>                     | IC4        | 1.1        | 1.0                                 | 1.0                                 | IC | 2   | 1983             | -Whelen Energy                 | 1          | 76.3       | 77.0                                | 77.0                                | ST | S/2 | 1981             |
| -Campbell (Franklin)                            | 1          | *          | *                                   | *                                   | IC | 2   | 1927             | Center (Adams)                 |            |            |                                     |                                     |    |     |                  |
|                                                 | 2          | 0.1        | 0.1                                 | 0.1                                 | IC | 2   | 1937             | <b>Holdrege, City of</b>       | 1          | 0.5        | 0.5                                 | 0.5                                 | IC | 2   | 1938             |
|                                                 | 3          | 0.1        | 0.1                                 | 0.1                                 | IC | 2   | 1946             | -Holdrege (Phelps)             | 2          | 1.5        | 1.0                                 | 1.0                                 | IC | 2   | 1952             |
| <b>Central Nebraska Public P&amp;I District</b> |            |            |                                     |                                     |    |     |                  |                                | 3          | 0.5        | 0.5                                 | 0.5                                 | IC | 2   | 1945             |
| -Canaday (Gosper)                               | 1          | 108.8      | 107.0                               | 107.0                               | ST | N/6 | 1958             | <b>Kimball, City of</b>        | 1          | 1.0        | 0.7                                 | 0.8                                 | IC | N/2 | 1956             |
| -Jeffrey (Lincoln)                              | 1          | 9.0        | 9.0                                 | 9.0                                 | HY | W   | 1941             | -Kimball (Kimball)             | 2          | 1.0        | 0.7                                 | 0.8                                 | IC | N/2 | 1955             |
|                                                 | 2          | 9.0        | 9.0                                 | 9.0                                 | HY | W   | 1941             |                                | 3          | 1.3        | 1.0                                 | 1.1                                 | IC | N/2 | 1959             |
| -Johnson 1 (Gosper)                             | 1          | 9.0        | 9.0                                 | 9.0                                 | HY | W   | 1941             |                                | 4          | 1.3        | 1.0                                 | 1.1                                 | IC | N/2 | 1960             |
|                                                 | 2          | 9.0        | 9.0                                 | 9.0                                 | HY | W   | 1941             |                                | 5          | 1.1        | 0.6                                 | 0.6                                 | IC | N/2 | 1944             |
| -Johnson 2 (Gosper)                             | 1          | 19.0       | 18.0                                | 18.0                                | HY | W   | 1941             |                                | 6          | 3.9        | 3.6                                 | 3.7                                 | IC | N/2 | 1974             |
| -Kingsley (Keith)                               | 1          | 50.0       | 38.0                                | 38.0                                | HY | W   | 1984             | <b>Laurel, City of</b>         | 1          | 1.4        | 1.1                                 | 1.2                                 | IC | N/2 | 1974             |
| <b>Chappell, City of</b>                        | 1          | 0.2        | 0.2                                 | 0.2                                 | IC | 1   | 1947             | -Laurel (Cedar)                | 2          | 0.9        | 0.7                                 | 0.8                                 | IC | N/2 | 1970             |
| -Chappell (Deuel)                               | 5          | 1.2        | 1.0                                 | 1.0                                 | IC | 1   | 1982             |                                | 3          | 0.7        | 0.5                                 | 0.6                                 | IC | N   | 1965             |
| <b>Crete, City of</b>                           | 1          | 0.4        | 0.4                                 | 0.4                                 | IC | 2   | 1939             |                                | 4          | 0.4        | 0.4                                 | 0.5                                 | IC | N/2 | 1960             |
| -Crete Mun Power                                | 2          | 1.4        | 1.4                                 | 1.4                                 | IC | N/2 | 1955             |                                | 6          | 0.2        | 0.2                                 | 0.2                                 | IC | N/2 | 1956             |
| (Saline)                                        | 3          | 1.0        | 0.9                                 | 1.0                                 | IC | N/2 | 1951             |                                | 7          | 1.4        | 1.1                                 | 1.2                                 | IC | N/2 | 1992             |
|                                                 | 4          | 1.1        | 1.0                                 | 1.1                                 | IC | N/2 | 1947             | <b>Lincoln Electric System</b> |            |            |                                     |                                     |    |     |                  |
|                                                 | 5          | 2.5        | 2.4                                 | 2.6                                 | IC | N/2 | 1963             | -J Street (Lancaster)          | 1          | 27.0       | 30.9                                | 32.8                                | GT | N/2 | 1972             |
|                                                 | 6          | 3.3        | 2.8                                 | 3.3                                 | IC | N/2 | 1965             | -Rokeyby (Lancaster)           | BSU        | 2.9        | 3.0                                 | 3.0                                 | IC | 2   | 1997             |
|                                                 | 7          | 6.0        | 6.4                                 | 6.4                                 | IC | N/2 | 1973             |                                | 1          | 72.4       | 67.7                                | 66.8                                | GT | N/2 | 1975             |
|                                                 |            |            |                                     |                                     |    |     |                  |                                | 2          | 95.4       | 85.6                                | 94.0                                | GT | N/2 | 1997             |



# Operable Electric Generating Units, Nebraska, as of January 1, 1998

| Company<br>-Plant (County)            | Unit<br>ID | GN<br>(MW) | Net<br>Summer<br>Capability<br>(MW) | Net<br>Winter<br>Capability<br>(MW) | UT | ES  | Year<br>of<br>CO | Company<br>-Plant (County)             | Unit<br>ID | GN<br>(MW) | Net<br>Summer<br>Capability<br>(MW) | Net<br>Winter<br>Capability<br>(MW) | UT | ES  | Year<br>of<br>CO |
|---------------------------------------|------------|------------|-------------------------------------|-------------------------------------|----|-----|------------------|----------------------------------------|------------|------------|-------------------------------------|-------------------------------------|----|-----|------------------|
| <b>Lodgepole, City of</b>             | 1          | 0.1        | 0.1                                 | 0.1                                 | IC | 2   | 1937             | <b>Omaha Public Power District</b>     |            |            |                                     |                                     |    |     |                  |
| -Lodgepole<br>(Cheyenne)              | 2          | 0.1        | 0.1                                 | 0.1                                 | IC | 2   | 1949             | -Fort Calhoun<br>(Washington)          | 1          | 502.0      | 476.0                               | 492.0                               | NP | U   | 1973             |
| <b>Madison, City of</b>               | FM1        | 2.1        | 1.8                                 | 1.8                                 | IC | 2/N | 1959             | -Jones Street Gt<br>(Douglas)          | 1          | 65.0       | 54.7                                | 63.7                                | GT | 2   | 1973             |
| -Madison Utilities<br>(Madison)       | FM2        | 1.4        | 1.0                                 | 1.0                                 | IC | 2/N | 1959             |                                        | 2          | 65.0       | 54.7                                | 63.7                                | GT | 2   | 1973             |
|                                       | FM3        | 1.1        | 0.9                                 | 0.9                                 | IC | 2/N | 1953             | -Nebraska City (Otoe)                  | 1          | 615.9      | 618.8                               | 619.6                               | ST | S/2 | 1979             |
|                                       | FM4        | 0.7        | 0.5                                 | 0.5                                 | IC | 2   | 1948             | -North Omaha<br>(Douglas)              | 1          | 73.5       | 77.1                                | 55.8                                | ST | S/N | 1954             |
| <b>Mullen, Village of</b>             | 3          | 0.5        | 0.3                                 | 0.4                                 | IC | 2   | 1958             |                                        | 2          | 108.8      | 110.5                               | 95.2                                | ST | S/N | 1957             |
| -Mullen (Hooker)                      | 4          | 0.7        | 0.6                                 | 0.6                                 | IC | 2   | 1966             |                                        | 3          | 108.8      | 110.5                               | 95.2                                | ST | S/N | 1959             |
| <b>Nebraska City, City of</b>         |            |            |                                     |                                     |    |     |                  |                                        | 4          | 136.0      | 133.2                               | 115.0                               | ST | S/N | 1963             |
| -Nebraska City (Otoe)                 | 2          | 1.5        | 1.5                                 | 1.5                                 | IC | N/2 | 1953             |                                        | 5          | 217.6      | 214.7                               | 173.2                               | ST | S/N | 1968             |
|                                       | 3          | 2.5        | 2.2                                 | 2.4                                 | IC | N/2 | 1955             | -Sarpy County (Sarpy)                  | BSD        | 3.5        | 3.4                                 | 3.4                                 | IC | 2/N | 1996             |
|                                       | 4          | 3.1        | 3.1                                 | 3.1                                 | IC | N/2 | 1957             |                                        | 1          | 55.4       | 51.4                                | 62.3                                | GT | 2/N | 1972             |
|                                       | 5          | 2.0        | 2.0                                 | 2.0                                 | IC | N/2 | 1964             |                                        | 2          | 55.4       | 51.4                                | 62.3                                | GT | 2/N | 1972             |
|                                       | 8          | 4.1        | 3.9                                 | 3.9                                 | IC | N/2 | 1971             |                                        | 3          | 105.6      | 105.5                               | 120.0                               | GT | 2/N | 1996             |
|                                       | 9          | 6.4        | 6.4                                 | 6.4                                 | IC | N/2 | 1974             | <b>Oxford, Village of</b>              | 1          | 0.6        | 0.3                                 | 0.4                                 | IC | 2   | 1946             |
|                                       | 10         | 6.5        | 6.5                                 | 6.5                                 | IC | N/2 | 1979             | -Oxford (Furnas)                       | 2          | 0.7        | 0.5                                 | 0.5                                 | IC | 2/N | 1953             |
| -Syracuse (Otoe)                      | 6          | 2.0        | 2.0                                 | 2.0                                 | IC | N/2 | 1969             |                                        | 3          | 0.9        | 0.8                                 | 0.9                                 | IC | 2/N | 1956             |
|                                       | 7          | 2.0        | 2.0                                 | 2.0                                 | IC | N/2 | 1970             |                                        | 4          | 0.7        | 0.5                                 | 0.5                                 | IC | 2/N | 1956             |
| <b>Nebraska Public Power District</b> |            |            |                                     |                                     |    |     |                  |                                        | 5          | 1.4        | 1.2                                 | 1.3                                 | IC | 2/N | 1972             |
| -Columbus (Platte)                    | 1          | 13.3       | 13.3                                | 13.3                                | HY | W   | 1936             | <b>Pender, City of</b>                 | 1          | 1.6        | 1.2                                 | 1.2                                 | IC | N/2 | 1968             |
|                                       | 2          | 13.3       | 13.3                                | 13.3                                | HY | W   | 1936             | -Pender (Thurston)                     | 2          | 2.1        | 2.0                                 | 2.0                                 | IC | N/2 | 1973             |
|                                       | 3          | 13.3       | 13.4                                | 13.4                                | HY | W   | 1936             |                                        | 3          | 0.6        | 0.5                                 | 0.5                                 | IC | N/2 | 1953             |
| -Cooper (Nemaha)                      | 1          | 835.6      | 774.0                               | 774.0                               | NB | U   | 1974             |                                        | 4          | 0.9        | 0.8                                 | 0.8                                 | IC | N/2 | 1961             |
| -David City (Butler)                  | 1          | 2.1        | 1.3                                 | 1.3                                 | IC | N/2 | 1960             |                                        | 5          | 0.3        | 0.2                                 | 0.2                                 | IC | N/2 | 1939             |
|                                       | 2          | 1.3        | 0.8                                 | 0.8                                 | IC | N/2 | 1949             | <b>Plainview, City of</b>              | 1          | 1.1        | 1.1                                 | 1.1                                 | IC | N   | 1949             |
|                                       | 3          | 1.0        | 0.9                                 | 0.9                                 | IC | N/2 | 1955             | -Plainview Mun Power<br>(Pierce)       | 2          | 0.9        | 0.9                                 | 0.9                                 | IC | N   | 1958             |
|                                       | 4          | 2.3        | 1.8                                 | 1.8                                 | IC | N/2 | 1966             |                                        | 3          | 1.3        | 1.3                                 | 1.3                                 | IC | N   | 1963             |
| -Gentlemen (Lincoln)                  | 1          | 681.3      | 665.0                               | 665.0                               | ST | S   | 1979             | <b>Red Cloud, City of</b>              | 1          | 0.6        | 0.5                                 | 0.5                                 | IC | 2   | 1950             |
|                                       | 2          | 681.3      | 700.0                               | 700.0                               | ST | S   | 1982             | -Red Cloud (Webster)                   | 2          | 1.0        | 0.7                                 | 0.7                                 | IC | 2   | 1953             |
| -Hallam (Lancaster)                   | 1          | 56.7       | 50.0                                | 56.0                                | GT | 2/N | 1973             |                                        | 3          | 1.4        | 1.3                                 | 1.3                                 | IC | 2   | 1960             |
| -Hebron (Thayer)                      | 1          | 56.7       | 50.0                                | 54.0                                | GT | 2   | 1973             |                                        | 4          | 1.4        | 1.3                                 | 1.3                                 | IC | 2   | 1968             |
| -Kearney (Buffalo)                    | 1          | 1.5        | E1.0                                | E1.5                                | HY | W   | 1921             |                                        | 5          | 2.3        | 2.2                                 | 2.2                                 | IC | 2   | 1973             |
| -Lyons (Burt)                         | 2          | 0.5        | E0.4                                | E0.5                                | IC | 2   | 1960             | <b>Sargent, City of</b>                | 1          | 1.1        | 1.1                                 | 1.1                                 | IC | 2/N | 1968             |
|                                       | 3          | 0.8        | E0.7                                | E0.8                                | IC | 2   | 1953             | -Sargent (Custer)                      | 3          | 0.9        | 0.9                                 | 0.9                                 | IC | 2/N | 1964             |
|                                       | 4          | 1.2        | 1.1                                 | 1.1                                 | IC | 2   | 1949             |                                        | 4          | 0.4        | 0.4                                 | 0.4                                 | IC | 2/N | 1954             |
| @5                                    | 0.3        | E0.3       | E0.3                                | E0.3                                | IC | 2   | 1930             | <b>Sidney, City of</b>                 | #1         | 1.2        | 1.0                                 | 1.1                                 | IC | N/2 | 1949             |
| -Madison (Madison)                    | 1          | 2.1        | 1.7                                 | 1.7                                 | IC | N   | 1969             | -Sidney (Cheyenne)                     | #2         | 2.2        | 2.0                                 | 2.1                                 | IC | N/2 | 1952             |
|                                       | 2          | 1.4        | 1.0                                 | 1.0                                 | IC | N   | 1959             |                                        | #3         | 0.8        | 0.6                                 | 0.7                                 | IC | 2   | 1931             |
|                                       | 3          | 1.1        | 0.9                                 | 0.9                                 | IC | N   | 1953             |                                        | #4         | 1.0        | 0.9                                 | 1.0                                 | IC | N/2 | 1947             |
|                                       | 4          | 0.7        | 0.5                                 | 0.5                                 | IC | 2   | 1946             |                                        | #5         | 3.1        | 2.9                                 | 3.1                                 | IC | N/2 | 1956             |
| -McCook (Red Willow)                  | 1          | 56.7       | 49.0                                | 52.0                                | GT | 2   | 1973             | <b>Southwest Public Power District</b> |            |            |                                     |                                     |    |     |                  |
| -Minnechaduza<br>(Cherry)             | 1          | 0.2        | E0.1                                | E0.2                                | HY | W   | 1930             | -Palisade (Hitchcock)                  | 1          | 0.3        | 0.3                                 | 0.3                                 | IC | 2   | 1950             |
| -Mobile (York)                        | 3          | 1.0        | 0.8                                 | 0.8                                 | IC | 2   | 1980             | <b>Spalding, Village of</b>            | 1          | *          | *                                   | *                                   | HY | W   | 1919             |
| -Monroe (Platte)                      | 1          | 2.6        | E2.5                                | E2.6                                | HY | W   | 1936             | -Spalding (Greeley)                    | 2          | 0.1        | 0.1                                 | 0.1                                 | HY | W   | 1956             |
|                                       | 2          | 2.6        | E2.5                                | E2.6                                | HY | W   | 1936             |                                        | 4          | 0.2        | 0.2                                 | 0.2                                 | IC | 2   | 1947             |
|                                       | 3          | 2.6        | E2.5                                | E2.6                                | HY | W   | 1936             |                                        | 5          | 0.5        | 0.5                                 | 0.5                                 | IC | 2   | 1959             |
| -North Platte (Lincoln)               | 1          | 13.1       | 12.0                                | 12.0                                | HY | W   | 1935             |                                        | 6          | 1.4        | 1.4                                 | 1.4                                 | IC | 2   | 1975             |
|                                       | 2          | 13.1       | 12.0                                | 12.0                                | HY | W   | 1935             | <b>Stuart, City of</b>                 | 1          | 0.7        | 0.7                                 | 0.7                                 | IC | 2/N | 1952             |
| -Ord (Valley)                         | 1          | 5.0        | 4.0                                 | 4.0                                 | IC | N/2 | 1973             | -Stuart (Holt)                         | 2          | 0.3        | 0.3                                 | 0.3                                 | IC | 2   | 1960             |
|                                       | 2          | 1.5        | 1.5                                 | 1.5                                 | IC | 2/N | 1966             |                                        | 3          | 0.3        | 0.3                                 | 0.3                                 | IC | 2   | 1952             |
|                                       | 3          | 2.4        | 2.0                                 | 2.0                                 | IC | 2/N | 1963             |                                        | 5          | 0.8        | 0.8                                 | 0.8                                 | IC | 2   | 1997             |
|                                       | 4          | 1.0        | 0.8                                 | 0.8                                 | IC | 2   | 1947             | <b>Tecumseh, City of</b>               | 1          | 0.8        | 0.6                                 | 0.6                                 | IC | 2/N | 1948             |
| -Sheldon (Lancaster)                  | 1          | 108.8      | 105.0                               | 105.0                               | ST | S   | 1961             | -Tecumseh (Johnson)                    | 2          | 1.6        | 1.4                                 | 1.4                                 | IC | 2/N | 1968             |
|                                       | 2          | 119.9      | 120.0                               | 120.0                               | ST | S   | 1965             |                                        | 3          | 1.2        | 1.0                                 | 1.0                                 | IC | 2/N | 1953             |
| -Spencer (Boyd)                       | 1          | 0.8        | 0.8                                 | 0.8                                 | HY | W   | 1927             |                                        | 4          | 1.4        | 1.2                                 | 1.2                                 | IC | 2/N | 1960             |
|                                       | 2          | 1.6        | 1.0                                 | 1.0                                 | HY | W   | 1952             |                                        | 5          | 2.4        | 2.4                                 | 2.4                                 | IC | 2/N | 1957             |
| -Sutherland (Lincoln)                 | 1          | 0.5        | 0.4                                 | 0.4                                 | IC | N/2 | 1952             | <b>Trenton, City of</b>                | 240        | 0.2        | 0.2                                 | 0.2                                 | IC | 2   | 1936             |
|                                       | 2          | 0.9        | 1.0                                 | 1.0                                 | IC | N/2 | 1959             | -Trenton (Hitchcock)                   | 375        | 0.3        | 0.3                                 | 0.3                                 | IC | 2   | 1947             |
|                                       | 3          | 0.2        | 0.2                                 | 0.2                                 | IC | 2/N | 1935             |                                        | 561        | 0.4        | 0.4                                 | 0.4                                 | IC | 2   | 1952             |
|                                       | 4          | 1.4        | 1.2                                 | 1.2                                 | IC | 2/N | 1964             |                                        |            |            |                                     |                                     |    |     |                  |
| -Wakefield (Dixon)                    | IC4        | 0.9        | 0.7                                 | 0.7                                 | IC | N/2 | 1961             |                                        |            |            |                                     |                                     |    |     |                  |
|                                       | 5          | 1.4        | 1.1                                 | 1.1                                 | IC | N/2 | 1966             |                                        |            |            |                                     |                                     |    |     |                  |
|                                       | 6          | 1.4        | 1.1                                 | 1.1                                 | IC | N/2 | 1971             |                                        |            |            |                                     |                                     |    |     |                  |

# Operable Electric Generating Units, Nebraska, as of January 1, 1998

| Company<br>-Plant (County) | Unit<br>ID | GN<br>(MW) | Net<br>Summer<br>Capability<br>(MW) | Net<br>Winter<br>Capability<br>(MW) | UT | ES  | Year<br>of<br>CO | Company<br>-Plant (County) | Unit<br>ID | GN<br>(MW) | Net<br>Summer<br>Capability<br>(MW) | Net<br>Winter<br>Capability<br>(MW) | UT | ES  | Year<br>of<br>CO |
|----------------------------|------------|------------|-------------------------------------|-------------------------------------|----|-----|------------------|----------------------------|------------|------------|-------------------------------------|-------------------------------------|----|-----|------------------|
| <b>Wahoo, City of</b>      | 1          | 2.5        | 2.2                                 | 2.2                                 | IC | N/2 | 1960             |                            | 5          | 3.8        | 3.3                                 | 3.3                                 | IC | 2   | 1966             |
| -Wahoo (Saunders)          | 2          | 0.5        | 0.5                                 | 0.5                                 | IC | 2   | 1936             |                            | 6          | 5.1        | 4.9                                 | 4.9                                 | IC | 2   | 1968             |
|                            | 3          | 4.4        | 4.5                                 | 4.5                                 | IC | N/2 | 1973             | <b>West Point, City of</b> | 2          | 0.9        | 0.9                                 | 0.9                                 | IC | N/2 | 1947             |
|                            | 4          | 1.2        | 1.2                                 | 1.2                                 | IC | N/2 | 1947             | -West Point Municipal      | 3          | 1.3        | 1.2                                 | 1.2                                 | IC | N/2 | 1959             |
|                            | 5          | 2.1        | 2.3                                 | 2.3                                 | IC | N/2 | 1952             | (Cuming)                   | 4          | 2.3        | 2.3                                 | 2.3                                 | IC | N/2 | 1965             |
|                            | 6          | 3.5        | 3.4                                 | 3.4                                 | IC | N/2 | 1969             |                            | 5          | 4.1        | 4.1                                 | 4.1                                 | IC | N/2 | 1971             |
| <b>Wakefield, City of</b>  | 2456       | 4.3        | 3.5                                 | 4.0                                 | IC | N/1 | 1915             | <b>Wilber, City of</b>     | 4          | 1.1        | 1.0                                 | 1.0                                 | IC | 2/N | 1960             |
| -City of Wakefield         |            |            |                                     |                                     |    |     |                  | -Wilber (Saline)           | 5          | 1.0        | 0.6                                 | 0.6                                 | IC | 2/N | 1960             |
| (Dixon)                    |            |            |                                     |                                     |    |     |                  | <b>Wisner, City of</b>     | 1          | 0.6        | 0.6                                 | 0.6                                 | IC | 2   | 1954             |
| <b>Wayne, City of</b>      | 1          | 1.5        | 0.8                                 | 0.8                                 | IC | 2   | 1952             | -Wisner (Cuming)           | 2          | 0.5        | 0.5                                 | 0.5                                 | IC | 2   | 1947             |
| -Wayne (Wayne)             | 2          | 1.0        | E0.9                                | E0.9                                | IC | 2   | 1946             |                            | 3          | 0.8        | 0.8                                 | 0.8                                 | IC | 2   | 1969             |
|                            | 3          | 2.0        | 1.8                                 | 1.8                                 | IC | 2   | 1956             |                            |            |            |                                     |                                     |    |     |                  |
|                            | 4          | 2.0        | 1.9                                 | 1.9                                 | IC | 2   | 1960             |                            |            |            |                                     |                                     |    |     |                  |

Source: *Inventory of Power Plants in the United States, As of January 1, 1998*. December, 1998. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy, Washington, DC.

Notes: 0.0 capability means no capability during the designated time period.

E = Estimated

\* = Less than 0.05 MW

Generating Unit Status: Units are in commercial operation (operating or temporarily out of service for less than three months) unless @ or # is in front of the Unit ID.

@ = In commercial operation, but is out of service for a period exceeding three months

# = In commercial operation, in cold stand-by status (deactivated, in long-term storage)

GN (Generator Nameplate Capacity)

UT (Generating Unit Type):

GT = Combustion (Gas) Turbine  
 HY = Hydraulic Turbine - Conventional  
 IC = Internal Combustion (Diesel)  
 NB = Steam Turbine – Boiling Water Nuclear Reactor  
 NP = Steam Turbine – Pressurized Water Nuclear Reactor  
 ST = Steam Turbine – Boiler  
 WT = Wind Turbine

ES (Energy Source): The first character is the primary energy source/the second character is the alternate energy source.

D = Wind  
 N = Natural Gas  
 S = Subbituminous Coal  
 U = Uranium  
 W = Water  
 1 = No. 1 Fuel Oil  
 2 = No. 2 Fuel Oil  
 6 = No. 6 Fuel Oil

Year of CO (Year of Commercial Operation)

**Electricity Purchased from the Western Area Power Administration,  
Total Cost and Price per kWh, Nebraska, 1979-1997**

| <b>Year</b> | <b>Megawatt-hours<br/>Purchased</b> | <b>Total Cost<br/>(Dollars)</b> | <b>Average Price<br/>(Cents per kWh)</b> |
|-------------|-------------------------------------|---------------------------------|------------------------------------------|
| 1979        | 2,423,228                           | \$22,933,068                    | \$0.010                                  |
| 1980        | 2,582,247                           | \$22,070,203                    | \$0.009                                  |
| 1981        | 2,603,731                           | \$22,865,212                    | \$0.009                                  |
| 1982        | 2,233,519                           | \$19,115,046                    | \$0.009                                  |
| 1983        | 2,659,724                           | \$24,132,656                    | \$0.009                                  |
| 1984        | 2,321,477                           | \$20,547,067                    | \$0.009                                  |
| 1985        | 2,477,032                           | \$24,516,430                    | \$0.010                                  |
| 1986        | 2,237,948                           | \$22,397,334                    | \$0.010                                  |
| 1987        | 2,313,112                           | \$23,266,491                    | \$0.010                                  |
| 1988        | 2,169,880                           | \$21,114,065                    | \$0.010                                  |
| 1989        | 2,152,859                           | \$21,193,362                    | \$0.010                                  |
| 1990        | 2,062,051                           | \$24,587,334                    | \$0.012                                  |
| 1991        | 2,110,110                           | \$29,066,394                    | \$0.014                                  |
| 1992        | 2,096,373                           | \$33,332,203                    | \$0.016                                  |
| 1993        | 2,166,067                           | \$36,296,611                    | \$0.017                                  |
| 1994        | 2,384,147                           | \$42,401,401                    | \$0.018                                  |
| 1995        | 2,345,139                           | \$44,444,638                    | \$0.019                                  |
| 1996        | 2,502,693                           | \$46,250,532                    | \$0.018                                  |
| 1997        | 2,814,536                           | \$50,301,381                    | \$0.018                                  |

Source: *Western Area Power Administration Annual Report*.

Note: Nebraska customers of the Western Area Power Administration in 1997 included 54 municipalities, 0 (zero) rural electric cooperatives, 8 state agencies, 3 public utility districts, 1 power marketer, and 4 project use.

**Electricity Exports, Nebraska, 1992-1997**  
(Million kWh)

| <b>Year</b> | <b>Net Generation</b> | <b>Retail Sales</b> | <b>Exports</b> | <b>Exports as % of<br/>Net Generation</b> |
|-------------|-----------------------|---------------------|----------------|-------------------------------------------|
| 1992        | 22,387                | 17,784              | 4,603          | 20.6%                                     |
| 1993        | 22,724                | 18,867              | 3,857          | 17.0%                                     |
| 1994        | 21,946                | 19,898              | 2,048          | 9.3%                                      |
| 1995        | 25,279                | 20,894              | 4,385          | 17.3%                                     |
| 1996        | 27,323                | 21,716              | 5,607          | 20.5%                                     |
| 1997        | 28,388                | 22,759              | 5,629          | 19.8%                                     |

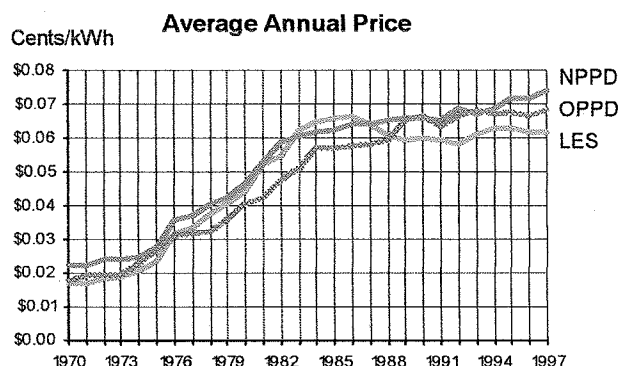
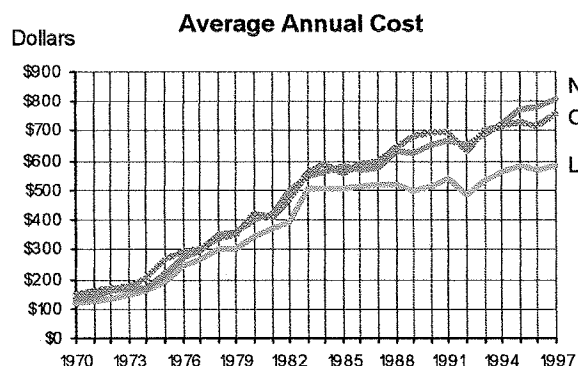
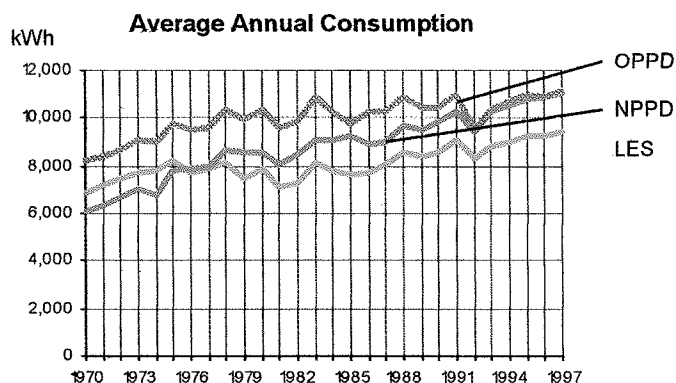
Source: *Electric Power Annual*. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy. Washington, DC.

## Average Annual Residential Consumption, Cost and Price, Nebraska's Three Largest Electric Utilities, 1970-1997

| Year | Consumption<br>(kWh/Customer) |        |        | Cost<br>(Dollar Revenue/Customer) |       |       | Price<br>(Cents/kWh) |         |         |
|------|-------------------------------|--------|--------|-----------------------------------|-------|-------|----------------------|---------|---------|
|      | LES                           | NPPD   | OPPD   | LES                               | NPPD  | OPPD  | LES                  | NPPD    | OPPD    |
| 1970 | 6,861                         | 6,077  | 8,255  | \$119                             | \$135 | \$148 | \$0.017              | \$0.022 | \$0.018 |
| 1971 | 7,239                         | 6,333  | 8,400  | \$124                             | \$140 | \$163 | \$0.017              | \$0.022 | \$0.019 |
| 1972 | 7,486                         | 6,697  | 8,648  | \$137                             | \$160 | \$166 | \$0.018              | \$0.024 | \$0.019 |
| 1973 | 7,754                         | 7,059  | 9,104  | \$148                             | \$171 | \$179 | \$0.019              | \$0.024 | \$0.020 |
| 1974 | 7,839                         | 6,784  | 8,980  | \$160                             | \$168 | \$204 | \$0.020              | \$0.025 | \$0.023 |
| 1975 | 8,223                         | 7,842  | 9,780  | \$193                             | \$218 | \$266 | \$0.023              | \$0.028 | \$0.027 |
| 1976 | 7,704                         | 7,857  | 9,554  | \$245                             | \$276 | \$296 | \$0.032              | \$0.036 | \$0.031 |
| 1977 | 7,872                         | 7,959  | 9,633  | \$265                             | \$293 | \$305 | \$0.034              | \$0.037 | \$0.032 |
| 1978 | 8,109                         | 8,636  | 10,329 | \$301                             | \$349 | \$334 | \$0.038              | \$0.040 | \$0.032 |
| 1979 | 7,459                         | 8,572  | 9,901  | \$301                             | \$362 | \$353 | \$0.040              | \$0.042 | \$0.036 |
| 1980 | 7,888                         | 8,610  | 10,398 | \$346                             | \$398 | \$419 | \$0.044              | \$0.046 | \$0.040 |
| 1981 | 7,115                         | 8,055  | 9,579  | \$373                             | \$425 | \$407 | \$0.052              | \$0.053 | \$0.043 |
| 1982 | 7,290                         | 8,528  | 9,898  | \$397                             | \$501 | \$469 | \$0.055              | \$0.059 | \$0.047 |
| 1983 | 8,119                         | 9,053  | 10,926 | \$505                             | \$549 | \$561 | \$0.062              | \$0.061 | \$0.051 |
| 1984 | 7,812                         | 9,103  | 10,323 | \$507                             | \$561 | \$588 | \$0.065              | \$0.062 | \$0.057 |
| 1985 | 7,621                         | 9,221  | 9,750  | \$503                             | \$586 | \$555 | \$0.066              | \$0.063 | \$0.057 |
| 1986 | 7,737                         | 8,878  | 10,263 | \$514                             | \$570 | \$591 | \$0.067              | \$0.064 | \$0.058 |
| 1987 | 8,054                         | 8,996  | 10,261 | \$518                             | \$575 | \$596 | \$0.064              | \$0.064 | \$0.058 |
| 1988 | 8,576                         | 9,689  | 10,885 | \$517                             | \$635 | \$646 | \$0.060              | \$0.066 | \$0.059 |
| 1989 | 8,378                         | 9,554  | 10,439 | \$500                             | \$628 | \$681 | \$0.060              | \$0.066 | \$0.065 |
| 1990 | 8,557                         | 9,896  | 10,500 | \$514                             | \$652 | \$698 | \$0.060              | \$0.066 | \$0.067 |
| 1991 | 9,066                         | 10,277 | 10,991 | \$539                             | \$670 | \$697 | \$0.059              | \$0.065 | \$0.064 |
| 1992 | 8,335                         | 9,463  | 9,546  | \$488                             | \$652 | \$634 | \$0.059              | \$0.069 | \$0.066 |
| 1993 | 8,793                         | 10,284 | 10,395 | \$537                             | \$691 | \$706 | \$0.061              | \$0.067 | \$0.068 |
| 1994 | 9,024                         | 10,508 | 10,710 | \$565                             | \$724 | \$720 | \$0.063              | \$0.069 | \$0.067 |
| 1995 | 9,240                         | 10,764 | 10,997 | \$582                             | \$775 | \$734 | \$0.063              | \$0.072 | \$0.068 |
| 1996 | 9,233                         | 10,894 | 10,849 | \$571                             | \$780 | \$716 | \$0.062              | \$0.072 | \$0.067 |
| 1997 | 9,396                         | 11,025 | 11,129 | \$581                             | \$810 | \$758 | \$0.062              | \$0.074 | \$0.068 |

Sources: Lincoln Electric System Annual Report. Nebraska Public Power District Annual Report. Omaha Public Power District Annual Report. Nebraska Energy Office.

Note: Lincoln Electric System (LES). Nebraska Public Power District (NPPD). Omaha Public Power District (OPPD).

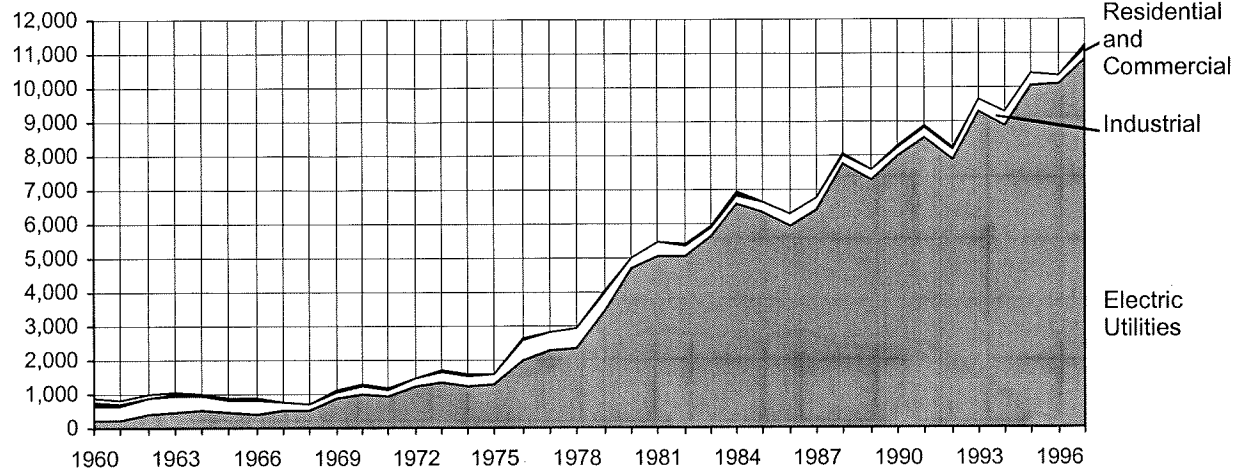


# Coal

Coal use in Nebraska for 1997 was 11,210 thousand (11.210 million) short tons, an 8.0% increase over 1996. Coal use for electricity generation accounted for 96.3% of the coal used in Nebraska in 1996.

## Coal Consumption by End-Use Sector, Nebraska, 1960-1997

Thousand Short Tons



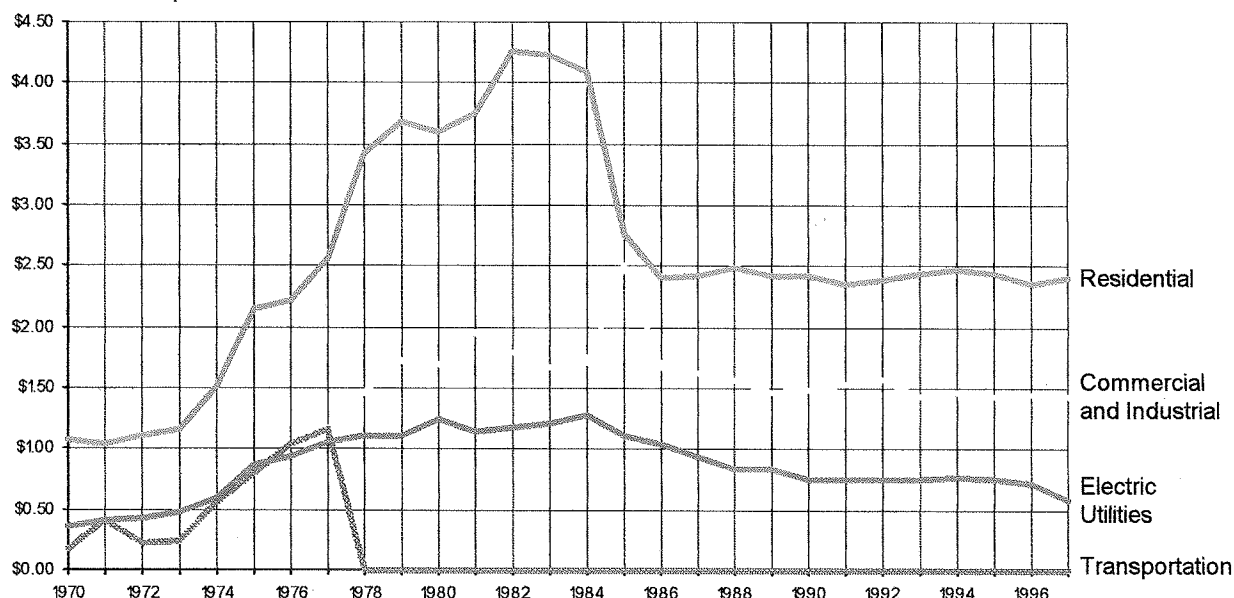
| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Total  |
|------|-------------|------------|------------|----------------|--------------------|--------|
| 1960 | 76          | 142        | 408        | 7              | 256                | 889    |
| 1961 | 52          | 96         | 449        | 2              | 209                | 808    |
| 1962 | 54          | 100        | 468        | 2              | 388                | 1,012  |
| 1963 | 38          | 70         | 498        | 2              | 465                | 1,073  |
| 1964 | 27          | 50         | 447        | 2              | 501                | 1,026  |
| 1965 | 21          | 39         | 349        | 1              | 486                | 896    |
| 1966 | 16          | 30         | 395        | 1              | 417                | 860    |
| 1967 | 12          | 22         | 254        | 1              | 501                | 789    |
| 1968 | 12          | 23         | 159        | 0              | 534                | 729    |
| 1969 | 25          | 46         | 174        | 0              | 901                | 1,146  |
| 1970 | 13          | 24         | 240        | 0              | 1,006              | 1,283  |
| 1971 | 12          | 22         | 193        | 0              | 947                | 1,174  |
| 1972 | 15          | 27         | 218        | 0              | 1,228              | 1,488  |
| 1973 | 8           | 15         | 312        | 0              | 1,350              | 1,685  |
| 1974 | 5           | 9          | 319        | 0              | 1,228              | 1,561  |
| 1975 | 3           | 6          | 308        | 0              | 1,278              | 1,595  |
| 1976 | 4           | 7          | 604        | 0              | 2,012              | 2,626  |
| 1977 | 6           | 11         | 553        | 0              | 2,277              | 2,846  |
| 1978 | 8           | 15         | 576        | 0              | 2,367              | 2,967  |
| 1979 | 21          | 39         | 538        | 0              | 3,461              | 4,058  |
| 1980 | 7           | 12         | 269        | 0              | 4,702              | 4,990  |
| 1981 | 6           | 10         | 376        | 0              | 5,067              | 5,459  |
| 1982 | 9           | 18         | 325        | 0              | 5,048              | 5,399  |
| 1983 | 20          | 36         | 216        | 0              | 5,656              | 5,928  |
| 1984 | 32          | 59         | 280        | 0              | 6,569              | 6,939  |
| 1985 | 4           | 8          | 261        | 0              | 6,380              | 6,653  |
| 1986 | 1           | 3          | 339        | 0              | 5,945              | 6,288  |
| 1987 | 1           | 3          | 312        | 0              | 6,428              | 6,744  |
| 1988 | 16          | 29         | 268        | 0              | 7,744              | 8,057  |
| 1989 | 2           | 3          | 279        | 0              | 7,303              | 7,587  |
| 1990 | 1           | 3          | 235        | 0              | 8,027              | 8,266  |
| 1991 | 5           | 6          | 324        | 0              | 8,524              | 8,859  |
| 1992 | 3           | 3          | 325        | 0              | 7,881              | 8,212  |
| 1993 | 2           | 3          | 364        | 0              | 9,297              | 9,666  |
| 1994 | 2           | 5          | 414        | 0              | 8,879              | 9,300  |
| 1995 | 3           | 6          | 339        | 0              | 10,048             | 10,396 |
| 1996 | 1           | 0          | 287        | 0              | 10,091             | 10,379 |
| 1997 | 41          | 77         | 296        | 0              | 10,796             | 11,210 |

Sources: State Energy Data Report 1997, Consumption Estimates, September 1999. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

## Coal Prices by End-Use Sector, Nebraska, 1970-1997

Coal prices for 1997 remained close to 1996 prices. Coal prices have shown a general decline since peaking in the late 1970s and early 1980s.

Nominal Dollars per Million Btu



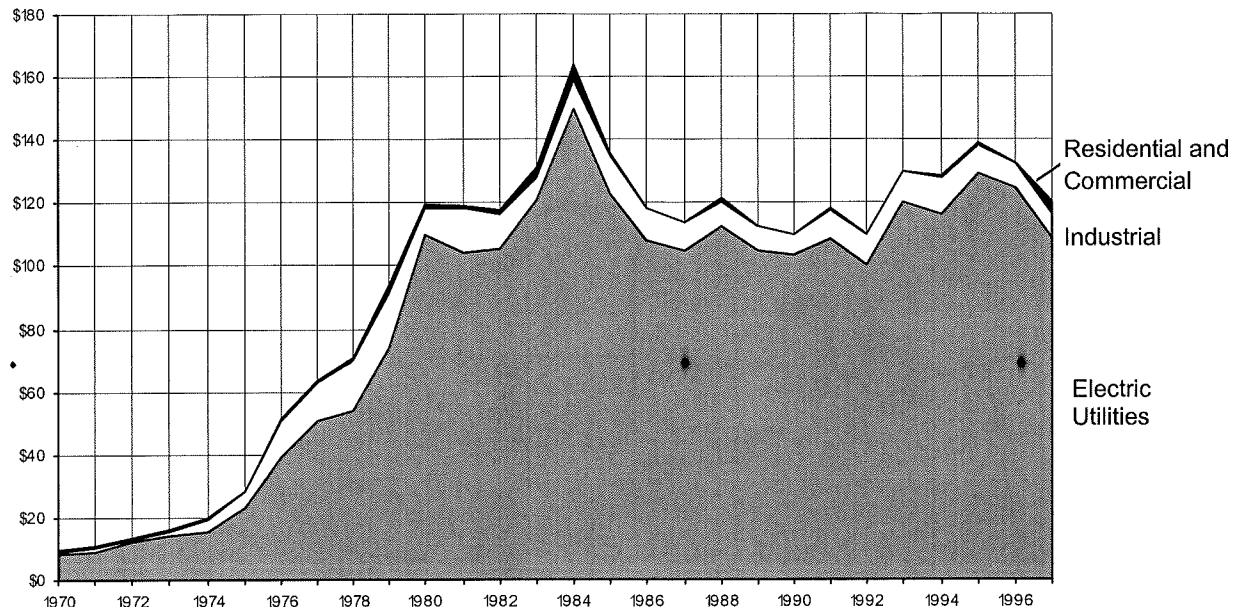
| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Average |
|------|-------------|------------|------------|----------------|--------------------|---------|
| 1970 | \$1.08      | \$0.16     | \$0.16     | \$0.16         | \$0.35             | \$0.38  |
| 1971 | \$1.03      | \$0.41     | \$0.41     | \$0.41         | \$0.40             | \$0.54  |
| 1972 | \$1.10      | \$0.22     | \$0.22     | \$0.22         | \$0.43             | \$0.44  |
| 1973 | \$1.16      | \$0.24     | \$0.24     | \$0.24         | \$0.47             | \$0.47  |
| 1974 | \$1.52      | \$0.57     | \$0.57     | \$0.57         | \$0.60             | \$0.77  |
| 1975 | \$2.15      | \$0.81     | \$0.81     | \$0.81         | \$0.87             | \$1.09  |
| 1976 | \$2.22      | \$1.03     | \$1.03     | \$1.03         | \$0.93             | \$1.25  |
| 1977 | \$2.56      | \$1.17     | \$1.17     | \$1.17         | \$1.05             | \$1.42  |
| 1978 | \$3.42      | \$1.47     | \$1.47     | \$0.00         | \$1.11             | \$1.50  |
| 1979 | \$3.68      | \$1.72     | \$1.72     | \$0.00         | \$1.12             | \$1.65  |
| 1980 | \$3.60      | \$1.69     | \$1.69     | \$0.00         | \$1.24             | \$1.64  |
| 1981 | \$3.75      | \$1.97     | \$1.97     | \$0.00         | \$1.14             | \$1.77  |
| 1982 | \$4.26      | \$1.79     | \$1.79     | \$0.00         | \$1.17             | \$1.80  |
| 1983 | \$4.23      | \$1.67     | \$1.67     | \$0.00         | \$1.22             | \$1.76  |
| 1984 | \$4.09      | \$1.70     | \$1.70     | \$0.00         | \$1.28             | \$1.76  |
| 1985 | \$2.76      | \$2.51     | \$2.51     | \$0.00         | \$1.11             | \$1.78  |
| 1986 | \$2.40      | \$1.67     | \$1.67     | \$0.00         | \$1.04             | \$1.36  |
| 1987 | \$2.43      | \$1.62     | \$1.62     | \$0.00         | \$0.94             | \$1.32  |
| 1988 | \$2.49      | \$1.57     | \$1.57     | \$0.00         | \$0.84             | \$1.30  |
| 1989 | \$2.42      | \$1.47     | \$1.47     | \$0.00         | \$0.83             | \$1.24  |
| 1990 | \$2.42      | \$1.48     | \$1.48     | \$0.00         | \$0.75             | \$1.23  |
| 1991 | \$2.36      | \$1.54     | \$1.54     | \$0.00         | \$0.75             | \$1.24  |
| 1992 | \$2.39      | \$1.57     | \$1.57     | \$0.00         | \$0.75             | \$1.25  |
| 1993 | \$2.44      | \$1.43     | \$1.43     | \$0.00         | \$0.76             | \$1.21  |
| 1994 | \$2.47      | \$1.46     | \$1.46     | \$0.00         | \$0.77             | \$1.23  |
| 1995 | \$2.44      | \$1.42     | \$1.42     | \$0.00         | \$0.75             | \$1.21  |
| 1996 | \$2.35      | \$1.45     | \$1.45     | \$0.00         | \$0.72             | \$1.19  |
| 1997 | \$2.40      | \$1.42     | \$1.42     | \$0.00         | \$0.58             | \$1.17  |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

## Coal Expenditures by End-Use Sector, Nebraska, 1970-1997

Expenditures on coal in Nebraska were \$120.25 million in 1997, a 9.3% decrease from 1996 expenditures. Peak coal expenditures were \$164 million in 1984.

Million Nominal Dollars

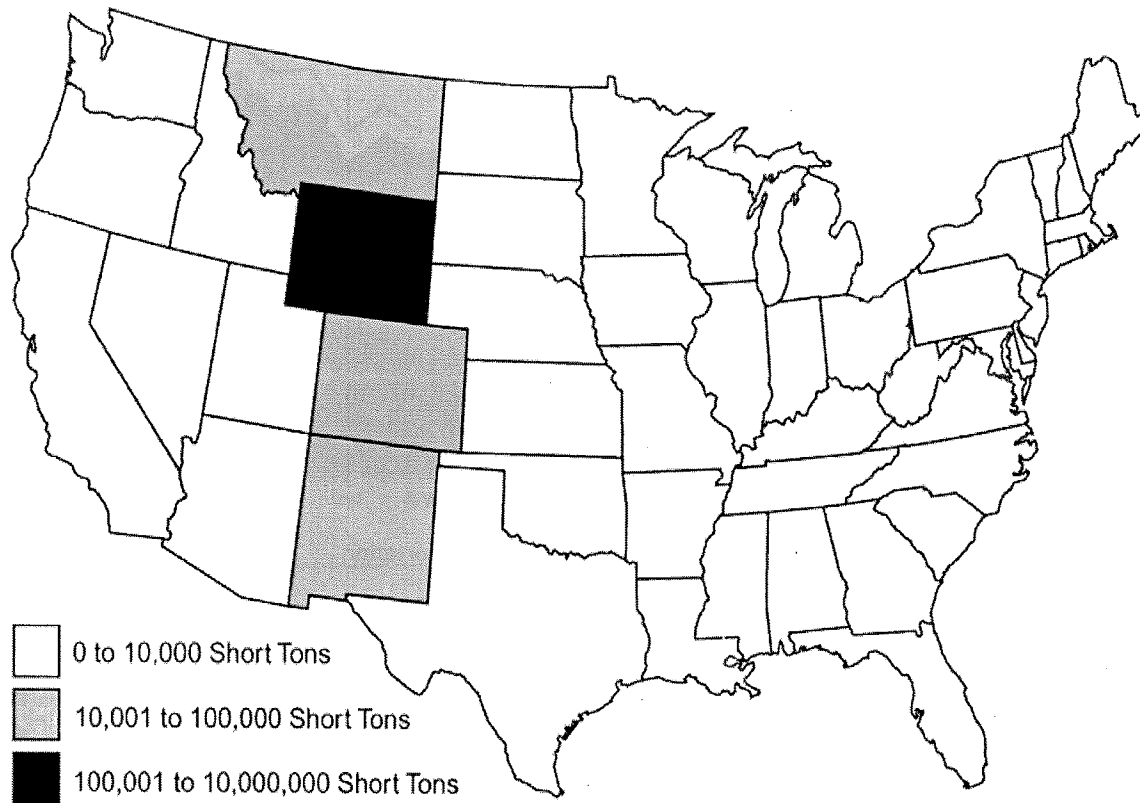


| Year | Residential | Commercial | Industrial | Transportation | Electric Utilities | Total   |
|------|-------------|------------|------------|----------------|--------------------|---------|
| 1970 | \$0.3       | \$0.1      | \$0.8      | \$0.0          | \$8.5              | \$9.6   |
| 1971 | \$0.2       | \$0.2      | \$1.6      | \$0.0          | \$8.8              | \$10.8  |
| 1972 | \$0.3       | \$0.1      | \$1.0      | \$0.0          | \$12.2             | \$13.6  |
| 1973 | \$0.2       | \$0.1      | \$1.5      | \$0.0          | \$14.2             | \$16.0  |
| 1974 | \$0.1       | \$0.1      | \$3.6      | \$0.0          | \$15.7             | \$19.6  |
| 1975 | \$0.1       | \$0.1      | \$4.8      | \$0.0          | \$23.4             | \$28.4  |
| 1976 | \$0.1       | \$0.1      | \$12.0     | \$0.0          | \$39.1             | \$51.4  |
| 1977 | \$0.3       | \$0.2      | \$12.3     | \$0.0          | \$51.0             | \$63.8  |
| 1978 | \$0.5       | \$0.4      | \$15.8     | \$0.0          | \$54.1             | \$70.8  |
| 1979 | \$1.4       | \$1.2      | \$17.4     | \$0.0          | \$74.1             | \$94.1  |
| 1980 | \$0.4       | \$0.4      | \$8.7      | \$0.0          | \$109.8            | \$119.4 |
| 1981 | \$0.4       | \$0.4      | \$13.8     | \$0.0          | \$104.4            | \$119.0 |
| 1982 | \$0.8       | \$0.6      | \$11.0     | \$0.0          | \$105.3            | \$117.7 |
| 1983 | \$1.8       | \$1.3      | \$7.1      | \$0.0          | \$121.0            | \$131.1 |
| 1984 | \$2.8       | \$2.1      | \$9.2      | \$0.0          | \$149.9            | \$164.0 |
| 1985 | \$0.3       | \$0.4      | \$12.2     | \$0.0          | \$122.9            | \$135.8 |
| 1986 | \$0.1       | \$0.1      | \$10.4     | \$0.0          | \$107.7            | \$118.4 |
| 1987 | \$0.1       | \$0.1      | \$9.4      | \$0.0          | \$104.5            | \$114.1 |
| 1988 | \$0.7       | \$0.8      | \$7.9      | \$0.0          | \$112.3            | \$121.7 |
| 1989 | \$0.1       | \$0.1      | \$7.9      | \$0.0          | \$104.7            | \$112.7 |
| 1990 | \$0.1       | \$0.1      | \$6.6      | \$0.0          | \$103.4            | \$110.1 |
| 1991 | \$0.3       | \$0.2      | \$9.4      | \$0.0          | \$108.5            | \$118.4 |
| 1992 | \$0.1       | \$0.1      | \$9.4      | \$0.0          | \$100.6            | \$110.2 |
| 1993 | \$0.1       | \$0.1      | \$9.8      | \$0.0          | \$120.2            | \$130.2 |
| 1994 | \$0.1       | \$0.1      | \$11.5     | \$0.0          | \$116.4            | \$128.3 |
| 1995 | \$0.2       | \$0.2      | \$9.4      | \$0.0          | \$129.2            | \$138.9 |
| 1996 | \$0.0       | \$0.0      | \$7.8      | \$0.0          | \$124.8            | \$132.6 |
| 1997 | \$1.7       | \$1.9      | \$8.1      | \$0.0          | \$108.6            | \$120.3 |

Sources: *State Energy Price and Expenditure Report 1997*. Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

## States Shipping Coal to Nebraska, 1997

In 1997, 98.0% of the coal used in Nebraska power plants came from Wyoming. Nebraska's entire coal supply is imported domestically and transported by rail.



## Coal Shipped into Nebraska by State of Origin, 1989-1997

(Thousand Short Tons)

| State        | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995   | 1996   | 1997  |
|--------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| Colorado     | 159   | 60    | 59    | 67    | 72    | 77    | 104    | 56     | 65    |
| Indiana      | 3     |       |       |       |       |       |        |        |       |
| Kentucky     |       |       |       |       |       |       | 3      |        |       |
| Montana      | 109   | 131   | 150   | 142   | 136   | 71    | 205    | 113    | 47    |
| New Mexico   |       |       |       |       |       |       |        | 92     | 68    |
| Pennsylvania |       | 1     | 4     | 2     | 2     |       |        | 1      | 4     |
| Wyoming      | 7,465 | 7,950 | 8,583 | 7,882 | 8,801 | 8,908 | 10,065 | 10,464 | 9,198 |
| Totals       | 7,736 | 8,142 | 8,796 | 8,093 | 9,011 | 9,056 | 10,377 | 10,726 | 9,382 |

Sources: *Coal Industry Annual*. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

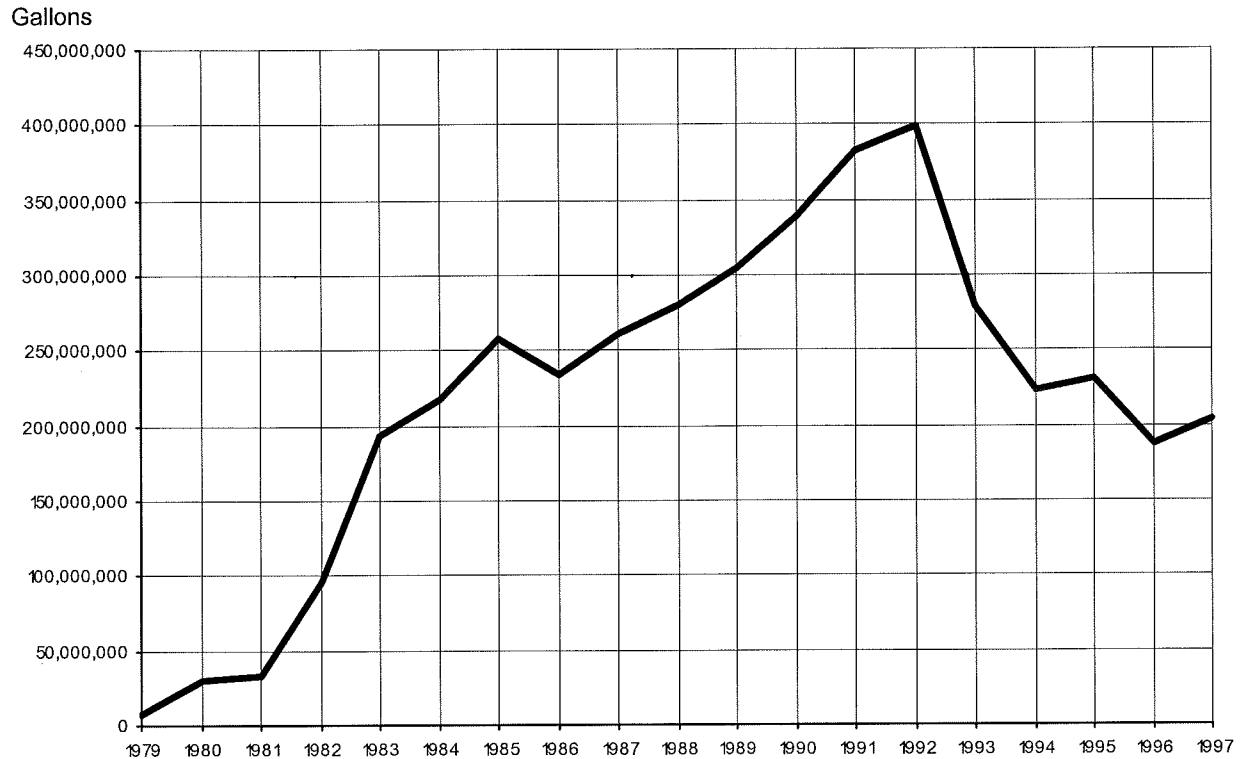
Note: Nebraska has imported coal from Utah (1993 was the most recent year), but the data rounds to zero.



# Ethanol

## Ethanol Consumption, Nebraska, 1979-1997

Ethanol consumption in Nebraska in 1997 was 203,606,519 gallons, which is an increase of 8.9% from 1996. The market share for ethanol in 1997 was 24.6%. In Nebraska, most ethanol is sold as 10% ethanol blended with 90% gasoline.



## Ethanol Consumption and Market Share, Nebraska, 1979-1997

| Year | Ethanol Consumption |              |
|------|---------------------|--------------|
|      | (Gallons)           | Market Share |
| 1979 | 8,051,102           | 0.8%         |
| 1980 | 30,670,182          | 3.5%         |
| 1981 | 32,641,005          | 3.9%         |
| 1982 | 95,804,488          | 11.3%        |
| 1983 | 193,036,982         | 23.6%        |
| 1984 | 218,047,468         | 26.7%        |
| 1985 | 257,452,193         | 31.2%        |
| 1986 | 234,386,066         | 27.8%        |
| 1987 | 260,749,099         | 31.2%        |
| 1988 | 280,577,141         | 32.2%        |
| 1989 | 305,099,679         | 33.8%        |
| 1990 | 338,767,573         | 38.0%        |
| 1991 | 381,971,911         | 45.9%        |
| 1992 | 399,191,924         | 47.7%        |
| 1993 | 279,721,447         | 36.2%        |
| 1994 | 223,096,000         | 30.2%        |
| 1995 | 230,811,776         | 28.6%        |
| 1996 | 187,027,781         | 22.7%        |
| 1997 | 203,606,519         | 24.6%        |

Source: Unpublished computer printout. Nebraska Ethanol Board. Lincoln, NE.

## Unleaded Gasoline and Ethanol Average Rack Prices, F.O.B. Omaha, Nebraska, 1988-1997

Dollars per Gallon



### Unleaded Gasoline Rack Prices, F.O.B. Omaha, Nebraska, 1988-1997 (Dollars per Gallon)

| Month     | 1988   | 1989   | 1990   | 1991   | 1992   | 1993   | 1994   | 1995   | 1996   | 1997   |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| January   | \$0.48 | \$0.54 | \$0.65 | \$0.77 | \$0.54 | \$0.58 | \$0.46 | \$0.53 | \$0.66 | \$0.63 |
| February  | \$0.50 | \$0.52 | \$0.63 | \$0.67 | \$0.57 | \$0.59 | \$0.51 | \$0.56 | \$0.67 | \$0.59 |
| March     | \$0.50 | \$0.56 | \$0.62 | \$0.67 | \$0.61 | \$0.66 | \$0.52 | \$0.57 | \$0.74 | \$0.59 |
| April     | \$0.57 | \$0.63 | \$0.67 | \$0.73 | \$0.64 | \$0.65 | \$0.55 | \$0.63 | \$0.82 | \$0.56 |
| May       | \$0.57 | \$0.64 | \$0.69 | \$0.74 | \$0.89 | \$0.66 | \$0.56 | \$0.67 | \$0.78 | \$0.54 |
| June      | \$0.55 | \$0.71 | \$0.67 | \$0.68 | \$0.70 | \$0.62 | \$0.59 | \$0.61 | \$0.71 | \$0.52 |
| July      | \$0.60 | \$0.71 | \$0.62 | \$0.68 | \$0.66 | \$0.57 | \$0.63 | \$0.56 | \$0.69 | \$0.54 |
| August    | \$0.59 | \$0.56 | \$0.85 | \$0.73 | \$0.65 | \$0.58 | \$0.68 | \$0.57 | \$0.69 | \$0.52 |
| September | \$0.54 | \$0.66 | \$0.94 | \$0.64 | \$0.68 | \$0.58 | \$0.59 | \$0.58 | \$0.60 | \$0.53 |
| October   | \$0.51 | \$0.63 | \$0.95 | \$0.64 | \$0.67 | \$0.61 | \$0.52 | \$0.58 | \$0.64 | \$0.52 |
| November  | \$0.54 | \$0.58 | \$0.91 | \$0.70 | \$0.62 | \$0.56 | \$0.56 | \$0.61 | \$0.67 | \$0.54 |
| December  | \$0.53 | \$0.55 | \$0.76 | \$0.59 | \$0.59 | \$0.46 | \$0.50 | \$0.63 | \$0.65 | \$0.54 |
| Average   | \$0.54 | \$0.61 | \$0.75 | \$0.69 | \$0.64 | \$0.59 | \$0.56 | \$0.59 | \$0.69 | \$0.55 |

### Ethanol Rack Prices, F.O.B. Omaha, Nebraska, 1988-1997 (Dollars per Gallon)

| Month     | 1988   | 1989   | 1990   | 1991   | 1992   | 1993   | 1994   | 1995   | 1996   | 1997   |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| January   | \$1.05 | \$1.15 | \$1.26 | \$1.30 | \$1.22 | \$1.14 | \$1.13 | \$1.25 | \$1.22 | \$1.13 |
| February  | \$1.08 | \$1.13 | \$1.23 | \$1.23 | \$1.24 | \$1.23 | \$1.16 | \$1.27 | \$1.23 | \$1.13 |
| March     | \$1.09 | \$1.23 | \$1.21 | \$1.25 | \$1.29 | \$1.20 | \$1.13 | \$1.19 | \$1.23 | \$1.13 |
| April     | \$1.14 | \$1.40 | \$1.26 | \$1.28 | \$1.32 | \$1.21 | \$1.12 | \$1.16 | \$1.30 | \$1.14 |
| May       | \$1.14 | \$1.38 | \$1.29 | \$1.33 | \$1.37 | \$1.19 | \$1.12 | \$1.12 | \$1.37 | \$1.16 |
| June      | \$1.14 | \$1.36 | \$1.29 | \$1.27 | \$1.41 | \$1.14 | \$1.19 | \$1.08 | \$1.38 | \$1.08 |
| July      | \$1.23 | \$1.31 | \$1.26 | \$1.24 | \$1.35 | \$1.09 | \$1.25 | \$1.08 | \$1.40 | \$1.09 |
| August    | \$1.17 | \$1.17 | \$1.52 | \$1.28 | \$1.36 | \$1.12 | \$1.32 | \$1.10 | \$1.54 | \$1.15 |
| September | \$1.13 | \$1.25 | \$1.56 | \$1.21 | \$1.41 | \$1.12 | \$1.26 | \$1.11 | \$1.56 | \$1.19 |
| October   | \$1.16 | \$1.24 | \$1.55 | \$1.24 | \$1.38 | \$1.16 | \$1.21 | \$1.11 | \$1.51 | \$1.19 |
| November  | \$1.15 | \$1.09 | \$1.50 | \$1.33 | \$1.33 | \$1.11 | \$1.22 | \$1.12 | \$1.30 | \$1.19 |
| December  | \$1.13 | \$1.05 | \$1.30 | \$1.28 | \$1.26 | \$1.16 | \$1.18 | \$1.16 | \$1.16 | \$1.18 |
| Average   | \$1.13 | \$1.23 | \$1.35 | \$1.27 | \$1.33 | \$1.16 | \$1.19 | \$1.15 | \$1.35 | \$1.15 |

Source: Unpublished computer printout. Nebraska Ethanol Board. Lincoln, NE.

# Miscellaneous

## Overview

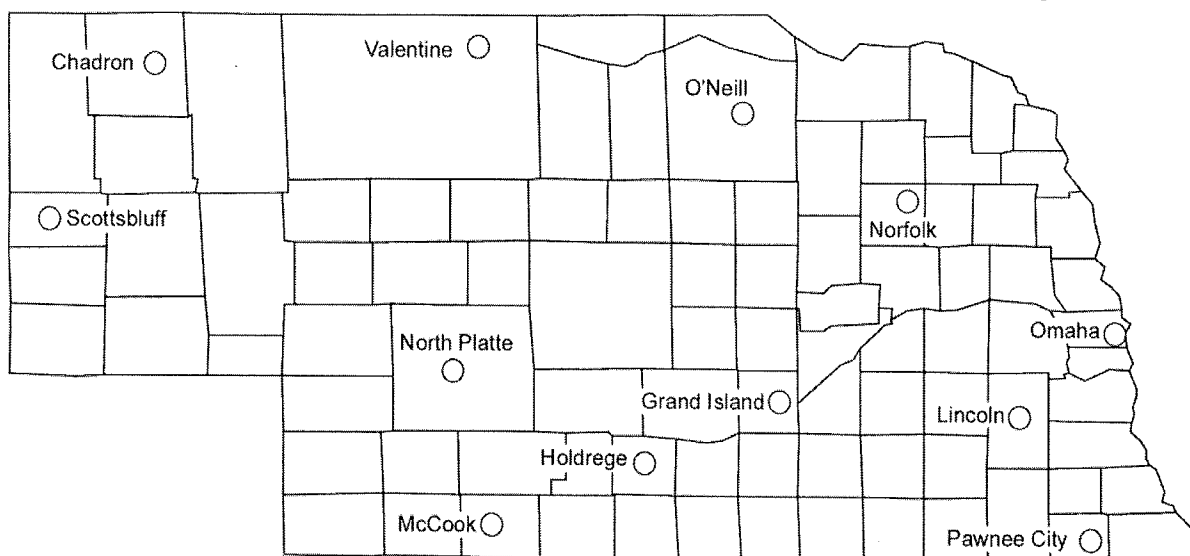
This section includes data such as heating and cooling degree days, motor vehicle registrations and mileage, population and irrigation wells and irrigated acreage which have an impact on energy consumption in Nebraska. Information on heating sources in housing units, consumer price index, drilling permits and stripper wells is also found in this section.

### Degree Days Weighted by Population, Nebraska, Monthly, 1970-1997

| Year | Heating Degree Days |      |      |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|------|---------------------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | Jan                 | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1970 | 1467                | 912  | 972  | 444 | 108 | 24  | 1   | 4   | 108 | 479 | 847  | 1129 | 0                   | 0   | 0   | 0   | 129 | 242 | 372 | 359 | 91  | 4   | 0   | 0   |
| 1971 | 1400                | 1109 | 906  | 397 | 241 | 13  | 18  | 10  | 100 | 303 | 760  | 1136 | 0                   | 0   | 0   | 6   | 38  | 314 | 253 | 297 | 102 | 21  | 0   | 0   |
| 1972 | 1362                | 1058 | 725  | 460 | 187 | 26  | 13  | 16  | 105 | 487 | 896  | 1370 | 0                   | 0   | 1   | 0   | 62  | 226 | 280 | 254 | 93  | 0   | 0   | 0   |
| 1973 | 1280                | 1007 | 712  | 481 | 232 | 25  | 9   | 0   | 141 | 299 | 801  | 1266 | 0                   | 0   | 5   | 0   | 41  | 240 | 316 | 369 | 65  | 20  | 0   | 0   |
| 1974 | 1441                | 928  | 709  | 386 | 160 | 42  | 0   | 34  | 168 | 312 | 769  | 1157 | 0                   | 0   | 5   | 6   | 81  | 180 | 497 | 185 | 46  | 17  | 0   | 0   |
| 1975 | 1273                | 1203 | 1030 | 528 | 151 | 44  | 1   | 2   | 155 | 302 | 811  | 1125 | 0                   | 0   | 0   | 0   | 93  | 180 | 373 | 371 | 53  | 20  | 0   | 0   |
| 1976 | 1261                | 784  | 817  | 349 | 226 | 31  | 1   | 8   | 91  | 532 | 961  | 1197 | 0                   | 0   | 0   | 9   | 43  | 212 | 372 | 325 | 107 | 0   | 0   | 0   |
| 1977 | 1541                | 886  | 710  | 286 | 85  | 16  | 0   | 24  | 81  | 398 | 811  | 1226 | 0                   | 0   | 6   | 17  | 153 | 273 | 422 | 220 | 116 | 7   | 0   | 0   |
| 1978 | 1651                | 1394 | 931  | 425 | 204 | 26  | 6   | 13  | 48  | 398 | 865  | 1364 | 0                   | 0   | 0   | 1   | 53  | 230 | 346 | 279 | 165 | 7   | 0   | 0   |
| 1979 | 1738                | 1390 | 865  | 491 | 228 | 34  | 11  | 14  | 63  | 366 | 906  | 1000 | 0                   | 0   | 0   | 0   | 44  | 202 | 294 | 271 | 139 | 10  | 0   | 0   |
| 1980 | 1279                | 1164 | 954  | 418 | 178 | 19  | 0   | 6   | 73  | 426 | 696  | 1089 | 0                   | 0   | 0   | 1   | 70  | 257 | 458 | 351 | 127 | 6   | 0   | 0   |
| 1981 | 1118                | 947  | 720  | 229 | 237 | 19  | 6   | 21  | 94  | 444 | 693  | 1212 | 0                   | 0   | 5   | 30  | 40  | 268 | 352 | 230 | 103 | 5   | 0   | 0   |
| 1982 | 1593                | 1123 | 885  | 516 | 174 | 85  | 2   | 14  | 117 | 384 | 879  | 1090 | 0                   | 0   | 0   | 0   | 74  | 116 | 370 | 265 | 81  | 10  | 0   | 0   |
| 1983 | 1182                | 928  | 842  | 634 | 278 | 46  | 1   | 0   | 64  | 370 | 785  | 1758 | 0                   | 0   | 0   | 0   | 28  | 176 | 426 | 493 | 140 | 11  | 0   | 0   |
| 1984 | 1304                | 869  | 1009 | 558 | 227 | 26  | 8   | 1   | 146 | 416 | 770  | 1175 | 0                   | 0   | 0   | 0   | 41  | 238 | 336 | 367 | 62  | 7   | 0   | 0   |
| 1985 | 1407                | 1154 | 701  | 326 | 129 | 56  | 8   | 31  | 142 | 415 | 1117 | 1411 | 0                   | 0   | 6   | 11  | 104 | 153 | 323 | 192 | 63  | 7   | 0   | 0   |
| 1986 | 1021                | 1089 | 645  | 398 | 174 | 15  | 1   | 33  | 86  | 401 | 901  | 1090 | 0                   | 0   | 8   | 5   | 73  | 286 | 382 | 190 | 116 | 7   | 0   | 0   |
| 1987 | 1109                | 795  | 785  | 346 | 106 | 17  | 1   | 24  | 111 | 518 | 695  | 1080 | 0                   | 0   | 0   | 9   | 129 | 281 | 391 | 217 | 88  | 0   | 0   | 0   |
| 1988 | 1433                | 1120 | 772  | 451 | 107 | 4   | 7   | 2   | 91  | 485 | 766  | 1054 | 0                   | 0   | 0   | 0   | 132 | 356 | 336 | 352 | 109 | 0   | 0   | 0   |
| 1989 | 1034                | 1350 | 892  | 357 | 184 | 58  | 2   | 14  | 140 | 376 | 835  | 1432 | 0                   | 0   | 0   | 8   | 64  | 151 | 362 | 269 | 62  | 10  | 0   | 0   |
| 1990 | 1008                | 974  | 751  | 465 | 257 | 19  | 12  | 10  | 51  | 402 | 697  | 1347 | 0                   | 0   | 0   | 0   | 32  | 255 | 292 | 293 | 158 | 7   | 0   | 0   |
| 1991 | 1449                | 816  | 736  | 379 | 132 | 15  | 7   | 11  | 90  | 435 | 1043 | 1033 | 0                   | 0   | 0   | 7   | 106 | 291 | 340 | 291 | 108 | 5   | 0   | 0   |
| 1992 | 1009                | 790  | 696  | 473 | 182 | 68  | 36  | 52  | 118 | 402 | 946  | 1231 | 0                   | 0   | 6   | 0   | 63  | 136 | 190 | 144 | 82  | 7   | 0   | 0   |
| 1993 | 1458                | 1267 | 922  | 548 | 217 | 62  | 15  | 15  | 202 | 449 | 944  | 1083 | 0                   | 0   | 0   | 0   | 95  | 260 | 235 | 243 | 113 | 13  | 0   | 0   |
| 1994 | 1390                | 1241 | 731  | 457 | 139 | 18  | 21  | 19  | 83  | 343 | 751  | 1131 | 0                   | 0   | 0   | 0   | 95  | 260 | 235 | 243 | 113 | 13  | 0   | 0   |
| 1995 | 1284                | 894  | 833  | 571 | 324 | 45  | 3   | 1   | 135 | 412 | 889  | 1149 | 0                   | 0   | 0   | 0   | 19  | 177 | 356 | 396 | 67  | 7   | 0   | 0   |
| 1996 | 1432                | 994  | 1030 | 490 | 248 | 26  | 17  | 21  | 148 | 379 | 1013 | 1329 | 0                   | 0   | 0   | 0   | 35  | 225 | 253 | 226 | 57  | 10  | 0   | 0   |
| 1997 | 1386                | 1001 | 743  | 616 | 281 | 26  | 6   | 19  | 78  | 371 | 888  | 1098 | 0                   | 0   | 0   | 0   | 26  | 229 | 345 | 238 | 120 | 10  | 0   | 0   |

Sources: State, Regional, and National Monthly and Seasonal Heating Degree Days Weighted by Population (1990 Census), July 1931-June 1992. State, Regional, and National Monthly and Annual Cooling Degree Days Weighted by Population (1990 Census), January 1931-December 1991. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Asheville, NC. Climatological Data, Nebraska. National Oceanic and Atmospheric Administration; National Environmental Satellite, Data and Information Service; National Climatic Data Center, Asheville, NC. Climatological Data Annual Summary, Nebraska. National Oceanic and Atmospheric Administration; National Environmental Satellite, Data and Information Service; National Climatic Data Center, Asheville, NC.

# Heating and Cooling Degree Days, Selected Nebraska Cities, Monthly, 1975-1997



## Chadron

| Year | Heating Degree Days |      |      |     |     |     |     |     |     |      |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|------|---------------------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | Jan                 | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct  | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975 | 1221                | 1235 | 1047 | 678 | 308 | 82  | 2   | 9   | 200 | 467  | 927  | 1037 | 0                   | 0   | 0   | 1   | 14  | 82  | 397 | 261 | 34  | 20  | 0   | 0   |
| 1976 | 1311                | 851  | 911  | 497 | 268 | 77  | 0   | 2   | 122 | 604  | 989  | 1149 | 0                   | 0   | 0   | 0   | 5   | 112 | 341 | 266 | 98  | 7   | 0   | 0   |
| 1977 | 1502                | 817  | 884  | 426 | 147 | 10  | 3   | 34  | 105 | 428  | 888  | 1258 | 0                   | 0   | 0   | 4   | 31  | 222 | 337 | 137 | 92  | 0   | 0   | 0   |
| 1978 | 1588                | 1344 | 863  | 534 | 280 | 62  | 12  | 34  | 117 | 457  | 1033 | 1572 | 0                   | 0   | 0   | 0   | 31  | 150 | 268 | 233 | 165 | 0   | 0   | 0   |
| 1979 | 1760                | 1247 | 860  | 518 | 327 | 69  | 1   | 11  | 75  | 411  | 998  | 959  | 0                   | 0   | 0   | 8   | 20  | 143 | 276 | 202 | 127 | 0   | 0   | 0   |
| 1980 | 1296                | 1051 | 984  | 495 | 254 | 33  | 0   | 5   | 99  | 495  | 794  | 1014 | 0                   | 0   | 0   | 11  | 20  | 170 | 390 | 220 | 86  | 3   | 0   | 0   |
| 1981 | 1024                | 996  | 771  | 336 | 293 | 30  | 16  | 2   | 82  | 475  | 706  | 1191 | 0                   | 0   | 0   | 4   | 16  | 151 | 340 | 215 | 97  | 5   | 0   | 0   |
| 1982 | 1528                | 1068 | 873  | 630 | 297 | 110 | 1   | 0   | 145 | 518  | 892  | 1140 | 0                   | 0   | 0   | 0   | 7   | 42  | 299 | 348 | 89  | 0   | 0   | 0   |
| 1983 | 995                 | 782  | 845  | 724 | 409 | 90  | 2   | 0   | 164 | 421  | 902  | 1781 | 0                   | 0   | 0   | 0   | 11  | 101 | 363 | 401 | 121 | 0   | 0   | 0   |
| 1984 | 1268                | 910  | 892  | 629 | 253 | 57  | 0   | 0   | 231 | 584  | 831  | 1284 | 0                   | 0   | 0   | 0   | 39  | 118 | 302 | 342 | 62  | 2   | 0   | 0   |
| 1985 | 1396                | 1164 | 853  | 410 | 116 | 91  | 1   | 13  | 236 | 470  | 1377 | 1392 | 0                   | 0   | 0   | 8   | 64  | 131 | 362 | 261 | 104 | 0   | 0   | 0   |
| 1986 | 1101                | 1125 | 641  | 551 | 239 | 18  | 0   | 1   | 171 | 473  | 938  | 1076 | 0                   | 0   | 0   | 0   | 16  | 176 | 284 | 228 | 14  | 0   | 0   | 0   |
| 1987 | 1078                | 879  | 992  | 408 | 153 | 35  | 12  | 40  | 148 | 530  | 735  | 1122 | 0                   | 0   | 0   | 8   | 18  | 126 | 309 | 190 | 36  | 0   | 0   | 0   |
| 1988 | 1406                | 1105 | 893  | 539 | 215 | 10  | 12  | 18  | 150 | 464  | 993  | 1087 | 0                   | 0   | 0   | 4   | 62  | 320 | 195 | 204 | 27  | 0   | 0   | 0   |
| 1989 | 1089                | 1340 | 957  | 550 | 259 | 108 | 0   | 0   | 178 | 542  | 814  | 1389 | 0                   | 0   | 0   | 9   | 15  | 83  | 402 | 284 | 83  | 0   | 0   | 0   |
| 1990 | 972                 | 1002 | 865  | 552 | 335 | 30  | 2   | 3   | 110 | 505  | 791  | 1508 | 0                   | 0   | 0   | 2   | 0   | 175 | 285 | 262 | 133 | 4   | 0   | 0   |
| 1991 | 1437                | 798  | 800  | 563 | 221 | 8   | 5   | 0   | 120 | 559  | 1063 | 1015 | 0                   | 0   | 0   | 0   | 31  | 185 | 215 | 328 | 109 | 5   | 0   | 0   |
| 1992 | 1083                | 837  | 771  | 560 | 232 | 49  | 19  | 55  | 168 | 433  | 940  | 1399 | 0                   | 0   | 0   | 0   | 33  | 91  | 113 | 142 | 27  | 9   | 0   | 0   |
| 1993 | 1366                | 1295 | 871  | 549 | 223 | 121 |     |     |     | 1030 | 1028 |      | 0                   | 0   | 0   | 0   | 23  | 68  | 94  | 119 | 6   | 1   | 0   | 0   |
| 1994 | 1228                | 1171 | 704  | 540 | 143 | 17  | 9   | 3   | 82  | 419  | 872  | 1009 | 0                   | 0   | 0   | 4   | 66  | 182 | 256 | 334 | 111 | 0   | 0   | 0   |
| 1995 | 1144                | 847  | 876  | 696 | 447 | 115 | 5   | 5   | 191 | 514  | 828  | 1111 | 0                   | 0   | 1   | 0   | 0   | 109 | 262 | 365 | 105 | 5   | 0   | 0   |
| 1996 | 1367                | 959  | 1113 | 559 | 358 | 36  | 1   | 0   | 195 | 485  | 1080 | 1298 | 0                   | 0   | 0   | 2   | 30  | 158 | 249 | 234 | 43  | 0   | 0   | 0   |
| 1997 | 1310                | 909  | 810  | 732 | 327 | 15  | 9   | 19  | 116 | 433  | 864  | 1073 | 0                   | 0   | 0   | 0   | 7   | 130 | 259 | 214 | 130 | 23  | 0   | 0   |

## Grand Island

| Year | Heating Degree Days |      |      |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|------|---------------------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | Jan                 | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975 | 1302                | 1221 | 1052 | 524 | 127 | 31  | 0   | 0   | 178 | 296 | 870  | 1166 | 0                   | 0   | 0   | 2   | 49  | 158 | 373 | 384 | 66  | 28  | 0   | 0   |
| 1976 | 1251                | 791  | 808  | 354 | 198 | 11  | 0   | 0   | 95  | 551 | 944  | 1139 | 0                   | 0   | 0   | 9   | 29  | 196 | 387 | 344 | 111 | 12  | 0   | 0   |
| 1977 | 1461                | 861  | 729  | 280 | 15  | 0   | 0   | 1   | 47  | 380 | 768  | 1185 | 0                   | 0   | 0   | 24  | 85  | 268 | 437 | 214 | 77  | 0   | 0   | 0   |
| 1978 | 1632                | 1395 | 914  | 409 | 205 | 25  | 0   | 3   | 64  | 400 | 886  | 1438 | 0                   | 0   | 0   | 5   | 47  | 293 | 355 | 283 | 169 | 2   | 0   | 0   |
| 1979 | 1777                | 1431 | 866  | 492 | 258 | 38  | 9   | 10  | 49  | 366 | 915  | 978  | 0                   | 0   | 0   | 0   | 36  | 211 | 294 | 303 | 132 | 2   | 0   | 0   |
| 1980 | 1340                | 1191 | 946  | 420 | 176 | 11  | 0   | 2   | 71  | 420 | 694  | 1084 | 0                   | 0   | 0   | 20  | 56  | 261 | 493 | 377 | 133 | 9   | 0   | 0   |
| 1981 | 1113                | 934  | 716  | 221 | 255 | 7   | 9   | 0   | 80  | 439 | 713  | 1245 | 0                   | 0   | 0   | 25  | 15  | 259 | 356 | 219 | 74  | 0   | 0   | 0   |
| 1982 | 1612                | 1148 | 925  | 537 | 148 | 61  | 0   | 12  | 139 | 385 | 896  | 1120 | 0                   | 0   | 0   | 1   | 24  | 90  | 364 | 248 | 92  | 2   | 0   | 0   |
| 1983 | 1216                | 933  | 832  | 635 | 269 | 37  | 0   | 0   | 89  | 349 | 793  | 1751 | 0                   | 0   | 0   | 0   | 23  | 183 | 460 | 546 | 194 | 8   | 0   | 0   |
| 1984 | 1276                | 875  | 974  | 521 | 177 | 3   | 0   | 0   | 184 | 405 | 764  | 1185 | 0                   | 0   | 0   | 2   | 42  | 264 | 374 | 386 | 105 | 4   | 0   | 0   |
| 1985 | 1372                | 1147 | 664  | 319 | 76  | 39  | 0   | 13  | 217 | 399 | 1120 | 1334 | 0                   | 0   | 0   | 33  | 81  | 158 | 335 | 195 | 134 | 0   | 0   | 0   |
| 1986 | 962                 | 1035 | 587  | 392 | 108 | 0   | 0   | 17  | 49  | 403 | 882  | 1052 | 0                   | 0   | 10  | 1   | 30  | 306 | 407 | 193 | 95  | 1   | 0   | 0   |
| 1987 | 1071                | 793  | 789  | 356 | 68  | 7   | 0   | 32  | 82  | 527 | 708  | 1103 | 0                   | 0   | 0   | 30  | 99  | 273 | 442 | 233 | 76  | 4   | 1   | 0   |
| 1988 | 1441                | 1109 | 761  | 435 | 87  | 2   | 7   | 8   | 78  | 474 | 770  | 997  | 0                   | 0   | 0   | 2   | 111 | 366 | 332 | 351 | 111 | 0   | 0   | 0   |
| 1989 | 994                 | 1339 | 864  | 393 | 152 | 22  | 0   | 14  | 152 | 345 | 786  | 1368 | 0                   | 0   | 2   | 67  | 63  | 147 | 371 | 291 | 94  | 9   | 0   | 0   |
| 1990 | 956                 | 947  | 717  | 456 | 221 | 17  | 7   | 0   | 76  | 360 | 655  | 1303 | 0                   | 0   | 0   | 26  | 16  | 260 | 295 | 302 | 203 | 19  | 0   | 0   |
| 1991 | 1358                | 742  | 708  | 370 | 129 | 1   | 0   | 0   | 110 | 442 | 994  | 977  | 0                   | 0   | 0   | 22  | 108 | 312 | 351 | 306 | 160 | 11  | 0   | 0   |
| 1992 | 947                 | 778  | 686  | 433 | 170 | 23  | 10  | 25  | 92  | 381 | 959  | 1223 | 0                   | 0   | 0   | 13  | 55  | 103 | 172 | 156 | 87  | 13  | 0   | 0   |
| 1993 | 1468                | 1271 | 928  | 550 | 177 | 45  | 0   | 9   | 170 | 460 | 911  | 1028 | 0                   | 0   | 0   | 0   | 21  | 146 | 269 | 273 | 27  | 23  | 0   | 0   |
| 1994 | 1358                | 1280 | 728  | 493 | 126 | 9   | 1   | 9   | 93  | 335 | 745  | 1130 | 0                   | 0   | 0   | 20  | 110 | 274 | 209 | 234 | 159 | 1   | 0   | 0   |
| 1995 | 1237                | 855  | 788  | 581 | 325 | 40  | 5   | 4   | 162 | 418 | 834  | 1152 | 0                   | 0   | 0   | 0   | 0   | 181 | 379 | 408 | 81  | 14  | 0   | 0   |
| 1996 | 1427                | 999  | 1027 | 472 | 247 | 17  | 3   | 1   | 152 | 394 | 1004 | 1283 | 0                   | 0   | 0   | 4   | 44  | 238 | 251 | 207 | 86  | 18  | 0   | 0   |
| 1997 | 1325                | 972  | 722  | 616 | 261 | 3   | 5   | 15  | 66  | 411 | 860  | 1072 | 0                   | 0   | 0   | 0   | 15  | 223 | 374 | 248 | 111 | 55  | 0   | 0   |

# Heating and Cooling Degree Days, Selected Nebraska Cities, Monthly 1975-1997

## Holdrege

| Heating Degree Days |      |      |      |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|---------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Year                | Jan  | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975                | 1165 | 1142 | 983  | 471 | 137 | 30  | 2   | 1   | 143 | 299 | 910  | 1119 | 0                   | 0   | 0   | 12  | 43  | 140 | 318 | 330 | 71  | 25  | 0   | 0   |
| 1976                | 1239 | 768  | 786  | 386 | 206 | 10  | 0   | 0   | 92  | 534 | 930  | 1085 | 0                   | 0   | 0   | 1   | 27  | 198 | 364 | 340 | 95  | 9   | 0   | 0   |
| 1977                | 1403 | 809  | 710  | 288 | 25  | 0   | 0   | 3   | 27  | 335 | 788  | 1151 | 0                   | 0   | 0   | 8   | 45  | 284 | 409 | 228 | 105 | 0   | 0   | 0   |
| 1978                | 1570 | 1336 | 862  | 393 | 189 | 25  | 0   | 4   | 44  | 347 | 839  | 1286 | 0                   | 0   | 2   | 15  | 48  | 255 | 367 | 262 | 173 | 5   | 0   | 0   |
| 1979                | 1647 | 1211 | 802  | 447 | 210 | 26  | 8   | 12  | 38  | 303 | 911  | 940  | 0                   | 0   | 0   | 8   | 33  | 185 | 273 | 258 | 144 | 7   | 0   | 0   |
| 1980                | 1262 | 1191 | 989  | 459 | 161 | 14  | 0   | 8   | 68  | 402 | 682  | 1037 | 0                   | 0   | 0   | 9   | 38  | 239 | 440 | 324 | 106 | 13  | 0   | 0   |
| 1981                | 1047 | 942  | 713  | 265 | 279 | 27  | 4   | 0   | 60  | 426 | 706  | 1117 | 0                   | 0   | 0   | 23  | 6   | 196 | 312 | 234 | 84  | 0   | 0   | 0   |
| 1982                | 1461 | 1115 | 881  | 532 | 166 | 77  | 0   | 14  | 122 | 403 | 886  | 1084 | 0                   | 0   | 0   | 3   | 19  | 76  | 336 | 250 | 93  | 2   | 0   | 0   |
| 1983                | 1171 | 929  | 845  | 639 | 294 | 47  | 0   | 0   | 91  | 340 | 768  | 1714 | 0                   | 0   | 0   | 0   | 19  | 165 | 419 | 499 | 157 | 15  | 0   | 0   |
| 1984                | 1295 | 888  | 981  | 618 | 217 | 11  | 0   | 0   | 183 | 446 | 774  | 1160 | 0                   | 0   | 0   | 0   | 26  | 205 | 317 | 364 | 110 | 1   | 0   | 0   |
| 1985                | 1373 | 1142 | 701  | 339 | 86  | 52  | 0   | 13  | 223 | 422 | 1098 | 1351 | 0                   | 0   | 0   | 27  | 69  | 139 | 347 | 167 | 146 | 0   | 0   | 0   |
| 1986                | 931  | 975  | 595  | 390 | 127 | 0   | 0   | 11  | 39  | 393 | 842  | 1012 | 0                   | 0   | 10  | 3   | 24  | 285 | 380 | 200 | 103 | 0   | 0   | 0   |
| 1987                | 1034 | 765  | 829  | 384 | 73  | 2   | 5   | 32  | 78  | 467 | 677  | 1048 | 0                   | 0   | 0   | 30  | 73  | 268 | 360 | 246 | 64  | 5   | 0   | 0   |
| 1988                | 1376 | 1070 | 778  | 453 | 115 | 2   | 6   | 13  | 93  | 460 | 742  | 1000 | 0                   | 0   | 0   | 0   | 89  | 337 | 317 | 325 | 90  | 2   | 0   | 0   |
| 1989                | 1053 | 1277 | 907  | 396 | 189 | 49  | 5   | 10  | 184 | 360 | 799  | 1358 | 0                   | 0   | 1   | 51  | 51  | 107 | 317 | 217 | 95  | 11  | 0   | 0   |
| 1990                | 1027 | 953  | 754  | 491 | 258 | 15  | 11  | 2   | 69  | 416 | 691  | 1324 | 0                   | 0   | 0   | 14  | 11  | 254 | 280 | 252 | 188 | 9   | 0   | 0   |
| 1991                | 1353 | 757  | 751  | 400 | 155 | 0   | 0   | 3   | 119 | 421 | 1002 | 986  | 0                   | 0   | 0   | 7   | 77  | 269 | 350 | 273 | 132 | 8   | 0   | 0   |
| 1992                | 988  | 798  | 678  | 459 | 185 | 59  | 16  | 43  | 112 | 383 | 957  | 1318 | 0                   | 0   | 0   | 8   | 47  | 79  | 171 | 130 | 72  | 6   | 0   | 0   |
| 1993                | 1474 | 1254 | 916  | 579 | 212 | 66  | 0   | 14  | 191 | 444 | 942  | 1021 | 0                   | 0   | 0   | 0   | 17  | 114 | 237 | 239 | 24  | 16  | 0   | 0   |
| 1994                | 1305 | 1254 | 720  | 497 | 148 | 11  | 1   | 0   | 101 | 319 | 803  | 1078 | 0                   | 0   | 0   | 15  | 75  | 254 | 214 | 240 | 112 | 4   | 0   | 0   |
| 1995                | 1227 | 826  | 840  | 605 | 375 | 46  | 12  | 8   | 166 | 426 | 847  | 1129 | 0                   | 0   | 0   | 0   | 0   | 134 | 333 | 392 | 82  | 9   | 0   | 0   |
| 1996                | 1402 | 984  | 1055 | 501 | 279 | 10  | 1   | 2   | 162 | 403 | 1000 | 1243 | 0                   | 0   | 0   | 5   | 51  | 213 | 244 | 177 | 56  | 3   | 0   | 0   |
| 1997                | 1302 | 985  | 768  | 613 | 292 | 8   | 7   | 17  | 81  | 420 | 859  | 1064 | 0                   | 0   | 0   | 0   | 8   | 179 | 330 | 229 | 110 | 43  | 0   | 0   |

## Lincoln

| Heating Degree Days |      |      |      |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|---------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Year                | Jan  | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975                | 1338 | 1250 | 1059 | 495 | 117 | 20  | 0   | 0   | 168 | 269 | 759  | 1079 | 0                   | 0   | 0   | 4   | 76  | 204 | 428 | 459 | 74  | 37  | 0   | 0   |
| 1976                | 1255 | 810  | 792  | 328 | 206 | 11  | 0   | 0   | 83  | 553 | 979  | 1254 | 0                   | 0   | 0   | 15  | 26  | 216 | 413 | 354 | 144 | 10  | 0   | 0   |
| 1977                | 1604 | 927  | 659  | 256 | 11  | 0   | 0   | 0   | 42  | 413 | 793  | 1230 | 0                   | 0   | 0   | 14  | 14  | 124 | 289 | 501 | 231 | 91  | 0   | 0   |
| 1978                | 1703 | 1447 | 972  | 410 | 193 | 27  | 0   | 5   | 62  | 392 | 848  | 1315 | 0                   | 0   | 5   | 7   | 46  | 230 | 371 | 320 | 193 | 3   | 0   | 0   |
| 1979                | 1787 | 1454 | 816  | 463 | 197 | 16  | 3   | 7   | 42  | 324 | 825  | 1007 | 0                   | 0   | 0   | 7   | 42  | 235 | 320 | 330 | 160 | 4   | 0   | 0   |
| 1980                | 1281 | 1241 | 912  | 387 | 133 | 5   | 0   | 0   | 80  | 402 | 666  | 1120 | 0                   | 0   | 0   | 13  | 73  | 293 | 542 | 433 | 142 | 1   | 0   | 0   |
| 1981                | 1133 | 933  | 680  | 209 | 192 | 0   | 1   | 3   | 71  | 393 | 678  | 1237 | 0                   | 0   | 0   | 29  | 37  | 308 | 430 | 237 | 102 | 0   | 0   | 0   |
| 1982                | 1639 | 1159 | 880  | 501 | 88  | 52  | 0   | 3   | 118 | 324 | 840  | 1081 | 0                   | 0   | 0   | 8   | 45  | 111 | 438 | 292 | 124 | 10  | 0   | 0   |
| 1983                | 1173 | 931  | 785  | 584 | 238 | 25  | 0   | 0   | 75  | 326 | 763  | 1758 | 0                   | 0   | 0   | 0   | 30  | 235 | 505 | 580 | 211 | 20  | 0   | 0   |
| 1984                | 1334 | 841  | 970  | 496 | 196 | 3   | 0   | 0   | 167 | 366 | 737  | 1142 | 0                   | 0   | 0   | 5   | 24  | 264 | 395 | 412 | 114 | 9   | 0   | 0   |
| 1985                | 1385 | 1186 | 687  | 326 | 72  | 25  | 0   | 8   | 198 | 343 | 1071 | 1345 | 0                   | 0   | 0   | 30  | 63  | 152 | 351 | 210 | 162 | 2   | 0   | 0   |
| 1986                | 996  | 1079 | 602  | 353 | 95  | 0   | 0   | 15  | 34  | 344 | 874  | 1064 | 0                   | 0   | 12  | 9   | 43  | 320 | 430 | 209 | 148 | 0   | 0   | 0   |
| 1987                | 1090 | 773  | 713  | 331 | 51  | 2   | 0   | 17  | 51  | 507 | 626  | 1006 | 0                   | 0   | 0   | 41  | 130 | 333 | 451 | 267 | 78  | 2   | 0   | 0   |
| 1988                | 1341 | 1115 | 728  | 416 | 33  | 2   | 3   | 6   | 44  | 438 | 706  | 1025 | 0                   | 0   | 0   | 4   | 117 | 396 | 408 | 427 | 131 | 3   | 0   | 0   |
| 1989                | 968  | 1359 | 811  | 374 | 140 | 15  | 0   | 3   | 139 | 343 | 807  | 1424 | 0                   | 0   | 5   | 75  | 63  | 188 | 418 | 321 | 95  | 21  | 0   | 0   |
| 1990                | 960  | 923  | 680  | 443 | 183 | 10  | 0   | 1   | 55  | 319 | 604  | 1283 | 0                   | 0   | 0   | 34  | 17  | 326 | 363 | 370 | 227 | 17  | 3   | 0   |
| 1991                | 1449 | 760  | 641  | 330 | 104 | 0   | 0   | 0   | 106 | 391 | 994  | 964  | 0                   | 0   | 5   | 22  | 162 | 355 | 414 | 356 | 191 | 25  | 0   | 0   |
| 1992                | 941  | 784  | 654  | 405 | 150 | 11  | 0   | 12  | 90  | 355 | 926  | 1128 | 0                   | 0   | 0   | 9   | 71  | 152 | 250 | 182 | 111 | 12  | 0   | 0   |
| 1993                | 1395 | 1182 | 885  | 525 | 164 | 49  | 0   | 4   | 169 | 471 | 890  | 1050 | 0                   | 0   | 0   | 0   | 22  | 157 | 343 | 317 | 24  | 18  | 0   | 0   |
| 1994                | 1362 | 1205 | 721  | 458 | 146 | 9   | 3   | 10  | 100 | 348 | 729  | 1129 | 0                   | 0   | 0   | 23  | 88  | 273 | 246 | 225 | 140 | 3   | 0   | 0   |
| 1995                | 1275 | 906  | 787  | 513 | 254 | 27  | 3   | 0   | 140 | 375 | 895  | 1140 | 0                   | 0   | 0   | 0   | 4   | 210 | 416 | 457 | 115 | 14  | 0   | 0   |
| 1996                | 1440 | 1006 | 984  | 454 | 215 | 20  | 3   | 0   | 129 | 346 | 965  | 1288 | 0                   | 0   | 0   | 9   | 47  | 268 | 284 | 234 | 81  | 18  | 0   | 0   |
| 1997                | 1369 | 977  | 703  | 590 | 243 | 3   | 3   | 9   | 49  | 405 | 871  | 1095 | 0                   | 0   | 0   | 0   | 19  | 239 | 400 | 282 | 134 | 68  | 0   | 0   |

## McCook

| Heating Degree Days |      |      |     |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|---------------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Year                | Jan  | Feb  | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975                | 1060 | 1121 | 950 | 484 | 165 | 39  | 0   | 4   | 139 | 341 | 898  | 1089 | 0                   | 0   | 0   | 5   | 21  | 128 | 396 | 317 | 93  | 22  | 0   | 0   |
| 1976                | 1197 | 736  | 773 | 358 | 231 | 14  | 0   | 2   | 85  | 495 | 857  | 983  | 0                   | 0   | 0   | 1   | 34  | 194 | 415 | 371 | 125 | 17  | 0   | 0   |
| 1977                | 1348 | 764  | 720 | 312 | 41  | 0   | 0   | 4   | 16  | 320 | 705  | 1066 | 0                   | 0   | 0   | 22  | 51  | 280 | 433 | 249 | 121 | 3   | 0   | 0   |
| 1978                | 1442 | 1249 | 779 | 397 | 223 | 29  | 0   | 7   | 50  | 373 | 880  | 1289 | 0                   | 0   | 2   | 8   | 35  | 259 | 427 | 292 | 180 | 12  | 0   | 0   |
| 1979                | 1614 | 1175 | 794 | 449 | 277 | 50  | 7   | 20  | 48  | 294 | 929  | 895  | 0                   | 0   | 0   | 1   | 35  | 168 | 307 | 254 | 167 | 14  | 0   | 0   |
| 1980                | 1236 | 1105 | 947 | 502 | 190 | 15  | 0   | 2   | 44  | 390 | 699  | 944  | 0                   | 0   | 0   | 10  | 27  | 236 | 478 | 366 | 119 | 3   | 0   | 0   |
| 1981                | 1029 | 927  | 731 | 273 | 290 | 14  | 3   | 4   | 71  | 425 | 697  | 1054 | 0                   | 0   | 0   | 16  | 16  | 229 | 350 | 224 | 89  | 7   | 0   | 0   |
| 1982                | 1353 | 1033 | 775 | 452 | 124 | 61  | 0   | 14  | 120 | 426 | 907  | 1086 | 0                   | 0   | 0   | 11  | 18  | 88  | 353 | 297 | 87  | 1   | 0   | 0   |
| 1983                | 1156 | 838  | 830 | 662 | 337 | 70  | 0   | 0   | 101 | 371 | 750  | 1708 | 0                   | 0   | 0   | 0   | 13  | 123 | 433 | 489 | 170 | 9   | 0   | 0   |
| 1984                | 1292 | 865  | 932 | 636 | 201 | 20  | 0   | 0   | 185 | 489 | 781  | 1161 | 0                   | 0   | 0   | 0   | 34  | 183 | 326 | 351 | 86  | 3   | 0   | 0   |
| 1985                | 1320 | 1132 | 706 | 362 | 128 | 65  | 0   | 14  | 220 | 474 | 1084 | 1295 | 0                   | 0   | 0   | 19  | 54  | 124 | 338 | 210 | 142 | 0   | 0   | 0   |
| 1986                | 901  | 936  | 595 | 388 | 196 | 4   | 0   | 3   | 50  | 417 | 744  | 1043 | 0                   | 0   | 0   | 0   | 23  | 241 | 360 | 233 | 89  | 0   | 0   | 0   |
| 1987                | 1064 | 780  | 831 | 420 | 96  | 5   | 10  | 33  | 105 | 489 | 716  | 1060 | 0                   | 0   | 0   | 20  | 62  | 245 | 384 | 260 | 65  | 3   | 0   | 0   |
| 1988                | 1402 | 1003 | 764 | 488 | 136 | 3   | 0   | 9   | 88  | 429 | 705  | 947  | 0                   | 0   | 0   | 0   | 78  | 392 | 364 | 366 | 102 | 2   | 0   | 0   |
| 1989                | 991  | 1182 | 843 | 366 | 166 | 48  | 0   | 4   | 171 | 365 | 729  | 1282 | 0                   | 0   | 0   | 34  | 58  | 126 | 356 | 259 | 106 | 8   | 0   | 0   |
| 1990                | 994  | 934  | 718 | 434 | 253 | 6   | 9   | 0   | 70  | 387 | 667  | 1264 | 0                   | 0   | 0   | 15  | 25  | 278 | 336 | 318 | 213 | 8   | 0   | 0   |
| 1991                | 1236 | 710  | 719 | 406 | 146 | 1   | 5   | 2   | 97  | 403 | 925  | 944  | 0                   | 0   | 0   | 7   | 62  | 280 | 381 | 299 | 124 | 8   | 0   | 0   |
| 1992                | 1086 | 754  | 640 | 400 | 158 | 43  | 8   | 40  | 78  | 360 | 931  | 1258 | 0                   | 0   | 0   | 6   | 56  | 97  | 217 | 156 | 80  | 3   | 0   | 0   |
| 1993                | 1378 | 1209 | 825 | 530 | 175 | 55  | 0   | 9   | 195 | 412 | 912  | 980  | 0                   | 0   | 0   | 0   | 24  | 153 | 246 | 257 | 32  | 13  | 0   | 0   |
| 1994                | 1180 | 1171 | 657 | 446 | 114 | 3   | 3   | 0   | 70  | 325 | 749  | 992  | 0                   | 0   | 0   | 20  | 92  | 315 | 227 | 309 | 113 | 2   | 0   | 0   |
| 1995                | 1128 | 754  | 844 | 570 | 339 | 46  | 15  | 5   | 147 | 432 | 733  | 1047 | 0                   | 0   | 0   | 0   | 0   | 163 | 361 | 452 | 102 | 4   | 0   | 0   |
| 1996                | 1275 | 911  | 976 | 436 | 250 | 13  | 0   | 0   | 159 | 390 | 928  | 1155 | 0                   | 0   | 0   | 4   | 58  | 210 | 287 | 208 | 60  | 14  | 0   | 0   |
| 1997                | 1201 | 943  | 704 | 575 | 223 | 5   |     | 13  | 66  | 420 | 809  | 1045 | 0                   | 0   | 0   | 0   | 16  | 199 |     | 282 | 141 | 40  | 0   | 0   |

# Heating and Cooling Degree Days, Selected Nebraska Cities, Monthly 1975-1997

## Norfolk

| Heating Degree Days |      |      |      |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|---------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Year                | Jan  | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975                | 1369 | 1275 | 1107 | 604 | 105 | 25  | 2   | 0   | 207 | 326 | 877  | 1247 | 0                   | 0   | 0   | 1   | 67  | 171 | 398 | 359 | 60  | 24  | 0   | 0   |
| 1976                | 1343 | 900  | 854  | 352 | 191 | 15  | 0   | 1   | 108 | 587 | 1018 | 1287 | 0                   | 0   | 0   | 11  | 32  | 200 | 387 | 324 | 100 | 6   | 0   | 0   |
| 1977                | 1624 | 951  | 733  | 287 | 6   | 0   | 0   | 5   | 45  | 423 | 882  | 1318 | 0                   | 0   | 0   | 30  | 101 | 241 | 415 | 174 | 73  | 0   | 0   | 0   |
| 1978                | 1756 | 1477 | 965  | 471 | 187 | 28  | 1   | 9   | 49  | 434 | 900  | 1476 | 0                   | 0   | 4   | 0   | 56  | 244 | 330 | 257 | 176 | 2   | 0   | 0   |
| 1979                | 1836 | 1506 | 988  | 533 | 248 | 33  | 3   | 14  | 56  | 430 | 954  | 1046 | 0                   | 0   | 0   | 2   | 39  | 212 | 297 | 268 | 128 | 0   | 0   | 0   |
| 1980                | 1332 | 1258 | 966  | 423 | 174 | 8   | 0   | 1   | 100 | 473 | 738  | 1190 | 0                   | 0   | 0   | 23  | 61  | 236 | 440 | 334 | 115 | 5   | 0   | 0   |
| 1981                | 1180 | 995  | 741  | 238 | 235 | 5   | 9   | 1   | 98  | 464 | 727  | 1283 | 0                   | 0   | 0   | 29  | 19  | 229 | 357 | 206 | 70  | 0   | 0   | 0   |
| 1982                | 1730 | 1188 | 958  | 537 | 123 | 60  | 0   | 10  | 140 | 389 | 915  | 1132 | 0                   | 0   | 0   | 2   | 26  | 76  | 336 | 255 | 80  | 2   | 0   | 0   |
| 1983                | 1246 | 991  | 858  | 637 | 258 | 38  | 0   | 0   | 120 | 391 | 838  | 1798 | 0                   | 0   | 0   | 0   | 23  | 188 | 416 | 501 | 175 | 3   | 0   | 0   |
| 1984                | 1302 | 969  | 1109 | 563 | 220 | 6   | 0   | 1   | 196 | 375 | 775  | 1260 | 0                   | 0   | 0   | 2   | 23  | 226 | 326 | 365 | 76  | 6   | 0   | 0   |
| 1985                | 1451 | 1160 | 730  | 344 | 79  | 52  | 1   | 15  | 241 | 424 | 1195 | 1469 | 0                   | 0   | 0   | 34  | 73  | 135 | 283 | 177 | 119 | 0   | 0   | 0   |
| 1986                | 1048 | 1140 | 692  | 434 | 127 | 3   | 0   | 26  | 85  | 413 | 943  | 1114 | 0                   | 0   | 4   | 1   | 30  | 249 | 372 | 159 | 56  | 0   | 0   | 0   |
| 1987                | 1161 | 817  | 783  | 350 | 81  | 9   | 2   | 45  | 89  | 575 | 726  | 1110 | 0                   | 0   | 0   | 32  | 119 | 259 | 405 | 207 | 67  | 1   | 0   | 0   |
| 1988                | 1508 | 1218 | 783  | 469 | 61  | 6   | 4   | 14  | 96  | 520 | 790  | 1101 | 0                   | 0   | 0   | 2   | 111 | 349 | 333 | 345 | 97  | 0   | 0   | 0   |
| 1989                | 1063 | 1392 | 956  | 417 | 190 | 45  | 3   | 7   | 156 | 402 | 906  | 1531 | 0                   | 0   | 2   | 69  | 39  | 150 | 382 | 278 | 89  | 6   | 0   | 0   |
| 1990                | 1035 | 1002 | 759  | 500 | 238 | 19  | 4   | 0   | 87  | 425 | 739  | 1379 | 0                   | 0   | 0   | 38  | 10  | 263 | 280 | 292 | 178 | 16  | 0   | 0   |
| 1991                | 1477 | 843  | 755  | 381 | 149 | 1   | 0   | 0   | 130 | 489 | 1080 | 1048 | 0                   | 0   | 0   | 21  | 140 | 309 | 348 | 302 | 148 | 6   | 0   | 0   |
| 1992                | 1001 | 812  | 717  | 492 | 176 | 21  | 13  | 42  | 119 | 426 | 949  | 1259 | 0                   | 0   | 0   | 9   | 61  | 114 | 130 | 131 | 60  | 12  | 0   | 0   |
| 1993                | 1460 | 1308 | 962  | 545 | 167 | 52  | 0   | 11  | 188 | 473 | 952  | 1097 | 0                   | 0   | 0   | 0   | 25  | 141 | 263 | 259 | 23  | 20  | 0   | 0   |
| 1994                | 1472 | 1305 | 742  | 487 | 115 | 14  | 0   | 12  | 75  | 309 | 759  | 1209 | 0                   | 0   | 0   | 27  | 103 | 271 | 215 | 198 | 143 | 2   | 0   | 0   |
| 1995                | 1303 | 934  | 870  | 572 | 279 | 45  | 4   | 0   | 166 | 427 | 898  | 1178 | 0                   | 0   | 0   | 0   | 0   | 197 | 368 | 408 | 87  | 17  | 0   | 0   |
| 1996                | 1501 | 1051 | 1056 | 553 | 276 | 31  | 6   | 2   | 177 | 434 | 1080 | 1474 | 0                   | 0   | 0   | 0   | 36  | 209 | 198 | 187 | 65  | 10  | 0   | 0   |
| 1997                | 1477 | 1035 | 776  | 659 | 297 | 8   | 6   | 21  | 81  | 424 | 943  | 1117 | 0                   | 0   | 0   | 0   | 8   | 196 | 311 | 227 | 99  | 50  | 0   | 0   |

## North Platte

| Heating Degree Days |      |      |      |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|---------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Year                | Jan  | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975                | 1216 | 1160 | 1032 | 558 | 247 | 62  | 6   | 0   | 228 | 437 | 1035 | 1191 | 0                   | 0   | 0   | 10  | 11  | 89  | 311 | 260 | 39  | 7   | 0   | 0   |
| 1976                | 1460 | 929  | 956  | 521 | 363 | 70  | 0   | 13  | 178 | 608 | 1028 | 1133 | 0                   | 0   | 0   | 0   | 5   | 62  | 247 | 192 | 27  | 0   | 0   | 0   |
| 1977                | 1493 | 920  | 858  | 395 | 81  | 2   | 2   | 34  | 96  | 458 | 869  | 1236 | 0                   | 0   | 0   | 2   | 26  | 174 | 305 | 149 | 64  | 0   | 0   | 0   |
| 1978                | 1662 | 1400 | 924  | 491 | 275 | 71  | 5   | 24  | 99  | 488 | 982  | 1560 | 0                   | 0   | 0   | 1   | 21  | 174 | 307 | 218 | 117 | 5   | 0   | 0   |
| 1979                | 1828 | 1335 | 862  | 491 | 259 | 56  | 4   | 11  | 52  | 341 | 975  | 957  | 0                   | 0   | 0   | 0   | 27  | 156 | 294 | 262 | 123 | 0   | 0   | 0   |
| 1980                | 1233 | 1102 | 909  | 439 | 166 | 10  | 0   | 6   | 107 | 491 | 780  | 1019 | 0                   | 0   | 0   | 10  | 27  | 243 | 411 | 289 | 74  | 0   | 0   | 0   |
| 1981                | 1089 | 1000 | 762  | 283 | 318 | 26  | 9   | 4   | 101 | 492 | 749  | 1179 | 0                   | 0   | 0   | 10  | 9   | 141 | 288 | 168 | 47  | 1   | 0   | 0   |
| 1982                | 1479 | 1030 | 885  | 601 | 239 | 111 | 0   | 18  | 160 | 484 | 946  | 1138 | 0                   | 0   | 0   | 0   | 8   | 70  | 314 | 276 | 68  | 0   | 0   | 0   |
| 1983                | 1167 | 833  | 854  | 672 | 343 | 90  | 2   | 0   | 128 | 419 | 840  | 1780 | 0                   | 0   | 0   | 0   | 8   | 103 | 331 | 412 | 128 | 1   | 0   | 0   |
| 1984                | 1379 | 915  | 953  | 647 | 236 | 33  | 0   | 0   | 247 | 519 | 829  | 1312 | 0                   | 0   | 0   | 0   | 13  | 110 | 252 | 317 | 69  | 0   | 0   | 0   |
| 1985                | 1481 | 1168 | 752  | 393 | 156 | 83  | 0   | 23  | 252 | 502 | 1205 | 1416 | 0                   | 0   | 0   | 14  | 32  | 100 | 326 | 189 | 100 | 0   | 0   | 0   |
| 1986                | 1029 | 1060 | 634  | 479 | 219 | 2   | 0   | 14  | 98  | 446 | 878  | 1074 | 0                   | 0   | 0   | 3   | 11  | 201 | 334 | 217 | 43  | 0   | 0   | 0   |
| 1987                | 1093 | 810  | 868  | 420 | 105 | 15  | 13  | 36  | 139 | 551 | 796  | 1152 | 0                   | 0   | 0   | 16  | 48  | 176 | 352 | 208 | 35  | 0   | 0   | 0   |
| 1988                | 1501 | 1109 | 839  | 490 | 170 | 3   | 0   | 13  | 128 | 498 | 803  | 1067 | 0                   | 0   | 0   | 1   | 41  | 293 | 301 | 282 | 46  | 0   | 0   | 0   |
| 1989                | 1072 | 1316 | 902  | 430 | 211 | 67  | 2   | 7   | 180 | 437 | 815  | 1374 | 0                   | 0   | 0   | 21  | 35  | 99  | 295 | 219 | 67  | 2   | 0   | 0   |
| 1990                | 1061 | 948  | 771  | 502 | 259 | 15  | 15  | 1   | 84  | 457 | 797  | 1331 | 0                   | 0   | 0   | 15  | 10  | 205 | 291 | 289 | 165 | 5   | 0   | 0   |
| 1991                | 1290 | 762  | 754  | 466 | 149 | 5   | 3   | 1   | 148 | 508 | 977  | 971  | 0                   | 0   | 0   | 3   | 59  | 194 | 317 | 276 | 112 | 2   | 0   | 0   |
| 1992                | 1010 | 797  | 714  | 436 | 219 | 45  | 18  | 60  | 113 | 466 | 970  | 1310 | 0                   | 0   | 0   | 13  | 31  | 54  | 130 | 116 | 60  | 1   | 0   | 0   |
| 1993                | 1436 | 1311 | 862  | 578 | 204 | 73  | 2   | 24  | 218 | 513 | 965  | 1066 | 0                   | 0   | 0   | 0   | 15  | 88  | 212 | 194 | 24  | 6   | 0   | 0   |
| 1994                | 1263 | 1151 | 724  | 517 | 131 | 5   | 3   | 8   | 90  | 395 | 820  | 1106 | 0                   | 0   | 0   | 10  | 63  | 213 | 183 | 251 | 111 | 0   | 0   | 0   |
| 1995                | 1180 | 863  | 840  | 631 | 377 | 67  | 17  | 2   | 167 | 517 | 786  | 1116 | 0                   | 0   | 0   | 0   | 0   | 125 | 298 | 449 | 103 | 4   | 0   | 0   |
| 1996                | 1359 | 1004 | 1037 | 527 | 283 | 40  | 3   | 1   | 214 | 503 | 1021 | 1233 | 0                   | 0   | 0   | 0   | 38  | 149 | 204 | 165 | 44  | 3   | 0   | 0   |
| 1997                | 1284 | 1001 | 782  | 673 | 306 | 14  | 10  | 17  | 113 | 452 | 926  | 1133 | 0                   | 0   | 0   | 0   | 5   | 156 | 295 | 206 | 96  | 29  | 0   | 0   |

## O'Neill

| Heating Degree Days |      |      |      |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|---------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Year                | Jan  | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975                | 1306 | 1270 | 1084 | 588 | 167 | 58  | 14  | 1   | 184 | 382 | 979  | 1291 | 0                   | 0   | 0   | 10  | 42  | 92  | 281 | 258 | 64  | 9   | 0   | 0   |
| 1976                | 1448 | 946  | 958  | 424 | 232 | 38  | 2   | 4   | 122 | 586 | 1041 | 1202 | 0                   | 0   | 0   | 3   | 20  | 140 | 302 | 318 | 79  | 5   | 0   | 0   |
| 1977                | 1587 | 928  | 811  | 326 | 33  | 1   | 0   | 7   | 79  | 399 | 902  | 1330 | 0                   | 0   | 0   | 16  | 79  | 209 | 336 | 177 | 64  | 0   | 0   | 0   |
| 1978                | 1825 | 1464 | 978  | 489 | 189 | 32  | 0   | 19  | 48  | 426 | 948  | 1485 | 0                   | 0   | 2   | 0   | 43  | 203 | 299 | 245 | 171 | 3   | 0   | 0   |
| 1979                | 1851 | 1432 | 951  | 526 | 305 | 46  | 5   | 16  | 58  | 417 | 1033 | 1062 | 0                   | 0   | 0   | 0   | 25  | 151 | 263 | 224 | 127 | 1   | 0   | 0   |
| 1980                | 1358 | 1188 | 980  | 443 | 186 | 12  | 0   | 5   | 62  | 455 | 752  | 1131 | 0                   | 0   | 0   | 21  | 48  | 238 | 484 | 340 | 113 | 16  | 0   | 0   |
| 1981                | 1124 | 978  | 747  | 236 | 229 | 8   | 17  | 2   | 82  | 463 | 749  | 1352 | 0                   | 0   | 0   | 29  | 19  | 208 | 346 | 215 | 77  | 0   | 0   | 0   |
| 1982                | 1738 | 1149 | 971  | 585 | 155 | 62  | 0   | 4   | 157 | 409 | 971  | 1129 | 0                   | 0   | 0   | 3   | 22  | 62  | 376 | 306 | 90  | 0   | 0   | 0   |
| 1983                | 1229 | 973  | 904  | 684 | 280 | 44  | 1   | 0   | 113 | 396 | 872  | 1867 | 0                   | 0   | 0   | 0   | 17  | 171 | 385 | 490 | 173 | 8   | 0   | 0   |
| 1984                | 1319 | 951  | 1080 | 602 | 242 | 18  | 3   | 0   | 221 | 439 | 803  | 1283 | 0                   | 0   | 0   | 0   | 24  | 167 | 277 | 370 | 92  | 5   | 0   | 0   |
| 1985                | 1449 | 1163 | 748  | 351 | 98  | 82  | 7   | 17  | 259 | 414 | 1284 | 1463 | 0                   | 0   | 0   | 32  | 58  | 134 | 313 | 163 | 125 | 0   | 0   | 0   |
| 1986                | 1048 | 1137 | 682  | 478 | 150 | 36  | 0   | 23  | 102 | 397 | 929  | 1065 | 0                   | 0   | 0   | 0   | 32  | 258 | 401 | 216 | 21  | 0   | 0   | 0   |
| 1987                | 1112 | 816  | 821  | 348 | 75  | 10  | 3   | 40  | 132 | 553 | 793  | 1198 | 0                   | 0   | 0   | 26  | 123 | 268 | 439 | 216 | 44  | 0   | 0   | 0   |
| 1988                | 1711 | 1308 | 882  | 527 | 160 | 2   | 3   | 16  | 171 | 557 | 834  | 1095 | 0                   | 0   | 0   | 5   | 79  | 327 | 331 | 308 | 51  | 0   | 0   | 0   |
| 1989                | 1093 | 1450 | 1051 | 461 | 177 | 55  | 5   | 4   | 151 | 452 | 852  | 1533 | 0                   | 0   | 0   | 32  | 26  | 141 | 386 | 290 | 108 | 1   | 0   | 0   |
| 1990                | 1050 | 997  | 851  | 555 | 278 | 27  | 27  | 0   | 117 | 464 | 813  | 1453 | 0                   | 0   | 0   | 17  | 12  | 215 | 246 | 317 | 161 | 7   | 0   | 0   |
| 1991                | 1463 | 884  | 837  | 448 | 214 | 5   | 0   | 0   | 156 | 537 | 1123 | 1089 | 0                   | 0   | 0   | 4   | 76  | 260 | 339 | 310 | 138 | 12  | 0   | 0   |
| 1992                | 1048 | 882  | 807  | 611 | 214 | 54  | 44  | 67  | 148 | 459 | 1013 | 1356 | 0                   | 0   | 0   | 0   | 40  | 53  | 94  | 133 | 45  | 11  | 0   | 0   |
| 1993                | 1535 | 1371 | 968  | 613 | 243 | 87  | 4   | 24  | 248 | 508 | 1028 | 1144 | 0                   | 0   | 0   | 0   | 8   | 100 | 194 | 213 | 17  | 8   | 0   | 0   |
| 1994                | 1507 | 1371 | 813  | 573 | 176 | 20  | 4   | 24  | 248 | 508 | 1028 | 1144 | 0                   | 0   | 0   | 5   | 85  | 203 | 195 | 187 | 106 | 0   | 0   | 0   |
| 1995                | 1507 | 1371 | 813  | 573 | 176 | 20  | 11  | 11  | 209 | 543 | 984  | 1203 | 0                   | 0   | 0   | 0   | 1   | 156 | 326 | 343 | 63  | 3   | 0   | 0   |
| 1996                | 1565 | 1141 | 1160 | 639 | 332 | 31  | 4   | 0   | 219 | 490 | 1173 | 1499 | 0                   | 0   | 0   | 1   | 26  | 170 | 198 | 209 | 84  | 1   | 0   | 0   |
| 1997                | 1520 | 1081 | 880  | 706 | 360 | 13  | 14  | 21  | 111 | 464 | 970  | 1120 | 0                   | 0   | 0   | 0   | 11  | 160 | 339 | 219 | 99  | 36  | 0   | 0   |

# **Heating and Cooling Degree Days, Selected Nebraska Cities, Monthly 1975-1997** **Omaha-Eppley Airfield**

| Year | Heating Degree Days |      |      |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|------|---------------------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | Jan                 | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975 | 1311                | 1189 | 1024 | 469 | 72  | 11  | 0   | 0   | 141 | 251 | 695  | 1051 | 0                   | 0   | 0   | 7   | 115 | 242 | 441 | 464 | 76  | 44  | 0   | 0   |
| 1976 | 1219                | 791  | 757  | 261 | 177 | 4   | 0   | 0   | 61  | 522 | 947  | 1265 | 0                   | 0   | 0   | 21  | 34  | 240 | 440 | 358 | 139 | 17  | 0   | 0   |
| 1977 | 1598                | 883  | 579  | 219 | 10  | 1   | 0   | 1   | 28  | 361 | 754  | 1196 | 0                   | 0   | 0   | 45  | 179 | 310 | 489 | 236 | 105 | 0   | 0   | 0   |
| 1978 | 1637                | 1375 | 910  | 372 | 160 | 17  | 0   | 0   | 39  | 350 | 754  | 1255 | 0                   | 0   | 7   | 5   | 67  | 287 | 386 | 333 | 231 | 5   | 0   | 0   |
| 1979 | 1676                | 1333 | 775  | 451 | 156 | 12  | 1   | 6   | 65  | 354 | 867  | 1070 | 0                   | 0   | 0   | 8   | 64  | 249 | 344 | 345 | 122 | 2   | 0   | 0   |
| 1980 | 1318                | 1290 | 987  | 440 | 158 | 4   | 0   | 3   | 108 | 491 | 735  | 1198 | 0                   | 0   | 0   | 15  | 61  | 254 | 459 | 368 | 107 | 0   | 0   | 0   |
| 1981 | 1259                | 1018 | 743  | 241 | 221 | 0   | 7   | 3   | 85  | 452 | 723  | 1299 | 0                   | 0   | 0   | 24  | 29  | 235 | 372 | 196 | 85  | 0   | 0   | 0   |
| 1982 | 1721                | 1183 | 930  | 518 | 102 | 56  | 0   | 13  | 115 | 315 | 829  | 1131 | 0                   | 0   | 0   | 5   | 43  | 78  | 383 | 252 | 112 | 12  | 0   | 0   |
| 1983 | 1240                | 971  | 854  | 638 | 278 | 37  | 0   | 0   | 102 | 405 | 789  | 1786 | 0                   | 0   | 0   | 0   | 20  | 183 | 453 | 519 | 167 | 17  | 0   | 0   |
| 1984 | 1401                | 916  | 1071 | 552 | 243 | 7   | 0   | 3   | 184 | 391 | 766  | 1166 | 0                   | 0   | 0   | 6   | 22  | 220 | 320 | 366 | 96  | 4   | 0   | 0   |
| 1985 | 1416                | 1153 | 666  | 325 | 88  | 45  | 0   | 13  | 217 | 378 | 1089 | 1501 | 0                   | 0   | 0   | 30  | 44  | 116 | 290 | 156 | 137 | 1   | 0   | 0   |
| 1986 | 1095                | 1176 | 689  | 389 | 134 | 1   | 0   | 15  | 40  | 338 | 913  | 1096 | 0                   | 0   | 10  | 5   | 26  | 276 | 408 | 181 | 133 | 0   | 0   | 0   |
| 1987 | 1122                | 784  | 685  | 322 | 67  | 7   | 1   | 33  | 67  | 512 | 639  | 1048 | 0                   | 0   | 0   | 39  | 145 | 292 | 407 | 235 | 69  | 2   | 1   | 0   |
| 1988 | 1353                | 1185 | 748  | 433 | 29  | 6   | 1   | 7   | 56  | 488 | 744  | 1095 | 0                   | 0   | 0   | 5   | 109 | 351 | 364 | 394 | 99  | 3   | 0   | 0   |
| 1989 | 1002                | 1368 | 844  | 380 | 143 | 23  | 0   | 7   | 140 | 356 | 855  | 1460 | 0                   | 0   | 10  | 77  | 68  | 159 | 395 | 306 | 89  | 19  | 0   | 0   |
| 1990 | 973                 | 935  | 696  | 460 | 206 | 15  | 4   | 1   | 75  | 371 | 662  | 1350 | 0                   | 0   | 0   | 41  | 9   | 277 | 316 | 327 | 199 | 12  | 4   | 0   |
| 1991 | 1506                | 860  | 695  | 338 | 108 | 0   | 0   | 0   | 123 | 402 | 1027 | 1022 | 0                   | 0   | 5   | 21  | 184 | 295 | 345 | 295 | 161 | 9   | 0   | 0   |
| 1992 | 999                 | 816  | 656  | 425 | 154 | 11  | 2   | 26  | 114 | 359 | 881  | 1141 | 0                   | 0   | 0   | 7   | 63  | 150 | 198 | 136 | 90  | 11  | 0   | 0   |
| 1993 | 1403                | 1192 | 904  | 514 | 140 | 34  | 0   | 1   | 171 | 448 | 895  | 1097 | 0                   | 0   | 0   | 0   | 35  | 188 | 322 | 297 | 21  | 6   | 0   | 0   |
| 1994 | 1448                | 1174 | 702  | 432 | 120 | 8   | 0   | 5   | 83  | 302 | 698  | 1116 | 0                   | 0   | 0   | 28  | 108 | 287 | 262 | 248 | 151 | 9   | 0   | 0   |
| 1995 | 1304                | 931  | 791  | 507 | 213 | 21  | 1   | 0   | 137 |     |      |      | 0                   | 0   | 0   | 0   | 8   | 230 | 431 | 458 | 110 |     |     |     |
| 1996 |                     | 981  | 471  | 211 | 22  | 0   | 0   | 0   | 130 | 347 | 956  | 1321 |                     |     | 0   | 8   | 46  | 264 | 266 | 250 | 79  | 14  | 0   | 0   |
| 1997 | 1419                | 986  | 719  | 572 | 226 | 0   | 1   | 7   | 57  | 399 | 884  | 1082 | 0                   | 0   | 0   | 0   | 18  | 260 | 388 | 273 | 110 | 62  | 0   | 0   |

## **Pawnee City**

| Year | Heating Degree Days |      |     |     |     |     |     |     |     |     |     |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | Jan                 | Feb  | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975 | 1125                | 1068 | 911 | 384 | 53  | 9   | 0   | 0   | 121 | 224 | 619 | 980  | 0                   | 0   | 0   | 19  | 112 | 241 | 404 | 449 | 114 | 45  | 0   | 0   |
| 1976 | 1094                | 620  | 653 | 215 | 139 | 3   | 0   | 0   | 49  | 428 | 808 | 1066 | 0                   | 0   | 0   | 30  | 68  | 287 | 428 | 367 | 154 | 27  | 0   | 0   |
| 1977 | 1489                | 790  | 459 | 203 | 6   | 0   | 0   | 0   | 0   | 268 | 658 | 1088 | 0                   | 0   | 0   | 28  | 178 | 323 | 491 | 306 | 157 | 11  | 0   | 0   |
| 1978 | 1499                | 1285 | 850 | 319 | 159 | 12  | 0   | 2   | 56  | 374 | 806 | 1235 | 0                   | 0   | 6   | 9   | 81  | 272 | 409 | 319 | 194 | 1   | 0   | 0   |
| 1979 | 1713                | 1276 | 636 | 370 | 99  | 15  | 3   | 0   | 39  | 251 | 742 | 887  | 0                   | 0   | 0   | 5   | 95  | 261 | 339 | 327 | 155 | 19  | 0   | 0   |
| 1980 | 1126                | 1144 | 846 | 319 | 87  | 2   | 0   | 0   | 55  | 307 | 584 | 1023 | 0                   | 0   | 0   | 39  | 101 | 341 | 600 | 499 | 224 | 29  | 0   | 0   |
| 1981 | 1001                | 830  | 580 | 129 | 153 | 0   | 0   | 2   | 46  | 342 | 576 | 1127 | 0                   | 0   | 1   | 93  | 67  | 325 | 448 | 286 | 144 | 2   | 0   | 0   |
| 1982 | 1506                | 1021 | 727 | 450 | 57  | 18  | 0   | 2   | 76  | 243 | 703 | 984  | 0                   | 0   | 0   | 0   | 92  | 185 | 485 | 336 | 186 | 29  | 0   | 0   |
| 1983 | 1081                | 812  | 651 | 566 | 139 | 12  | 0   | 0   | 52  | 255 | 643 | 1656 | 0                   | 0   | 3   | 0   | 70  | 296 | 598 | 661 | 253 | 21  | 2   | 0   |
| 1984 | 1255                | 679  | 858 | 402 | 116 | 0   | 0   | 0   | 130 | 238 | 557 | 915  | 0                   | 0   | 0   | 18  | 104 | 351 | 476 | 526 | 225 | 34  | 0   | 0   |
| 1985 | 1309                | 1057 | 525 | 212 | 20  | 6   | 0   | 2   | 134 | 245 | 923 | 1300 | 0                   | 0   | 0   | 57  | 118 | 225 | 447 | 291 | 164 | 0   | 0   | 0   |
| 1986 | 872                 | 1002 | 561 | 238 | 45  | 0   | 0   | 8   | 31  | 305 | 845 | 1011 | 0                   | 0   | 31  | 25  | 78  | 390 | 484 | 233 | 205 | 1   | 0   | 0   |
| 1987 | 1044                | 728  | 652 | 305 | 45  | 1   | 0   | 5   | 53  | 434 | 609 | 950  | 0                   | 0   | 0   | 49  | 157 | 331 | 477 | 337 | 86  | 0   | 4   | 0   |
| 1988 | 1240                | 1073 | 724 | 350 | 17  | 0   | 6   | 4   | 49  | 360 | 616 | 886  | 0                   | 0   | 0   | 0   | 159 | 389 | 413 | 478 | 144 | 6   | 0   | 0   |
| 1989 | 881                 | 1290 | 683 | 326 | 130 | 2   | 1   | 2   | 130 | 268 | 698 | 1343 | 0                   | 0   | 6   | 89  | 108 | 207 | 356 | 345 | 104 | 29  | 0   | 0   |
| 1990 | 914                 | 817  | 631 | 412 | 150 | 5   | 0   | 2   | 29  | 265 | 499 | 1174 | 0                   | 0   | 3   | 18  | 32  | 342 | 383 | 375 | 248 | 26  | 6   | 0   |
| 1991 | 1341                | 703  | 525 | 269 | 53  | 0   | 0   | 0   | 85  | 266 | 923 | 900  | 0                   | 0   | 8   | 13  | 175 | 363 | 427 | 397 | 185 | 45  | 0   | 0   |
| 1992 | 915                 | 740  | 568 | 362 | 119 | 6   | 0   | 8   | 90  | 306 | 848 | 1029 | 0                   | 0   | 1   | 15  | 88  | 138 | 307 | 197 | 119 | 21  | 0   | 0   |
| 1993 | 1308                | 1071 | 796 | 531 | 117 | 37  | 0   | 2   | 125 |     | 821 | 944  | 0                   | 0   | 0   | 0   | 44  | 250 | 342 | 403 | 31  | 13  | 0   | 0   |
| 1994 | 1294                | 1078 | 625 | 372 | 75  | 5   | 0   | 0   | 75  | 257 | 559 | 976  | 0                   | 0   | 0   | 30  | 83  | 326 | 366 | 383 | 160 | 14  | 0   | 0   |
| 1995 | 1199                | 781  |     |     | 171 | 27  | 3   | 0   | 135 | 342 | 781 | 1065 | 0                   | 0   |     |     | 7   | 194 | 404 | 445 | 118 | 15  | 0   | 0   |
| 1996 | 1271                | 894  | 879 | 375 | 141 | 8   | 2   | 0   | 96  | 280 | 891 | 1172 | 0                   | 0   | 0   | 18  | 76  | 293 | 321 | 286 | 91  | 25  | 0   | 0   |
| 1997 | 1264                | 904  | 607 | 485 | 200 | 3   | 2   | 2   | 31  | 321 | 796 | 1069 | 0                   | 0   | 0   | 1   | 34  | 237 | 420 | 307 | 188 | 79  | 0   | 0   |

## **Scottsbluff**

| Year | Heating Degree Days |      |     |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | Jan                 | Feb  | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975 | 1183                | 1105 | 981 | 609 | 268 | 75  | 0   | 11  | 193 | 434 | 873  | 1019 | 0                   | 0   | 0   | 1   | 12  | 101 | 386 | 245 | 43  | 4   | 0   | 0   |
| 1976 | 1235                | 799  | 874 | 469 | 222 | 46  | 0   | 8   | 120 | 542 | 903  | 1011 | 0                   | 0   | 0   | 0   | 18  | 146 | 359 | 240 | 66  | 1   | 0   | 0   |
| 1977 | 1362                | 789  | 826 | 360 | 84  | 4   | 0   | 23  | 72  | 407 | 800  | 1131 | 0                   | 0   | 0   | 6   | 45  | 254 | 356 | 194 | 90  | 0   | 0   | 0   |
| 1978 | 1444                | 1199 | 752 | 458 | 286 | 54  | 2   | 20  | 99  | 412 | 930  | 1425 | 0                   | 0   | 0   | 0   | 34  | 180 | 316 | 198 | 141 | 0   | 0   | 0   |
| 1979 | 1690                | 1029 | 737 | 447 | 288 | 50  | 0   | 10  | 55  | 363 | 984  | 946  | 0                   | 0   | 0   | 8   | 19  | 163 | 317 | 224 | 121 | 1   | 0   | 0   |
| 1980 | 1295                | 1019 | 889 | 463 | 215 | 8   | 0   | 1   | 61  | 411 | 721  | 859  | 0                   | 0   | 0   | 1   | 22  | 234 | 417 | 263 | 104 | 3   | 0   | 0   |
| 1981 | 998                 | 897  | 684 | 261 | 253 | 16  | 6   | 0   | 42  | 432 | 662  | 1044 | 0                   | 0   | 0   | 10  | 23  | 213 | 361 | 250 | 107 | 3   | 0   | 0   |
| 1982 | 1307                | 1039 | 842 | 629 | 289 | 101 | 4   | 1   | 155 | 503 | 921  | 1142 | 0                   | 0   | 0   | 0   | 3   | 40  | 251 | 291 | 74  | 0   | 0   | 0   |
| 1983 | 997                 | 792  | 864 | 722 | 429 | 112 | 7   | 0   | 126 | 412 | 919  | 1627 | 0                   | 0   | 0   | 0   | 6   | 82  | 297 | 369 | 99  | 0   | 0   | 0   |
| 1984 | 1165                | 851  | 850 | 677 | 219 | 60  | 0   | 0   | 223 | 574 | 812  | 1238 | 0                   | 0   | 0   | 0   | 35  | 124 | 311 | 359 | 78  | 0   | 0   | 0   |
| 1985 | 1367                | 1096 | 780 | 422 | 139 | 75  | 0   | 16  | 286 | 534 | 1284 | 1378 | 0                   | 0   | 0   | 3   | 42  | 121 | 324 | 225 | 66  | 0   | 0   | 0   |
| 1986 | 986                 | 1036 | 636 | 524 | 297 | 27  | 0   | 0   | 162 | 504 | 891  | 1118 | 0                   | 0   | 0   | 0   | 1   | 167 | 243 | 192 | 10  | 0   | 0   | 0   |
| 1987 | 1110                | 868  | 978 | 420 | 156 | 28  | 10  | 37  | 153 | 532 | 788  | 1228 | 0                   | 0   | 0   | 5   | 20  | 134 | 320 | 164 | 26  | 0   | 0   | 0   |
| 1988 | 1446                | 999  | 894 | 539 | 241 | 17  | 1   | 4   | 154 | 446 | 825  | 1138 | 0                   | 0   | 0   | 0   | 37  | 256 | 302 | 248 | 22  | 0   | 0   | 0   |
| 1989 | 1065                | 1303 | 897 | 511 | 214 | 71  | 0   | 0   | 169 | 497 | 764  | 1372 | 0                   | 0   | 0   | 10  | 18  | 118 | 382 | 242 | 61  | 0   | 0   | 0   |
| 1990 | 1009                | 977  | 850 | 541 | 327 | 30  | 18  | 4   | 79  | 497 | 771  | 1372 | 0                   | 0   | 0   | 0   | 1   | 199 | 232 | 202 | 113 | 3   | 0   | 0   |
| 1991 | 1307                | 771  | 802 | 570 | 220 | 19  | 5   | 0   | 137 | 551 | 965  | 1018 | 0                   | 0   | 0   | 2   | 46  | 125 | 289 | 284 | 73  | 12  | 0   | 0   |
| 1992 | 1042                | 783  | 731 | 438 | 194 | 45  | 22  | 57  | 107 | 465 | 1019 | 1430 | 0                   | 0   | 0   | 7   | 36  | 79  | 140 | 131 | 39  | 0   | 0   | 0   |
| 1993 | 1362                | 1323 | 841 | 567 | 204 | 121 | 3   | 23  | 237 | 568 | 1061 | 1078 | 0                   | 0   | 0   | 0   | 18  | 71  | 159 | 142 | 10  | 0   | 0   | 0   |
| 1994 | 1147                | 1066 | 751 | 521 | 121 | 13  | 10  | 14  | 84  | 483 | 868  | 1095 | 0                   | 0   | 0   | 0   | 51  | 203 | 213 | 279 | 86  | 0   | 0   | 0   |
| 1995 | 1251                | 851  | 832 | 658 | 429 | 101 | 10  | 1   | 211 | 561 | 791  | 1166 | 0                   | 0   | 0   | 0   | 0   | 78  | 232 | 281 | 64  | 0   | 0   | 0   |
| 1996 | 1346                | 981  | 991 | 537 | 286 | 30  | 3   | 2   | 190 | 526 | 985  | 1153 | 0                   | 0   | 0   | 0   | 26  | 161 | 234 | 195 | 52  | 0   | 0   | 0   |
| 1997 | 1243                | 972  | 790 | 755 | 279 | 24  | 13  | 14  | 121 | 496 | 926  | 1088 | 0                   | 0   | 0   | 0   | 8   | 115 | 247 | 168 | 85  | 5   | 0   | 0   |

## Heating and Cooling Degree Days, Selected Nebraska Cities, Monthly 1975-1997

### Valentine

| Year | Heating Degree Days |      |      |     |     |     |     |     |     |     |      |      | Cooling Degree Days |     |     |     |     |     |     |     |     |     |     |     |
|------|---------------------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | Jan                 | Feb  | Mar  | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov  | Dec  | Jan                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1975 | 1256                | 1284 | 1126 | 642 | 236 | 67  | 5   | 5   | 231 | 435 | 1008 | 1214 | 0                   | 0   | 0   | 16  | 24  | 124 | 400 | 272 | 47  | 18  | 0   | 0   |
| 1976 | 1348                | 907  | 969  | 485 | 268 | 58  | 5   | 3   | 151 | 613 | 1094 | 1255 | 0                   | 0   | 0   | 1   | 11  | 157 | 330 | 306 | 81  | 2   | 0   | 0   |
| 1977 | 1672                | 952  | 990  | 431 | 101 | 8   | 0   | 35  | 122 | 499 | 914  | 1397 | 0                   | 0   | 0   | 3   | 46  | 203 | 307 | 116 | 57  | 0   | 0   | 0   |
| 1978 | 1760                | 1526 | 993  | 618 | 254 | 72  | 4   | 32  | 109 | 515 | 1053 | 1622 | 0                   | 0   | 0   | 0   | 27  | 163 | 239 | 213 | 148 | 0   | 0   | 0   |
| 1979 | 1888                | 1446 | 986  | 574 | 326 | 67  | 14  | 24  | 77  | 478 | 1040 | 1010 | 0                   | 0   | 0   | 4   | 20  | 136 | 280 | 208 | 129 | 0   | 0   | 0   |
| 1980 | 1408                | 1189 | 1063 | 495 | 231 | 26  | 0   | 14  | 112 | 536 | 804  | 1128 | 0                   | 0   | 0   | 15  | 34  | 198 | 404 | 255 | 78  | 4   | 0   | 0   |
| 1981 | 1124                | 1075 | 806  | 325 | 328 | 37  | 21  | 7   | 114 | 514 | 748  | 1274 | 0                   | 0   | 0   | 6   | 16  | 145 | 304 | 207 | 70  | 0   | 0   | 0   |
| 1982 | 1697                | 1100 | 936  | 659 | 250 | 108 | 1   | 16  | 189 | 536 | 1000 | 1183 | 0                   | 0   | 0   | 0   | 10  | 39  | 321 | 299 | 73  | 0   | 0   | 0   |
| 1983 | 1096                | 850  | 931  | 730 | 385 | 91  | 6   | 0   | 168 | 461 | 903  | 1892 | 0                   | 0   | 0   | 0   | 12  | 99  | 338 | 422 | 125 | 0   | 0   | 0   |
| 1984 | 1334                | 952  | 1008 | 667 | 288 | 43  | 0   | 0   | 280 | 542 | 886  | 1351 | 0                   | 0   | 0   | 0   | 38  | 134 | 280 | 318 | 55  | 5   | 0   | 0   |
| 1985 | 1461                | 1211 | 854  | 415 | 136 | 112 | 13  | 29  | 279 | 531 | 1404 | 1517 | 0                   | 0   | 0   | 9   | 66  | 92  | 337 | 176 | 87  | 0   | 0   | 0   |
| 1986 | 1182                | 1134 | 720  | 591 | 264 | 20  | 0   | 36  | 189 | 511 | 1013 | 1098 | 0                   | 0   | 0   | 4   | 15  | 185 | 295 | 160 | 15  | 0   | 0   | 0   |
| 1987 | 1126                | 893  | 976  | 424 | 124 | 35  | 10  | 50  | 170 | 601 | 811  | 1198 | 0                   | 0   | 0   | 11  | 61  | 184 | 372 | 178 | 34  | 0   | 0   | 0   |
| 1988 | 1600                | 1270 | 936  | 570 | 204 | 4   | 6   | 21  | 160 | 543 | 871  | 1195 | 0                   | 0   | 0   | 4   | 80  | 351 | 331 | 285 | 48  | 0   | 0   | 0   |
| 1989 | 1144                | 1428 | 1013 | 523 | 234 | 91  | 5   | 11  | 169 | 471 | 755  | 1505 | 0                   | 0   | 0   | 19  | 29  | 110 | 378 | 265 | 81  | 0   | 0   | 0   |
| 1990 | 1026                | 1025 | 864  | 581 | 292 | 26  | 25  | 0   | 117 | 501 | 795  | 1479 | 0                   | 0   | 0   | 16  | 17  | 192 | 257 | 237 | 160 | 12  | 0   | 0   |
| 1991 | 1476                | 860  | 755  | 451 | 207 | 1   | 1   | 2   | 167 | 585 | 1076 | 1089 | 0                   | 0   | 0   | 6   | 62  | 203 | 319 | 281 | 102 | 5   | 0   | 0   |
| 1992 | 1115                | 867  | 800  | 515 | 211 | 70  | 49  | 75  | 141 | 447 | 1039 | 1370 | 0                   | 0   | 0   | 14  | 41  | 54  | 74  | 125 | 63  | 6   | 0   | 0   |
| 1993 | 1462                | 1354 | 896  | 630 | 244 | 100 | 5   | 31  | 253 | 561 | 1076 | 1116 | 0                   | 0   | 0   | 0   | 2   | 73  | 163 | 179 | 28  | 5   | 0   | 0   |
| 1994 | 1435                | 1339 | 822  | 558 | 149 | 36  | 13  | 22  | 111 | 435 | 841  | 1139 | 0                   | 0   | 0   | 9   | 67  | 156 | 183 | 227 | 97  | 0   | 0   | 0   |
| 1995 | 1190                | 932  | 895  | 733 | 370 | 85  | 11  | 3   | 183 | 571 | 885  | 1115 | 0                   | 0   | 0   | 0   | 0   | 147 | 304 | 383 | 103 | 5   | 0   | 0   |
| 1996 | 1503                | 1073 | 1175 | 611 | 322 | 50  | 1   | 0   | 218 | 511 | 1185 | 1472 | 0                   | 0   | 0   | 0   | 18  | 149 | 224 | 233 | 64  | 6   | 0   | 0   |
| 1997 | 1478                | 1023 | 830  | 745 | 350 | 29  | 18  | 16  | 105 | 474 | 974  | 1101 | 0                   | 0   | 0   | 0   | 6   | 146 | 287 | 204 | 110 | 23  | 0   | 0   |

Sources: *Climatological Data, Nebraska*. National Oceanic and Atmospheric Administration; National Environmental Satellite, Data and Information Service; and National Climatic Data Center. Asheville, NC. High Plains Climate Center, University of Nebraska-Lincoln, Institute of Agriculture and Natural Resources. Lincoln, NE. Nebraska Energy Office.

Notes: Cooling degree days for 1975-1979 calculated by the Nebraska Energy Office from reported temperatures in source for Chadron, McCook, Holdrege, O'Neill and Pawnee City. When information for degree days was not reported, values for nearby stations were substituted. Months and stations affected are as follows:

Chadron: Data missing for November, 1986, through October, 1987; July, 1988; August, 1988; November, 1990; July, 1991; November 1991; January-May, 1992; September, 1992; and July-October, 1993. Values for Hay Springs substituted.

Grand Island: Data missing for October, 1992; December, 1992; and January-May, 1993. Values for Aurora substituted.

Lincoln: Lincoln Airport data used. Data missing for January-May, 1993. Values for Lincoln University Station substituted.

McCook: Data missing for November, 1978, through June, 1979, and January, 1992. Values for Culbertson substituted.

North Platte: Data missing for January, 1985. Values for North Platte Experiment Station substituted.

Omaha: Data missing for October, 1979, and August, 1987. Values for North Omaha substituted.

Pawnee City: Data missing for December, 1979; October, 1980; April, 1982; April, 1983; March, 1988; September, 1988; April, 1993; and October, 1993. Values for Falls City substituted.

## Motor Vehicle Registrations, Nebraska, 1987-1997

| Year | Autos   | Farm Trucks | Other Trucks | Motorcycles | All Other |
|------|---------|-------------|--------------|-------------|-----------|
| 1987 | 870,291 | 144,126     | 231,572      | 31,599      | 219,821   |
| 1988 | 882,451 | 145,460     | 239,560      | 29,088      | 224,954   |
| 1989 | 901,633 | 145,749     | 245,664      | 23,560      | 243,514   |
| 1990 | 917,722 | 147,982     | 250,589      | 22,375      | 238,211   |
| 1991 | 838,803 | 128,969     | 247,831      | 20,264      | 266,178   |
| 1992 | 895,461 | 140,095     | 269,195      | 19,582      | 296,302   |
| 1993 | 940,667 | 149,403     | 288,608      | 18,882      | 301,757   |
| 1994 | 955,138 | 148,664     | 272,685      | 19,084      | 264,965   |
| 1995 | 965,100 | 148,181     | 279,781      | 18,696      | 281,287   |
| 1996 | 977,252 | 148,051     | 312,213      | 18,094      | 330,929   |
| 1997 | 981,372 | 149,471     | 324,010      | 18,441      | 341,058   |

Source: *DMV Annual Report*. Nebraska Department of Motor Vehicles, Titles and Registration Division. Lincoln, NE.

Notes: All Other includes bus, trailer, dealer, government, mobile home, snowmobile and tax exempt registrations. Other Trucks includes commercial, nonresident, local, message commercial, message farm, special mobile equipment (SME), soil and water and 10% reduction vehicles. Data entry totals are incomplete for 1991. Apportioned power units and trailer units are reported by DMV as part of 1996-98 totals; those values are subtracted from 1996-98 numbers to make the data consistent with previous years.

## Motor Vehicle Miles Traveled, Nebraska, Monthly 1987-1997

(Million Miles)

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Totals |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1987 | 868   | 916   | 908   | 1,082 | 1,151 | 1,228 | 1,295 | 1,276 | 1,173 | 1,145 | 1,055 | 994   | 13,091 |
| 1988 | 850   | 925   | 1,005 | 1,097 | 1,167 | 1,258 | 1,314 | 1,293 | 1,186 | 1,165 | 1,068 | 1,043 | 13,371 |
| 1989 | 939   | 919   | 1,021 | 1,147 | 1,211 | 1,295 | 1,320 | 1,341 | 1,231 | 1,206 | 1,126 | 1,025 | 13,781 |
| 1990 | 941   | 980   | 1,045 | 1,154 | 1,236 | 1,328 | 1,363 | 1,377 | 1,219 | 1,199 | 1,105 | 1,010 | 13,957 |
| 1991 | 913   | 1,012 | 1,061 | 1,145 | 1,244 | 1,354 | 1,390 | 1,397 | 1,254 | 1,202 | 1,040 | 1,083 | 14,095 |
| 1992 | 974   | 1,044 | 1,097 | 1,174 | 1,272 | 1,372 | 1,433 | 1,426 | 1,291 | 1,270 | 1,139 | 1,082 | 14,574 |
| 1993 | 939   | 985   | 1,106 | 1,207 | 1,286 | 1,411 | 1,444 | 1,474 | 1,318 | 1,291 | 1,172 | 1,144 | 14,777 |
| 1994 | 984   | 1,064 | 1,204 | 1,243 | 1,341 | 1,457 | 1,521 | 1,527 | 1,372 | 1,340 | 1,240 | 1,171 | 15,464 |
| 1995 | 1,041 | 1,139 | 1,172 | 1,245 | 1,341 | 1,519 | 1,549 | 1,578 | 1,411 | 1,351 | 1,259 | 1,204 | 15,809 |
| 1996 | 1,027 | 1,185 | 1,212 | 1,296 | 1,380 | 1,557 | 1,571 | 1,612 | 1,425 | 1,403 | 1,286 | 1,240 | 16,194 |
| 1997 | 1,085 | 1,201 | 1,296 | 1,303 | 1,448 | 1,621 | 1,633 | 1,681 | 1,467 | 1,413 | 1,363 | 1,280 | 16,791 |

Source: "State of Nebraska Automatic Traffic Recorder Data." Nebraska Department of Roads, Office of Planning and Administration, Transportation Planning Division. Lincoln, NE.



## Irrigation Wells Registered and Acres Irrigated, Nebraska, 1966-1997

| Year | Wells  | Acres     | Year | Wells  | Acres     | Year | Wells  | Acres     |
|------|--------|-----------|------|--------|-----------|------|--------|-----------|
| 1966 | 27,102 | 3,100,000 | 1977 | 55,078 | 6,400,000 | 1988 | 71,443 | 7,900,000 |
| 1967 | 28,842 | 3,313,000 | 1978 | 60,084 | 6,700,000 | 1989 | 71,858 | 8,000,000 |
| 1968 | 30,806 | 3,605,000 | 1979 | 61,831 | 6,950,000 | 1990 | 72,852 | 8,000,000 |
| 1969 | 32,755 | 3,783,000 | 1980 | 63,821 | 7,200,000 | 1991 | 73,883 | 8,100,000 |
| 1970 | 34,117 | 3,998,000 | 1981 | 65,787 | 7,500,000 | 1992 | 74,714 | 8,100,000 |
| 1971 | 35,685 | 4,200,000 | 1982 | 68,319 | 7,600,000 | 1993 | 75,771 | 8,100,000 |
| 1972 | 37,635 | 4,478,000 | 1983 | 69,471 | 7,700,000 | 1994 | 76,363 | 8,100,000 |
| 1973 | 39,505 | 4,783,000 | 1984 | 70,233 | 7,800,000 | 1995 | 76,976 | 8,100,000 |
| 1974 | 41,628 | 5,050,000 | 1985 | 70,767 | 7,900,000 | 1996 | 77,301 | 8,100,000 |
| 1975 | 44,454 | 5,400,000 | 1986 | 71,338 | 7,900,000 | 1997 | 78,373 | 8,100,000 |
| 1976 | 49,478 | 5,900,000 | 1987 | 71,587 | 7,900,000 |      |        |           |

Source: *Nebraska Agricultural Statistics*. Nebraska Department of Agriculture. Lincoln, NE.

Notes: Wells are those registered as of January 1. Acres represent the total acres that have wells or ditch water available and could be irrigated if conditions warrant.

## Average Cost of Electricity for Irrigation by System, Nebraska, 1980-1996 (Cents/kWh)

| System             | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1996 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Burt               | 6.5  | 8.0  | 28.1 | 10.7 | 11.4 | 10.8 | 15.6 | 12.5 | 8.0  | 7.7  | 10.3 | 8.2  | 14.9 | 47.6 | 12.1 | 14.3 |
| Butler             | 5.7  | 7.2  | 15.5 | 8.5  | 9.0  | 12.1 | 14.6 | 8.5  | 8.1  | 8.1  | 9.1  | 8.9  | 47.4 | 19.1 | 15.4 | 15.4 |
| Cedar-Knox         |      |      |      |      |      |      |      |      |      |      | 6.7  | 6.7  | 17.6 | 39.0 | 8.4  | 7.9  |
| Cherry-Todd        | 4.2  | 4.4  | 5.5  | 6.5  | 6.0  | 4.3  | 5.4  | 7.3  | 6.6  | 6.1  | 6.7  | 6.5  | 7.1  | 7.2  | 6.8  | 6.2  |
| Chimney Rock       | 5.0  | 5.9  | 8.1  | 7.3  | 7.8  | 6.3  | 6.9  | 7.6  | 6.1  | 6.8  | 7.5  | 7.3  | 7.3  | 7.9  | 7.2  | 7.5  |
| Cornhusker         | 6.2  | 9.3  | 16.7 | 10.4 | 9.6  | 10.4 | 13.6 | 8.4  | 7.2  | 7.2  | 8.2  | 6.8  | 26.5 | 17.5 | 13.5 | 8.7  |
| Cuming             | 6.3  | 9.1  | 28.4 | 12.0 | 10.7 | 11.3 | 15.1 | 10.4 | 8.4  | 8.2  | 10.8 | 7.9  | 13.4 | 19.0 | 12.3 | 10.4 |
| Custer             | 4.7  | 7.1  | 7.4  | 7.7  | 7.0  | 7.4  | 7.1  | 7.4  | 6.7  | 6.5  | 6.4  | 6.6  | 7.4  | 15.3 | 7.2  | 7.7  |
| Dawson             | 5.9  | 9.2  | 9.1  | 8.0  | 7.9  | 8.7  | 7.7  | 8.3  | 7.7  | 8.6  | 7.5  | 7.2  | 9.3  | 21.6 | 10.1 | 10.4 |
| Elkhorn            | 5.6  | 8.5  | 11.1 | 9.6  | 9.3  | 9.5  | 10.4 | 8.8  | 8.0  | 7.9  | 8.7  | 7.8  | 14.9 | 16.0 | 10.8 | 8.9  |
| Franklin           | 6.5  | 12.8 | 12.8 | 11.0 | 8.6  | 9.9  | 10.2 | 11.8 | 10.0 | 11.1 |      |      |      |      |      |      |
| Howard Greeley     | 5.9  | 7.6  | 10.8 | 8.3  | 8.3  | 10.1 | 11.8 | 8.8  | 8.4  | 8.2  | 8.6  | 7.6  | 18.9 | 20.5 | 14.6 | 10.6 |
| KBR                | 5.7  | 6.7  | 8.4  | 9.7  | 8.4  | 8.0  | 9.7  | 8.3  | 8.6  | 7.7  | 7.8  | 7.7  | 9.2  | 10.2 | 9.7  | 9.1  |
| Loup Valleys       | 4.8  | 7.1  | 8.9  | 7.8  | 7.5  | 8.8  | 9.0  | 8.3  | 7.4  | 7.7  | 7.5  | 6.9  | 11.5 | 19.4 | 9.5  | 8.9  |
| McCook             | 5.6  | 7.0  | 8.0  | 7.5  | 7.7  | 7.7  | 7.5  | 7.6  | 7.7  | 7.8  | 7.4  | 7.6  | 10.0 | 14.7 | 8.5  | 11.2 |
| Midwest            | 6.1  | 7.6  | 8.8  | 8.3  | 8.7  | 7.9  | 9.5  | 9.7  | 8.8  | 9.0  | 8.7  | 8.8  | 10.2 | 11.7 | 9.0  | 10.0 |
| Niobrara Electric  | 4.0  | 4.6  | 5.7  | 5.3  | 5.6  | 6.0  | 7.5  | 6.8  | 6.0  | 5.4  | 5.8  | 6.4  | 6.0  | 6.6  | 5.6  | 5.7  |
| Niobrara Valley    | 5.4  | 6.4  | 7.8  | 7.9  | 7.8  | 7.4  | 8.2  | 7.3  | 6.8  | 7.1  | 7.3  | 6.8  | 8.8  | 9.4  | 8.2  | 7.2  |
| Norris             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| North Central      | 4.9  | 6.4  | 7.4  | 7.2  | 7.0  | 7.0  | 7.2  | 7.0  | 6.5  | 6.2  | 7.6  | 6.8  | 10.2 | 12.1 | 8.8  | 5.6  |
| Northeast Nebraska | 5.4  | 6.4  | 12.4 | 7.2  | 8.5  | 7.5  | 9.8  | 7.6  | 5.9  | 6.2  | 8.0  | 7.1  | 21.4 | 59.3 | 10.1 | 10.7 |
| Northwest          | 5.9  |      | 9.5  | 10.2 | 8.8  | 6.8  | 10.6 | 8.4  | 8.3  | 7.2  | 8.0  | 8.5  | 9.5  | 10.1 | 8.0  | 9.5  |
| Panhandle          | 2.4  | 5.8  | 7.2  | 6.8  | 8.0  | 5.4  | 7.3  | 7.5  | 7.0  | 6.2  | 8.3  | 9.1  | 8.9  | 9.9  | 4.2  | 9.4  |
| Polk               | 6.1  | 8.3  | 23.9 | 10.0 | 10.1 | 14.3 | 12.7 | 9.3  | 7.4  | 7.4  | 9.1  | 8.0  | 34.5 | 19.0 | 11.6 | 10.3 |
| Roosevelt          | 4.0  | 5.0  | 6.0  | 6.4  | 6.8  | 7.6  | 8.5  | 9.1  | 7.9  | 7.5  | 8.2  | 7.8  | 8.2  | 9.0  | 7.7  | 7.7  |
| Rural Electric     | 4.2  | 5.0  | 6.0  | 7.8  | 7.2  | 5.9  | 6.4  | 7.4  | 6.8  | 6.1  | 7.0  | 6.9  | 7.0  | 7.0  | 6.5  | 6.8  |
| Seward             | 6.4  | 8.5  | 11.8 | 8.4  | 9.7  | 10.6 | 13.1 | 10.5 | 8.7  | 8.6  | 10.6 | 8.1  | 17.5 | 12.8 | 10.7 | 9.3  |
| South Central      | 5.4  | 7.3  | 9.0  | 7.8  | 7.7  | 8.1  | 8.8  | 8.6  | 6.7  | 8.3  | 9.0  | 7.2  | 11.1 | 28.7 | 9.4  | 9.7  |
| Southern           | 6.7  | 9.2  | 12.1 | 8.7  |      |      |      |      |      |      |      |      |      |      |      |      |
| Southwest          | 6.4  | 7.5  | 10.6 | 8.7  | 8.2  | 7.9  | 8.2  | 8.5  | 8.2  | 9.2  | 8.1  | 8.8  | 10.8 | 13.3 | 8.5  | 10.0 |
| Stanton            | 5.9  | 8.7  | 17.1 | 10.9 | 9.6  | 9.8  | 13.2 | 8.8  | 8.0  | 8.1  | 10.7 | 8.0  | 18.2 | 18.9 | 14.0 | 11.0 |
| Twin Valleys       | 6.3  | 9.0  | 8.8  | 8.0  | 7.8  | 8.9  | 8.4  | 9.6  | 9.2  | 8.2  | 8.4  | 7.8  | 9.7  | 26.0 | 9.2  | 13.4 |
| Wheat Belt         | 5.1  | 6.6  | 8.7  | 8.3  | 6.9  | 6.7  | 7.8  | 9.4  | 7.4  | 7.0  | 7.5  | 7.6  | 8.7  | 8.8  | 7.4  | 8.0  |
| Wyrulec            | 4.7  | 5.7  | 7.2  | 5.9  | 6.8  | 6.0  | 6.9  | 7.2  | 6.1  | 6.5  | 6.8  | 7.6  | 8.3  | 8.1  | 7.2  | 7.6  |
| York               | 6.2  | 6.9  | 8.0  | 10.5 | 8.0  | 8.4  | 9.4  | 10.2 | 8.9  | 7.4  | 8.1  | 8.8  | 7.4  | 25.4 | 9.6  | 10.3 |
| Average            | 5.3  | 7.1  | 10.8 | 8.2  | 8.0  | 8.1  | 9.3  | 8.4  | 7.4  | 7.3  | 7.9  | 7.4  | 13.1 | 17.3 | 9.1  | 9.1  |

Source: *Irrigation Survey*. Nebraska Rural Electric Association. Lincoln, NE.

Notes: A blank indicates the system was not included in the survey. The survey was conducted annually up to 1994 and is now conducted every two years.

**Number of Occupied Housing Units by Fuel Used for  
House Heating, Water Heating and Cooking, Nebraska,  
1960, 1970, 1980 and 1990**  
(Housing Units)

**1960 Total Occupied Housing Units - 433,374**

| <b>Fuel</b>              | <b>Home Heating</b> | <b>% of Total</b> | <b>Water Heating</b> | <b>% of Total</b> | <b>Cooking</b> | <b>% of Total</b> |
|--------------------------|---------------------|-------------------|----------------------|-------------------|----------------|-------------------|
| Utility Gas              | 260,056             | 60.01%            | 254,000              | 58.61%            | 196,109        | 45.25%            |
| Bottled, Tank or LP Gas  | 39,726              | 9.17%             | 38,231               | 8.82%             | 66,928         | 15.44%            |
| Electricity              | 1,174               | 0.27%             | 93,791               | 21.64%            | 154,820        | 35.72%            |
| Fuel Oil, Kerosene, etc. | 98,437              | 22.71%            | 6,887                | 1.59%             | 2,686          | 0.62%             |
| Coal or Coke             | 23,975              | 5.53%             | 1,615                | 0.37%             | 3,176          | 0.73%             |
| Wood                     | 8,142               | 1.88%             | 486                  | 0.11%             | 6,495          | 1.50%             |
| Other Fuel               | 1,647               | 0.38%             | 526                  | 0.12%             | 1,091          | 0.25%             |
| No Fuel Used             | 217                 | 0.05%             | 37,838               | 8.73%             | 2,069          | 0.48%             |

**1970 Total Occupied Housing Units - 473,721**

| <b>Fuel</b>              | <b>Home Heating</b> | <b>% of Total</b> | <b>Water Heating</b> | <b>% of Total</b> | <b>Cooking</b> | <b>% of Total</b> |
|--------------------------|---------------------|-------------------|----------------------|-------------------|----------------|-------------------|
| Utility Gas              | 340,584             | 71.90%            | 319,183              | 67.38%            | 185,628        | 39.19%            |
| Bottled, Tank or LP Gas  | 65,554              | 13.84%            | 44,993               | 9.50%             | 45,061         | 9.51%             |
| Electricity              | 15,119              | 3.19%             | 98,117               | 20.71%            | 238,682        | 50.38%            |
| Fuel Oil, Kerosene, etc. | 46,864              | 9.89%             | 2,167                | 0.46%             | 746            | 0.16%             |
| Coal or Coke             | 2,508               | 0.53%             | 64                   | 0.01%             | 269            | 0.06%             |
| Wood                     | 1,121               | 0.24%             | 181                  | 0.04%             | 1,514          | 0.32%             |
| Other Fuel               | 1,857               | 0.39%             | 232                  | 0.05%             | 205            | 0.04%             |
| No Fuel Used             | 114                 | 0.02%             | 8,784                | 1.85%             | 1,616          | 0.34%             |

**1980 Total Occupied Housing Units - 571,400**

| <b>Fuel</b>              | <b>Home Heating</b> | <b>% of Total</b> | <b>Water Heating</b> | <b>% of Total</b> | <b>Cooking</b> | <b>% of Total</b> |
|--------------------------|---------------------|-------------------|----------------------|-------------------|----------------|-------------------|
| Utility Gas              | 410,378             | 71.82%            | 386,369              | 67.62%            | 165,759        | 29.01%            |
| Bottled, Tank or LP Gas  | 68,819              | 12.04%            | 50,256               | 8.80%             | 37,218         | 6.51%             |
| Electricity              | 55,410              | 9.70%             | 130,787              | 22.89%            | 366,496        | 64.14%            |
| Fuel Oil, Kerosene, etc. | 27,341              | 4.78%             | 1,545                | 0.27%             | 0              | 0.00%             |
| Coal or Coke             | 698                 | 0.12%             | 0                    | 0.00%             | 0              | 0.00%             |
| Wood                     | 7,565               | 1.32%             | 0                    | 0.00%             | 0              | 0.00%             |
| Other Fuel               | 1,076               | 0.19%             | 613                  | 0.11%             | 1,167          | 0.20%             |
| No Fuel Used             | 113                 | 0.02%             | 1,830                | 0.32%             | 760            | 0.13%             |

**1990 Total Occupied Housing Units - 602,363**

| <b>Fuel</b>              | <b>Home Heating</b> | <b>% of Total</b> | <b>Water Heating</b> | <b>% of Total</b> | <b>Cooking</b> | <b>% of Total</b> |
|--------------------------|---------------------|-------------------|----------------------|-------------------|----------------|-------------------|
| Utility Gas              | 423,144             | 70.25%            | *                    |                   | *              |                   |
| Bottled, Tank or LP Gas  | 65,914              | 10.94%            | *                    |                   | *              |                   |
| Electricity              | 81,650              | 13.55%            | *                    |                   | *              |                   |
| Fuel Oil, Kerosene, etc. | 14,835              | 2.46%             | *                    |                   | *              |                   |
| Coal or Coke             | 266                 | 0.04%             | *                    |                   | *              |                   |
| Wood                     | 12,933              | 2.15%             | *                    |                   | *              |                   |
| Solar                    | 256                 | 2.15%             | *                    |                   | *              |                   |
| Other Fuel               | 2,757               | 0.04%             | *                    |                   | *              |                   |
| No Fuel Used             | 608                 | 0.46%             | *                    |                   | *              |                   |

Sources: 1960 Census of Housing, Volume 1: States and Small Areas, Part 5: Michigan-New Hampshire. Bureau of the Census, U.S. Department of Commerce. Washington, DC. June 1963. Housing Characteristics for States, Cities and Counties, Nebraska. 1970 Census of Housing. Bureau of the Census, U.S. Department of Commerce. Washington, DC. August 1972. Detailed Housing Characteristics, Nebraska. 1980 Census of Housing. Bureau of the Census, U.S. Department of Commerce. Washington, DC. July 1983. 1990 Census of Population and Housing. Population and Housing Characteristics of Congressional Districts of the 103rd Congress. Table 25. Equipment and Fuels: 1990. Bureau of the Census, U.S. Department of Commerce. Washington, DC.

Note: An asterisk (\*) indicates a fuel source was not included in the census.

## Population, Nebraska, 1966-1997

(thousand people)

|                   |                   |                   |                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 1966. . . . 1,456 | 1971. . . . 1,505 | 1976. . . . 1,551 | 1981. . . . 1,579 | 1986. . . . 1,574 | 1991. . . . 1,591 | 1996. . . . 1,648 |
| 1967. . . . 1,457 | 1972. . . . 1,519 | 1977. . . . 1,557 | 1982. . . . 1,582 | 1987. . . . 1,567 | 1992. . . . 1,602 | 1997. . . . 1,657 |
| 1968. . . . 1,467 | 1973. . . . 1,530 | 1978. . . . 1,564 | 1983. . . . 1,584 | 1988. . . . 1,571 | 1993. . . . 1,612 |                   |
| 1969. . . . 1,474 | 1974. . . . 1,539 | 1979. . . . 1,567 | 1984. . . . 1,589 | 1989. . . . 1,575 | 1994. . . . 1,622 |                   |
| 1970. . . . 1,485 | 1975. . . . 1,543 | 1980. . . . 1,570 | 1985. . . . 1,585 | 1990. . . . 1,578 | 1995. . . . 1,635 |                   |

Source: *State Energy Data Report 1997*. Bureau of Labor Statistics, Division of Consumer Prices and Price Indexes. Washington, DC.

## Population by Age, Nebraska, 1970, 1980 and 1990

| Age                | 1970      | 1980      | 1990      |
|--------------------|-----------|-----------|-----------|
| Under 5 Years      | 120,482   | 122,946   | 119,606   |
| 5-9 Years          | 147,622   | 118,045   | 126,401   |
| 10-14 Years        | 153,355   | 120,907   | 117,383   |
| 15-19 Years        | 143,442   | 147,249   | 112,860   |
| 20-24 Years        | 114,943   | 148,734   | 108,649   |
| 25-29 Years        | 89,262    | 134,794   | 125,218   |
| 30-34 Years        | 78,149    | 114,407   | 131,990   |
| 35-44 Years        | 159,456   | 163,477   | 228,812   |
| 45-54 Years        | 157,162   | 150,653   | 149,389   |
| 55-59 Years        | 71,837    | 75,104    | 67,281    |
| 60-64 Years        | 66,917    | 67,528    | 67,728    |
| 65-74 Years        | 105,229   | 114,021   | 117,643   |
| 75-84 Years        | 61,920    | 67,919    | 76,223    |
| 85 Years and Older | 15,557    | 23,744    | 29,202    |
| Total              | 1,485,333 | 1,569,528 | 1,578,385 |

Source: *Census of Population, 1970, 1980 and 1990*. U.S. Department of Commerce. Bureau of the Census. Washington, DC.

## Consumer Price Index for All Urban Consumers

### All Items, Fuel and Other Utilities, Motor Fuel and Energy 1975-1997 (1982-84=100)

| Year | All Items | Energy | Fuel and Other Utilities | Motor Fuel |
|------|-----------|--------|--------------------------|------------|
| 1975 | 53.8      | 42.1   | 45.4                     | 45.1       |
| 1976 | 56.9      | 45.1   | 49.4                     | 47.0       |
| 1977 | 60.6      | 49.4   | 54.7                     | 49.7       |
| 1978 | 65.2      | 52.5   | 58.4                     | 51.8       |
| 1979 | 72.6      | 65.7   | 64.8                     | 70.1       |
| 1980 | 82.4      | 86.0   | 75.4                     | 97.4       |
| 1981 | 90.9      | 97.7   | 86.4                     | 108.5      |
| 1982 | 96.5      | 99.2   | 94.9                     | 102.8      |
| 1983 | 99.6      | 99.9   | 100.2                    | 99.4       |
| 1984 | 103.9     | 100.9  | 104.8                    | 97.9       |
| 1985 | 107.6     | 101.6  | 106.5                    | 98.7       |
| 1986 | 109.6     | 88.2   | 104.1                    | 77.1       |
| 1987 | 113.6     | 88.6   | 103.0                    | 80.2       |
| 1988 | 118.3     | 89.3   | 104.4                    | 80.9       |
| 1989 | 124.0     | 94.3   | 107.8                    | 88.5       |
| 1990 | 130.7     | 102.1  | 111.6                    | 101.2      |
| 1991 | 136.2     | 102.5  | 115.3                    | 99.4       |
| 1992 | 140.3     | 103.0  | 117.8                    | 99.0       |
| 1993 | 144.5     | 104.2  | 121.3                    | 98.0       |
| 1994 | 148.2     | 104.6  | 122.8                    | 98.5       |
| 1995 | 152.4     | 105.2  | 123.7                    | 100.0      |
| 1996 | 156.8     | 110.1  | 127.5                    | 106.3      |
| 1997 | 160.5     | 111.5  | 130.7                    | 106.2      |

Source: *Consumer Price Index*. Bureau of Labor Statistics, Division of Consumer Prices and Price Indexes. Washington, DC.

# Conversion Factors

A conversion factor is a number that translates units of one system of measure into corresponding units of another. Conversion factors can be used to translate physical units of measure for various fuels into British thermal unit (Btu) equivalents. This is also useful to assess how much heat can be generated from a given amount of an energy source such as coal, propane, etc.

| To Convert From   | To                     | Multiply By  |
|-------------------|------------------------|--------------|
| Barrels (Oil)     | Gallons (Oil)          | 42           |
| Btu               | Joules                 | 1,054.8      |
| Btu               | Kilogram-calories      | 0.252        |
| Btu               | Kilowatt-hours         | 0.0002928    |
| Btu/hour          | Watts                  | 0.2931       |
| Btu/minute        | Horsepower             | 0.02356      |
| Calorie           | Kilowatt-hour          | 1.16x10 e-06 |
| Foot-candle       | Lumen/square meter     | 10.764       |
| Gallons (Oil)     | Barrels (Oil)          | 0.02380952   |
| Horsepower        | Kilowatts              | 0.7457       |
| Horsepower        | Watts                  | 745.7        |
| Joules            | Btu                    | 9.48x10 e-04 |
| Kilogram-calories | Btu                    | 3.968        |
| Kilowatts         | Horsepower             | 1.341        |
| Kilowatts         | Watts                  | 1,000        |
| Kilowatt-hours    | Btu                    | 3,413        |
| Lumen             | Spherical Candle Power | 0.07958      |
| Therm             | Btu                    | 100,000      |
| Tons (Metric)     | Pounds                 | 2,204.62     |
| Tons (Long)       | Pounds                 | 2,240        |
| Tons (Short)      | Pounds                 | 2,000        |
| Watts             | Horsepower             | 0.00134      |
| Watts             | Kilowatts              | 0.001        |
| Watt-hours        | Horsepower-hours       | 0.00134      |

## Units of Measure

### Coal

|              |          |                 |
|--------------|----------|-----------------|
| 1 metric ton | contains | 1,000 kilograms |
| 1 long ton   | contains | 2,240 pounds    |
| 1 short ton  | contains | 2,000 pounds    |

### Crude Oil

|          |          |            |
|----------|----------|------------|
| 1 barrel | contains | 42 gallons |
|----------|----------|------------|

## Approximate Heat Content of Petroleum Products

| Product                 | Million Btu Per Barrel | Btu Per Gallon |
|-------------------------|------------------------|----------------|
| Asphalt                 | 6.636                  | 158,000        |
| 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        |
| Road Oil                | 6.636                  | 158,000        |

Sources: *State Energy Data Report 1997, Consumption Estimates, September 1999.* Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC. Nebraska Energy Office.

Note: The units of measure conversion factors provide the exact conversion.

**Approximate Heat Rates for  
Electricity,\* 1960-1997**  
(Btu/kWh)

| Year | Fossil-Fueled<br>Steam-Electric<br>Plants | Nuclear Steam-<br>Electric Plants |
|------|-------------------------------------------|-----------------------------------|
|      |                                           |                                   |
| 1960 | 10,760                                    | 11,629                            |
| 1961 | 10,650                                    | 11,629                            |
| 1962 | 10,558                                    | 11,629                            |
| 1963 | 10,482                                    | 11,877                            |
| 1964 | 10,462                                    | 11,912                            |
| 1965 | 10,453                                    | 11,804                            |
| 1966 | 10,415                                    | 11,623                            |
| 1967 | 10,432                                    | 11,555                            |
| 1968 | 10,398                                    | 11,297                            |
| 1969 | 10,447                                    | 11,037                            |
| 1970 | 10,494                                    | 10,977                            |
| 1971 | 10,478                                    | 10,837                            |
| 1972 | 10,379                                    | 10,792                            |
| 1973 | 10,389                                    | 10,903                            |
| 1974 | 10,442                                    | 11,161                            |
| 1975 | 10,406                                    | 11,013                            |
| 1976 | 10,373                                    | 11,047                            |
| 1977 | 10,435                                    | 10,769                            |
| 1978 | 10,361                                    | 10,941                            |
| 1979 | 10,353                                    | 10,879                            |
| 1980 | 10,388                                    | 10,908                            |
| 1981 | 10,453                                    | 11,030                            |
| 1982 | 10,454                                    | 11,073                            |
| 1983 | 10,520                                    | 10,905                            |
| 1984 | 10,440                                    | 10,843                            |
| 1985 | 10,447                                    | 10,813                            |
| 1986 | 10,446                                    | 10,799                            |
| 1987 | 10,419                                    | 10,776                            |
| 1988 | 10,324                                    | 10,743                            |
| 1989 | 10,432                                    | 10,724                            |
| 1990 | 10,402                                    | 10,680                            |
| 1991 | 10,436                                    | 10,740                            |
| 1992 | 10,342                                    | 10,678                            |
| 1993 | 10,309                                    | 10,682                            |
| 1994 | 10,316                                    | 10,676                            |
| 1995 | 10,312                                    | 10,658                            |
| 1996 | 10,335                                    | 10,623                            |
| 1997 | 10,311                                    | 10,623                            |

**Conversion Factors for Natural Gas and Coal  
Consumed in Nebraska, 1960-1997**

| Year | Natural Gas<br>(Btu/Cubic Foot) |             | Coal<br>(Thousand Btu/Short Ton) |            |                     |
|------|---------------------------------|-------------|----------------------------------|------------|---------------------|
|      | Utility                         | Non-Utility | Residential/<br>Commercial       | Industrial | Electric<br>Utility |
| 1960 | 1,035                           | 1,035       | 20,913                           | 21,975     | 24,782              |
| 1961 | 1,035                           | 1,035       | 20,896                           | 21,943     | 24,796              |
| 1962 | 1,035                           | 1,035       | 20,890                           | 21,933     | 24,552              |
| 1963 | 991                             | 991         | 20,872                           | 21,903     | 24,316              |
| 1964 | 990                             | 990         | 20,856                           | 21,873     | 24,436              |
| 1965 | 991                             | 991         | 20,804                           | 21,781     | 24,568              |
| 1966 | 996                             | 996         | 20,724                           | 21,638     | 24,484              |
| 1967 | 996                             | 996         | 20,638                           | 21,485     | 24,242              |
| 1968 | 998                             | 998         | 20,626                           | 21,465     | 24,432              |
| 1969 | 998                             | 998         | 20,478                           | 21,200     | 24,356              |
| 1970 | 1,008                           | 1,008       | 20,093                           | 20,517     | 23,914              |
| 1971 | 1,008                           | 1,008       | 19,933                           | 20,232     | 22,954              |
| 1972 | 984                             | 1,015       | 19,876                           | 20,130     | 23,030              |
| 1973 | 981                             | 1,012       | 19,898                           | 20,171     | 22,309              |
| 1974 | 983                             | 1,007       | 19,582                           | 20,023     | 21,253              |
| 1975 | 982                             | 997         | 18,406                           | 19,285     | 20,954              |
| 1976 | 971                             | 997         | 18,410                           | 19,243     | 20,823              |
| 1977 | 967                             | 1,001       | 18,074                           | 19,044     | 21,313              |
| 1978 | 968                             | 1,000       | 17,967                           | 18,541     | 20,575              |
| 1979 | 954                             | 997         | 18,441                           | 18,821     | 19,181              |
| 1980 | 950                             | 980         | 18,038                           | 19,194     | 18,809              |
| 1981 | 942                             | 979         | 17,701                           | 18,666     | 18,015              |
| 1982 | 982                             | 981         | 19,195                           | 18,830     | 17,851              |
| 1983 | 949                             | 982         | 20,616                           | 19,699     | 17,572              |
| 1984 | 948                             | 981         | 21,375                           | 19,391     | 17,797              |
| 1985 | 957                             | 982         | 21,526                           | 18,597     | 17,299              |
| 1986 | 971                             | 993         | 20,809                           | 18,412     | 17,427              |
| 1987 | 977                             | 985         | 20,935                           | 18,612     | 17,202              |
| 1988 | 954                             | 983         | 18,275                           | 18,722     | 17,239              |
| 1989 | 959                             | 988         | 21,379                           | 19,127     | 17,329              |
| 1990 | 946                             | 984         | 21,374                           | 19,036     | 17,122              |
| 1991 | 942                             | 985         | 21,544                           | 18,908     | 17,083              |
| 1992 | 959                             | 979         | 20,436                           | 18,448     | 17,105              |
| 1993 | 976                             | 975         | 21,706                           | 18,730     | 17,123              |
| 1994 | 987                             | 985         | 21,888                           | 19,098     | 17,141              |
| 1995 | 998                             | 980         | 20,821                           | 19,359     | 17,188              |
| 1996 | 1,004                           | 1,007       | 17,300                           | 18,823     | 17,198              |
| 1997 | 998                             | 998         | 17,332                           | 19,080     | 17,190              |

Source: *State Energy Data Report 1997, Consumption Estimates, September 1999.* Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy, Washington, DC.

\*The factor for fossil-fueled steam-electric plants is the average for electricity generated at U.S. fossil-fueled steam-electric plants. In the Combined State Energy Data System (CSEDS), this factor is applied to convert hydroelectricity; electricity generated for distribution from wood, waste, wind, photovoltaic and solar thermal energy; and imports and exports of electricity produced at hydroelectric and conventional power plants.

## GLOSSARY

**Asphalt:** A dark-brown-to-black cement-like material containing bitumens as the predominant constituents. It is obtained by petroleum processing.

**Aviation Fuel:** A category of fuel that includes aviation gasoline and jet fuel.

**Aviation Gasoline:** All special grades of gasoline for use in aviation reciprocating engines.

**Barrel:** A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons.

**Base (Cushion) Gas (natural gas):** The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

**Biomass:** Energy sources from recent-term organic (plant and animal) matter. Examples are fuelwood, waste wood, garbage and crop waste. Biomass-derived fuels result from the processing of biomass energy sources. Examples are wood byproducts (wood chips and dewatered wood liquors), pellets, briquettes, refuse-derived fuel (made from garbage), ethanol (made from crops, such as corn) and methanol (made from wood).

**British Thermal Unit(s) (Btu):** A unit of heat energy. The amount of energy required to raise the temperature of one pound of water 1 degree Fahrenheit. An average Btu content of fuel is a heat value per unit of quantity of fuel as determined from tests of fuel samples.

**Capability:** The maximum load that a generating unit, generating station or other electrical apparatus can carry under specified conditions for a given period of time without exceeding approved limits of temperature and stress.

**ccf:** One hundred cubic feet.

**Chained Dollars:** A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period covered and is therefore subject to less distortion over time.

**City Gate Price:** Price of natural gas at the point it is transferred from a pipeline to a local distribution company.

**Coal:** A black or brownish-black solid combustible substance formed by the partial decomposition of vegetable matter without access to air.

**Commercial Sector:** Nonmanufacturing business establishments, including hotels, motels, restaurants, wholesale businesses, retail stores, laundries and other service enterprises; health, social and educational institutions; and federal, state and local governments. Street lights, pumps, bridges and public services are also included.

**Conversion Factor:** A number that translates units of one system of measure into corresponding values of another system of measure.

**Crude Oil:** A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities.

**Daily Average Temperature:** The average of the maximum and minimum temperatures for a 24-hour period.

**Degree Days, Cooling:** The number of degrees the daily average temperature is above 65 degrees Fahrenheit.

**Degree Days, Heating:** The number of degrees the daily average temperature is below 65 degrees Fahrenheit.

**Degree Days, Normal:** The simple arithmetic averages of monthly or annual degree days over a baseline comparison period. International agreement set the baseline comparison period as the mean of a 30-year period, which will be updated at the end of each decade. The "official" period is 1961-90 until the 1971-2000 period becomes official sometime in late 2001 or early 2002.

**Degree Days, Population Weighted:** Heating or cooling degree days weighted by the population in the area in which the degree days are recorded. For example, to calculate the state population weighted degree days, the state is divided into nine climatically similar divisions that are assigned weights based on the ratio of the population of the division to the total population of the state.

**Development Well:** A well drilled within the proven area of an oil or a gas reservoir to the depth of a stratigraphic horizon known to be productive.

**Diesel Fuel:** Fuel used for internal combustion in diesel engines. See Distillate Fuel.

**Distillate Fuel:** Lighter fuel oils distilled off during the refining process and used primarily for space heating, on- and off-highway diesel engine fuel (e.g., railroad engine fuel and fuel for agricultural machinery) and electric power generation.

**Electrical System Energy Losses:** The amount of energy lost during generation, transmission and distribution of electricity (including electricity used by the generating plant).

**Electric Utility Sector:** Privately and publicly owned facilities for the generation, transmission, distribution or sale of electric energy.

**End-Use Sectors:** The residential, commercial, industrial and transportation sectors of the economy.

**End-Use Energy:** A measure of the energy content of fuels at the point where they are consumed. End use energy does not include energy lost during the generation and transmission of electricity.

**Energy:** The ability to do work.

**Energy Information Administration (EIA):** The independent statistical and analytical agency within the U.S. Department of Energy.

**Energy Source:** The primary source that provides the power that is converted to electricity through chemical, mechanical or other means.

**Exploratory Well:** A well drilled to find and produce oil or gas in an unproven area, to find a new reservoir in a field previously found to be productive or to extend the limit of a known reservoir.

**F.O.B. (Free on Board) Price:** The price actually charged at the point of loading.

**Gasohol:** A blend of at most 90 percent finished motor gasoline and at least 10 percent ethanol. This term has largely been replaced by the name "super unleaded with Ethanol".

**Gasoline:** A complex mixture of relatively volatile hydrocarbons, with or without additives, which have been blended to form a fuel suitable for use in internal combustion engines.

**Geothermal Energy:** Hot water or steam extracted from geothermal reservoirs in the Earth's crust and supplied to steam turbines that drive generators to produce electricity.

**Generating Unit:** An electric generator together with its prime mover.

**Generator Nameplate Capacity:** The full-load continuous rating of a generator, prime mover or other electrical equipment under specified conditions as designated by the manufacturer.

**Gigawatt (GW):** One billion watts.

**Gigawatt-hour (GWh):** One billion watt-hours.

**Heating Oil:** A distillate fuel oil for use in atomizing-type burners for domestic heating or for moderate capacity commercial and industrial burner units.

**Hydroelectric Power (Hydro Power):** Electricity generated by an electric power plant that relies on falling water to turn turbines.

**Industrial Sector:** Manufacturing, construction, mining, agricultural, fishing and forestry establishments.

**Jet Fuel:** Includes both naphtha-type and kerosene-type jet fuel.

**Kerosene:** A petroleum middle distillate used primarily in space heaters, cooking stoves and water heaters.

**Kilowatt (kW):** One thousand watts.

**Kilowatt-hour (kWh):** One thousand watt-hours. The amount of electricity needed to light ten 100-watt bulbs for an hour.

**Lubricants:** Substances used to reduce friction between bearing surfaces. Petroleum lubricants may be produced from either distillates or residuals.

**mcf:** One thousand cubic feet.

**Megawatt (MW):** One million watts.

**Megawatt-hour (MWh):** One million watt-hours.

**Middle Distillates:** A general classification of fuels that includes heating oil, diesel fuel and kerosene.

**Motor Gasoline:** Motor gasoline includes both leaded and unleaded grades of finished motor gasoline, reformulated motor gasoline, oxygenated motor gasoline, other finished motor gasoline, blending components and gasohol.

**Natural Gas:** A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in a gaseous phase or in solution with crude oil in natural underground reservoirs.

**Net Interstate Sales of Electricity:** The difference between the amount of electricity sales and electricity losses (due to generation and transmission) within Nebraska and the total amount of energy used in generating electricity within the state.

**Net Summer Capability:** The steady hourly output which generating equipment is expected to supply to system load (exclusive of auxiliary) power as demonstrated by tests at the time of summer peak demand.

**Net Winter Capability:** The steady hourly output which generating equipment is expected to supply to system load (exclusive of auxiliary) power as demonstrated by tests at the time of winter peak demand.

**Nominal Dollars:** Amounts that have not been adjusted to remove the effect of changes in the purchasing power of the dollar.

**Nominal Price:** The price paid for a product or service at the time of the transaction. The nominal price has not been adjusted to remove the effect of changes in the purchasing power of the dollar.

**Nuclear Power:** Electricity generated by an electric power plant with turbines that are driven by steam produced in a reactor by heat produced from the fission of nuclear fuel.

**Petroleum:** A generic term that refers to oil and oil products in all forms; e.g., crude oil, unfinished oils, etc.

**Petroleum Coke:** A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking.

**Photovoltaic and Solar Thermal Energy:** Energy radiated by the sun as electromagnetic waves that is converted into electricity by means of solar (photovoltaic) cells or concentrating (focusing) collectors.

**Power:** The rate at which energy is produced, used or converted from one form to another.

**Primary Energy:** A measure of the energy content of resources consumed including the energy lost during the production and transmission of electricity.

**Primary Energy Resources:** Petroleum, natural gas, coal, hydroelectric power and nuclear power.

**Prime Mover:** The engine, turbine, water wheel or similar machine that drives an electric generator.

**Propane:** A normally gaseous hydrocarbon extracted from natural gas or refinery gas streams. For the purposes of this statistical abstract, propane includes other liquefied petroleum gases (lpg) such as butane and ethane.

**Proven Reserves:** The estimated quantity of crude oil or natural gas which geological and engineering data demonstrate with a given probability to be recoverable in the future assuming current costs of operation and market prices.

**Rack (Terminal) Price:** Wholesale price.

**Renewable Energy:** Energy obtained from sources that are essentially inexhaustible (i.e., unlike fossil fuels of which there is a finite supply). Renewable sources of energy include wood, waste, photovoltaic and solar thermal energy.

**Residential Sector:** Private households that consume energy primarily for heating, water heating, air conditioning, lighting, refrigeration and cooking.

**Residual Fuel:** The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations.

**Road Oil:** Any heavy petroleum oil, such as residual asphaltic oil, used as a dust palliative and surface treatment on roads and highways.

**Short Ton (coal):** A unit of weight equal to 2,000 pounds.

**Special Fuels:** Alternative fuels used in combustion engines, such as biodiesel or liquid petroleum.

**Stripper Well:** Well that produces less than ten barrels of crude oil per day.

**Subbituminous Coal:** Subbituminous coal, or black lignite, is dull black and generally contains 20 to 30 percent moisture. Subbituminous coal, mined in the western coal fields, is used for generating electricity and space heating.

**Terawatt:** One trillion watts.

**Terawatt-hour:** One trillion watt-hours.

**Therm:** One hundred thousand Btu. This is approximately the energy in one hundred cubic feet of natural gas.

**Transportation Sector:** Private and public vehicles (e.g., cars, trains, buses) used for the transportation of people and goods.

**Vessel Bunkering:** Includes sales for the fueling of commercial or private boats, inclusive to oil company vessels but excluding military vessels.

**Watt:** An electrical unit of power. The rate of energy transfer equivalent to one ampere flowing under a pressure of one volt at unity power factor.

**Watt-hour (Wh):** An electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

**Wellhead Price:** Represents the sales price, including charges for natural gas plant liquids subsequently removed from the gas, gathering and compression charges, and State production, severance and/or similar charges.

**Wind Energy:** The kinetic energy of wind converted into mechanical energy by wind turbines (i.e., blades rotating from a hub) that drive generators to produce electricity for distribution.

**Working (Top Storage) Gas (natural gas):** The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.

**Year of Commercial Operation:** The year in which the control of the loading of a generating unit is turned over to the system dispatcher.



The Energy Office logo on the back cover is from the “Genius of Creative Energy” floor mosaic by Hildreth Meiere located between the vestibule and foyer inside the north door of the State Capitol in Lincoln, Nebraska.

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