K. Seiferlein

DOE/EIA-0214(89)
May 1991

State Energy Data Report

Consumption Estimates
1960–1989

Energy Information Administration

State Energy Data Report

The *State Energy Data Report* presents estimates of annual energy consumption at the State and national levels by major economic sector and by principal energy type for 1960 through 1989. Included in the report are documentation describing how the estimates were made for each energy source, sources of all input data, and a summary of changes from the *State Energy Data Report* published in April 1990.

Publication of this report is in keeping with responsibilities given to the Energy Information Administration (EIA) in Public Law 95-91 (Department of Energy Organization Act) which states, in part, in Section 205(a)(2) that:

> "The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze, and disseminate data and information...."

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Released for Printing: May 20, 1991

Rec'd. 6/5/91

Ordering Information

This publication is available from the Superintendent of Documents, U.S. Government Printing Office (GPO). Prices and ordering information for this and other Energy Information Administration (EIA) publications may be obtained from the GPO or from EIA's National Energy Information Center. Addresses and telephone and telecommunications device for the deaf (TDD) numbers appear below.

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DOE/EIA-0214(89)
Distribution Category UC-98

State Energy Data Report

Consumption Estimates 1960–1989

State Energy Data Report, Consumption Estimates 1960-1989

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(484 pp.)
May 1991
DOE/EIA-0214(89)

GPO Stock No. 061-003-00700-7
GPO Single Copy
Domestic - $23.00, Foreign - $28.75

Energy Information Administration
Office of Energy Markets and End Use
U.S. Department of Energy
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The State Energy Data System (SEDS) diskettes contain data from the EIA publication *State Energy Data Report, Consumption Estimates, 1960-1989.*

The hard-copy report provides estimates, as developed by SEDS, of energy consumption by major end-use sectors. SEDS is a data base used by the EIA for estimating, annually, the consumption of energy by end-use sectors (residential, commercial, industrial, and transportation) and by electric utilities.

The set of five 5 1/4 inch, high-density diskettes, presenting the data by States within the four Census regions, costs $75. Diskettes may be purchased individually for $15 each. However, for purchasers of Census Region 3 information, the price is $30 (the data are spread across two diskettes).

This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or reflecting any policy position of the Department of Energy or any other organization.

Other State-Level Data in EIA Reports

Readers of the *State Energy Data Report* may be interested in the following EIA reports containing State-level data on these subjects:

State Energy Price and Expenditure Report 1988, DOE/EIA-0376(88). Energy prices and expenditures based on the consumption values estimated in the *State Energy Data Report 1960–1988.*

Petroleum Supply Monthly, DOE/EIA-0109. Production of crude oil; refinery, natural gas plant, and bulk terminal stocks of selected petroleum products; and imports of residual fuel by sulfur content.

Petroleum Supply Annual, Volume 1, DOE/EIA-0340/1. Annual data on production of crude oil; refinery and bulk terminal stocks of selected petroleum products; imports of residual fuel for States of entry by sulfur content; number and capacities of operable refineries; working storage and shell storage capacities at refineries and gasoline blending plants; and shutdown, new, and reactivated refineries.

Petroleum Supply Annual, Volume 2, DOE/EIA-0340/2. Data series as in Volume 1 shown by month for production of crude oil; refinery and bulk terminal stocks of selected petroleum products; and imports of residual fuel oil for States of entry by sulfur content.

Petroleum Marketing Monthly, DOE/EIA-0380. Refiner/reseller sales prices and volumes for leaded and unleaded regular, premium, and average motor gasoline by type of seller; refiner sales prices and volumes to end users and for resale of aviation gasoline, kerosene-type jet fuel, propane (consumer grade), kerosene, No. 1 distillate, and No. 2 distillate; sales prices of No. 2 distillate for selected States by type of seller and end user; sales prices of No. 2 fuel oil for selected States by end user; refiner/reseller prices of residual fuel for selected States by sulfur content; volumes of first sales for consumption of motor gasoline by grades, aviation gasoline, kerosene-type jet fuel, propane, and distillate fuel oils; Federal and State motor fuel taxes.

Petroleum Marketing Annual, DOE/EIA-0487. Annual and monthly data for refiner/reseller sales prices and volumes for leaded and unleaded regular, premium, average, and total motor gasoline by type of seller; refiner sales prices and volumes to end users and for resale of aviation gasoline, kerosene-type and naphtha-type jet fuels, propane (consumer grade), kerosene, No. 1 distillate, and No. 2 distillate; sales prices of No. 2 distillate for selected States by type of seller and end user; sales prices of No. 2 fuel oil for selected States by end user; refiner/reseller prices of residual fuel for selected States by sulfur content; volumes of first sales for consumption of motor gasoline by grades, aviation gasoline, kerosene-type jet fuel, propane, and distillate fuel oils.

Fuel Oil and Kerosene Sales 1989, DOE/EIA-0535(89). Sales and adjusted sales of distillate fuel oil, residual fuel oil, and kerosene by end-use sector.

U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, DOE/EIA-0216. (Annual) Estimated crude oil proved reserves and indicated additional reserves, reserves changes, and production; historical reserves; estimated total natural gas, nonassociated natural gas, associated-dissolved natural gas, dry natural gas, and natural gas liquids proved reserves, reserves changes, and production; estimated natural gas plant liquids and lease condensate proved reserves and production.

U.S. Oil and Gas Reserves by Year of Field Discovery, DOE/EIA-0534. Estimated crude oil and natural gas production, reserves, and ultimate recovery by State and Subdivision and by year of discovery for 1988 and selected years 1977–1987.

Natural Gas Monthly, DOE/EIA-0130. Marketed production of natural gas; well determination filings; activities of underground storage operators; deliveries and average prices to residential, commercial, industrial, electric utility, and all consumers; city gate prices; and percentage of total deliveries represented by onsystem sales.

Natural Gas Annual 1989, DOE/EIA-0131/1. Natural gas production, transmission, and consumption balance table; gross withdrawals and marketed production; offshore withdrawals; number of producing wells; estimated proved reserves; reported wellhead value and imputed marketed value; volume and average price purchased from producers; interstate movements and movements across U.S. borders; additions to and withdrawals from storage; underground storage capacity; natural gas processed; liquids extracted; estimated extraction loss; supplemental gas supplies; consumption of natural gas, number of consumers, quantity, value, and heat content of natural gas delivered to consuming sectors; average city gate price; average price and heat content price of natural gas delivered to consuming sectors; and summary statistics for each State.

Natural Gas Annual 1988, Volume II, DOE/EIA-0131/2. Data for 1967 forward for gross withdrawals and marketed production; number of producing wells; average wellhead price and imputed marketed value; interstate movements and movements across U.S. borders; additions to and withdrawals from storage; supplemental gas supplies 1980 forward; production,

transmission, and consumption balance table; consumption of natural gas, number of consumers, quantity, and heat content of total natural gas delivered; average price and heat content price of natural gas delivered to consuming sectors; and average consumption and annual cost per consumer in the residential, commercial, and industrial sectors.

Gas Supplies of Interstate Natural Gas Pipeline Companies, DOE/EIA-0167 (Annual). Dedicated gas production and reserves by company and type of gas; changes in reserves, production, and R/P ratios; and five-year composite deliverability projections.

Estimation of U.S. Coal Reserves by Coal Type, DOE/EIA-0529 (Annual). Estimates of demonstrated, accessible, and recoverable reserve base of coal by type and mining method; demonstrated reserve base illegal and inaccessible reserves fractions by coal supply region.

Weekly Coal Production, DOE/EIA-0218. Bituminous coal and lignite and anthracite production, by week, month, and year-to-date. Electric utility plants data by month and/or year-to-date: coal-fired net generation; coal consumption and stocks; quantity, quality, and price (contract, spot, and by sulphur content) of coal receipts; and destination and origin of coal received at electric utility plants.

Coal Distribution, (Quarterly), DOE/EIA-0125. Distribution of coal to State of destination and consuming sectors by district of origin and method of transportation.

Quarterly Coal Report, DOE/EIA-0121. Coal production; receipts, consumption, and stocks by end-use sector; coke plant receipts, production, and stocks; and coal production trends.

Coal Production, DOE/EIA-0118 (Annual). Coal production and number of mines by type of mining, and mine production range; bituminous, subbituminous, lignite, and anthracite production by coal group; production by coal rank, minebed thickness, and type of mining; production and average mine price by type of mining, disposition, and coal rank; underground and surface mining productivity; average number of miners working daily by type of mining; recoverable coal reserves and average recovery percentage by type of mining; average daily production, daily productive capacity, and percent utilization; stocks; and demonstrated reserves base by rank and potential method of mining.

Electric Power Monthly, DOE/EIA-0226. Net generation by energy source; consumption of fossil fuels by type of fuel; coal and petroleum stocks; receipts and average cost of coal by type; petroleum products by type and sulfur content; gas by type for steam-electric plants with capacity of 50-megawatts or larger; and sales of electricity to consuming sectors.

Electric Power Annual, DOE/EIA-0348. Number of electricity generators and generating capability, by fuel source and by type of generating unit; net generation by type of generating unit and by energy source; consumption and receipts of fossil fuels; stocks of coal and petroleum; average cost of fossil fuel receipts; sales of electricity and average number of consumers by end-use sector; revenue from sales and average retail prices by consuming sector; sulfur dioxide, nitrogen oxides, and carbon dioxide emissions by type of fossil fuel; and number and capacity of generators with environmental equipment by type of equipment. Appendices contain planned capability additions by energy source.

Cost and Quality of Fuels for Electric Utility Plants, DOE/EIA-0191 (Annual). Data for steam-electric plants with a capacity of 50 megawatts or larger: receipts of coal and average cost by sulfur content; origin and destination of coal receipts; receipts by type of coal; petroleum receipts by product type; gas receipts by type of gas; fossil fuels purchase data in Btu; average cost of coal receipts by type of purchase and type of mining, of petroleum receipts by type of purchase and product, and of gas receipts by type of purchase; coal and petroleum receipts and average cost by sulfur content and type of purchase; and origin and destination of coal receipts including quality and cost data.

Inventory of Power Plants in the United States, DOE/EIA-0095 (Annual). Number of generating units, operable capacity, and planned capacity additions by energy source. Information grouped by State (no State totals) on generating units that started operation and retired during report year; generating units capacity, type, energy source, and year of initial operation by company and plant; projected generating unit additions, 1990–1999, by company and plant; and jointly owned generating units by company and plant.

Electric Sales, Revenue, and Bills, DOE/EIA-0540 (Annual). Electric sales, revenues, and number of consumers by sector and by utility class of ownership; and average revenue per kilowatthour by sector and utility class of ownership. Includes monthly bills by type of consumer and level of consumption for electric utilities within States.

Nuclear Power Plant Construction Activity, DOE/EIA-0473 (Annual). Nuclear power unit information grouped by State (no State totals).

Uranium Industry Annual, DOE/EIA-0478. Reasonably assured resources by forward-cost category; economic reserves in tons of ore and pounds of uranium concentrate; uranium concentrate production, and employment in the uranium industry.

Solar Collector Manufacturing Activity, DOE/EIA-0174 (Annual). Destinations of solar collector shipments and top three States/territory solar collector manufacturing, and top five States/territory ranked by destination of solar thermal collector shipments.

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Introduction

Background. The *State Energy Data Report* (SEDR) provides estimates of energy consumption by major end-use sectors developed in the State Energy Data System (SEDS), which is maintained and operated by the Energy Information Administration (EIA). SEDS is a database for estimating the consumption of energy by end-use sectors (residential, commercial, industrial, and transportation) and electric utilities annually by State. The goal in maintaining SEDS is to produce historical data series of estimated end-use consumption by State, defined as consistently as possible over time and across sectors. SEDS exists for two principal reasons: (1) to provide State energy consumption estimates to the government, policy makers, and the public; and (2) to provide the historical series necessary for EIA's energy models.

In developing SEDS, efforts are made to ensure that the sums of the State data give national totals that equal as closely as possible the national totals for each energy type and end-use sector published in other EIA energy summary publications. Estimates in this *State Energy Data Report* are generally comparable to the statistics shown in the *Annual Energy Review 1990* and the *Monthly Energy Review,* March 1991.

Sources. SEDS provides estimates of energy consumption by principal energy sources and major end-use sectors, by State, for a 30-year period. Much of the SEDS data rely directly on collected State-level consumption data (see box, which summarizes the status of current data sources used in SEDS). Reliable, consistent series for long periods of time—especially in the earlier years—are difficult to develop, and estimates and assumptions must be applied to fill data gaps and to maintain definitional consistency. Although SEDS incorporates the most consistent series and procedures possible, users of this report should recognize the limitations of such a system due to changing and inadequate data sources. Some consumption estimates in SEDS are based on a variety of surrogate measures. The measures were selected principally on the basis of availability, applicability as an indicator of consumption, continuity over time, and consistency in maintaining the integrity of interrelated data of the various energy sources.

Sources for SEDS input data are cited in Appendix C of the documentation. The original documents listed in Appendix C include descriptions of the data collection methodologies, universes, imputation or adjustment techniques (if any), and errors associated with the processes. Due to the numerous collection forms and procedures associated with these reports, it is not possible to develop a meaningful numerical estimate of the overall errors of the material published in this report.

Collected Data and Estimated Values in SEDS

Coal. U.S. anthracite, bituminous coal and lignite, and total coal consumption data by sector are directly from EIA's *Quarterly Coal Report (QCR)* or are unpublished data from EIA's Weekly Coal Production database. Total coal consumption by State and for most sectors is from the *QCR* except where values are withheld and must be estimated. The State-level dissagregation of the *QCR*'s combined residential and commercial sector and the combined anthracite and bituminous coal and lignite use in all sectors (except electric utilities) are estimates. Electric utility coal consumption by State and coal type are data from the Form EIA-759 database.

Natural Gas. Natural gas consumption by State and sector are directly from the EIA's *Natural Gas Annual (NGA).* Two data series from the *NGA,* natural gas consumed as lease and plant fuel and natural gas delivered to industrial consumers, are combined in SEDS as industrial sector consumption.

Petroleum. U.S. total consumption for each petroleum product is the "Product Supplied" data from EIA's *Petroleum Supply Annual.* State values for distillate fuel and residual fuel consumption at electric utilities are unpublished data from EIA's Form EIA-759 database. All other State and sector values for consumption of petroleum products are estimates based on sales data series from several sources.

Electricity. Electricity consumption is sales data by sector and State from EIA's *Electric Power Annual (EPA)* with one exception. The *EPA* "Other" category is allocated to the transportation and commercial sectors in each State by estimation.

Nuclear Electric Power, Hydroelectric Power, Geothermal Energy, and Other Energy Sources used at Electric Utilities. All sources of energy used in electricity generation by State are from the *EPA* or unpublished data from the Form EIA-759 database.

Hydroelectric Power Generated and Consumed by the Industrial Sector. These data, collected by the Federal Power Commission for 1960 through 1978, are estimated for 1979 forward.

Electrical System Energy Losses and Net Interstate Flow of Electricity. These series are estimated in SEDS.

Improvements. The changes in methodologies and other improvements that were made in this update are summarized in Appendix E. When methodological changes are made, they are applied to the entire historical series. This ensures that, to the extent possible, the historical series are developed in a consistent manner. Thus, in some instances, comparisons of estimates in this report to those in previous issues are not valid.

In this edition of the SEDR, the largest quantitative changes occurred in the data series representing military use of aviation gasoline and naphtha-type jet fuel. These data are collected by the U.S. Department of Defense and are used to estimate each State's proportional share of the U.S. total "product supplied" data from EIA's *Petroleum Supply Annual.* The collection of military retail issues of aviation gasoline and naphtha-type jet fuel was discontinued by the Department of Defense, Defense Logistics Agency. Evaluation of the series used in SEDS and other Department of Defense data series evoked several changes in the SEDS aviation gasoline and naphtha-type jet fuel military series. The retail issues data series used in SEDS began in 1975, and the 1975 values were used for 1960 through 1974. After reevaluation of the 1975 data series, the 1977 data are used in this year's SEDS for 1960 through 1976. Consumption of aviation gasoline and naphtha-type jet fuel in the District of Columbia was assumed to be zero for all years and the military retail issues reported for the District of Columbia were added to Maryland values. The Department of Defense wholesale issues of fuels to the military are used in this version of SEDS for 1989 naphtha-type jet fuel. The wholesale issues of aviation gasoline are combined with the Department of Defense series of aviation gasoline "Into-Plane" sales to create a 1989 military aviation gasoline series in this SEDS.

Methodology. Energy consumption is estimated using existing data surveys that report consumption directly and from sales or distribution surveys at State levels. In many cases, report survey data do not cover the entire universe and, therefore, do not equal the national consumption. For petroleum, product supplied is a surrogate for consumption and is derived by summing field and refinery production, plus imports, minus exports, plus or minus change in stocks. To ensure consistency among the interrelated data series, State sales survey data are used as ratios to disaggregate the national product supplied total to State levels. Appendix A contains the specific assumptions for all of the estimates in SEDS.

In reports prepared by the Bureau of Mines in the late 1960's and early 1970's, petroleum consumption was equated to "demand." Later, consumption was equated to "apparent demand" and more recently to "product supplied." Changes in surveys and reduction of data collections, especially after 1978, disturbed the continuity of some consumption series, especially for distillate fuel, residual fuel, kerosene, and liquefied petroleum gases. Further discussion regarding these fuels can be found in the documentation.

Methods are also created to estimate State electrical system energy losses that are not available from any surveys. Specific estimates are developed for Alaska and Hawaii and for the 48 contiguous States. Total electrical system energy losses are allocated to individual States in proportion to each State's total electricity sales. Section 5 of Appendix A explains the methodology in detail. EIA is examining a method to disaggregate the estimates of net interstate flow of electricity and electrical system energy losses that are currently combined in SEDS. Note 3 and Tables A4 through A7 in the Electricity section of Appendix A (pages 383–386) discuss and illustrate the new methodology. Comments and suggestions on the methodology would be appreciated.

Comparison with Other Energy Consumption Reports. Readers of this report may be familiar with other EIA consumption estimates from end-user surveys. Although there are some elements in common, these end-user surveys and SEDS have substantially different approaches and objectives. The surveys of energy consumption by residential households from the Residential Energy Consumption Survey (Form EIA-457 series), for personal transportation from the Residential Transportation Energy Consumption Survey (Form EIA-876 series), and by commercial buildings from the Commercial Buildings Energy Consumption Survey (Form EIA-871 series, formerly called the Nonresidential Buildings Energy Consumption Survey) provide detailed information about the end users, their size, their stock of energy-consuming equipment and appliances, and their total energy consumption and expenditures. The Manufacturing Energy Consumption Survey (Form EIA-846 series) collects consumption, fuel switching capability and limited end-user data from manufacturing establishments. SEDS, on the other hand, provides limited characterization of the end users, but provides estimates of aggregate consumption and relative shares by fuel type. For example, the Residential Transportation Energy Consumption Survey covers only household vehicles; SEDS covers all uses of energy for transportation of persons and commodities. Similarly, the Commercial Buildings Energy Consumption Survey covers only energy consumption in commercial buildings, while SEDS includes other commercial consumption such as street lighting and public services; and the Manufacturing Energy Consumption Survey covers only manufacturing establishments, while SEDS includes other industrial energy consumption. The end-user surveys provide energy consumption at national and Census region and/or Census division levels; whereas, the estimates in SEDS are on national and State levels. The reference periods are also different in that SEDS covers calendar years from 1960 through 1989, while the end-user surveys are for selected years and the residential end-user surveys taken prior to 1987 cover a heating system year (i.e., April through March). Beginning with the 1987 residential end-user survey, the reference period is a calendar year. For a more detailed description of the differences in SEDS and the end-user surveys, see the EIA

analysis report, *Energy Consumption by End-Use Sector: A Comparison of Measures by Consumption and Supply Surveys,* DOE/EIA-0533, April 1990.

Sectors. The various surveys used as input to SEDS do not necessarily define the consuming sectors exactly the same. In this report, energy consumption has been assigned to the five sectors according to the following general aggregations:

- **Residential Sector:** All private residences whether occupied or vacant, owned or rented, including single-family homes, multifamily housing units, and mobile homes. Secondary homes, such as summer homes, are also included. Institutional housing such as school dormitories, hospitals, and military barracks generally are not included in the residential sector; they are included in the commercial sector. The SIC code used to classify an establishment as residential is 88 (Household).
- **Commercial Sector:** Business establishments that are not engaged in transportation or in manufacturing or other types of industrial activity (agriculture, mining, or construction). Commercial establishments include hotels, motels, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises; religious and nonprofit organizations; health, social, and educational institutions; and Federal, State, and local governments. Street lights, pumps, bridges, and public services are also included if the establishment operating them is considered commercial. SIC codes used to classify an establishment as commercial are 50 through 87, 89, and 90 through 97.
- **Industrial Sector:** Manufacturing industries—which make up the largest part of the sector—along with mining, construction, agriculture, fisheries, and forestry. Establishments in the sector range from steel mills, to small farms, to companies assembling electronic components. The SIC codes used to classify establishments as industrial are 1 through 39.
- **Transportation Sector:** Establishments that transport goods or people via railways, buses, trucks, ships, barges, and aircraft. The SIC codes used to classify establishments as belonging to the transportation sector are 40 through 49.
- **Electric Utility Sector:** Privately and publicly owned establishments that generate electricity primarily for use by the public.

Although the end-use allocations are made according to these aggregations as closely as possible, some data are collected using different classifications. For example, agricultural use of natural gas is collected and reported in the commercial sector, rather than the industrial sector. Since agricultural use of natural gas cannot be identified separately, it is included in the commercial sector in this report. Another example is master-metered condominiums and apartments, and buildings with a combination of residential and commercial units. In many cases, the metering and billing practices cause residential energy usage of electricity, natural gas, or fuel oil to be included in the commercial sector. No adjustments for these discrepancies were made.

Limitations. The SEDS does not provide further disaggregated end-use consumption estimates. For example, the industrial sector cannot be broken down into the chemical or rubber industries, or all manufacturing, or agriculture. The input series for the system are provided in broad end-use categories from the data collection forms and are not available by the individual components. Further disaggregated regional information such as counties or cities are also not available from SEDS.

Highlights

United States Overview

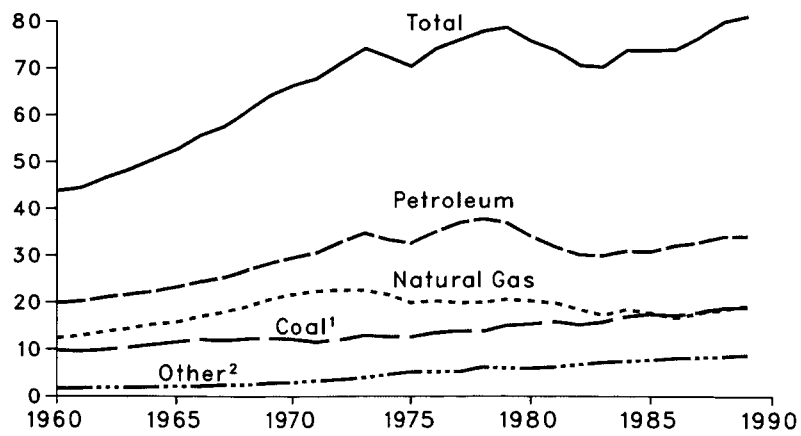
Energy consumption in the United States grew by 1 percent in 1989 to reach 81 quadrillion British thermal units (Btu) (Figure HL1). U.S. consumers used 86 percent more energy in 1989 than they had in 1960. Total consumption grew steadily from 1960 through 1973, declined in 1974 and 1975 right after the Arab oil embargo, and then, grew to a peak in 1979. Due to large increases in the price of crude oil from 1979 through 1981, energy consumption fell through the early 1980's, followed by steady growth in the second half of the decade.

Consumption by Source. During the 30-year period covered in this report, petroleum was the leading source of energy in the United States. Fluctuations in total energy use closely reflected those of petroleum consumption. Petroleum supplied between 42 percent and 49 percent of the Nation's energy total each year and grew from 20 quadrillion Btu in 1960 to 34 quadrillion Btu in 1989. Natural gas was the second-largest supplier of energy except in 1986 through 1988 when coal use surpassed natural gas. The increased use of coal by electric utilities caused coal consumption to double between 1960 and 1989. Since 1984, coal and natural gas each furnished between 17 and 19 quadrillion Btu of energy. The sources of energy with the greatest relative increases in consumption since 1960 were those using newer technologies for electricity generation: nuclear-based electricity increased from 6 trillion Btu in 1960 to 6 quadrillion Btu in 1989, and geothermal energy increased from 1 trillion Btu in 1960 to 197 trillion Btu in 1989.

Consumption by Sector. Of the four major end-use sectors, the industrial sector consumed the most energy and experienced the greatest fluctuation in energy use (Figure HL2). Industrial energy consumption grew 57 percent from 20 quadrillion Btu in 1960 to 32 quadrillion Btu in 1973, then fluctuated before reaching a peak of 33 quadrillion Btu in 1979. After declining in the early 1980's, and fluctuating in the mid 1980's, consumption expanded in 1987 through 1989. The second-largest sector, transportation, doubled its use of energy from 11 quadrillion Btu in 1960 to 22 quadrillion Btu in 1989. Transportation consumption growth was strong throughout the period studied except for a pause in 1974 and 1975 and a decline from 1978 through 1982; the sector increased annually from 1983 through 1989. Consumption by the residential sector more than doubled from the 8 quadrillion Btu in 1960 to the high of 17 quadrillion Btu in 1989. Residential use of energy increased slowly over the period with a slight decrease in 1974 and some fluctuation from 1979 through 1983. The commercial sector, which consumed the least energy of the four sectors, showed the steadiest increase in energy consumption over the 30-year period, experiencing minor decreases only in 1974 and 1980.

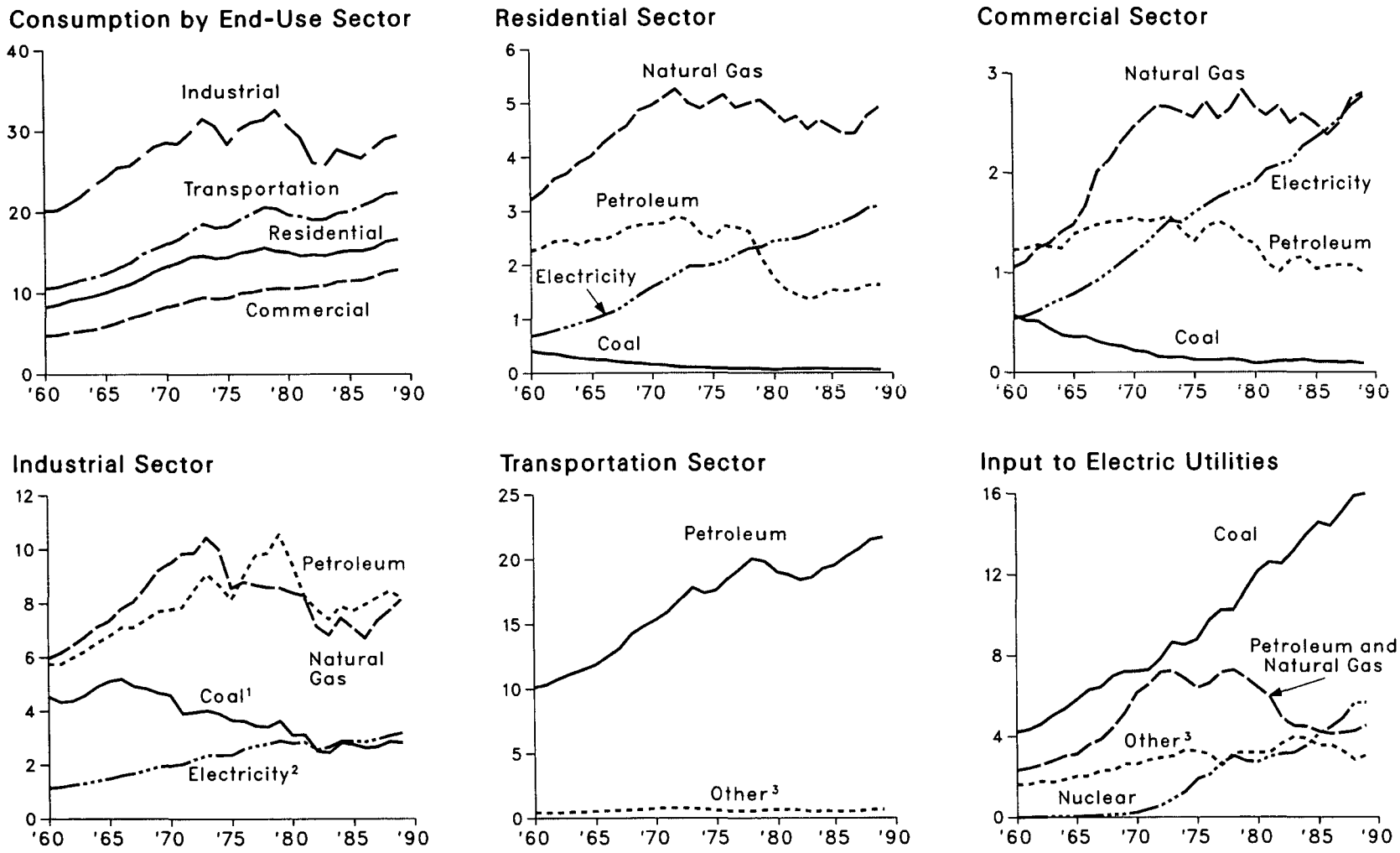
Residential Sector. Natural gas was the leading supplier of energy to the residential sector throughout the 30-year period. Natural gas use rose steadily from 3 quadrillion Btu in 1960, peaked in 1972, and then fluctuated year-by-year while generally declining from 1973 through 1986. Natural gas use expanded in both 1988 and 1989, reaching 5 quadrillion Btu in 1989, the highest level in 10 years. Petroleum use grew gradually from 1960 to a peak in 1972. A severe decline in petroleum use occurred from 1976 to a low point in 1983, followed by a general upward trend. Electricity consumption increased almost every year from less than 1 quadrillion Btu in 1960 to 3

Figure HL1. U.S. Energy Consumption by Source, 1960–1989
(Quadrillion Btu)



¹ Coal includes net imports of coal coke.
² "Other" is electricity generated for distribution from nuclear electric, hydroelectric, geothermal, wood and waste, wind, photovoltaic, and solar thermal energy sources.
Source: Table 9.

Figure HL2. U.S. Energy Consumption by Sector and Source, 1960–1989
(Quadrillion Btu)



¹ Coal includes net imports of coal coke in the industrial sector.
² Electricity includes industrial electricity generation from hydropower in the industrial sector.
³ "Other" for the transportation sector is coal, natural gas, and electricity. "Other" for electric utilities is electricity generated for distribution from hydroelectric, geothermal, wood and waste, wind, photovoltaic, and solar thermal energy sources.
Note: Electricity is consumption only and does not include losses incurred in the generation, transmission, and distribution of electricity.
Note: Because vertical scales differ, graphs should not be compared.
Source: Tables 9 through 14.

quadrillion Btu in 1989. Electricity supplied 8 percent of the sector's energy use in 1960 and 19 percent by 1989. Coal consumption, on the other hand, generally declined throughout the period and was only an incidental energy supplier to the residential sector after the late 1960's.

Commercial Sector. The energy use patterns in the commercial sector closely resembled those of the residential sector. There was dramatic growth in the reliance on electricity. Use of coal fell off significantly. Natural gas consumption expanded strongly until 1972, and then fluctuated until growth resumed in 1987. Petroleum use grew modestly until 1973, and then, despite two temporary upturns, experienced a downward trend through the next 16 years.

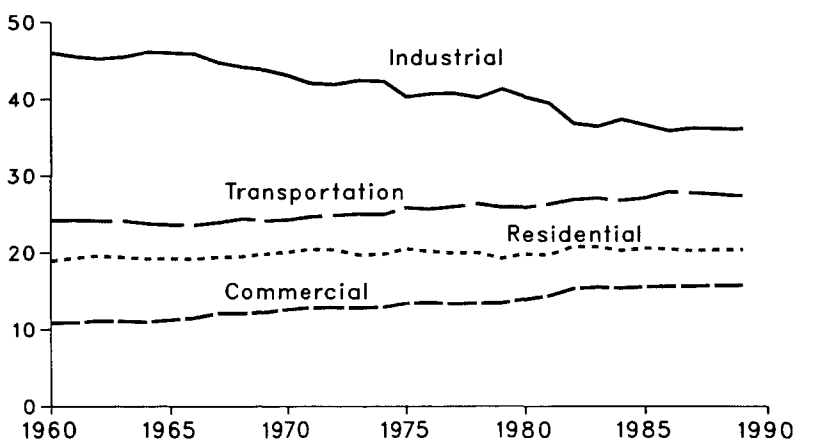
Industrial Sector. Over the period studied, natural gas and petroleum were the largest suppliers of energy to the industrial sector. Each of the fuels supplied about 6 quadrillion Btu of energy to the industrial sector in 1960 and both increased steadily until 1973. After a 1973 peak of 10 quadrillion Btu, natural gas usage generally declined until 1983, then fluctuated around 7 quadrillion Btu through 1987 and reached 8 quadrillion Btu in 1988 and 1989. Petroleum consumption dropped in 1974 and 1975, then resumed growth to a peak of 11 quadrillion in 1979. After 1979, petroleum consumption fell to 7 quadrillion Btu in 1983 and then remained around 8 quadrillion Btu through 1989. Coal, a significant industrial energy source in the 1960's, generally declined after supplying a high of 23 percent of the sector's energy requirements in 1960 to supplying only 9 percent of the sector's energy in 1989. Electricity's usage generally increased from 1960 through 1989 but at a slower rate than in the residential and commercial sectors.

Transportation Sector. The pattern of growth and contraction of energy use in the transportation sector is indicative of the trend in total energy consumption in the Nation. Steady expansion occurred over the entire period except for 1974, which was affected by the Arab oil embargo of October 1973 through March 1974, and 1979 through 1982, which were affected by the large increases in the price of crude oil in 1979, 1980, and 1981. Petroleum is the only significant source of energy in this sector, accounting for 95 to 97 percent of the sector's energy consumption throughout the 30-year period.

Electric Utilites. Consumption of energy by electric utilities grew from 8 quadrillion Btu in 1960 to 29 quadrillion Btu in 1989. Throughout the period, coal was the major source of energy used at electric utilities, accounting for 52 percent of the energy consumed in 1960 and 55 percent in 1989. Coal consumption at electric utilities grew from 4 quadrillion Btu in 1960 to 16 quadrillion Btu in 1989. Natural gas and petroleum combined provided as much as 39 percent of the electric utilities' total energy requirement in 1972 then generally declined to a low of 15 percent in 1988 followed by a slight recovery in 1989. The use of nuclear energy for electricity generation grew steadily from 0.1 percent of the sector's total in 1960 to 19.4 percent in 1989. In 1986, nuclear energy surpassed natural gas and petroleum combined and became the second-largest energy source for electric utilities. The use of hydroelectric power, geothermal, wood and waste, wind, photovoltaic and solar thermal energy sources for generating electricity grew steadily through the 1960's and reached a level of 3 quadrillion Btu in 1973, followed by fluctuations, a peak of 4 quadrillion Btu in 1983, and less usage of these renewable resources from 1984 through 1989.

End-Use Sector Shares of Total Energy Consumption. Over the 1960–1989 period, the industrial sector consumed the most energy, but its share decreased from 46 percent of the Nation's total energy use during the early 1960's to 36 percent after 1985 (Figure HL3). The transportation sector's share grew steadily over the period from 24 percent in the 1960's to 28 percent after 1985. The residential sector's portion of all consumption remained stable over the 30-year period, fluctuating between 19 and 21 percent of the total. The commercial sector showed the greatest expansion in energy use with its share of the total growing from 11 percent in 1960 to 16 percent in 1989. In summary, energy use in the U.S. economy between 1960 and 1989 generally shifted out of industrial uses and into commercial and transportation uses.

Figure HL3. End-Use Sector Shares of Total Consumption, 1960–1989
(Percent of Total)



Source: Tables 10 through 13.

Rankings of State[1] Energy Consumption in 1989

Texas and California consumed the most energy in 1989, an estimated 10 quadrillion Btu and 7 quadrillion Btu, respectively (Table HL1). California consumed considerably more energy than the third largest consumer, Ohio, which used 4 quadrillion Btu of energy in 1989. The 12 States that consumed over 2 quadrillion Btu of energy in 1989 (shown in dark shading in Figure HL4) accounted for 58 percent of the national total energy consumption. California and Texas also ranked among the top three in energy consumption by the residential, commercial, industrial, and transportation sectors. New York ranked third in residential sector and commercial sector energy consumption. Louisiana recorded the second-largest industrial sector energy consumption but used less than half of the amount consumed in Texas.

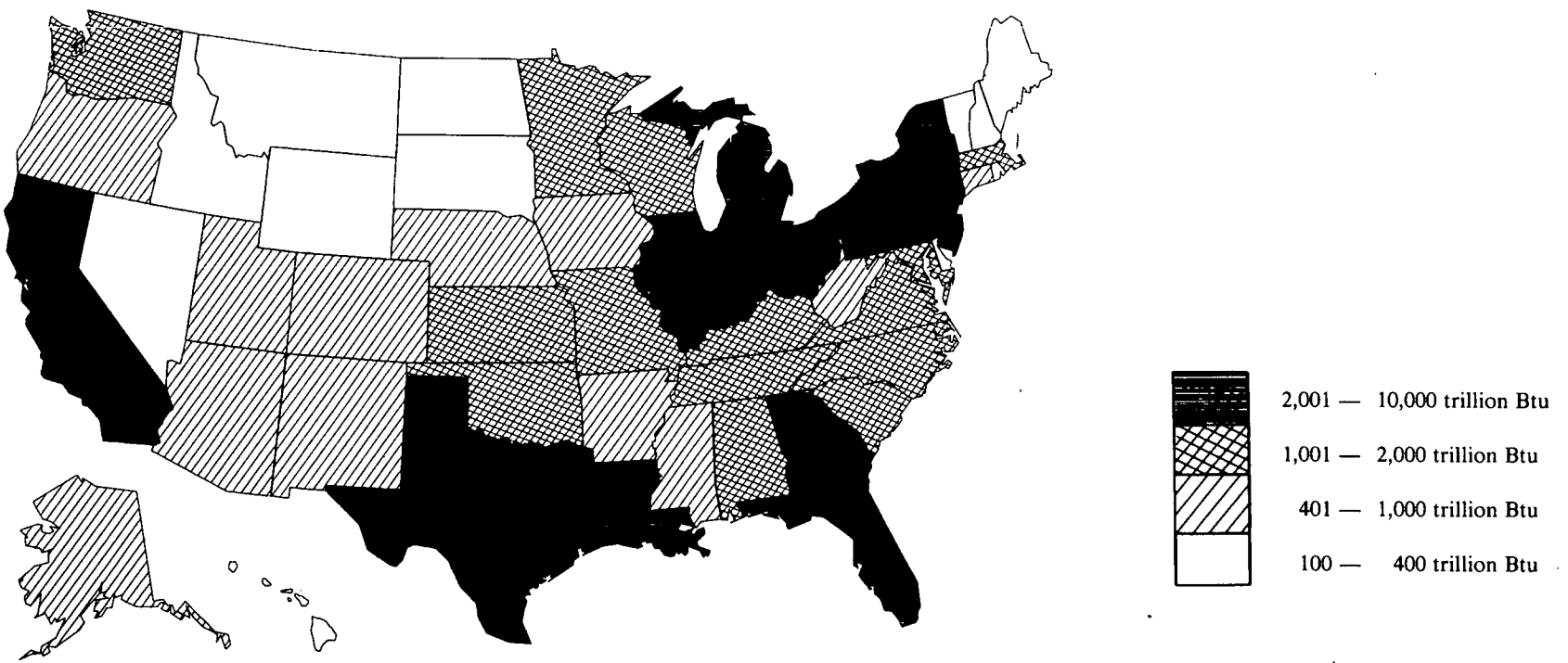
[1] "State" includes the District of Columbia.

Florida's transportation sector ranked third, with about half the transportation energy use of second-ranked Texas.

The sources of energy consumed varied greatly from State to State and were influenced by the natural resources of each State and its neighboring States. Texas and California were the two largest consumers of natural gas, petroleum, and electricity, but Ohio and Pennsylvania were the largest consumers of coal.

Vermont and the District of Columbia consumed the least energy during 1989 and had the smallest industrial and transportation sector consumption. Vermont was also lowest in commercial sector use of energy. Hawaii and Wyoming had the least residential sector energy consumption totals. Hawaii and Maine consumed the smallest amounts of natural gas in 1989; and Alaska and Vermont used the least electricity. Vermont and Rhode Island consumed the smallest amounts of coal; and the District of Columbia and Vermont used the least petroleum.

Figure HL4. Total Energy Consumption by State, 1989



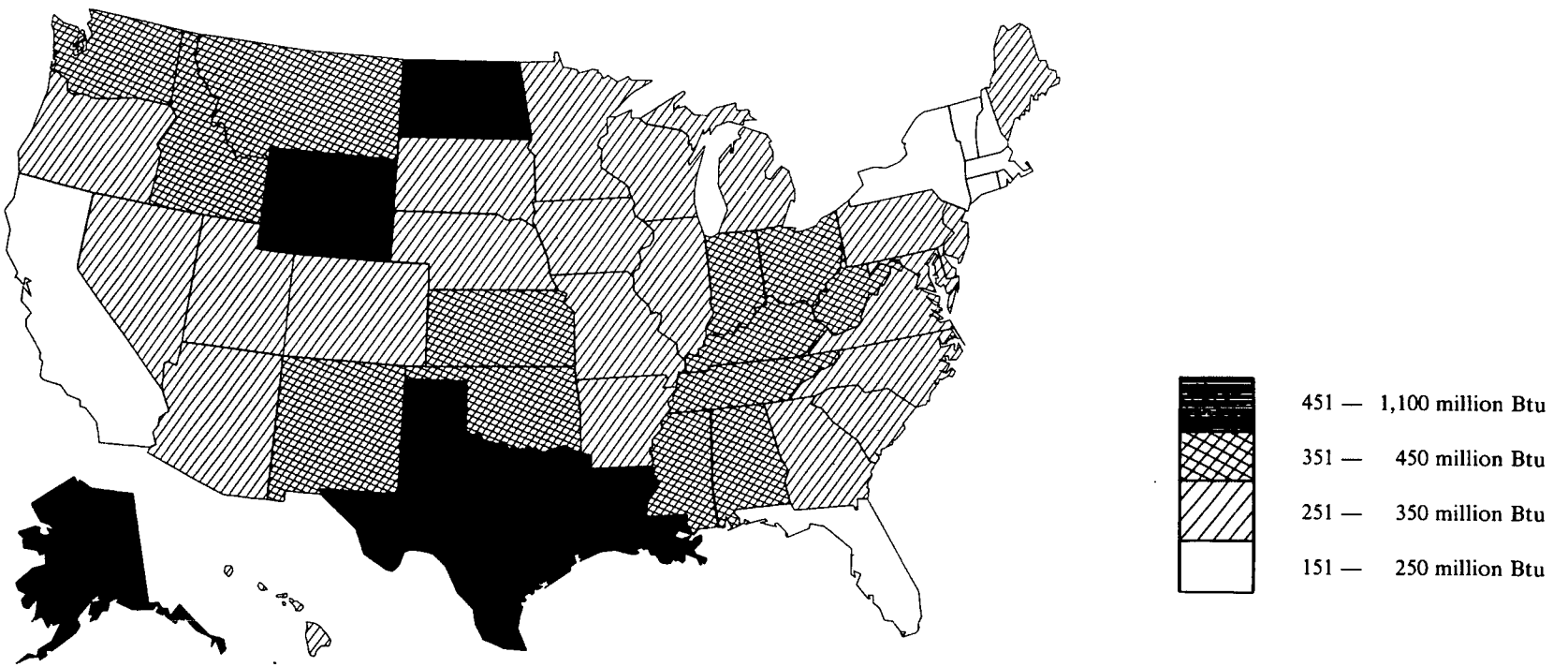
Source: Table HL1.

Energy consumption on a per capita basis ranged from 198 million Btu in New York to 1,075 million Btu in Alaska. Only five States, indicated by dark shading in Figure HL5, had per capita energy consumption levels above 450 million Btu in 1989 (Table HL2). Alaska and Wyoming, which ranked 1st and 3d in per capita energy consumption in 1989, ranked 35th and 40th in total energy consumption, respectively. Only Louisiana, Texas, and Indiana ranked among the 10 largest consuming States in both total and per capita energy consumption in 1989. Although New York's total energy consumption ranked 5th in the Nation, its consumption ranked lowest when calculated on a per capita basis. Similarly, California, second largest State energy consumer in 1989, ranked 44th in the per capita listing; and Florida, which was 8th in total energy consumption, ranked 46th in per capita use of energy.

Industrialization is a key factor in a State's energy consumption per capita. In 1989, the top five per-capita energy consuming States (Alaska, Louisiana, Wyoming, Texas, and North Dakota) had industrial sectors that consumed between 50 percent and 65 percent of each State's total energy, while their residential sectors consumed only 8 percent to 17 percent and their commercial sectors consumed only 7 percent to 12 percent of each State's total. The production and processing of fossil fuels were significant industries within these five States.

In contrast, in the five States that consumed the least energy per capita (New York, Rhode Island, New Hampshire, Vermont, and Massachusetts), the industrial sectors consumed much smaller portions of each State's total energy consumption, ranging from 15 percent to 22 percent. The residential sector shares in the five States, however, ranged from 29 percent to 32 percent, and commercial sector shares were 16 percent to 27 percent of the total. The portions of each State's total energy used per capita for transportation was not notably different in the highest per-capita consuming States versus the lowest per-capita consuming States.

Figure HL5. Energy Consumption Per Capita by State, 1989



Source: Table HL2.

Table HL1. Energy Consumption by Sector, Ranked by State, 1989
(Trillion Btu)

Rank	Residential Sector		Commercial Sector		Industrial Sector		Transportation Sector		Total Consumption	
1	California	1,270.2	California	1,243.9	Texas	5,358.6	California	2,773.9	Texas	9,689.6
2	Texas	1,154.6	Texas	1,026.6	Louisiana	2,300.0	Texas	2,149.8	California	7,127.2
3	New York	1,023.8	New York	977.0	California	1,839.2	Florida	1,128.9	Ohio	3,862.5
4	Illinois	897.5	Florida	659.4	Ohio	1,584.9	New York	871.7	Pennsylvania	3,589.5
5	Pennsylvania	866.9	Illinois	642.6	Pennsylvania	1,373.8	Ohio	828.3	New York	3,556.1
6	Ohio	864.4	Ohio	584.8	Indiana	1,196.1	Pennsylvania	816.3	Illinois	3,527.2
7	Florida	790.8	Pennsylvania	532.6	Illinois	1,194.5	New Jersey	813.1	Louisiana	3,523.2
8	Michigan	730.9	New Jersey	475.4	Michigan	899.6	Illinois	792.6	Florida	2,995.3
9	New Jersey	529.1	Michigan	449.3	Alabama	743.8	Louisiana	688.7	Michigan	2,763.8
10	North Carolina	458.4	Virginia	375.5	Tennessee	710.4	Michigan	684.1	Indiana	2,493.5
11	Indiana	447.8	North Carolina	326.7	New York	683.7	Georgia	676.2	New Jersey	2,338.4
12	Virginia	440.4	Massachusetts	325.9	Washington	670.0	Indiana	575.9	Georgia	2,030.0
13	Georgia	438.2	Georgia	312.6	Kentucky	620.2	Virginia	572.7	North Carolina	1,939.4
14	Massachusetts	417.4	Washington	287.7	North Carolina	603.5	North Carolina	550.9	Washington	1,883.4
15	Missouri	395.2	Missouri	286.3	Georgia	603.1	Washington	549.6	Virginia	1,839.0
16	Tennessee	382.3	Indiana	273.8	New Jersey	520.8	Missouri	484.1	Tennessee	1,763.4
17	Washington	376.1	Louisiana	241.1	Oklahoma	517.1	Tennessee	473.0	Alabama	1,642.6
18	Wisconsin	363.3	Wisconsin	235.8	South Carolina	478.7	Massachusetts	419.8	Missouri	1,517.8
19	Minnesota	327.5	Colorado	231.1	Minnesota	469.4	Alabama	404.8	Kentucky	1,474.9
20	Maryland	325.4	Arizona	207.8	Wisconsin	467.7	Kentucky	401.9	Wisconsin	1,412.5
21	Louisiana	293.4	Alabama	205.0	Virginia	450.5	Oklahoma	358.4	Massachusetts	1,371.8
22	Alabama	289.0	Tennessee	197.8	West Virginia	428.7	Maryland	356.7	Minnesota	1,335.2
23	Kentucky	276.7	Minnesota	194.6	Mississippi	421.2	Wisconsin	345.7	Oklahoma	1,291.4
24	Connecticut	245.2	Oklahoma	178.5	Maryland	416.6	Minnesota	343.8	Maryland	1,262.3
25	Oklahoma	237.4	Kentucky	176.2	Florida	416.3	Arizona	323.5	South Carolina	1,163.1
26	South Carolina	233.3	Connecticut	175.9	Kansas	394.5	Mississippi	294.9	Kansas	1,027.2
27	Iowa	219.3	Maryland	163.7	Missouri	352.3	South Carolina	291.9	Mississippi	988.8
28	Colorado	205.4	Kansas	163.5	Iowa	333.2	Kansas	287.1	Iowa	925.3
29	Oregon	202.9	South Carolina	159.2	Arkansas	319.8	Oregon	281.2	Arizona	916.0
30	Arizona	200.0	Oregon	159.2	Alaska	297.6	Colorado	267.4	Oregon	911.8
31	Kansas	182.1	Iowa	137.6	Oregon	268.4	Arkansas	235.8	Colorado	908.5
32	Mississippi	166.8	Nebraska	112.1	Wyoming	223.6	Iowa	235.2	Arkansas	824.8
33	Arkansas	164.2	Mississippi	105.8	Utah	217.1	Connecticut	219.3	West Virginia	799.0
34	West Virginia	132.0	Arkansas	105.1	Massachusetts	208.8	New Mexico	205.5	Connecticut	768.1
35	Nebraska	126.7	New Mexico	98.5	Colorado	204.7	Alaska	173.5	Alaska	566.6
36	Utah	99.7	West Virginia	88.2	Arizona	184.7	Nebraska	152.5	New Mexico	558.8
37	Maine	84.2	Utah	82.7	New Mexico	182.0	Hawaii	152.4	Utah	543.3
38	Nevada	79.2	District of Columbia	77.5	North Dakota	159.5	West Virginia	150.1	Nebraska	526.3
39	New Hampshire	78.4	Idaho	70.7	Montana	153.2	Utah	143.8	Nevada	382.6
40	Idaho	77.5	Nevada	66.4	Idaho	136.3	Nevada	133.2	Wyoming	381.4
41	New Mexico	72.8	Hawaii	52.8	Nebraska	135.1	Maine	110.4	Idaho	371.8
42	Rhode Island	64.8	Alaska	52.2	Connecticut	127.6	Idaho	87.4	Montana	349.8
43	Montana	62.2	Montana	50.7	Nevada	103.9	Wyoming	85.9	Maine	341.4
44	South Dakota	56.8	Maine	49.5	Maine	97.3	Montana	83.7	North Dakota	318.9
45	North Dakota	54.9	Rhode Island	44.3	Delaware	88.1	New Hampshire	76.8	Hawaii	299.0
46	Delaware	47.5	New Hampshire	39.2	Hawaii	68.6	North Dakota	67.6	New Hampshire	250.3
47	Alaska	43.4	Wyoming	37.3	South Dakota	58.1	South Dakota	64.7	Delaware	232.9
48	Vermont	38.5	North Dakota	37.0	New Hampshire	55.9	Delaware	64.6	South Dakota	212.0
49	District of Columbia	35.2	Delaware	32.8	Rhode Island	35.7	Rhode Island	60.9	Rhode Island	205.7
50	Wyoming	34.6	South Dakota	32.4	District of Columbia	33.1	Vermont	42.2	District of Columbia	174.9
51	Hawaii	25.3	Vermont	24.7	Vermont	25.5	District of Columbia	29.2	Vermont	130.8
	United States	**16,629.8**	**United States**	**12,867.2**	**United States**	**29,463.2**	**United States**	**22,381.9**	**United States**	**81,342.1**

Source: EIA, State Energy Data System 1989.

Table HL2. Energy Consumption by Source and Total Consumption per Capita, Ranked by State, 1989
(Sources: Trillion Btu; Consumption per Capita: Million Btu)

Rank	Coal		Natural Gas		Petroleum		Electricity[1]		Total Consumption per Capita	
1	Ohio	1,463.8	Texas	3,762.8	Texas	4,407.2	Texas	783.6	Alaska	1,075.2
2	Pennsylvania	1,463.7	California	1,905.8	California	3,539.5	California	696.5	Louisiana	804.0
3	Texas	1,326.0	Louisiana	1,598.9	New York	1,777.3	Ohio	483.2	Wyoming	803.1
4	Indiana	1,308.2	Illinois	1,013.8	Florida	1,554.9	Florida	472.4	Texas	570.3
5	West Virginia	928.9	New York	870.3	Louisiana	1,484.7	New York	437.4	North Dakota	483.3
6	Michigan	800.5	Ohio	848.3	Pennsylvania	1,309.3	Pennsylvania	388.6	Indiana	445.8
7	Kentucky	765.0	Michigan	796.9	New Jersey	1,279.6	Illinois	372.9	Montana	434.1
8	Illinois	714.2	Pennsylvania	707.1	Ohio	1,185.1	North Carolina	300.9	West Virginia	430.3
9	Georgia	676.8	Oklahoma	611.8	Illinois	1,160.3	Washington	295.7	Kansas	408.8
10	Alabama	673.8	Indiana	469.3	Michigan	944.2	Michigan	282.9	Oklahoma	400.6
11	Florida	630.2	New Jersey	468.9	Massachusetts	849.1	Georgia	262.9	Alabama	398.9
12	Tennessee	564.4	Kansas	338.5	Indiana	824.9	Tennessee	256.2	Kentucky	395.8
13	North Carolina	556.8	Florida	337.1	Georgia	802.7	Virginia	250.6	Washington	395.6
14	Missouri	549.9	Wisconsin	332.4	Virginia	772.0	Indiana	248.7	Mississippi	377.3
15	Wyoming	421.3	Georgia	325.2	Washington	757.8	New Jersey	216.1	Idaho	366.7
16	Wisconsin	393.3	A'aska	321.2	North Carolina	733.7	Louisiana	211.0	New Mexico	365.8
17	New York	362.5	Minnesota	301.6	Missouri	636.7	Kentucky	199.5	Tennessee	357.0
18	Virginia	362.2	Missouri	263.3	Alabama	601.7	Alabama	198.5	Ohio	354.1
19	North Dakota	361.6	Massachusetts	258.9	Tennessee	600.2	South Carolina	183.7	Delaware	346.1
20	Arizona	357.2	Alabama	252.2	Maryland	549.6	Missouri	179.4	Nevada	344.5
21	Utah	345.4	Arkansas	251.2	Kentucky	537.6	Maryland	168.0	Arkansas	342.8
22	Colorado	323.7	Colorado	245.6	Minnesota	508.9	Wisconsin	165.0	South Carolina	331.2
23	Minnesota	322.9	Mississippi	234.4	Wisconsin	498.3	Minnesota	156.7	Nebraska	326.7
24	Iowa	318.9	Tennessee	228.5	Connecticut	489.8	Massachusetts	155.8	Iowa	325.8
25	South Carolina	301.4	Iowa	228.2	Mississippi	475.5	Oregon	142.0	Oregon	323.3
26	Maryland	295.0	New Mexico	205.1	Oklahoma	442.0	Arizona	139.0	Utah	318.3
27	New Mexico	279.5	Kentucky	195.8	Kansas	418.8	Oklahoma	126.2	Georgia	315.4
28	Oklahoma	268.7	Maryland	195.7	South Carolina	388.8	Colorado	102.8	Minnesota	306.7
29	Kansas	266.4	Virginia	180.8	Arizona	353.9	Mississippi	100.9	Illinois	302.6
30	Louisiana	206.9	Washington	167.9	Oregon	351.4	Iowa	97.9	New Jersey	302.3
31	Arkansas	202.7	North Carolina	166.8	Iowa	324.4	Connecticut	93.3	Virginia	301.6
32	Montana	178.4	Arizona	151.4	Colorado	323.3	Arkansas	89.0	Michigan	298.1
33	Nevada	170.2	West Virginia	140.1	Arkansas	310.5	Kansas	88.1	Pennsylvania	298.1
34	Nebraska	131.9	Utah	123.4	Hawaii	294.0	West Virginia	77.9	South Dakota	296.5
35	Massachusetts	120.6	South Carolina	119.8	West Virginia	275.5	Idaho	60.8	North Carolina	295.2
36	Washington	96.9	Nebraska	118.6	New Mexico	233.4	Nebraska	59.9	Missouri	294.2
37	Mississippi	96.4	Oregon	111.8	Alaska	231.6	Nevada	51.0	Wisconsin	290.2
38	New Jersey	94.0	Connecticut	98.2	Maine	226.2	Utah	51.0	District of Columbia	289.7
39	Delaware	60.7	Wyoming	86.8	Nebraska	210.9	New Mexico	45.6	Maine	279.4
40	California	57.9	Nevada	65.5	Utah	203.2	Montana	44.5	Colorado	273.9
41	South Dakota	32.5	Idaho	46.8	Nevada	175.6	Maine	39.0	Maryland	268.9
42	New Hampshire	31.5	Montana	46.6	New Hampshire	165.6	Wyoming	38.3	Hawaii	268.9
43	Connecticut	23.6	Delaware	35.9	Montana	154.7	District of Columbia	32.9	Arizona	257.6
44	Idaho	9.7	Rhode Island	34.8	Delaware	137.3	New Hampshire	31.0	California	245.2
45	Oregon	6.8	District of Columbia	33.7	Wyoming	134.8	Delaware	27.5	Connecticut	237.1
46	Maine	6.7	North Dakota	31.6	North Dakota	118.2	Hawaii	27.1	Florida	236.4
47	Alaska	4.7	South Dakota	25.9	Idaho	118.0	North Dakota	24.0	Massachusetts	232.0
48	District of Columbia	1.4	New Hampshire	14.2	South Dakota	111.4	Rhode Island	21.7	Vermont	230.8
49	Hawaii	0.7	Vermont	6.0	Rhode Island	106.4	South Dakota	21.6	New Hampshire	226.2
50	Rhode Island	0.6	Maine	3.6	Vermont	73.5	Vermont	15.6	Rhode Island	206.1
51	Vermont	0.2	Hawaii	2.9	District of Columbia	42.1	Alaska	14.1	New York	198.1
	United States	**18,939.7**	**United States**	**19,384.3**	**United States**	**34,209.0**	**United States**	**9,030.9**	**United States**	**327.6**

[1] Electricity sold to end users, not including the losses incurred in the generation, transmission, and distribution of the electricity.
Source: EIA, State Energy Data System 1989.

Average Annual Growth Rates

An analysis of the average annual growth rates of energy consumption in each State before and after the 1973–74 oil embargo shows that every State experienced growth in energy consumption from 1960 through 1973 and U.S. total energy consumption grew at an average rate of 4.2 percent per year (Table HL3). After the embargo, however, 12 States recorded average annual declines in estimated energy consumption, and the U.S. average annual growth rate from 1973 through 1989 fell to 0.6 percent. Alaska had the largest average growth rates over the 30-year period, averaging 9.7 percent annual growth before 1973 and 7.0 percent after the embargo. During both time periods, Nevada had the second-largest rates of energy growth (although significantly smaller than Alaska's), averaging 7.6 percent before 1973 and 3.2 percent after the embargo. North Dakota and Florida recorded the third and fourth largest growth rates in the post-embargo period. States showing the largest decline rates in the post-embargo period were the New York, Pennsylvania, West Virginia, Illinois, and Massachusetts.

On a per capita basis, each State had a positive growth rate during the pre-embargo period, and the United States averaged 2.8 percent growth per year. After the embargo, the United States averaged an annual decrease of 0.4 percent and only 14 States registered increases in per capita energy consumption per year. States with the largest growth rates were Alaska, North Dakota, South Dakota, and the District of Columbia. States with the greatest decline rates in energy use per person in the post-embargo period were New York, Utah, Arizona, Maine, Pennsylvania, and Nevada.

Energy Consumption Changes in 1989

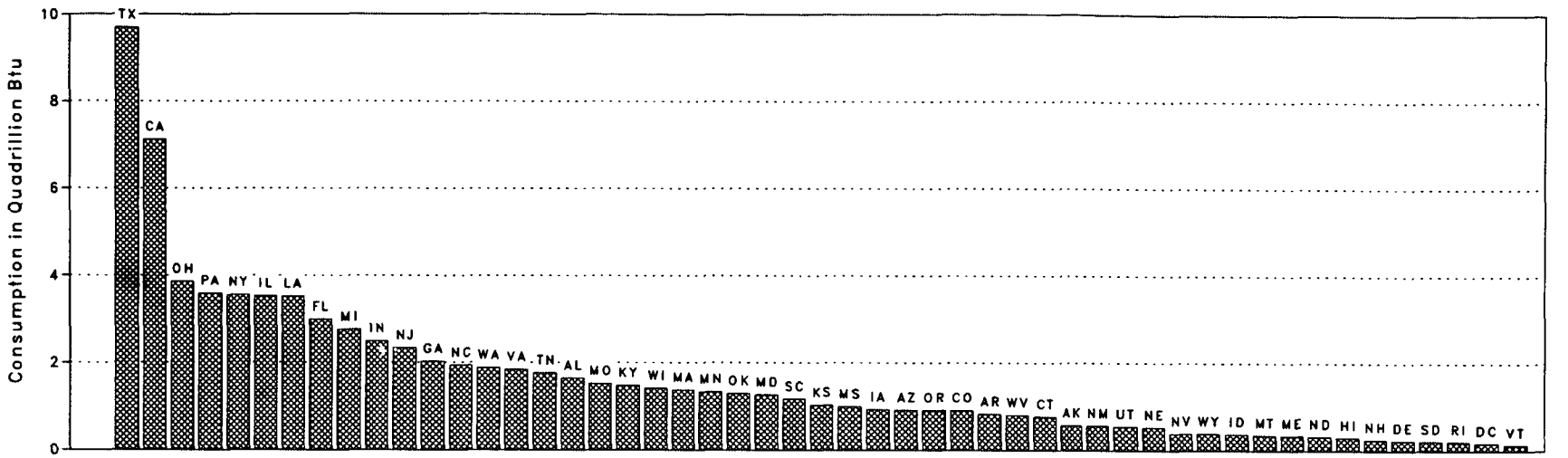
Comparing data for 1988 and 1989, only nine States consumed less energy in 1989, and estimated energy consumption in the country as a whole showed a small growth of 1.4 percent (Figures HL6 and HL7 and Table HL4). The largest changes in energy consumption during 1989 occurred in States that consume relatively little energy compared with other States. Of the top 10 energy-consuming States, Florida, Ohio California, and Texas each experienced 2-percent increases in consumption. Energy use declined in only 2 of the 10 largest consumers, New York and Illinois, by 1 percent and 2 percent, respectively, reflecting reduced energy consumption by the residential and commercial sectors in both States.

Table HL3. Average Annual Energy Consumption Growth Rates, Pre- and Post-Embargo
(Percent)

	Total Energy Use		Energy Use Per Capita	
	1960 Through 1973	1973 Through 1989	1960 Through 1973	1973 Through 1989
Alabama	4.6	0.7	3.9	-0.2
Alaska	9.7	7.0	6.5	3.9
Arizona	6.9	2.0	3.0	-1.2
Arkansas	5.6	0.3	4.4	-0.7
California	4.4	1.1	2.2	-0.9
Colorado	5.0	0.8	2.2	-0.9
Connecticut	3.0	0.3	1.5	-0.0
Delaware	3.8	-0.1	1.7	-1.0
Dist. of Columbia	3.8	-0.6	4.1	0.6
Florida	7.3	2.7	3.5	-0.3
Georgia	6.8	2.0	5.0	0.3
Hawaii	6.8	1.8	4.4	0.1
Idaho	4.7	0.8	3.4	-0.8
Illinois	3.7	-0.8	2.8	-1.0
Indiana	3.8	0.1	2.8	-0.2
Iowa	3.7	-0.2	3.4	-0.2
Kansas	3.3	0.4	3.0	-0.2
Kentucky	3.3	1.1	2.5	0.5
Louisiana	6.1	0.6	4.9	-0.3
Maine	4.2	-0.1	3.6	-1.1
Maryland	4.4	0.4	2.2	-0.4
Massachusetts	3.3	-0.7	2.3	-0.8
Michigan	4.1	-0.6	2.9	-0.8
Minnesota	4.5	0.5	3.4	-0.2
Mississippi	6.7	1.2	6.0	0.5
Missouri	3.8	0.5	3.0	0.0
Montana	3.4	0.2	2.8	-0.5
Nebraska	4.2	0.1	3.5	-0.2
Nevada	7.6	3.2	2.0	-1.1
New Hampshire	5.5	1.3	3.3	-0.7
New Jersey	4.1	0.5	2.6	0.2
New Mexico	3.0	1.0	1.8	-1.0
New York	3.1	-1.3	2.5	-1.2
North Carolina	5.4	1.7	4.0	0.4
North Dakota	1.8	2.9	1.8	2.6
Ohio	2.7	-0.5	1.9	-0.6
Oklahoma	4.5	1.5	3.3	0.4
Oregon	5.2	0.8	3.3	-0.6
Pennsylvania	2.2	-1.0	1.8	-1.1
Rhode Island	1.6	-0.6	0.6	-0.8
South Carolina	5.1	2.0	3.8	0.5
South Dakota	2.5	1.2	2.5	0.9
Tennessee	4.2	0.7	3.0	-0.4
Texas	4.7	1.2	2.9	-1.0
Utah	3.2	1.1	1.1	-1.2
Vermont	5.4	0.5	3.9	-0.7
Virginia	4.4	1.8	2.7	0.4
Washington	5.1	1.7	3.5	-0.3
West Virginia	3.2	-0.8	3.4	-1.0
Wisconsin	3.7	0.4	2.7	-0.0
Wyoming	5.4	1.9	4.9	0.1
United States	**4.2**	**0.6**	**2.8**	**-0.4**

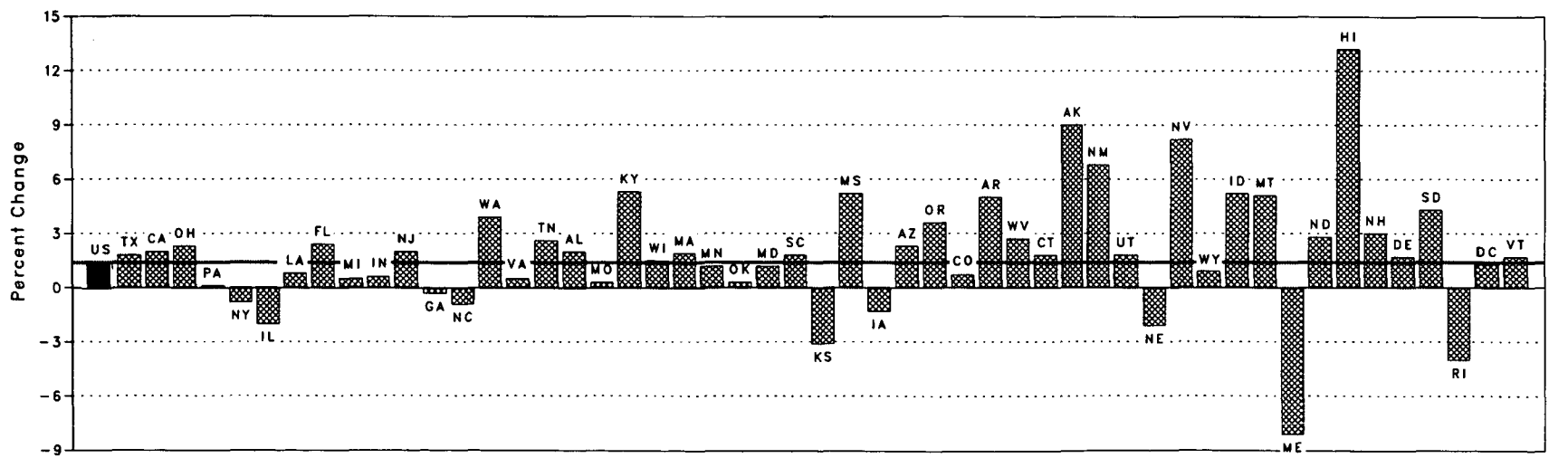
Source: EIA, State Energy Data System 1989.

Figure HL6. Energy Consumption by State, 1989



Source: Table HL1.

Figure HL7. Percent Change in Energy Consumption by State, 1988–1989
(States in Descending Order of Consumption as Shown in Figure HL6)



Source: Table HL4.

Table HL4. Percent Change in State Energy Consumption, 1988-1989

State	Total Energy[2]	Sources: Coal	Natural Gas[3]	Petroleum	Nuclear Electric Power	Hydro-electric Power[4]	Other[5]	Net Inter-state Flow of Electric-ity/Losses[6]	End-Use Sectors[1]: Residential	Commercial	Industrial[2]	Transportation
Alabama	2.0	3.2	3.7	4.8	-11.4	147.1	0.0	163.7	-2.0	8.3	-1.1	8.5
Alaska	9.0	8.2	11.2	6.7	0.0	-5.9	0.0	0.0	8.4	0.6	7.5	14.8
Arizona	2.3	15.6	17.8	1.5	-65.8	2.3	0.0	-48.4	1.9	4.3	4.6	0.2
Arkansas	5.0	-7.4	14.8	1.8	-0.8	11.8	0.0	-18.6	0.1	1.8	9.9	4.0
California	2.0	14.0	2.4	1.3	5.2	10.8	-9.5	2.1	1.2	3.1	1.9	2.1
Colorado	0.7	4.0	7.3	-4.8	-19.9	-1.4	-63.2	188.3	-0.2	1.3	4.6	-2.0
Connecticut	1.8	2.5	8.1	1.8	-12.2	-37.5	32.7	-31.6	4.0	4.4	-4.5	1.3
Delaware	1.7	-12.0	19.9	-2.6	0.0	0.0	0.0	-89.9	1.0	2.1	0.8	3.1
Dist. of Col.	1.3	90.4	2.1	1.8	0.0	0.0	0.0	0.1	-2.1	2.7	3.8	-0.9
Florida	2.4	3.1	10.3	*	-20.3	12.7	0.0	45.9	5.4	3.7	-2.7	1.6
Georgia	-0.3	-3.2	-1.8	-3.1	64.5	92.0	0.0	1,117.0	0.9	3.0	-0.3	-2.4
Hawaii	13.2	-36.5	3.3	13.5	0.0	11.4	19.2	0.0	5.4	46.3	9.7	7.6
Idaho	5.2	0.5	12.8	5.8	0.0	32.0	0.0	-13.3	5.1	2.4	7.5	3.9
Illinois	-2.0	-0.8	3.2	-8.0	8.0	3.4	0.0	50.2	1.8	-3.3	-6.4	2.1
Indiana	0.6	1.2	1.2	2.9	0.0	3.0	0.0	36.5	-0.4	0.5	-0.2	3.2
Iowa	-1.3	4.2	-5.2	-2.6	-0.9	-2.8	-58.1	-21.2	-1.6	-0.8	-3.1	1.3
Kansas	-3.1	-1.0	-2.7	-5.0	45.7	-12.9	41.8	44.9	-1.7	-0.8	-5.1	-2.4
Kentucky	5.3	-6.9	2.6	3.1	0.0	83.5	0.0	-56.5	-0.2	1.2	9.2	5.6
Louisiana	0.8	-2.4	6.1	-5.9	-10.3	0.0	0.0	89.8	0.8	-0.2	1.6	-1.8
Maine	-8.1	-2.2	12.4	-11.9	38.1	-19.4	0.0	82.2	-0.5	-7.0	-13.2	-9.0
Maryland	1.2	-2.0	9.7	6.5	-76.9	35.2	-76.0	57.4	0.1	-5.3	3.8	2.7
Massachusetts	1.9	3.3	19.2	0.1	169.5	-23.1	0.0	-28.2	4.6	3.5	-2.3	0.2
Michigan	0.5	-3.7	4.1	-0.8	19.5	-702.4	0.0	1,283.4	1.7	3.1	-0.9	-0.7
Minnesota	1.2	6.4	5.5	-0.5	-11.2	-137.7	63.1	-18.0	2.0	1.6	2.2	-1.1
Mississippi	5.2	-25.6	8.3	6.6	-18.5	0.0	0.0	120.2	0.6	7.4	17.9	-7.3
Missouri	0.3	0.5	3.5	-0.7	-6.8	-26.9	0.0	-19.6	0.2	-0.3	-1.1	1.6
Montana	5.1	-1.7	8.9	8.5	0.0	17.2	31.7	8.7	7.4	0.9	9.4	-1.0
Nebraska	-2.1	-5.3	-1.0	-5.4	18.1	-13.4	0.0	7.3	-0.2	-1.3	-1.5	-4.8
Nevada	8.2	-7.2	35.6	5.1	0.0	-6.8	0.0	-26.9	6.1	5.0	22.6	1.7
New Hampshire	3.0	-3.6	6.6	3.5	0.0	-21.8	0.0	34.0	8.1	1.2	3.0	-0.8
New Jersey	2.0	15.9	10.3	0.1	-3.8	19.2	0.0	-0.4	0.9	5.3	-1.6	3.3
New Mexico	6.8	5.0	10.7	7.4	0.0	133.6	0.0	10.5	0.3	-1.8	14.4	7.4
New York	-0.8	8.9	7.0	-3.1	-5.7	-20.3	0.0	-116.4	-0.1	-1.8	-1.1	-0.3
North Carolina	-0.9	8.0	6.5	-6.5	*	144.2	0.0	-38.8	0.3	2.2	-0.2	-4.2
North Dakota	2.8	-2.2	4.8	0.9	0.0	-13.5	0.0	-7.6	1.2	2.9	5.2	-1.3
Ohio	2.3	-0.7	1.3	3.8	49.5	-29.9	-8.9	-1.1	0.8	0.5	3.8	2.2
Oklahoma	0.3	-0.3	0.1	1.9	0.0	18.1	0.0	17.0	-2.5	-6.9	0.5	6.2
Oregon	3.6	120.2	25.4	0.3	-16.5	11.1	-71.9	731.5	5.3	2.0	7.1	0.2
Pennsylvania	0.1	-0.2	2.1	-0.5	3.3	84.6	0.0	6.5	2.2	4.6	0.4	-5.0
Rhode Island	-4.0	-84.5	10.2	-10.6	0.0	-85.8	0.0	19.7	-2.2	-1.0	-14.7	-1.1
South Carolina	1.8	-0.1	3.9	3.7	-0.1	206.7	0.0	12.2	1.1	1.4	-1.7	8.8
South Dakota	4.3	-3.8	5.0	5.2	0.0	-11.9	0.0	-63.9	4.8	1.4	9.8	0.8
Tennessee	2.6	-7.6	3.5	2.4	295.3	160.6	0.0	-62.1	1.6	10.2	1.2	2.6
Texas	1.8	4.9	2.7	0.3	163.0	16.0	NA	-51.1	4.1	3.4	1.8	-0.2
Utah	1.8	2.2	4.8	-1.1	0.0	-4.4	-0.6	0.5	3.4	-2.2	7.9	-5.0
Vermont	1.7	-17.2	10.4	*	-12.5	-18.9	85.2	-39.8	9.9	3.1	-0.4	-4.5
Virginia	0.5	5.7	6.2	-1.3	-32.3	-326.4	-23.6	18.0	2.1	4.1	0.8	-3.1
Washington	3.9	-2.2	11.5	6.4	1.8	3.3	-0.7	-19.3	4.6	-2.2	4.4	6.1
West Virginia	2.7	1.5	6.5	2.7	0.0	19.1	0.0	1.9	0.7	3.2	3.8	1.0
Wisconsin	1.5	-0.2	4.0	1.0	-5.5	7.0	11.7	21.5	-0.1	2.6	2.3	1.3
Wyoming	0.9	-5.5	0.2	-1.7	0.0	-13.0	-67.4	-10.4	-4.0	-9.6	3.2	2.2
United States	**1.4**	**0.3**	**4.4**	**0.0**	**0.3**	**9.3**	**-7.3**		**1.6**	**1.8**	**1.4**	**0.9**

[1] End-use sector data include electricity sales and associated electrical system energy losses.
[2] U.S. total energy and U.S. industrial sector include net imports of coal coke that has not been allocated to the States. Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
[3] Includes supplemental gaseous fuels.
[4] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, geothermal, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses.
* Number less than 0.05.
NA = Not applicable. The percent change cannot be calculated because the 1988 value is zero.
Source: EIA, State Energy Data System 1989.

Table 1. State Energy Consumption Estimates by Source and End-Use Sector, 1989
(Trillion Btu)

State	Total Energy[2]	Sources: Coal	Natural Gas[3]	Petroleum	Nuclear Electric Power	Hydro-electric Power[4]	Other[5]	Net Inter-state Flow of Electric-ity/Losses[6]	End-Use Sectors[1]: Residential	Commercial	Industrial[2]	Transportation
Alabama	1,643	674	252	602	124	136	0	-145	289	205	744	405
Alaska	567	5	321	232	0	9	0	0	43	52	298	173
Arizona	916	357	151	354	84	82	0	-112	200	208	185	324
Arkansas	825	203	251	311	95	32	0	-66	164	105	320	236
California	7,127	58	1,906	3,540	349	349	193	733	1,270	1,244	1,839	2,774
Colorado	909	324	246	323	6	18	*	-7	205	231	205	267
Connecticut	768	24	98	490	210	6	3	-63	245	176	128	219
Delaware	233	61	36	137	0	0	0	-1	47	33	88	65
Dist. of Col.	175	1	34	42	0	0	0	98	35	77	33	29
Florida	2,995	630	337	1,555	224	2	0	246	791	659	416	1,129
Georgia	2,030	677	325	803	268	41	0	-83	438	313	603	676
Hawaii	299	1	3	294	0	1	*	0	25	53	69	152
Idaho	372	10	47	118	0	93	0	105	78	71	136	87
Illinois	3,527	714	1,014	1,160	802	1	0	-164	898	643	1,194	793
Indiana	2,494	1,308	469	825	0	5	0	-114	448	274	1,196	576
Iowa	925	319	228	324	34	7	*	13	219	138	333	235
Kansas	1,027	266	339	419	104	*	*	-101	182	164	394	287
Kentucky	1,475	765	196	538	0	46	0	-69	277	176	620	402
Louisiana	3,523	207	1,599	1,485	133	0	0	100	293	241	2,300	689
Maine	341	7	4	226	74	49	0	-19	84	50	97	110
Maryland	1,262	295	196	550	29	18	*	174	325	164	417	357
Massachusetts	1,372	121	259	849	32	24	0	86	417	326	209	420
Michigan	2,764	801	797	944	229	-47	0	41	731	449	900	684
Minnesota	1,335	323	302	509	117	4	3	78	327	195	469	344
Mississippi	989	96	234	476	84	0	0	99	167	106	421	295
Missouri	1,518	550	263	637	89	11	0	-33	395	286	352	484
Montana	350	178	47	155	0	99	1	-130	62	51	153	84
Nebraska	526	132	119	211	87	12	0	-34	127	112	135	152
Nevada	383	170	66	176	0	20	0	-49	79	66	104	133
New Hampshire	250	32	14	166	0	15	0	24	78	39	56	77
New Jersey	2,338	94	469	1,280	247	-3	0	251	529	475	521	813
New Mexico	559	280	205	233	0	2	0	-162	73	99	182	206
New York	3,556	363	870	1,777	245	296	0	4	1,024	977	684	872
North Carolina	1,939	557	167	734	313	72	0	96	458	327	604	551
North Dakota	319	362	32	118	0	20	0	-213	55	37	160	68
Ohio	3,863	1,464	848	1,185	136	1	3	225	864	585	1,585	828
Oklahoma	1,291	269	612	442	0	25	0	-56	237	179	517	358
Oregon	912	7	112	351	57	413	*	-28	203	159	268	281
Pennsylvania	3,590	1,464	707	1,309	420	13	0	-324	867	533	1,374	816
Rhode Island	206	1	35	106	0	1	0	63	65	44	36	61
South Carolina	1,163	301	120	389	437	21	0	-106	233	159	479	292
South Dakota	212	33	26	111	0	48	0	-6	57	32	58	65
Tennessee	1,763	564	229	600	167	122	0	81	382	198	710	473
Texas	9,690	1,326	3,763	4,407	107	14	2	70	1,155	1,027	5,359	2,150
Utah	543	345	123	203	0	6	4	-138	100	83	217	144
Vermont	131	*	6	74	39	31	2	-20	38	25	25	42
Virginia	1,839	362	181	772	153	4	*	366	440	376	450	573
Washington	1,883	97	168	758	66	730	4	61	376	288	670	550
West Virginia	799	929	140	276	0	12	0	-558	132	88	429	150
Wisconsin	1,413	393	332	498	116	16	2	54	363	236	468	346
Wyoming	381	421	87	135	0	7	*	-269	35	37	224	86
United States	**81,342**	**18,940**	**19,384**	**34,209**	**5,677**	**2,884**	**217**		**16,630**	**12,867**	**29,463**	**22,382**

[1] End-use sector data include electricity sales and associated electrical system energy losses.
[2] U.S. total energy and U.S. industrial sector include 30.4 trillion Btu of net imports of coal coke that has not been allocated to the States. Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
[3] Includes supplemental gaseous fuels.
[4] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity). A negative number in this column results from pumped storage for which, overall, more electricity is expended than is created, to provide electricity during peak demand periods.
[5] Other is electricity generated for distribution from wood and waste, geothermal, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
* Number less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 2. State Energy Consumption Estimates by Source, 1989

State	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Electricity: Nuclear Electric Power	Hydroelectric Power[2]	Geothermal Energy[3]	Other[4]
	Million Short Tons	Billion Cubic Feet	Million Barrels											Billion Kilowatthours			
Alabama	27.6	244.9	4.5	0.1	24.7	2.0	1.2	6.2	1.0	49.5	13.6	6.4	109.1	11.5	13.2	0.0	0.0
Alaska	0.3	321.5	0.3	0.5	11.1	18.6	*	0.3	0.1	5.1	0.3	4.7	40.9	0.0	0.9	0.0	0.0
Arizona	16.9	145.6	2.4	0.2	11.4	8.2	0.1	1.6	0.6	40.6	0.2	0.1	65.4	7.9	7.9	0.0	0.0
Arkansas	11.5	249.7	0.8	0.1	14.5	1.9	0.5	4.9	0.7	29.4	3.3	1.7	57.8	8.8	3.1	0.0	0.0
California	2.6	1,837.9	15.0	1.3	81.8	90.3	0.3	24.1	4.9	310.8	60.5	53.7	642.7	32.5	33.8	9.2	*
Colorado	16.4	242.9	2.9	0.2	10.2	5.3	0.1	3.6	0.6	35.4	0.2	1.4	60.0	0.5	1.7	0.0	*
Connecticut	0.9	95.1	1.8	*	25.6	2.2	0.3	1.6	0.5	32.3	20.4	1.4	86.2	19.6	0.6	0.0	0.3
Delaware	2.4	34.9	0.5	*	4.2	1.3	0.1	1.0	0.1	8.2	4.9	4.0	24.4	0.0	0.0	0.0	0.0
Dist. of Col.	0.1	33.4	*	0.0	1.8	0.0	*	*	0.1	4.2	1.4	0.0	7.5	0.0	0.0	0.0	0.0
Florida	25.4	323.6	6.5	1.0	35.3	33.6	0.4	8.4	1.4	142.2	48.8	3.3	280.7	20.9	0.2	0.0	0.0
Georgia	27.9	317.0	5.0	0.2	28.1	17.5	0.2	7.8	1.2	83.5	1.4	4.0	148.9	25.0	3.9	0.0	0.0
Hawaii	*	2.7	0.3	0.3	5.7	13.2	*	0.2	0.1	8.7	19.7	2.0	50.2	0.0	0.1	*	*
Idaho	0.5	45.6	0.8	0.1	6.9	1.2	*	0.8	0.2	11.3	0.3	0.0	21.6	0.0	9.0	0.0	0.0
Illinois	32.5	992.0	8.1	0.2	34.6	4.5	0.4	16.0	3.5	115.5	4.7	27.9	215.3	74.8	0.1	0.0	0.0
Indiana	58.2	462.0	6.4	0.3	33.1	17.6	0.7	11.3	1.8	61.7	4.1	14.1	151.0	0.0	0.5	0.0	0.0
Iowa	17.1	225.7	1.7	0.1	15.0	0.8	0.1	10.2	0.7	32.6	0.2	1.2	62.5	3.1	0.7	0.0	*
Kansas	15.0	341.3	3.1	0.2	15.8	3.8	0.1	19.5	1.0	29.8	0.5	7.8	81.6	9.7	*	0.0	*
Kentucky	32.9	188.5	2.8	0.1	28.1	5.1	1.0	7.7	1.1	43.4	0.6	9.2	99.1	0.0	4.4	0.0	0.0
Louisiana	12.5	1,533.0	2.3	0.1	37.0	22.3	1.7	39.1	2.0	46.9	42.0	78.7	272.2	12.4	0.0	0.0	0.0
Maine	0.3	3.7	1.0	0.1	12.3	2.2	0.5	1.6	0.2	14.2	8.1	0.0	40.2	6.9	4.7	0.0	0.0
Maryland	11.5	189.7	4.5	0.1	20.6	4.4	0.5	2.2	0.7	49.1	13.4	3.1	98.6	2.7	1.8	0.0	*
Massachusetts	4.6	249.5	1.4	0.1	40.4	10.0	0.2	2.6	0.8	58.3	33.8	2.4	150.0	3.0	2.3	0.0	0.0
Michigan	34.9	774.4	3.9	0.3	24.9	9.2	0.6	22.2	3.3	101.1	5.0	9.6	180.0	21.3	-4.6	0.0	0.0
Minnesota	18.3	299.9	4.9	0.2	19.2	4.7	0.4	8.4	1.1	48.6	1.4	5.7	94.4	10.9	0.4	0.0	0.2
Mississippi	3.8	227.6	2.0	0.2	17.1	6.6	0.7	5.9	0.7	29.0	16.7	6.4	85.1	7.8	0.0	0.0	0.0
Missouri	26.3	261.3	4.5	0.2	22.1	7.3	0.1	11.3	1.6	63.7	0.7	8.1	119.6	8.3	1.1	0.0	0.0
Montana	10.5	45.8	1.7	0.1	7.7	0.7	*	1.7	0.2	10.3	1.3	3.9	27.7	0.0	9.6	0.0	0.1
Nebraska	7.6	120.2	1.1	0.1	12.4	1.5	*	5.1	0.4	18.4	0.5	0.3	39.8	8.1	1.2	0.0	0.0
Nevada	7.7	63.7	1.4	0.1	7.5	6.1	*	1.8	0.1	14.6	0.7	0.1	32.3	0.0	1.9	0.0	0.0
New Hampshire	1.2	13.9	0.7	*	7.6	0.8	0.3	2.6	0.1	12.3	5.6	0.2	30.1	0.0	1.4	0.0	0.0
New Jersey	3.5	457.1	4.0	0.1	45.0	44.1	0.8	5.3	2.4	81.4	17.2	29.7	230.0	23.0	-0.3	0.0	0.0
New Mexico	15.3	195.7	1.7	0.1	9.0	2.8	0.7	7.3	0.3	18.9	2.0	1.6	44.4	0.0	0.2	0.0	0.0
New York	14.1	845.9	5.0	0.1	76.6	6.0	2.3	5.9	2.1	133.4	74.0	9.0	314.4	22.8	28.7	0.0	0.0
North Carolina	22.2	161.8	3.8	0.2	27.1	7.7	1.6	9.9	1.2	77.7	2.7	5.3	137.1	29.2	7.0	0.0	0.0
North Dakota	27.4	30.2	0.9	*	7.0	1.3	*	2.5	0.2	8.4	0.4	1.2	21.9	0.0	1.9	0.0	0.0
Ohio	61.0	814.1	10.6	0.3	38.2	10.4	1.4	16.4	3.8	116.2	2.8	19.6	219.8	12.7	0.1	0.0	0.3
Oklahoma	15.1	595.2	2.8	0.2	14.8	9.2	0.1	6.8	1.3	38.9	0.5	7.4	81.9	0.0	2.4	0.0	0.0
Oregon	0.4	108.0	2.8	0.1	16.3	3.4	0.1	1.6	0.7	31.9	4.7	1.7	63.3	5.3	40.0	0.0	*
Pennsylvania	58.7	681.9	6.7	0.2	61.4	9.7	1.5	7.1	4.0	108.9	17.2	19.2	235.9	39.2	1.3	0.0	0.0
Rhode Island	*	33.9	1.6	*	5.9	0.7	*	0.5	0.1	8.9	1.2	0.1	19.1	0.0	0.1	0.0	0.0
South Carolina	12.0	116.8	2.3	0.1	12.5	3.1	0.7	3.9	0.5	42.6	1.5	5.1	72.3	40.8	2.1	0.0	0.0
South Dakota	2.5	25.5	0.8	0.1	5.4	1.0	*	5.2	0.2	9.1	0.1	0.0	21.9	0.0	4.6	0.0	0.0
Tennessee	23.6	221.4	5.7	0.2	23.3	4.4	0.9	4.7	1.2	60.0	0.6	9.3	110.4	15.6	11.9	0.0	0.0
Texas	91.0	3,625.1	9.7	0.8	87.9	93.3	7.2	277.2	5.3	203.4	33.7	162.5	881.0	10.0	1.4	0.0	0.2
Utah	15.0	113.5	1.7	0.1	6.2	5.1	*	1.5	0.3	17.3	1.8	2.9	36.8	0.0	0.6	0.2	0.0
Vermont	*	6.2	0.5	*	4.6	0.2	0.2	1.6	0.1	6.6	0.1	*	13.8	3.6	3.0	0.0	0.2
Virginia	14.3	173.7	4.2	0.1	29.1	15.8	1.3	4.7	0.9	70.9	9.5	4.2	140.7	14.3	0.4	0.0	*
Washington	5.8	162.8	2.6	0.2	21.0	20.6	1.2	3.6	0.7	53.8	14.1	17.6	135.4	6.1	70.6	0.0	0.4
West Virginia	37.3	130.1	0.8	*	10.1	0.4	0.2	1.3	0.7	19.5	0.5	17.1	50.6	0.0	1.2	0.0	0.0
Wisconsin	19.9	330.8	3.8	0.1	24.3	1.3	0.1	9.8	1.0	49.1	1.3	2.7	93.5	10.8	1.6	0.0	0.2
Wyoming	24.0	82.4	0.9	*	9.8	0.2	*	2.4	0.2	7.6	0.2	3.2	24.5	0.0	0.7	0.0	*
United States	**890.6**	**18,799.3**	**165.2**	**9.4**	**1,152.2**	**543.6**	**30.8**	**608.9**	**58.1**	**2,674.7**	**500.1**	**580.8**	**6,323.7**	**529.4**	**279.2**	**9.3**	**2.0**

[1] Includes supplemental gaseous fuels.
[2] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity). A negative number in this column results from pumped storage for which, overall, more electricity is expended than is created, to provide electricity during peak demand periods.
[3] Electricity generated for distribution from geothermal energy.
[4] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.

* Number less than 0.05.
Notes: • Totals may not equal sum of components due to independent rounding. • Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 143 million short tons.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 3. Energy Consumption Estimates by Source, 1989
(Trillion Btu)

State	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[2]	Geothermal Energy[3]	Other[4]	Net Interstate Flow of Electricity/Losses[5]	Total[6]
Alabama	673.9	252.2	29.8	0.7	143.9	11.4	6.5	22.8	6.0	259.8	85.2	35.6	601.7	123.6	136.1	0.0	0.0	-144.9	1,642.7
Alaska	4.7	321.2	1.8	2.5	64.4	104.7	*	1.0	0.7	26.7	2.1	27.8	231.7	0.0	9.0	0.0	0.0	0.0	566.6
Arizona	357.2	151.5	15.8	1.1	66.5	45.3	0.5	6.0	3.7	213.4	1.0	0.7	354.0	84.2	81.5	0.0	0.0	-112.3	916.0
Arkansas	202.7	251.2	5.2	0.5	84.6	10.6	2.7	17.9	4.2	154.4	20.7	9.8	310.6	94.8	31.9	0.0	0.0	-66.4	824.8
California	57.9	1,905.9	99.5	6.6	476.6	507.8	1.8	88.9	29.6	1,632.5	380.1	316.2	3,539.5	348.7	348.7	193.1	0.1	733.4	7,127.3
Colorado	323.7	245.6	19.4	0.9	59.4	30.2	0.6	13.4	3.9	186.0	0.9	8.6	323.3	5.7	17.6	0.0	*	-7.4	908.6
Connecticut	23.7	98.3	11.9	0.2	149.3	12.7	1.9	6.0	2.7	169.5	128.1	7.6	489.8	209.8	6.4	0.0	3.3	-63.2	768.1
Delaware	60.8	35.9	3.5	0.1	24.6	6.8	0.8	3.7	0.8	42.8	30.6	23.7	137.4	0.0	0.0	0.0	0.0	-1.1	232.9
Dist. of Col.	1.5	33.8	0.2	0.0	10.7	0.0	0.2	*	0.4	22.1	8.7	0.0	42.2	0.0	0.0	0.0	0.0	97.5	175.0
Florida	630.2	337.2	43.0	4.9	205.9	188.5	2.4	30.8	8.5	746.7	306.6	17.6	1,554.9	224.3	2.4	0.0	0.0	246.2	2,995.3
Georgia	676.8	325.3	32.9	1.1	163.8	98.5	0.9	28.7	7.5	438.8	8.8	21.7	802.7	267.7	40.6	0.0	0.0	-83.0	2,030.1
Hawaii	0.8	2.9	2.0	1.4	33.1	74.4	*	0.7	0.6	46.0	123.8	12.1	294.0	0.0	0.9	0.3	0.1	0.0	299.1
Idaho	9.8	46.9	5.5	0.3	40.0	6.8	*	3.0	1.1	59.3	2.1	0.0	118.1	0.0	92.5	0.0	0.0	104.7	371.9
Illinois	714.3	1,013.9	53.4	1.0	201.3	25.3	2.3	58.9	21.0	606.7	29.7	160.8	1,160.3	802.4	0.7	0.0	0.0	-164.3	3,527.2
Indiana	1,308.3	469.4	42.4	1.5	192.9	99.3	4.0	41.5	10.8	324.0	25.8	82.7	824.9	0.0	4.7	0.0	0.0	-113.7	2,493.5
Iowa	319.0	228.2	11.3	0.6	87.1	4.2	0.4	37.7	4.3	171.0	1.5	6.2	324.5	33.7	7.0	0.0	0.2	12.8	925.3
Kansas	266.5	338.6	20.6	0.8	91.9	21.5	0.3	71.7	6.1	156.7	2.9	46.2	418.8	104.1	0.1	0.0	*	-100.8	1,027.3
Kentucky	765.0	195.9	18.3	0.3	163.9	28.7	5.8	28.5	6.4	228.0	3.8	54.1	537.7	0.0	45.5	0.0	0.0	-69.1	1,475.0
Louisiana	207.0	1,598.9	15.4	0.6	215.8	125.8	9.7	144.0	12.1	246.2	264.2	451.0	1,484.7	132.9	0.0	0.0	0.0	99.8	3,523.3
Maine	6.8	3.7	6.6	0.3	71.5	12.4	2.6	6.0	1.2	74.5	51.1	0.0	226.2	74.4	48.9	0.0	0.0	-18.6	341.4
Maryland	295.1	195.8	29.9	0.4	119.9	24.5	2.8	8.2	4.4	257.9	84.4	17.3	549.7	29.2	18.4	0.0	0.1	174.2	1,262.4
Massachusetts	120.7	258.9	9.5	0.6	235.2	56.6	1.1	9.8	5.1	306.0	212.6	12.7	849.2	32.3	24.3	0.0	0.0	86.5	1,371.9
Michigan	800.5	796.9	25.6	1.4	144.9	51.8	3.2	81.8	19.8	531.1	31.6	53.1	944.3	228.6	-47.1	0.0	0.0	40.7	2,763.9
Minnesota	323.0	301.7	32.7	0.8	111.8	26.4	2.0	30.9	6.8	255.0	8.6	34.0	509.0	117.2	3.8	0.0	2.6	78.1	1,335.2
Mississippi	96.4	234.5	13.1	0.8	99.7	36.9	3.7	21.7	4.0	152.4	105.3	38.0	475.5	83.9	0.0	0.0	0.0	98.5	988.8
Missouri	549.9	263.4	30.2	1.0	128.9	41.2	0.7	41.5	9.7	334.5	4.4	44.7	636.8	89.5	11.3	0.0	0.0	-33.0	1,517.9
Montana	178.4	46.7	11.6	0.5	44.7	4.2	*	6.2	1.5	54.1	8.3	23.6	154.7	0.0	98.8	0.0	0.7	-129.5	349.9
Nebraska	132.0	118.7	7.5	0.5	72.4	8.2	0.1	18.9	2.3	96.8	2.9	1.4	211.0	86.6	12.0	0.0	0.0	-33.9	526.3
Nevada	170.3	65.6	9.3	0.6	43.4	33.9	0.2	6.5	0.7	76.5	4.3	0.3	175.7	0.0	19.9	0.0	0.0	-48.8	382.7
New Hampshire	31.6	14.2	4.9	0.2	44.0	4.1	1.5	9.6	0.5	64.5	35.1	1.3	165.7	0.0	14.8	0.0	0.0	24.1	250.4
New Jersey	94.0	469.0	26.8	0.6	262.3	249.9	4.3	19.6	14.3	427.4	107.9	166.5	1,279.7	247.0	-2.7	0.0	0.0	251.4	2,338.4
New Mexico	279.5	205.1	11.1	0.5	52.3	15.6	4.1	26.8	2.0	99.2	12.6	9.4	233.5	0.0	2.4	0.0	0.0	-161.6	558.9
New York	362.6	870.4	33.0	0.4	446.2	33.8	13.3	21.6	12.6	700.8	465.0	50.5	1,777.3	245.0	296.5	0.0	0.0	4.4	3,556.2
North Carolina	556.8	166.8	25.0	1.2	157.6	42.8	9.3	36.3	7.3	408.4	16.7	29.2	733.8	313.3	72.3	0.0	0.0	96.5	1,939.4
North Dakota	361.7	31.6	6.1	0.2	40.8	7.2	0.1	9.2	1.1	44.1	2.4	7.1	118.2	0.0	20.1	0.0	0.0	-212.7	319.0
Ohio	1,463.9	848.3	70.5	1.3	222.7	58.7	8.2	60.5	23.1	610.2	17.6	112.4	1,185.2	135.8	1.3	0.0	3.3	224.8	3,862.6
Oklahoma	268.7	611.9	18.3	0.8	86.0	51.7	0.7	24.9	8.2	204.2	3.1	44.1	442.0	0.0	24.7	0.0	0.0	-55.8	1,291.5
Oregon	6.8	111.8	18.6	0.5	94.7	19.1	0.5	5.9	4.5	167.4	29.8	10.4	351.4	56.8	413.0	0.0	0.3	-28.3	911.8
Pennsylvania	1,463.7	707.1	44.6	0.9	357.5	54.6	8.5	26.2	24.6	571.9	108.0	112.6	1,309.4	420.0	13.3	0.0	0.0	-324.0	3,589.6
Rhode Island	0.7	34.9	10.6	0.2	34.4	4.1	0.2	1.9	0.8	46.6	7.4	0.3	106.5	0.0	1.0	0.0	0.0	62.7	205.7
South Carolina	301.5	119.9	15.3	0.6	72.8	16.9	3.9	14.2	3.3	223.9	9.3	28.5	388.9	437.3	21.3	0.0	0.0	-105.7	1,163.2
South Dakota	32.5	25.9	5.2	0.4	31.7	5.5	0.1	19.1	1.0	47.9	0.5	0.0	111.4	0.0	47.7	0.0	0.0	-5.5	212.0
Tennessee	564.4	228.5	37.8	0.9	135.9	24.6	5.0	17.5	7.5	315.3	3.7	52.0	600.2	167.3	122.5	0.0	0.0	80.5	1,763.5
Texas	1,326.1	3,762.9	64.2	4.1	512.3	526.9	40.7	1,020.8	32.2	1,068.6	211.6	925.8	4,407.2	107.1	14.3	0.0	2.0	70.1	9,689.7
Utah	345.5	123.4	11.1	0.5	36.0	28.6	*	5.4	1.8	90.9	11.6	17.3	203.3	0.0	5.8	3.7	0.0	-138.3	543.4
Vermont	0.2	6.1	3.0	0.1	27.0	1.2	1.0	5.8	0.4	34.4	0.6	*	73.6	38.7	30.7	0.0	1.9	-20.3	130.8
Virginia	362.3	180.8	27.9	0.4	169.4	88.3	7.5	17.4	5.7	372.4	60.0	23.2	772.1	153.0	4.4	0.0	*	366.4	1,839.0
Washington	96.9	168.0	17.3	1.0	122.5	116.0	6.6	13.4	4.2	282.5	88.6	105.7	757.8	65.6	729.7	0.0	3.9	61.4	1,883.4
West Virginia	928.9	140.1	5.4	0.2	58.7	2.1	1.4	4.9	4.0	102.3	2.9	93.5	275.5	0.0	12.0	0.0	0.0	-557.6	799.1
Wisconsin	393.3	332.4	25.2	0.6	141.4	7.5	0.4	35.9	6.2	258.0	8.3	14.8	498.4	116.3	16.3	0.0	1.9	53.9	1,412.6
Wyoming	421.3	86.9	6.1	0.2	57.0	0.9	*	9.0	1.3	39.7	1.4	19.2	134.8	0.0	7.0	0.0	*	-268.6	381.5
United States	**18,939.7**	**19,384.4**	**1,096.0**	**47.6**	**6,711.7**	**3,058.9**	**174.4**	**2,242.7**	**352.1**	**14,050.0**	**3,143.9**	**3,331.7**	**34,209.0**	**5,676.8**	**2,884.4**	**197.1**	**20.3**		**81,342.2**

[1] Includes supplemental gaseous fuels.
[2] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity). A negative number in this column results from pumped storage for which, overall, more electricity is expended than is created, to provide electricity during peak demand periods.
[3] Electricity generated for distribution from geothermal energy.
[4] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[5] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[6] U.S. total includes 30.4 trillion Btu of net imports of coal coke which has not been allocated to the States. Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Number less than 0.05.
Notes: • Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 4. Residential Energy Consumption Estimates, 1989
(Trillion Btu)

State	Coal			Natural Gas[1]	Petroleum				Electricity	Net Energy[2]	Electrical System Energy Losses[3]	Total[2]
	Bituminous Coal and Lignite	Anthracite	Total		Distillate Fuel	Kerosene	LPG	Total				
Alabama	0.6	*	0.6	49.4	0.2	4.7	14.6	19.5	67.7	137.2	151.9	289.0
Alaska	0.0	0.0	0.0	13.6	8.8	*	0.7	9.6	5.6	28.7	14.7	43.4
Arizona	0.0	0.0	0.0	28.2	*	*	3.0	3.1	52.0	83.3	116.7	200.0
Arkansas	*	0.0	*	42.5	*	1.7	9.8	11.5	34.0	88.0	76.2	164.2
California	0.1	0.0	0.1	532.7	1.4	1.0	23.0	25.4	219.6	777.7	492.5	1,270.2
Colorado	0.5	0.0	0.5	92.7	0.2	0.1	5.7	6.0	32.7	131.9	73.4	205.4
Connecticut	0.0	0.2	0.2	42.1	82.9	0.8	3.3	87.0	35.8	165.0	80.2	245.2
Delaware	0.2	*	0.2	7.7	7.7	0.7	2.1	10.6	8.9	27.4	20.1	47.5
Dist. of Col.	0.5	0.0	0.5	17.6	0.8	*	*	0.9	5.0	24.0	11.2	35.2
Florida	*	0.0	*	14.2	2.1	1.1	18.9	22.1	232.6	268.9	521.8	790.8
Georgia	0.1	0.0	0.1	106.4	1.6	0.5	16.0	18.0	96.7	221.2	217.0	438.2
Hawaii	0.0	0.0	0.0	0.6	*	0.0	0.5	0.5	7.7	8.8	16.5	25.3
Idaho	0.6	0.0	0.6	9.0	3.3	*	1.4	4.7	19.5	33.8	43.7	77.5
Illinois	2.4	*	2.4	507.4	9.2	1.3	18.9	29.4	110.5	649.7	247.8	897.5
Indiana	4.0	*	4.1	158.4	13.5	3.3	22.0	38.7	76.0	277.2	170.5	447.8
Iowa	1.4	0.1	1.4	78.3	6.2	0.3	18.2	24.6	35.5	139.8	79.6	219.3
Kansas	*	0.0	*	75.5	0.2	0.1	7.8	8.1	30.4	114.1	68.1	182.1
Kentucky	1.9	0.0	1.9	67.6	4.3	3.6	12.0	19.9	57.7	147.2	129.5	276.7
Louisiana	0.0	0.0	0.0	60.2	*	1.9	4.3	6.3	70.0	136.4	157.0	293.4
Maine	0.1	0.1	0.3	0.6	33.1	2.2	3.6	38.9	13.7	53.5	30.7	84.2
Maryland	0.4	*	0.5	77.4	29.9	2.3	4.3	36.5	65.1	179.5	145.9	325.4
Massachusetts	0.2	0.5	0.7	115.6	119.6	0.7	6.2	126.5	53.8	296.7	120.7	417.4
Michigan	1.5	0.0	1.5	380.4	27.8	2.4	38.5	68.7	86.4	537.1	193.8	730.9
Minnesota	1.7	0.0	1.7	117.6	26.2	1.7	16.8	44.7	50.4	214.4	113.1	327.5
Mississippi	*	0.0	*	27.1	*	1.3	10.9	12.3	39.3	76.7	66.1	166.8
Missouri	1.9	0.0	1.9	130.2	2.8	0.4	26.9	30.1	71.8	234.0	161.2	395.2
Montana	0.4	0.0	0.4	18.5	2.1	*	2.9	5.1	11.8	35.8	26.4	62.2
Nebraska	*	0.0	*	44.2	1.5	0.1	6.5	8.0	22.9	75.2	51.5	126.7
Nevada	*	0.0	*	17.3	1.5	0.1	3.1	4.7	17.6	39.7	39.6	79.2
New Hampshire	*	0.1	0.1	6.4	25.1	1.3	6.3	32.7	12.1	51.3	27.1	78.4
New Jersey	*	0.2	0.2	200.4	92.8	1.6	5.1	99.4	70.6	370.7	158.4	529.1
New Mexico	0.1	0.0	0.1	27.9	0.1	0.6	5.9	6.5	11.8	46.3	26.5	72.8
New York	1.5	2.1	3.6	375.4	202.6	7.7	15.4	225.7	129.2	733.9	289.9	1,023.8
North Carolina	1.3	0.0	1.3	39.9	27.2	8.3	18.8	54.4	111.9	207.5	250.9	458.4
North Dakota	0.8	0.0	0.8	10.3	5.3	0.1	4.5	9.9	10.4	31.4	23.4	54.9
Ohio	4.5	0.1	4.6	374.2	26.6	5.4	24.3	56.3	132.4	567.6	296.9	864.4
Oklahoma	*	0.0	*	73.3	*	0.1	8.1	8.2	48.0	129.6	107.8	237.4
Oregon	0.1	0.0	0.1	23.3	11.0	0.4	1.3	12.7	51.5	87.5	115.4	202.9
Pennsylvania	5.4	13.4	18.7	280.8	128.4	7.0	9.9	145.3	130.1	575.0	291.9	866.9
Rhode Island	0.0	*	*	18.8	18.5	0.2	1.1	19.7	8.1	46.6	18.1	64.8
South Carolina	0.1	0.0	0.1	21.0	7.5	3.3	8.2	18.9	59.6	99.6	133.7	233.3
South Dakota	*	0.0	*	11.5	5.2	0.1	7.7	12.9	10.0	34.5	22.4	56.8
Tennessee	1.8	0.1	1.9	50.7	1.4	3.8	10.7	15.9	96.7	165.2	217.0	382.3
Texas	0.1	*	0.1	239.2	0.1	2.8	31.4	34.3	271.7	545.3	609.4	1,154.6
Utah	1.8	0.0	1.8	49.1	1.1	*	1.7	2.7	14.2	67.9	31.9	99.7
Vermont	0.0	0.1	0.1	2.1	12.6	0.8	4.5	17.9	5.7	25.7	12.7	38.5
Virginia	1.7	*	1.7	64.2	36.6	6.3	8.1	51.0	99.7	216.7	223.7	440.4
Washington	0.7	0.0	0.7	39.6	16.0	0.5	2.2	18.7	97.8	156.8	219.3	376.1
West Virginia	1.3	*	1.3	40.0	3.8	1.0	1.5	6.3	26.0	73.6	58.4	132.0
Wisconsin	0.1	*	0.2	127.6	31.4	0.2	23.9	55.6	55.5	238.9	124.4	363.3
Wyoming	0.8	0.0	0.8	12.4	0.2	*	2.1	2.3	5.9	21.4	13.2	34.6
United States	**41.0**	**17.2**	**58.3**	**4,921.5**	**1,040.5**	**83.5**	**504.7**	**1,628.7**	**3,089.7**	**9,698.1**	**6,931.7**	**16,629.8**

[1] Includes supplemental gaseous fuels.
[2] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

* Number less than 0.05.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 5. Commercial Energy Consumption Estimates, 1989
(Trillion Btu)

State	Coal				Petroleum									
	Bituminous Coal and Lignite	Anthracite	Total	Natural Gas[1]	Distillate Fuel	Kerosene	LPG	Motor Gasoline	Residual Fuel	Total	Electricity	Net Energy[2]	Electrical System Energy Losses[3]	Total[2]
Alabama	1.1	*	1.1	27.2	7.2	0.8	2.6	1.2	42.0	53.7	37.9	120.0	85.1	205.0
Alaska	0.0	0.0	0.0	21.7	4.8	*	0.1	0.3	0.0	5.2	7.0	33.9	18.3	52.2
Arizona	0.0	0.0	0.0	29.8	2.2	*	0.5	0.7	0.0	3.4	53.8	87.0	120.8	207.8
Arkansas	0.1	0.0	0.1	27.4	2.6	0.1	1.7	0.6	0.0	5.0	22.4	54.8	50.3	105.1
California	0.2	0.0	0.2	268.4	26.9	0.4	4.1	9.4	5.6	46.3	286.5	601.3	642.6	1,243.9
Colorado	0.9	0.0	0.9	68.3	3.1	0.4	1.0	0.9	0.3	5.7	48.2	123.1	108.0	231.1
Connecticut	0.0	0.1	0.1	31.8	20.0	0.4	0.6	1.0	4.3	26.2	36.3	94.5	81.5	175.9
Delaware	0.3	*	0.3	4.2	1.7	*	0.4	0.2	0.6	3.0	7.8	15.3	17.5	32.8
Dist. of Col.	1.0	0.0	1.0	15.9	3.1	0.1	*	0.1	0.4	3.7	17.5	38.1	39.3	77.5
Florida	*	0.0	*	38.1	16.2	1.0	3.3	6.4	5.5	32.4	181.6	252.1	407.3	659.4
Georgia	0.2	0.0	0.2	54.5	5.7	0.2	2.8	2.1	0.7	11.5	76.0	142.2	170.4	312.6
Hawaii	0.0	0.0	0.0	2.3	2.9	*	0.1	0.3	24.0	27.3	7.3	36.9	15.8	52.8
Idaho	1.1	0.0	1.1	9.2	2.0	*	0.3	1.9	1.2	5.4	16.9	32.7	38.0	70.7
Illinois	4.5	*	4.5	200.5	8.2	0.4	3.3	2.5	1.8	16.2	129.9	351.1	291.5	642.6
Indiana	7.5	*	7.5	74.8	6.7	0.2	3.9	2.3	2.8	15.9	54.1	152.4	121.4	273.8
Iowa	2.5	*	2.6	46.7	2.9	*	3.2	1.2	0.3	7.6	24.9	81.7	55.9	137.6
Kansas	0.1	0.0	0.1	58.2	1.9	0.1	1.4	0.8	0.1	4.3	31.1	93.7	69.9	163.5
Kentucky	3.6	0.0	3.6	37.6	3.8	1.0	2.1	2.1	*	9.0	38.9	89.0	87.2	176.2
Louisiana	0.0	0.0	0.0	27.8	4.9	2.0	0.8	1.2	21.2	30.1	56.5	114.4	126.8	241.1
Maine	0.3	0.1	0.4	1.7	9.4	0.3	0.6	0.6	5.3	16.2	9.6	27.9	21.6	49.5
Maryland	0.8	*	0.9	27.7	11.7	0.2	0.8	1.0	3.6	17.3	36.3	82.2	81.5	163.7
Massachusetts	0.4	0.3	0.7	53.3	45.1	0.2	1.1	1.0	10.6	58.0	65.9	178.0	147.9	325.9
Michigan	2.8	0.0	2.8	185.3	12.1	0.3	6.8	3.5	0.7	23.5	73.3	284.9	164.4	449.3
Minnesota	3.1	0.0	3.1	85.7	6.0	*	3.0	1.0	2.1	12.2	28.8	129.9	64.7	194.6
Mississippi	*	0.0	*	18.1	5.0	0.3	1.9	0.8	1.1	9.1	24.2	51.5	54.3	105.8
Missouri	3.6	0.0	3.6	63.5	5.4	0.1	4.7	1.1	0.3	11.6	64.0	142.8	143.5	286.3
Montana	0.7	0.0	0.7	13.4	1.2	*	0.5	0.4	0.6	2.7	10.5	27.2	23.5	50.7
Nebraska	0.1	0.0	0.1	36.9	1.3	*	1.2	0.7	0.3	3.5	22.1	62.5	49.5	112.1
Nevada	*	0.0	*	15.6	2.2	*	0.6	0.4	*	3.2	14.7	33.5	32.9	66.4
New Hampshire	*	0.1	0.1	5.5	6.9	0.2	1.1	0.7	1.3	10.2	7.2	23.0	16.3	39.2
New Jersey	*	0.2	0.2	120.3	47.6	0.7	0.9	3.5	4.9	57.6	91.7	269.8	205.6	475.4
New Mexico	0.1	0.0	0.1	29.9	2.9	0.8	1.0	0.6	0.0	5.4	19.4	54.9	43.6	98.5
New York	2.7	1.4	4.1	202.1	90.1	1.4	2.7	7.1	43.7	145.0	192.9	544.2	432.8	977.0
North Carolina	2.5	0.0	2.5	34.2	13.7	0.5	3.3	3.3	0.6	21.4	82.8	140.9	185.8	326.7
North Dakota	1.5	0.0	1.5	11.1	1.1	*	0.8	0.3	0.2	2.4	6.8	21.8	15.2	37.0
Ohio	8.4	0.1	8.4	168.3	9.8	1.5	4.3	10.8	0.1	26.6	117.6	320.9	263.9	584.8
Oklahoma	*	0.0	*	39.3	3.7	0.5	1.4	1.6	0.4	7.7	40.6	87.6	91.0	178.5
Oregon	0.1	0.0	0.1	21.0	6.3	0.1	0.2	1.2	2.0	9.7	39.6	70.4	88.9	159.2
Pennsylvania	9.9	8.9	18.9	137.4	42.5	0.8	1.7	2.4	2.5	49.9	100.6	306.8	225.8	532.6
Rhode Island	0.0	*	*	9.0	4.5	*	0.2	0.2	1.3	6.2	9.0	24.2	20.1	44.3
South Carolina	0.3	0.0	0.3	17.0	5.4	0.2	1.4	1.1	0.1	8.2	41.3	66.7	92.5	159.2
South Dakota	*	0.0	*	9.0	1.3	*	1.4	0.6	0.2	3.4	6.2	18.6	13.8	32.4
Tennessee	3.4	0.1	3.5	49.1	3.9	0.9	1.9	2.7	0.4	9.8	41.8	104.1	93.7	197.8
Texas	0.2	*	0.2	191.5	22.7	23.5	5.5	12.3	24.9	88.9	230.1	510.6	516.0	1,026.6
Utah	3.4	0.0	3.4	18.0	2.7	*	0.3	0.5	0.6	4.1	17.7	43.1	39.6	82.7
Vermont	0.0	*	*	2.1	4.2	0.2	0.8	0.2	0.2	5.6	5.2	12.9	11.8	24.7
Virginia	3.1	*	3.1	46.0	13.7	0.8	1.4	2.6	0.6	19.1	94.7	163.0	212.5	375.5
Washington	1.3	0.0	1.3	39.7	9.9	6.1	0.4	1.4	0.5	18.3	70.4	129.7	158.0	287.7
West Virginia	2.4	*	2.4	25.0	2.9	0.2	0.3	1.6	0.2	5.2	17.1	49.8	38.4	88.2
Wisconsin	0.3	*	0.3	70.4	11.7	*	4.2	1.5	2.4	19.9	44.8	135.4	100.4	235.8
Wyoming	1.6	0.0	1.6	9.0	1.5	*	0.4	0.3	*	2.2	7.6	20.3	17.0	37.3
United States	**76.2**	**11.5**	**87.7**	**2,800.5**	**535.3**	**47.2**	**89.1**	**101.9**	**222.6**	**996.0**	**2,769.3**	**6,653.5**	**6,213.7**	**12,867.2**

[1] Includes supplemental gaseous fuels.
[2] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

* Number less than 0.05.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 6. Industrial Energy Consumption Estimates, 1989
(Trillion Btu)

State	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydropower	Electricity	Net Energy[2]	Electrical System Energy Losses[3]	Total[2]
Alabama	145.6	0.3	145.9	159.9	29.8	30.2	1.0	5.3	3.1	2.6	28.9	35.6	136.4	0.2	92.9	535.4	208.4	743.8
Alaska	0.0	0.0	0.0	251.1	1.8	10.7	*	0.1	0.1	0.3	0.0	27.8	40.9	0.0	1.5	293.6	4.0	297.6
Arizona	14.3	0.0	14.3	21.6	15.8	17.9	0.4	2.3	1.6	2.2	*	0.7	41.0	0.2	33.2	110.3	74.4	184.7
Arkansas	5.9	0.1	6.0	141.6	5.2	21.1	0.9	6.1	1.6	1.9	19.9	9.8	66.4	0.0	32.6	246.6	73.2	319.8
California	57.7	0.0	57.7	546.4	99.5	94.7	0.4	59.1	12.7	17.0	20.3	316.2	619.9	0.0	189.7	1,413.7	425.5	1,839.2
Colorado	13.4	0.0	13.4	64.3	19.4	16.5	0.1	6.6	1.4	2.7	0.7	8.6	55.8	*	21.9	155.5	49.2	204.7
Connecticut	*	*	0.1	20.4	11.9	8.5	0.7	2.0	1.3	1.5	4.7	7.6	38.1	0.1	21.3	79.9	47.7	127.6
Delaware	5.1	*	5.2	15.4	3.5	2.6	*	1.2	0.5	0.3	2.7	21.8	32.6	0.0	10.8	63.9	24.2	88.1
Dist. of Col.	0.0	0.0	0.0	0.0	0.2	*	0.0	*	*	0.4	*	0.0	0.6	0.0	10.0	10.6	22.4	33.1
Florida	28.5	0.1	28.6	91.7	43.0	21.6	0.3	7.9	3.6	5.4	7.9	17.6	107.4	0.0	58.1	285.9	130.4	416.3
Georgia	51.2	0.0	51.2	156.5	32.9	23.1	0.2	9.5	3.8	6.8	4.7	21.7	102.8	0.6	90.0	401.1	202.0	603.1
Hawaii	0.8	0.0	0.8	0.0	2.0	3.0	*	0.1	0.1	0.7	10.8	12.1	28.6	0.7	12.2	42.3	26.3	68.6
Idaho	8.0	*	8.0	23.5	5.5	15.6	*	1.2	0.3	2.3	0.9	0.0	25.7	0.0	24.4	81.6	54.7	136.3
Illinois	155.7	0.1	155.8	285.0	53.4	40.2	0.6	35.5	11.8	7.4	17.8	160.8	327.6	0.2	131.3	900.0	294.5	1,194.5
Indiana	389.9	*	389.9	223.5	42.4	28.1	0.5	15.0	6.6	4.0	21.5	80.1	198.1	0.0	118.6	930.1	265.9	1,196.1
Iowa	53.4	0.5	54.0	90.3	11.3	23.9	0.1	16.1	1.2	6.8	1.2	6.2	67.0	*	37.6	248.9	84.3	333.2
Kansas	4.1	0.0	4.1	143.3	20.6	22.9	0.1	61.7	2.5	4.4	2.4	46.2	160.9	0.0	26.6	334.8	59.7	394.5
Kentucky	89.4	0.9	90.4	68.9	18.3	27.9	1.2	14.1	3.3	4.4	3.8	54.1	127.0	0.0	102.9	389.2	230.9	620.2
Louisiana	14.2	0.0	14.2	1,203.3	15.4	69.3	5.8	138.6	7.7	1.5	119.2	451.0	808.5	0.0	84.5	2,110.5	189.5	2,300.0
Maine	6.1	*	6.1	1.4	6.6	6.3	0.1	1.6	0.4	0.7	13.1	0.0	28.9	10.1	15.7	62.1	35.2	97.3
Maryland	63.3	*	63.3	68.3	29.9	12.3	0.3	3.0	2.5	1.8	2.7	17.3	69.7	0.0	66.4	267.7	148.9	416.6
Massachusetts	2.8	0.1	2.8	36.9	9.5	14.8	0.2	2.3	2.3	2.5	9.4	12.7	53.6	0.6	35.4	129.4	79.4	208.8
Michigan	120.0	0.1	120.1	211.4	25.6	22.0	0.4	35.2	10.8	5.6	14.2	53.1	167.0	1.2	123.3	623.1	276.5	899.6
Minnesota	19.0	0.0	19.0	82.0	32.7	27.0	0.3	10.9	2.0	6.6	6.3	30.0	115.7	1.5	77.5	295.6	173.7	469.4
Mississippi	6.1	0.0	6.1	108.1	13.1	29.0	2.2	8.4	2.1	3.0	90.0	38.0	185.7	0.0	37.4	337.3	83.9	421.2
Missouri	33.0	0.0	33.0	63.2	30.2	18.8	0.2	9.3	4.0	4.1	3.4	44.6	114.6	0.0	43.6	254.4	97.9	352.3
Montana	3.6	0.0	3.6	11.9	11.6	16.2	*	2.6	0.3	3.3	7.8	23.6	65.3	0.0	22.3	103.2	50.0	153.2
Nebraska	5.3	0.0	5.3	30.2	7.5	23.3	0.1	10.9	0.2	5.6	2.2	1.4	51.2	0.0	14.9	101.6	33.4	135.1
Nevada	3.8	0.0	3.8	8.1	9.3	17.3	0.1	2.7	0.2	0.8	0.5	0.3	31.1	0.0	18.8	61.8	42.1	103.9
New Hampshire	0.3	*	0.4	2.3	4.9	3.1	*	2.2	0.1	0.5	1.7	1.3	13.8	1.6	11.7	29.8	26.2	55.9
New Jersey	7.1	0.2	7.2	86.9	26.8	20.2	1.9	13.4	10.0	2.6	11.3	166.5	252.8	*	53.6	400.5	120.3	520.8
New Mexico	0.9	0.0	0.9	64.0	11.1	13.1	2.7	19.4	0.7	1.8	12.4	9.4	70.5	0.0	14.4	149.8	32.2	182.0
New York	93.4	1.0	94.4	100.3	33.0	22.4	4.2	3.0	6.2	7.3	12.0	50.5	138.6	2.4	107.3	443.0	240.7	683.7
North Carolina	63.9	0.0	63.9	85.2	25.0	20.8	0.5	13.7	3.4	4.4	12.7	29.2	109.7	*	106.3	365.1	238.4	603.5
North Dakota	89.1	0.0	89.1	8.3	6.1	16.2	*	3.8	0.2	4.3	2.2	7.1	39.8	0.0	6.9	144.1	15.4	159.5
Ohio	255.7	0.4	256.0	293.9	70.5	30.6	1.4	30.1	14.5	5.3	14.2	112.4	279.0	0.0	233.1	1,062.1	522.8	1,584.9
Oklahoma	14.1	0.0	14.1	276.2	18.3	16.2	0.1	15.0	3.5	4.8	2.7	44.1	104.6	0.0	37.7	432.6	84.5	517.1
Oregon	1.5	0.0	1.5	45.3	18.6	16.9	*	3.8	1.3	2.5	2.7	10.4	56.3	0.3	50.9	154.3	114.1	268.4
Pennsylvania	362.3	5.9	368.2	256.5	44.6	36.9	0.7	14.1	16.6	7.1	15.4	105.8	241.1	*	156.7	1,022.4	351.4	1,373.8
Rhode Island	0.6	0.0	0.6	4.7	10.6	1.8	*	0.6	0.4	0.2	1.4	0.3	15.3	0.0	4.6	25.3	10.4	35.7
South Carolina	61.7	0.3	62.0	76.5	15.3	11.1	0.5	4.4	1.7	3.9	5.5	28.5	70.8	0.5	82.9	292.7	186.0	478.7
South Dakota	4.5	0.0	4.5	5.2	5.2	11.9	*	10.0	*	2.8	0.3	0.0	30.3	0.3	5.5	45.8	12.3	58.1
Tennessee	100.2	0.1	100.3	110.3	37.8	13.7	0.2	4.2	3.4	3.2	3.2	52.0	117.8	0.0	117.8	446.3	264.2	710.4
Texas	62.3	0.0	62.3	2,162.2	64.2	146.6	14.4	982.2	20.7	23.7	42.5	925.8	2,220.0	0.0	281.9	4,726.3	632.3	5,358.6
Utah	47.0	0.0	47.0	54.5	11.1	9.0	*	3.3	0.6	1.0	10.9	17.3	53.3	0.0	19.2	174.0	43.1	217.1
Vermont	0.1	*	0.1	1.9	3.0	2.9	0.1	0.5	0.1	0.7	0.3	*	7.6	0.7	4.7	15.0	10.5	25.5
Virginia	114.2	0.2	114.4	60.6	27.9	20.2	0.4	7.5	2.5	4.0	8.0	23.2	93.8	0.3	55.9	325.0	125.5	450.5
Washington	4.9	0.0	4.9	75.6	17.3	21.4	0.1	10.0	1.2	3.7	15.3	105.7	174.6	1.3	127.5	384.0	286.0	670.0
West Virginia	122.1	0.1	122.2	62.8	5.4	15.1	0.2	3.0	2.5	1.3	2.7	93.5	123.8	7.1	34.8	350.7	78.0	428.7
Wisconsin	46.3	0.1	46.4	128.1	25.2	19.6	0.1	7.2	3.0	4.6	5.8	14.8	80.4	2.7	64.8	322.3	145.4	467.7
Wyoming	33.8	0.0	33.8	59.7	6.1	13.4	*	6.4	0.3	2.5	1.4	19.2	49.4	0.0	24.9	167.8	55.8	223.6
United States	**2,786.4**	**10.7**	**2,797.0**	**8,149.1**	**1,096.0**	**1,147.7**	**43.7**	**1,627.1**	**181.1**	**198.7**	**601.3**	**3,316.1**	**8,211.8**	**32.7**	**3,158.3**	**22,379.3**	**7,083.9**	**29,463.2**

[1] Includes supplemental gaseous fuels.
[2] U.S. total includes 30.4 trillion Btu of net imports of coal coke that has not been allocated to the States. Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
* Number less than 0.05.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 7. Transportation Energy Consumption Estimates, 1989
(Trillion Btu)

State	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[2]	Electrical System Energy Losses[3]	Total[2]
Alabama	0.0	13.9	0.7	105.2	11.4	0.3	2.9	256.1	14.4	390.9	0.0	404.8	0.0	404.8
Alaska	0.0	1.9	2.5	37.1	104.7	*	0.6	26.1	0.6	171.6	0.0	173.5	0.0	173.5
Arizona	0.0	19.2	1.1	45.1	45.3	0.2	2.1	210.5	0.0	304.3	0.0	323.5	0.0	323.5
Arkansas	0.0	9.7	0.5	60.1	10.6	0.3	2.6	152.0	0.0	226.0	0.0	235.8	0.0	235.8
California	0.0	19.9	6.6	351.8	507.8	2.7	16.9	1,606.1	259.5	2,751.4	0.8	2,772.1	1.8	2,773.9
Colorado	0.0	12.1	0.9	39.2	30.2	0.2	2.4	182.5	0.0	255.3	0.0	267.4	0.0	267.4
Connecticut	0.0	0.6	0.2	36.8	12.7	0.1	1.5	167.0	0.5	218.8	0.0	219.3	0.0	219.3
Delaware	0.0	*	0.1	10.9	6.8	*	0.4	42.3	4.2	64.6	0.0	64.6	0.0	64.6
Dist. of Col.	0.0	0.3	0.0	5.5	0.0	*	0.3	21.5	0.3	27.6	0.4	28.3	0.9	29.2
Florida	0.0	4.5	4.9	151.9	188.5	0.7	4.9	734.9	38.3	1,124.1	0.1	1,128.7	0.3	1,128.9
Georgia	0.0	7.2	1.1	131.6	98.5	0.4	3.7	429.8	3.2	668.3	0.2	675.8	0.5	676.2
Hawaii	0.0	0.0	1.4	19.1	74.4	*	0.4	45.0	12.0	152.4	0.0	152.4	0.0	152.4
Idaho	0.0	5.1	0.3	19.1	6.8	0.1	0.8	55.2	0.0	82.3	0.0	87.4	0.0	87.4
Illinois	0.0	13.9	1.0	141.0	25.3	1.2	9.1	596.7	0.4	774.8	1.2	789.9	2.8	792.6
Indiana	0.0	8.6	1.5	142.5	99.3	0.7	4.2	317.7	1.4	567.3	0.0	575.9	0.0	575.9
Iowa	0.0	10.6	0.6	53.5	4.2	0.2	3.1	163.0	*	224.6	0.0	235.2	0.0	235.2
Kansas	0.0	43.0	0.8	65.8	21.5	0.8	3.6	151.5	0.0	244.1	0.0	287.1	0.0	287.1
Kentucky	0.0	21.4	0.3	126.5	28.7	0.3	3.1	221.6	0.0	380.5	0.0	401.9	0.0	401.9
Louisiana	0.0	52.0	0.6	139.8	125.8	0.3	4.3	243.5	122.5	636.7	*	688.7	*	688.7
Maine	0.0	*	0.3	22.4	12.4	0.1	0.8	73.2	1.2	110.4	0.0	110.4	0.0	110.4
Maryland	0.0	2.3	0.4	58.7	24.5	0.2	1.9	255.1	12.7	353.5	0.3	356.0	0.7	356.7
Massachusetts	0.0	2.3	0.6	46.0	56.6	0.2	2.8	302.6	6.4	415.2	0.7	418.2	1.6	419.8
Michigan	0.0	17.7	1.4	80.4	51.8	1.3	8.9	521.9	0.8	666.4	0.0	684.1	0.0	684.1
Minnesota	0.0	12.0	0.8	52.1	26.4	0.3	4.8	247.5	*	331.9	0.0	343.8	0.0	343.8
Mississippi	0.0	35.1	0.8	65.2	36.9	0.4	1.9	148.6	6.1	259.9	0.0	294.9	0.0	294.9
Missouri	0.0	5.2	1.0	100.6	41.2	0.5	5.6	329.3	0.5	478.9	0.0	484.1	0.0	484.1
Montana	0.0	2.5	0.5	24.8	4.2	0.2	1.2	50.4	0.0	81.3	0.0	83.7	0.0	83.7
Nebraska	0.0	4.8	0.5	46.1	8.2	0.3	2.1	90.5	0.0	147.6	0.0	152.5	0.0	152.5
Nevada	0.0	0.7	0.6	22.1	33.9	0.1	0.5	75.3	0.0	132.4	0.0	133.2	0.0	133.2
New Hampshire	0.0	*	0.2	8.5	4.1	*	0.4	63.4	0.2	76.7	0.0	76.8	0.0	76.8
New Jersey	0.0	4.1	0.6	89.4	249.9	0.3	4.3	421.3	42.3	808.1	0.3	812.5	0.7	813.1
New Mexico	0.0	55.0	0.5	35.9	15.6	0.4	1.3	96.8	0.0	150.5	0.0	205.5	0.0	205.5
New York	0.0	5.4	0.4	109.9	33.8	0.5	6.4	686.5	3.0	840.5	7.9	853.9	17.8	871.7
North Carolina	0.0	5.9	1.2	92.7	42.8	0.5	3.8	400.7	3.4	545.0	0.0	550.9	0.0	550.9
North Dakota	0.0	1.9	0.2	17.8	7.2	0.1	0.9	39.5	0.0	65.7	0.0	67.6	0.0	67.6
Ohio	0.0	10.8	1.3	152.7	58.7	1.7	8.6	594.0	0.1	817.1	0.1	828.0	0.3	828.3
Oklahoma	0.0	37.3	0.8	65.8	51.7	0.4	4.7	197.8	0.0	321.1	0.0	358.4	0.0	358.4
Oregon	0.0	8.8	0.5	60.1	19.1	0.6	3.2	163.8	25.1	272.3	*	281.2	0.1	281.2
Pennsylvania	0.0	28.4	0.9	138.2	54.6	0.5	7.9	562.4	19.5	784.1	1.2	813.6	2.6	816.3
Rhode Island	0.0	0.1	0.2	9.3	4.1	0.1	0.4	46.2	0.5	60.8	0.0	60.9	0.0	60.9
South Carolina	0.0	2.6	0.6	47.4	16.9	0.3	1.6	219.0	3.5	289.3	0.0	291.9	0.0	291.9
South Dakota	0.0	0.1	0.4	13.1	5.5	0.1	0.9	44.5	*	64.5	0.0	64.7	0.0	64.7
Tennessee	0.0	18.4	0.9	114.8	24.6	0.7	4.1	309.4	0.1	454.6	*	473.0	*	473.0
Texas	0.0	111.4	4.1	329.5	526.9	1.7	11.5	1,032.6	132.0	2,038.4	0.0	2,149.8	0.0	2,149.8
Utah	0.0	1.1	0.5	22.8	28.6	0.2	1.2	89.4	*	142.7	0.0	143.8	0.0	143.8
Vermont	0.0	*	0.1	6.9	1.2	*	0.3	33.6	0.1	42.2	0.0	42.2	0.0	42.2
Virginia	0.0	6.1	0.4	95.4	88.3	0.3	3.2	365.7	12.5	565.7	0.3	572.1	0.6	572.7
Washington	0.0	4.5	1.0	74.9	116.0	0.8	3.0	277.5	71.8	545.0	*	549.6	0.1	549.6
West Virginia	0.0	12.1	0.2	34.7	2.1	0.1	1.5	99.4	0.0	137.9	0.0	150.1	0.0	150.1
Wisconsin	0.0	4.2	0.6	77.7	7.5	0.5	3.2	251.9	*	341.5	0.0	345.7	0.0	345.7
Wyoming	0.0	5.7	0.2	41.3	0.9	0.1	0.9	36.8	*	80.2	0.0	85.9	0.0	85.9
United States	**0.0**	**650.5**	**47.6**	**3,839.7**	**3,058.9**	**21.8**	**171.0**	**13,749.5**	**798.8**	**21,687.3**	**13.6**	**22,351.4**	**30.6**	**22,381.9**

[1] Includes supplemental gaseous fuels.
[2] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

* Number less than 0.05.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 8. Estimates of Energy Input at Electric Utilities, 1989
(Trillion Btu)

State	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
Alabama	526.2	0.0	526.2	1.8	0.0	1.3	0.0	1.3	123.6	135.9	0.0	0.0	788.8
Alaska	4.7	0.0	4.7	32.9	1.4	2.9	0.0	4.4	0.0	9.0	0.0	0.0	51.1
Arizona	342.9	0.0	342.9	52.6	0.9	1.2	0.0	2.2	84.2	81.4	0.0	0.0	563.2
Arkansas	196.7	0.0	196.7	30.0	0.8	0.8	0.0	1.7	94.8	31.9	0.0	0.0	355.1
California	0.0	0.0	0.0	538.4	94.8	1.7	0.0	96.5	348.7	348.7	193.1	0.1	1,525.5
Colorado	309.0	0.0	309.0	8.2	*	0.4	0.0	0.4	5.7	17.6	0.0	*	340.9
Connecticut	23.3	0.0	23.3	3.4	118.7	1.2	0.0	119.8	209.8	6.4	0.0	3.3	366.0
Delaware	55.1	0.0	55.1	8.6	23.1	1.6	1.9	26.7	0.0	0.0	0.0	0.0	90.3
Dist. of Col.	0.0	0.0	0.0	0.0	8.0	1.2	0.0	9.3	0.0	0.0	0.0	0.0	9.3
Florida	601.6	0.0	601.6	188.7	254.8	14.2	0.0	269.0	224.3	2.4	0.0	0.0	1,286.0
Georgia	625.3	0.0	625.3	0.7	0.2	1.9	0.0	2.0	267.7	40.0	0.0	0.0	935.7
Hawaii	0.0	0.0	0.0	0.0	77.0	8.1	0.0	85.2	0.0	0.2	0.3	0.1	85.8
Idaho	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	92.5	0.0	0.0	92.5
Illinois	551.5	0.0	551.5	7.1	9.6	2.7	0.0	12.3	802.4	0.5	0.0	0.0	1,373.8
Indiana	906.8	0.0	906.8	4.1	0.0	2.2	2.7	4.8	0.0	4.7	0.0	0.0	920.3
Iowa	261.0	0.0	261.0	2.4	0.0	0.7	0.0	0.7	33.7	6.9	0.0	0.2	304.9
Kansas	262.3	0.0	262.3	18.6	0.3	1.1	0.0	1.5	104.1	0.1	0.0	*	386.5
Kentucky	669.1	0.0	669.1	0.3	0.0	1.3	0.0	1.3	0.0	45.5	0.0	0.0	716.3
Louisiana	192.7	0.0	192.7	255.8	1.4	1.7	0.0	3.1	132.9	0.0	0.0	0.0	584.5
Maine	0.0	0.0	0.0	0.0	31.6	0.3	0.0	31.8	74.4	38.9	0.0	0.0	145.2
Maryland	230.4	0.0	230.4	20.0	65.4	7.3	0.0	72.7	29.2	18.4	0.0	0.1	370.9
Massachusetts	116.4	0.0	116.4	50.8	186.3	9.6	0.0	195.9	32.3	23.6	0.0	0.0	419.0
Michigan	676.1	0.0	676.1	2.0	15.9	2.7	0.0	18.6	228.6	-48.3	0.0	0.0	876.9
Minnesota	299.1	0.0	299.1	4.4	0.1	0.5	4.1	4.6	117.2	2.3	0.0	2.6	430.2
Mississippi	90.2	0.0	90.2	46.0	8.0	0.5	0.0	8.5	83.9	0.0	0.0	0.0	228.7
Missouri	511.4	0.0	511.4	1.3	0.2	1.3	0.1	1.6	89.5	11.3	0.0	0.0	615.1
Montana	173.7	0.0	173.7	0.4	0.0	0.4	0.0	0.4	0.0	98.8	0.0	0.7	274.0
Nebraska	126.5	0.0	126.5	2.5	0.4	0.3	0.0	0.7	86.6	12.0	0.0	0.0	228.3
Nevada	166.5	0.0	166.5	23.8	3.8	0.4	0.0	4.2	0.0	19.9	0.0	0.0	214.4
New Hampshire	31.0	0.0	31.0	*	31.9	0.4	0.0	32.3	0.0	13.2	0.0	0.0	76.4
New Jersey	86.4	0.0	86.4	57.2	49.4	12.4	0.0	61.8	247.0	-2.7	0.0	0.0	449.7
New Mexico	278.4	0.0	278.4	28.3	0.2	0.3	0.0	0.5	0.0	2.4	0.0	0.0	309.6
New York	260.5	0.0	260.5	187.1	406.4	21.2	0.0	427.5	245.0	294.0	0.0	0.0	1,414.2
North Carolina	489.1	0.0	489.1	1.7	0.0	3.2	0.0	3.2	313.3	72.3	0.0	0.0	879.6
North Dakota	270.3	0.0	270.3	*	0.0	0.4	0.0	0.4	0.0	20.1	0.0	0.0	290.8
Ohio	1,194.8	0.0	1,194.8	1.0	3.2	3.0	0.0	6.2	135.8	1.3	0.0	3.3	1,342.3
Oklahoma	254.6	0.0	254.6	185.7	0.1	0.3	0.0	0.4	0.0	24.7	0.0	0.0	465.3
Oregon	5.2	0.0	5.2	13.4	0.0	0.4	0.0	0.4	56.8	412.7	0.0	0.3	488.9
Pennsylvania	1,040.8	17.1	1,057.9	4.1	70.6	11.5	6.8	89.0	420.0	13.3	0.0	0.0	1,584.4
Rhode Island	0.0	0.0	0.0	2.2	4.3	0.2	0.0	4.5	0.0	1.0	0.0	0.0	7.7
South Carolina	239.0	0.0	239.0	2.8	0.2	1.5	0.0	1.7	437.3	20.8	0.0	0.0	701.6
South Dakota	28.0	0.0	28.0	0.1	0.0	0.2	0.0	0.2	0.0	47.3	0.0	0.0	75.7
Tennessee	458.7	0.0	458.7	*	0.0	2.1	0.0	2.1	167.3	122.5	0.0	0.0	750.6
Texas	1,263.5	0.0	1,263.5	1,058.6	12.2	13.5	0.0	25.7	107.1	14.3	0.0	2.0	2,471.2
Utah	293.2	0.0	293.2	0.7	0.0	0.5	0.0	0.5	0.0	5.8	3.7	0.0	303.9
Vermont	0.0	0.0	0.0	*	0.0	0.3	0.0	0.3	38.7	30.0	0.0	1.9	70.9
Virginia	243.0	0.0	243.0	4.0	38.9	3.5	0.0	42.4	153.0	4.1	0.0	*	446.5
Washington	90.0	0.0	90.0	8.6	0.9	0.2	0.0	1.2	65.6	728.4	0.0	3.9	897.7
West Virginia	803.0	0.0	803.0	0.1	0.0	2.3	0.0	2.3	0.0	4.9	0.0	0.0	810.4
Wisconsin	346.5	0.0	346.5	2.1	0.0	1.0	0.0	1.0	116.3	13.6	0.0	1.9	481.4
Wyoming	385.1	0.0	385.1	0.1	0.0	0.7	0.0	0.7	0.0	7.0	0.0	*	392.9
United States	**15,979.6**	**17.1**	**15,996.8**	**2,862.8**	**1,521.2**	**148.5**	**15.6**	**1,685.3**	**5,676.8**	**2,851.8**	**197.1**	**20.3**	**29,290.8**

[1] Includes supplemental gaseous fuels.
[2] Heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.
[4] Includes net imports of electricity (assumed to be hydroelectricity). A negative number in this column results from pumped storage for which, overall, more electricity is expended than is created, to provide electricity during peak demand periods.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Number less than 0.05.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 9. Energy Consumption Estimates by Source, 1960–1989, United States

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Imports of Coal Coke	Total[6]
	Million Short Tons	Billion Cubic Feet	Million Barrels											Billion Kilowatthours				Million Short Tons	Trillion Btu
1960	**398**	**11,967**	**111**	**59**	**685**	**136**	**99**	**227**	**43**	**1,453**	**559**	**214**	**3,586**	**1**	**154**	*	*	*	**43,794.6**
1961	390	12,489	114	58	694	152	97	234	42	1,476	549	227	3,641	2	158	*	*	*	44,455.2
1962	402	13,267	121	52	732	179	98	255	44	1,533	546	236	3,796	2	173	*	*	*	46,530.6
1963	423	13,970	124	50	747	190	97	276	44	1,582	539	272	3,921	3	169	*	*	*	48,341.8
1964	446	14,814	127	47	750	204	93	295	46	1,611	555	307	4,034	3	182	*	*	*	50,507.0
1965	**472**	**15,280**	**134**	**44**	**776**	**220**	**98**	**307**	**47**	**1,676**	**587**	**313**	**4,202**	**4**	**197**	*	*	**-1**	**52,696.9**
1966	498	16,452	141	38	797	244	101	324	49	1,755	626	334	4,411	6	199	*	*	-1	55,670.4
1967	491	17,388	138	33	818	301	100	344	44	1,810	652	344	4,585	8	225	*	*	-1	57,591.1
1968	510	18,632	148	31	875	349	103	386	48	1,925	668	368	4,902	13	225	*	*	-1	60,999.6
1969	516	20,056	152	26	900	362	100	446	49	2,017	722	387	5,160	14	255	1	*	-1	64,173.9
1970	**523**	**21,139**	**163**	**20**	**927**	**353**	**96**	**447**	**50**	**2,111**	**804**	**393**	**5,364**	**22**	**253**	1	*	**-2**	**66,334.1**
1971	502	21,793	167	18	971	369	91	457	49	2,195	838	397	5,553	38	273	1	*	-1	67,788.6
1972	524	22,101	171	17	1,066	382	86	520	53	2,334	926	436	5,990	54	284	1	*	-1	71,275.3
1973	563	22,049	190	17	1,129	387	79	529	59	2,436	1,030	462	6,317	83	290	2	*	*	74,351.5
1974	558	21,223	176	16	1,076	363	64	513	57	2,386	963	464	6,078	114	317	2	*	2	72,527.6
1975	**563**	**19,538**	**153**	**14**	**1,041**	**365**	**58**	**486**	**50**	**2,436**	**899**	**455**	**5,958**	**173**	**309**	3	*	1	**70,569.3**
1976	604	19,946	150	13	1,147	361	62	514	56	2,554	1,025	508	6,391	191	296	4	*	*	74,392.4
1977	625	19,521	159	14	1,223	379	64	519	58	2,620	1,121	570	6,727	251	241	4	*	1	76,317.2
1978	625	19,627	175	14	1,253	386	64	516	63	2,705	1,103	601	6,879	276	303	3	*	5	78,158.4
1979	681	20,241	174	14	1,208	393	69	581	66	2,568	1,032	654	6,757	255	303	4	*	3	78,920.4
1980	**703**	**19,877**	**145**	**13**	**1,049**	**391**	**58**	**538**	**58**	**2,408**	**918**	**665**	**6,242**	**251**	**300**	5	*	**-1**	**75,985.3**
1981	733	19,404	125	11	1,032	368	46	535	56	2,404	762	521	5,861	273	297	6	*	-1	74,022.2
1982	707	18,001	125	9	975	370	47	547	51	2,387	627	446	5,583	283	342	5	*	-1	70,806.3
1983	737	16,835	136	9	982	382	46	551	53	2,417	519	464	5,559	294	371	6	*	-1	70,486.1
1984	791	17,951	150	9	1,041	430	42	576	57	2,449	501	501	5,756	328	364	8	1	*	74,042.0
1985	**818**	**17,281**	**155**	**10**	**1,047**	**445**	**42**	**584**	**53**	**2,493**	**439**	**473**	**5,740**	**384**	**325**	**9**	**1**	**-1**	**74,018.5**
1986	804	16,221	164	12	1,064	477	36	552	52	2,567	518	501	5,942	414	330	10	1	-1	74,232.2
1987	837	17,211	170	9	1,086	506	35	588	59	2,630	462	538	6,083	455	299	11	1	*	76,792.2
1988	884	18,030	171	10	1,143	530	35	606	57	2,685	504	585	6,326	527	258	10	2	2	80,246.9
1989	891	18,799	165	9	1,152	544	31	609	58	2,675	500	581	6,324	529	279	9	2	1	81,342.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood, waste and wind, photovoltaic, and solar thermal energy.
[6] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 10. Residential Energy Consumption Estimates, 1960–1989, United States

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Million Short Tons			Billion Cubic Feet	Million Barrels				Billion Kilowatthours			
1960	**11**	**6**	**17**	**3,103**	**269**	**62**	**85**	**417**	**201**	**502**		
1961	10	6	15	3,249	276	66	87	429	214	523		
1962	10	5	15	3,479	290	65	95	450	233	560		
1963	8	5	13	3,589	289	65	102	456	251	600		
1964	7	5	11	3,787	280	57	105	442	272	648		
1965	**7**	**4**	**11**	**3,903**	**294**	**59**	**108**	**461**	**291**	**695**		
1966	7	3	10	4,138	291	56	115	461	317	761		
1967	6	3	9	4,313	305	52	126	483	340	813		
1968	5	3	8	4,450	317	56	136	509	382	911		
1969	5	3	8	4,728	316	55	155	525	427	1,020		
1970	**4**	**2**	**7**	**4,837**	**322**	**53**	**153**	**528**	**466**	**1,131**		
1971	4	2	6	4,972	326	52	155	533	500	1,208		
1972	3	2	5	5,126	343	48	167	558	539	1,298		
1973	3	2	5	4,879	344	40	159	543	579	1,388		
1974	3	2	5	4,786	317	32	146	495	578	1,411		
1975	**3**	**1**	**4**	**4,924**	**310**	**28**	**142**	**481**	**588**	**1,419**		
1976	2	1	4	5,051	341	33	148	522	606	1,462		
1977	2	1	4	4,821	342	30	145	517	645	1,559		
1978	3	1	4	4,903	335	27	141	503	674	1,651		
1979	2	1	3	4,965	279	23	96	399	683	1,649		
1980	**2**	**1**	**3**	**4,752**	**226**	**19**	**88**	**333**	**717**	**1,746**		
1981	2	1	3	4,546	197	15	85	297	722	1,722		
1982	2	1	3	4,633	180	17	82	279	730	1,753		
1983	2	1	3	4,381	159	15	98	271	751	1,799		
1984	3	1	4	4,555	165	16	105	286	780	1,812		
1985	**2**	**1**	**3**	**4,433**	**171**	**21**	**117**	**309**	**794**	**1,862**		
1986	2	1	3	4,314	174	15	113	302	819	1,878		
1987	2	1	3	4,315	177	16	115	308	850	1,938		
1988	2	1	3	4,630	182	18	124	325	893	2,017		
1989	2	1	2	4,777	179	15	137	330	906	2,032		
										Net Energy[4]		Total[4]
						Trillion Btu						
1960	**251.9**	**156.4**	**408.3**	**3,211.8**	**1,568.2**	**354.1**	**342.9**	**2,265.3**	**687.4**	**6,572.7**	**1,711.3**	**8,284.0**
1961	229.3	142.7	372.0	3,362.3	1,609.5	371.8	350.5	2,331.9	731.7	6,797.8	1,784.2	8,582.1
1962	233.4	123.3	356.7	3,600.3	1,687.8	370.5	382.6	2,440.9	794.3	7,192.2	1,910.1	9,102.3
1963	195.2	114.4	309.6	3,695.3	1,683.0	366.3	410.2	2,459.4	855.6	7,319.9	2,046.7	9,366.6
1964	162.6	109.5	272.0	3,899.6	1,632.5	322.0	420.6	2,375.0	927.5	7,474.1	2,210.3	9,684.4
1965	**157.3**	**96.7**	**254.0**	**4,019.3**	**1,712.5**	**334.1**	**434.0**	**2,480.6**	**992.9**	**7,746.8**	**2,372.0**	**10,118.8**
1966	164.2	81.6	245.8	4,260.5	1,692.5	316.9	461.2	2,470.7	1,081.2	8,058.2	2,595.8	10,654.0
1967	140.1	71.0	211.1	4,439.8	1,778.4	295.2	483.3	2,556.8	1,160.5	8,368.2	2,774.2	11,142.4
1968	124.6	66.5	191.1	4,578.4	1,847.1	319.0	519.1	2,685.2	1,301.9	8,756.6	3,108.1	11,864.7
1969	119.1	58.6	177.7	4,864.4	1,838.4	310.7	589.6	2,738.7	1,456.0	9,236.8	3,479.9	12,716.7
1970	**96.4**	**56.9**	**153.4**	**4,952.6**	**1,877.9**	**298.4**	**578.9**	**2,755.2**	**1,591.0**	**9,452.1**	**3,857.9**	**13,310.0**
1971	90.1	54.5	144.5	5,092.4	1,896.5	295.2	585.4	2,777.1	1,704.4	9,718.4	4,123.4	13,841.8
1972	69.4	41.6	111.0	5,256.9	1,996.3	271.1	628.0	2,895.4	1,837.7	10,101.0	4,427.5	14,528.6
1973	65.5	39.7	105.2	5,000.5	2,003.3	227.1	594.8	2,825.2	1,976.3	9,907.3	4,734.9	14,642.2
1974	69.3	34.5	103.8	4,898.0	1,843.8	183.8	545.9	2,573.5	1,972.8	9,548.1	4,813.4	14,361.5
1975	**56.3**	**28.4**	**84.7**	**5,024.1**	**1,806.6**	**160.5**	**527.8**	**2,494.9**	**2,006.7**	**9,610.5**	**4,843.2**	**14,453.6**
1976	55.0	27.4	82.4	5,148.7	1,986.7	184.5	549.2	2,720.4	2,069.2	10,020.7	4,987.7	15,008.4
1977	55.5	28.0	83.5	4,914.4	1,994.2	167.4	533.5	2,695.0	2,201.6	9,894.4	5,319.6	15,214.1
1978	61.2	23.4	84.6	4,986.9	1,950.7	152.8	516.4	2,619.9	2,301.3	9,992.7	5,633.0	15,625.7
1979	55.3	18.3	73.6	5,052.4	1,626.0	132.8	354.8	2,113.7	2,329.8	9,569.5	5,627.1	15,196.6
1980	**39.5**	**20.8**	**60.4**	**4,855.4**	**1,316.1**	**106.6**	**325.1**	**1,747.9**	**2,448.1**	**9,111.7**	**5,957.6**	**15,069.3**
1981	42.0	28.2	70.3	4,652.1	1,147.1	85.3	310.9	1,543.4	2,464.4	8,730.1	5,876.1	14,606.2
1982	51.4	24.2	75.7	4,750.7	1,049.8	95.1	296.1	1,441.0	2,489.1	8,756.5	5,980.3	14,736.8
1983	55.8	20.0	75.8	4,514.5	924.4	85.4	352.4	1,362.2	2,562.2	8,514.8	6,139.8	14,654.6
1984	60.2	22.1	82.3	4,685.0	959.5	88.0	379.0	1,426.5	2,661.7	8,855.4	6,183.3	15,038.8
1985	**51.2**	**18.1**	**69.3**	**4,566.1**	**998.1**	**116.4**	**422.5**	**1,536.9**	**2,708.9**	**8,881.2**	**6,353.8**	**15,235.0**
1986	51.1	18.1	69.2	4,432.3	1,012.0	86.6	413.0	1,511.7	2,794.7	8,807.9	6,409.0	15,216.9
1987	46.8	18.9	65.6	4,435.7	1,030.0	90.6	421.5	1,542.2	2,901.6	8,945.1	6,612.9	15,558.1
1988	49.1	16.8	65.9	4,757.4	1,062.9	104.0	454.4	1,621.3	3,046.5	9,491.1	6,880.3	16,371.4
1989	41.0	17.2	58.3	4,921.5	1,040.5	83.5	504.7	1,628.7	3,089.7	9,698.1	6,931.7	16,629.8

[1] *Includes supplemental gaseous fuels.*
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 11. Commercial Energy Consumption Estimates, 1960–1989, United States

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Million Short Tons			Billion Cubic Feet	Million Barrels						Billion Kilowatthours			
1960	**20**	**4**	**24**	**1,020**	**85**	**8**	**15**	**13**	**89**	**210**	**159**	**396**		
1961	18	4	22	1,077	87	8	15	13	90	213	167	408		
1962	18	3	22	1,207	90	8	17	14	90	219	182	437		
1963	15	3	18	1,268	90	8	18	14	87	217	201	482		
1964	13	3	16	1,375	87	8	19	14	86	215	216	515		
1965	**12**	**3**	**15**	**1,444**	**92**	**9**	**19**	**15**	**103**	**238**	**231**	**552**		
1966	13	2	15	1,623	91	11	20	15	109	246	252	605		
1967	11	2	13	1,959	95	8	22	16	114	255	271	649		
1968	10	2	12	2,076	98	11	24	16	112	260	298	711		
1969	10	2	11	2,253	98	11	27	16	111	263	325	777		
1970	**8**	**2**	**9**	**2,399**	**101**	**11**	**27**	**16**	**114**	**269**	**353**	**855**		
1971	7	2	9	2,509	102	10	27	16	107	262	378	915		
1972	6	1	7	2,608	108	10	29	17	103	267	413	995		
1973	5	1	6	2,597	110	11	28	17	106	272	445	1,067		
1974	6	1	7	2,556	102	10	26	16	94	248	440	1,074		
1975	**5**	**1**	**6**	**2,508**	**101**	**9**	**25**	**17**	**78**	**230**	**468**	**1,130**		
1976	4	1	5	2,668	113	8	26	18	90	255	492	1,185		
1977	5	1	5	2,501	116	9	26	19	94	264	514	1,242		
1978	5	1	6	2,601	114	10	25	20	85	254	532	1,302		
1979	5	1	5	2,786	100	14	17	20	80	231	543	1,312		
1980	**3**	**1**	**4**	**2,611**	**89**	**7**	**16**	**20**	**90**	**222**	**559**	**1,360**		
1981	4	1	4	2,520	78	12	15	17	66	190	596	1,420		
1982	4	1	5	2,606	75	5	14	17	63	175	609	1,462		
1983	5	1	5	2,433	112	20	17	19	33	201	621	1,487		
1984	5	1	6	2,524	117	16	19	20	33	206	664	1,544		
1985	**4**	**1**	**5**	**2,432**	**107**	**9**	**21**	**18**	**30**	**185**	**689**	**1,617**		
1986	4	*	5	2,318	102	7	20	20	39	189	715	1,641		
1987	4	*	4	2,430	102	6	20	21	42	191	745	1,698		
1988	4	*	4	2,670	98	7	22	21	42	191	785	1,772		
1989	3	*	4	2,719	92	8	24	19	35	179	812	1,821		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**467.9**	**104.3**	**572.1**	**1,055.9**	**493.6**	**48.0**	**60.5**	**66.9**	**558.5**	**1,227.5**	**542.7**	**3,398.3**	**1,350.9**	**4,749.2**
1961	425.9	95.1	521.0	1,114.5	504.3	46.9	61.9	69.4	565.0	1,247.5	570.8	3,453.8	1,391.8	4,845.5
1962	433.5	82.2	515.6	1,248.9	525.9	45.0	67.5	72.4	568.9	1,279.7	619.6	3,663.8	1,490.0	5,153.8
1963	362.6	76.2	438.8	1,301.6	523.2	46.1	72.4	72.5	548.0	1,262.2	686.8	3,689.5	1,643.1	5,332.5
1964	301.9	73.0	374.9	1,412.0	509.2	47.4	74.2	73.8	542.3	1,246.9	738.0	3,771.8	1,758.8	5,530.6
1965	**292.0**	**64.5**	**356.5**	**1,483.3**	**534.5**	**53.7**	**76.6**	**76.8**	**644.9**	**1,386.5**	**789.0**	**4,015.3**	**1,885.1**	**5,900.4**
1966	305.0	54.4	359.4	1,668.7	528.9	60.1	81.4	78.6	686.8	1,435.7	859.1	4,322.9	2,062.8	6,385.7
1967	260.2	47.3	307.6	2,014.7	552.3	45.7	85.3	83.1	716.7	1,483.0	926.0	4,731.4	2,214.1	6,945.5
1968	231.5	44.3	275.8	2,134.3	573.7	59.7	91.6	83.1	702.0	1,510.1	1,015.5	4,935.7	2,424.9	7,360.6
1969	221.2	39.1	260.3	2,315.8	573.0	61.3	104.1	83.8	697.7	1,519.8	1,109.8	5,205.7	2,652.8	7,858.5
1970	**179.1**	**38.0**	**217.1**	**2,454.6**	**587.5**	**61.1**	**102.2**	**86.4**	**714.0**	**1,551.1**	**1,203.2**	**5,426.1**	**2,918.1**	**8,344.2**
1971	167.3	36.3	203.6	2,568.9	594.7	55.3	103.3	84.0	672.5	1,509.8	1,290.1	5,572.4	3,121.4	8,693.8
1972	128.9	27.7	156.6	2,674.1	631.7	55.3	110.8	87.3	644.9	1,530.0	1,409.4	5,770.2	3,396.3	9,166.4
1973	121.7	26.5	148.1	2,660.0	643.6	64.7	105.0	86.8	665.4	1,565.5	1,518.8	5,892.3	3,639.7	9,532.0
1974	128.7	23.0	151.7	2,614.2	595.6	54.6	96.3	83.0	593.2	1,422.7	1,502.1	5,690.6	3,666.1	9,356.7
1975	**104.5**	**19.0**	**123.4**	**2,556.2**	**586.6**	**49.3**	**93.1**	**89.0**	**491.7**	**1,309.7**	**1,597.7**	**5,587.0**	**3,855.9**	**9,442.9**
1976	102.2	18.2	120.4	2,716.8	655.9	43.8	96.9	96.9	567.4	1,460.9	1,677.6	5,975.7	4,043.7	10,019.4
1977	103.1	18.6	121.8	2,546.8	676.1	52.1	94.1	100.6	588.0	1,510.9	1,753.9	5,933.5	4,238.0	10,171.4
1978	113.6	15.6	129.2	2,642.1	665.6	54.7	91.1	106.6	531.7	1,449.8	1,814.3	6,035.5	4,441.0	10,476.5
1979	102.7	12.2	114.9	2,834.0	583.5	78.5	62.6	104.4	505.0	1,334.1	1,853.8	6,136.8	4,478.2	10,615.0
1980	**73.4**	**13.9**	**87.3**	**2,665.7**	**517.7**	**40.6**	**57.4**	**107.1**	**564.7**	**1,287.5**	**1,906.5**	**5,947.1**	**4,639.0**	**10,586.1**
1981	78.0	18.8	96.9	2,577.5	457.1	69.3	54.9	91.6	417.3	1,090.2	2,033.1	5,797.6	4,846.5	10,644.2
1982	95.5	16.1	111.7	2,670.8	439.7	30.3	52.3	87.6	398.6	1,008.4	2,077.1	5,868.0	4,989.4	10,857.4
1983	103.6	13.3	117.0	2,504.6	651.5	111.3	62.2	102.3	208.4	1,135.7	2,118.2	5,875.5	5,075.1	10,950.6
1984	111.8	14.7	126.5	2,593.9	681.0	93.3	66.9	107.1	210.4	1,158.7	2,266.7	6,145.9	5,266.7	11,412.6
1985	**95.1**	**12.1**	**107.2**	**2,503.3**	**624.6**	**49.6**	**74.6**	**96.1**	**190.8**	**1,035.6**	**2,352.4**	**5,998.5**	**5,518.6**	**11,517.1**
1986	94.9	12.0	107.0	2,382.6	595.6	41.5	72.9	106.3	248.2	1,064.6	2,440.4	5,994.6	5,597.4	11,592.0
1987	86.9	12.6	99.4	2,499.1	593.5	36.1	74.4	110.2	262.0	1,076.2	2,541.5	6,216.2	5,792.7	12,009.0
1988	91.1	11.2	102.3	2,743.7	573.6	41.4	80.2	110.5	265.7	1,071.4	2,677.4	6,594.8	6,047.3	12,642.1
1989	76.2	11.5	87.7	2,800.5	535.3	47.2	89.1	101.9	222.6	996.0	2,769.3	6,653.5	6,213.7	12,867.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 12. Industrial Energy Consumption Estimates, 1960–1989, United States

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydropower	Net Imports of Coal Coke	Electricity	Electrical System Energy Losses[3]
	Million Short Tons			Billion Cubic Feet	Million Barrels									Billion Kilowatt-hours	Million Short Tons	Billion Kilowatthours	
1960	173	4	177	5,771	111	174	28	122	18	73	252	214	991	4	*	324	807
1961	166	4	170	5,961	114	175	23	126	17	69	242	227	993	3	*	337	821
1962	168	4	172	6,233	121	183	25	137	20	70	244	236	1,037	3	*	360	865
1963	176	4	180	6,545	124	181	24	149	20	67	244	272	1,081	3	*	377	903
1964	188	5	192	6,893	127	184	28	164	21	65	248	307	1,143	3	*	405	965
1965	**197**	**4**	**201**	**7,112**	**134**	**197**	**29**	**172**	**23**	**65**	**252**	**313**	**1,185**	**3**	**-1**	**429**	**1,024**
1966	201	4	205	7,546	141	210	35	179	24	61	259	334	1,242	3	-1	464	1,112
1967	191	4	195	7,794	138	212	40	186	22	58	253	344	1,253	3	-1	485	1,159
1968	188	3	192	8,367	148	210	36	214	24	58	250	368	1,309	3	-1	521	1,243
1969	184	3	187	8,956	152	214	35	251	25	56	254	387	1,374	3	-1	559	1,336
1970	**184**	**2**	**187**	**9,249**	**163**	**211**	**33**	**255**	**26**	**55**	**258**	**390**	**1,390**	**3**	**-2**	**571**	**1,383**
1971	157	2	159	9,594	167	217	29	261	25	52	257	394	1,403	3	-1	589	1,425
1972	159	1	161	9,624	171	237	28	310	27	48	280	432	1,534	3	-1	641	1,543
1973	161	1	162	10,185	190	252	27	329	32	49	295	459	1,635	3	*	686	1,643
1974	154	1	155	9,769	176	231	22	329	31	45	275	461	1,570	3	2	685	1,670
1975	**146**	**1**	**147**	**8,365**	**153**	**230**	**21**	**308**	**25**	**43**	**240**	**455**	**1,474**	**3**	**1**	**688**	**1,659**
1976	145	2	146	8,598	150	263	22	328	27	40	290	508	1,628	3	*	754	1,817
1977	138	1	139	8,474	159	295	25	335	30	37	308	570	1,760	3	1	786	1,898
1978	133	1	134	8,405	175	300	27	336	32	34	273	599	1,777	3	5	809	1,980
1979	144	1	145	8,398	174	303	31	462	34	31	263	653	1,950	3	3	842	2,032
1980	**126**	**1**	**127**	**8,198**	**145**	**227**	**32**	**429**	**30**	**30**	**215**	**664**	**1,772**	**3**	**-1**	**815**	**1,983**
1981	128	1	128	8,055	125	238	19	426	29	30	172	521	1,560	3	-1	826	1,968
1982	104	1	105	6,941	125	225	25	442	26	26	166	445	1,481	3	-1	745	1,789
1983	103	*	103	6,621	136	196	12	425	27	21	126	463	1,407	3	-1	776	1,859
1984	117	1	118	7,231	150	205	10	440	29	30	139	499	1,503	3	*	838	1,945
1985	**116**	**1**	**116**	**6,867**	**155**	**204**	**12**	**438**	**27**	**41**	**120**	**472**	**1,470**	**3**	**-1**	**837**	**1,962**
1986	111	*	112	6,502	164	206	13	411	27	39	132	500	1,492	3	-1	831	1,904
1987	112	*	112	7,103	170	211	12	447	30	39	107	537	1,553	3	*	858	1,955
1988	118	*	118	7,479	171	210	10	454	29	37	105	583	1,598	3	2	896	2,024
1989	117	*	118	7,887	165	197	8	442	30	38	96	578	1,553	3	1	926	2,076

Year	Net Energy[4]	Total[4]
	Trillion Btu	
1960	**4,441.4**	**106.4**	**4,547.9**	**5,973.3**	**733.8**	**1,015.7**	**161.1**	**488.6**	**107.0**	**381.4**	**1,584.4**	**1,275.7**	**5,747.6**	**38.8**	**-5.6**	**1,106.9**	**17,408.8**	**2,754.2**	**20,162.9**
1961	4,255.7	95.2	4,350.8	6,169.8	753.6	1,017.5	132.7	504.1	104.1	364.2	1,520.2	1,357.1	5,753.5	35.8	-7.9	1,149.3	17,451.3	2,801.7	20,253.0
1962	4,302.2	90.6	4,392.8	6,451.0	803.5	1,064.4	140.3	550.9	119.0	369.5	1,535.9	1,411.9	5,995.5	36.0	-5.5	1,227.8	18,097.6	2,952.0	21,049.6
1963	4,501.7	97.8	4,599.5	6,764.4	824.6	1,054.5	137.5	599.2	119.0	354.0	1,531.6	1,605.4	6,225.9	33.9	-7.4	1,287.8	18,904.1	3,080.0	21,984.0
1964	4,811.8	111.4	4,923.3	7,125.7	840.8	1,071.1	156.5	659.8	125.0	341.0	1,558.6	1,793.6	6,546.2	33.8	-10.4	1,382.0	20,000.6	3,291.9	23,292.5
1965	**5,034.4**	**100.0**	**5,134.4**	**7,350.5**	**890.3**	**1,150.1**	**165.5**	**688.2**	**137.3**	**342.4**	**1,582.0**	**1,833.2**	**6,789.0**	**32.8**	**-18.5**	**1,462.6**	**20,751.0**	**3,492.6**	**24,243.6**
1966	5,136.8	86.8	5,223.6	7,810.3	935.6	1,222.9	196.3	719.0	142.6	321.3	1,625.9	1,945.0	7,108.5	33.1	-24.9	1,581.8	21,732.4	3,795.5	25,527.9
1967	4,858.0	84.1	4,942.1	8,064.4	917.2	1,234.0	226.6	714.7	132.1	303.5	1,590.1	2,000.7	7,119.0	35.8	-15.3	1,654.9	21,800.9	3,953.8	25,754.7
1968	4,792.4	74.5	4,866.9	8,620.6	983.7	1,224.1	204.9	818.6	145.2	304.8	1,569.4	2,138.8	7,389.5	35.2	-17.3	1,778.1	22,672.9	4,242.3	26,915.2
1969	4,654.7	63.8	4,718.5	9,220.5	1,009.0	1,246.9	197.1	956.6	151.9	295.1	1,594.0	2,246.0	7,696.6	34.2	-36.1	1,908.6	23,542.3	4,559.0	28,101.4
1970	**4,609.3**	**54.2**	**4,663.5**	**9,497.5**	**1,082.5**	**1,226.2**	**184.7**	**983.9**	**154.7**	**288.1**	**1,623.9**	**2,264.2**	**7,788.1**	**34.0**	**-57.7**	**1,947.8**	**23,873.3**	**4,720.2**	**28,593.4**
1971	3,907.7	43.4	3,951.1	9,850.6	1,108.3	1,266.4	165.0	983.9	151.9	274.6	1,618.5	2,290.4	7,859.0	33.7	-33.1	2,011.2	23,672.5	4,862.3	28,534.8
1972	3,963.6	32.1	3,995.7	9,881.0	1,136.9	1,381.0	160.4	1,163.9	162.7	253.7	1,761.2	2,514.2	8,533.9	34.4	-26.0	2,187.0	24,606.1	5,265.3	29,871.4
1973	4,014.5	29.7	4,044.3	10,451.9	1,263.7	1,468.7	155.7	1,232.7	195.5	255.3	1,857.6	2,672.2	9,101.3	34.8	-7.5	2,340.9	25,965.7	5,604.4	31,570.1
1974	3,824.3	30.7	3,855.0	10,022.2	1,165.4	1,346.1	126.5	1,227.3	187.2	235.1	1,728.3	2,677.6	8,693.4	33.2	56.1	2,336.8	24,996.7	5,697.0	30,693.7
1975	**3,624.3**	**33.4**	**3,657.6**	**8,570.6**	**1,014.2**	**1,339.0**	**119.0**	**1,144.5**	**149.5**	**223.3**	**1,509.1**	**2,649.4**	**8,148.0**	**32.3**	**13.5**	**2,346.4**	**22,768.4**	**5,660.2**	**28,428.6**
1976	3,604.3	37.9	3,642.1	8,803.6	998.1	1,529.7	122.8	1,215.7	166.1	211.1	1,822.0	2,947.8	9,013.2	33.4	-0.1	2,572.9	24,065.1	6,198.6	30,263.7
1977	3,408.1	34.8	3,442.9	8,685.4	1,056.4	1,719.4	143.2	1,232.4	181.9	196.3	1,936.6	3,309.9	9,776.1	32.6	14.6	2,682.0	24,633.6	6,477.4	31,111.0
1978	3,272.4	30.1	3,302.4	8,604.2	1,159.6	1,749.9	155.5	1,232.9	195.3	177.7	1,715.8	3,478.0	9,864.9	31.6	124.7	2,760.6	24,688.4	6,754.3	31,442.7
1979	3,560.2	22.7	3,582.9	8,584.0	1,153.0	1,764.3	177.5	1,699.9	204.4	161.6	1,655.2	3,750.8	10,566.5	34.1	62.8	2,872.6	25,702.9	6,932.8	32,635.7
1980	**3,128.4**	**27.0**	**3,155.4**	**8,409.4**	**962.2**	**1,323.7**	**181.5**	**1,576.6**	**182.0**	**158.1**	**1,349.2**	**3,793.7**	**9,527.0**	**32.8**	**-35.0**	**2,781.0**	**23,870.5**	**6,764.5**	**30,635.0**
1981	3,126.8	20.9	3,147.7	8,280.5	827.8	1,388.6	107.9	1,550.9	174.5	159.8	1,081.2	2,995.3	8,286.0	33.0	-15.9	2,817.4	22,548.7	6,715.3	29,264.0
1982	2,528.4	15.5	2,544.0	7,144.8	829.4	1,312.8	140.9	1,598.0	159.2	138.2	1,046.6	2,570.3	7,795.3	33.0	-21.7	2,541.8	20,037.2	6,103.9	26,141.1
1983	2,478.8	10.5	2,489.3	6,831.3	904.1	1,142.3	66.1	1,537.5	166.6	112.3	791.4	2,697.4	7,417.7	33.3	-15.6	2,647.7	19,403.7	6,342.3	25,745.9
1984	2,829.2	13.9	2,843.1	7,464.2	992.1	1,192.0	57.9	1,585.3	177.7	159.9	874.1	2,856.7	7,895.7	32.6	-11.5	2,858.7	21,082.8	6,637.1	27,719.9
1985	**2,763.9**	**13.2**	**2,777.2**	**7,096.0**	**1,029.5**	**1,186.3**	**69.7**	**1,578.0**	**165.6**	**217.9**	**754.5**	**2,726.2**	**7,727.6**	**32.7**	**-13.5**	**2,855.1**	**20,475.0**	**6,693.2**	**27,168.2**
1986	2,638.7	11.5	2,650.1	6,713.9	1,085.7	1,200.6	75.2	1,497.7	161.9	206.2	831.4	2,896.0	7,954.7	32.4	-16.7	2,833.8	20,168.2	6,495.2	26,663.4
1987	2,660.6	11.5	2,672.1	7,343.2	1,130.0	1,227.3	68.9	1,636.0	183.1	205.2	673.4	3,085.1	8,209.1	32.4	8.6	2,928.3	21,193.7	6,671.9	27,865.6
1988	2,820.6	11.3	2,831.9	7,720.4	1,136.3	1,220.6	54.2	1,656.5	176.5	193.2	662.9	3,356.9	8,457.4	32.4	39.6	3,058.5	22,140.1	6,905.8	29,045.9
1989	2,786.4	10.7	2,797.0	8,149.1	1,096.0	1,147.7	43.7	1,627.1	181.1	198.7	601.3	3,316.1	8,211.8	32.7	30.4	3,158.3	22,379.3	7,083.9	29,463.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 13. Transportation Energy Consumption Estimates, 1960–1989, United States

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity		Electrical System Energy Losses[3]	
	Million Short Tons	Billion Cubic Feet	Million Barrels								Billion Kilowatthours			
1960	**3**	**347**	**59**	**153**	**136**	**5**	**25**	**1,367**	**134**	**1,880**	**3**		**8**	
1961	1	378	58	153	152	5	24	1,393	132	1,917	3		8	
1962	1	382	52	166	179	6	24	1,448	126	2,000	3		8	
1963	1	424	50	183	190	6	24	1,501	119	2,074	3		7	
1964	1	436	47	195	204	7	25	1,532	124	2,134	3		7	
1965	**1**	**501**	**44**	**188**	**220**	**8**	**24**	**1,596**	**123**	**2,203**	**3**		**7**	
1966	1	535	38	200	244	9	25	1,679	124	2,320	3		7	
1967	*	576	33	199	301	10	22	1,736	131	2,432	3		6	
1968	*	591	31	239	349	11	25	1,852	128	2,635	3		6	
1969	*	631	26	257	362	12	24	1,945	121	2,746	2		6	
1970	*	**722**	**20**	**269**	**353**	**12**	**24**	**2,040**	**121**	**2,839**	**3**		**6**	
1971	*	743	18	292	369	13	24	2,127	111	2,955	2		6	
1972	*	766	17	333	374	14	26	2,269	103	3,135	2		6	
1973	*	728	17	381	380	13	27	2,371	116	3,305	2		6	
1974	*	669	16	378	357	12	26	2,326	111	3,226	3		6	
1975	*	**583**	**14**	**364**	**362**	**11**	**26**	**2,377**	**113**	**3,267**	**3**		**7**	
1976	*	548	13	393	357	12	28	2,495	131	3,430	3		7	
1977	*	533	14	427	373	13	28	2,563	145	3,563	3		7	
1978	0	530	14	460	381	14	30	2,651	157	3,708	3		6	
1979	0	601	14	499	390	6	32	2,517	195	3,652	3		7	
1980	**0**	**635**	**13**	**480**	**389**	**5**	**28**	**2,357**	**222**	**3,494**	**3**		**8**	
1981	0	642	11	498	367	9	27	2,357	194	3,463	3		8	
1982	0	596	9	479	369	9	25	2,344	162	3,397	3		8	
1983	0	490	9	499	382	11	26	2,376	131	3,433	3		8	
1984	0	529	9	540	430	11	28	2,399	139	3,556	4		8	
1985	**0**	**504**	**10**	**550**	**445**	**8**	**26**	**2,434**	**130**	**3,601**	**4**		**9**	
1986	0	485	12	567	477	7	25	2,508	130	3,726	4		9	
1987	0	519	9	582	506	6	29	2,570	129	3,829	4		9	
1988	0	614	10	633	530	6	27	2,627	127	3,961	4		9	
1989	0	630	9	659	544	6	28	2,617	127	3,991	4		9	
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**75.6**	**359.2**	**297.9**	**891.9**	**738.5**	**19.6**	**151.9**	**7,182.5**	**843.9**	**10,126.3**	**10.7**	**10,571.8**	**26.7**	**10,598.5**
1961	19.1	390.8	290.4	891.6	826.8	21.7	147.8	7,318.0	828.6	10,324.9	11.6	10,746.4	28.2	10,774.6
1962	17.0	395.9	262.9	965.3	976.9	23.7	145.5	7,608.9	790.0	10,773.2	11.4	11,197.5	27.4	11,224.9
1963	16.6	438.0	253.2	1,067.4	1,043.7	26.1	145.5	7,883.5	748.6	11,167.8	10.7	11,633.1	25.6	11,658.6
1964	17.6	451.2	235.0	1,133.4	1,120.8	29.1	152.8	8,049.6	777.0	11,497.6	9.8	11,976.1	23.2	11,999.4
1965	**16.1**	**517.9**	**221.6**	**1,093.3**	**1,214.5**	**33.1**	**148.5**	**8,386.4**	**770.3**	**11,867.6**	**9.6**	**12,411.2**	**22.8**	**12,434.0**
1966	14.9	553.3	194.1	1,163.7	1,353.7	37.7	154.3	8,818.8	779.3	12,501.4	9.8	13,079.3	23.4	13,102.8
1967	11.3	593.4	166.1	1,157.9	1,670.2	38.7	135.5	9,120.2	824.1	13,112.8	9.2	13,726.7	21.9	13,748.6
1968	10.1	608.0	154.6	1,392.0	1,941.1	43.4	148.8	9,726.1	805.6	14,211.7	8.6	14,838.5	20.6	14,859.1
1969	7.5	648.6	129.0	1,498.5	2,016.8	45.3	144.0	10,216.4	762.9	14,812.9	8.4	15,477.4	20.0	15,497.4
1970	**6.9**	**740.4**	**100.5**	**1,568.9**	**1,972.7**	**43.6**	**146.7**	**10,716.5**	**760.9**	**15,309.8**	**8.6**	**16,065.7**	**20.7**	**16,086.5**
1971	4.7	761.5	90.3	1,700.6	2,060.8	50.3	147.2	11,173.2	700.8	15,923.2	8.4	16,697.8	20.3	16,718.1
1972	3.7	785.6	85.4	1,941.1	2,090.8	51.9	157.6	11,918.3	645.3	16,890.6	8.5	17,688.4	20.5	17,708.9
1973	2.6	745.3	83.4	2,222.0	2,131.2	48.3	163.4	12,455.0	727.3	17,830.7	8.4	18,587.0	20.1	18,607.1
1974	1.8	683.7	81.9	2,202.3	2,001.1	44.3	156.5	12,216.5	696.7	17,399.3	9.0	18,093.8	21.8	18,115.6
1975	**0.5**	**594.6**	**71.0**	**2,121.0**	**2,029.1**	**41.7**	**154.8**	**12,485.3**	**711.1**	**17,614.0**	**10.3**	**18,219.4**	**24.8**	**18,244.2**
1976	0.3	559.0	67.5	2,288.2	2,002.0	45.5	171.9	13,107.3	823.8	18,506.1	10.4	19,075.9	25.1	19,100.9
1977	0.2	544.0	70.3	2,488.7	2,090.4	47.9	171.8	13,463.5	908.5	19,241.2	10.4	19,795.7	25.0	19,820.7
1978	0.0	541.2	71.5	2,679.3	2,138.3	51.5	184.5	13,926.6	989.8	20,041.5	9.0	20,591.6	21.9	20,613.5
1979	0.0	612.7	70.3	2,905.2	2,185.6	20.8	193.0	13,221.4	1,228.2	19,824.6	10.5	20,447.8	25.2	20,473.0
1980	**0.0**	**649.9**	**64.3**	**2,794.8**	**2,179.4**	**16.9**	**171.9**	**12,382.7**	**1,398.5**	**19,008.5**	**10.6**	**19,669.1**	**25.9**	**19,694.9**
1981	0.0	659.6	56.3	2,901.3	2,058.2	32.2	164.8	12,379.1	1,219.0	18,811.0	11.0	19,481.6	26.3	19,508.0
1982	0.0	613.9	47.0	2,789.5	2,069.0	32.1	150.3	12,312.2	1,019.8	18,420.0	10.9	19,044.8	26.2	19,071.0
1983	0.0	505.2	47.7	2,905.4	2,140.9	38.1	157.4	12,482.3	821.0	18,592.8	10.9	19,108.9	26.1	19,135.0
1984	0.0	544.7	43.9	3,144.1	2,413.7	40.1	167.8	12,600.0	876.5	19,286.1	12.0	19,842.8	27.9	19,870.8
1985	**0.0**	**520.7**	**50.3**	**3,203.5**	**2,496.9**	**27.7**	**156.4**	**12,783.7**	**815.5**	**19,534.1**	**13.0**	**20,067.8**	**30.4**	**20,098.2**
1986	0.0	501.1	58.9	3,304.7	2,682.4	25.9	152.9	13,174.2	816.3	20,215.2	13.2	20,729.5	30.4	20,759.9
1987	0.0	538.0	45.6	3,388.0	2,842.8	20.6	172.9	13,500.5	809.2	20,779.6	12.8	21,330.4	29.2	21,359.6
1988	0.0	633.5	49.0	3,688.6	2,981.8	22.2	166.7	13,801.4	800.0	21,509.6	13.6	22,156.7	30.7	22,187.5
1989	0.0	650.5	47.6	3,839.7	3,058.9	21.8	171.0	13,749.5	798.8	21,687.3	13.6	22,351.4	30.6	22,381.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 14. Estimates of Energy Input at Electric Utilities, 1960–1989, United States

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Million Short Tons			Billion Cubic Feet	Million Barrels				Billion Kilowatthours				
1960	**174**	**3**	**177**	**1,725**	**84**	**4**	**0**	**88**	**1**	**150**	*	*	
1961	180	3	182	1,825	85	4	0	89	2	154	*	*	
1962	191	2	193	1,966	85	4	0	89	2	169	*	*	
1963	209	2	211	2,144	89	4	0	93	3	166	*	*	
1964	223	2	225	2,323	97	4	0	101	3	179	*	*	
1965	**243**	**2**	**245**	**2,321**	**110**	**5**	**0**	**115**	**4**	**194**	*	*	
1966	264	2	266	2,610	135	6	0	141	6	196	*	*	
1967	272	2	274	2,746	154	7	0	161	8	221	*	*	
1968	296	2	298	3,148	179	10	0	189	13	222	*	*	
1969	309	2	311	3,488	236	15	0	251	14	251	1	*	
1970	**318**	**2**	**320**	**3,932**	**311**	**24**	**3**	**339**	**22**	**250**	**1**	*	
1971	326	2	327	3,976	362	34	3	399	38	270	1	*	
1972	350	2	352	3,977	440	53	3	497	54	280	1	*	
1973	388	1	389	3,660	513	47	3	563	83	286	2	*	
1974	390	1	392	3,443	483	53	3	539	114	314	2	*	
1975	**404**	**1**	**406**	**3,158**	**467**	**39**	*	**506**	**173**	**306**	**3**	*	
1976	447	1	448	3,081	514	42	*	556	191	292	4	*	
1977	476	1	477	3,191	575	49	*	624	251	238	4	*	
1978	480	1	481	3,188	588	48	2	638	276	300	3	*	
1979	526	1	527	3,491	493	31	1	525	255	300	4	*	
1980	**568**	**1**	**569**	**3,682**	**391**	**29**	**1**	**421**	**251**	**297**	**5**	*	
1981	596	1	597	3,640	330	21	1	352	273	294	6	*	
1982	593	1	594	3,226	234	15	1	251	283	339	5	*	
1983	624	1	625	2,911	229	17	1	247	294	367	6	*	
1984	663	1	664	3,111	189	15	1	206	328	361	8	1	
1985	**693**	**1**	**694**	**3,044**	**159**	**15**	**1**	**175**	**384**	**322**	**9**	**1**	
1986	684	1	685	2,602	216	14	2	232	414	327	10	1	
1987	717	1	718	2,844	184	15	2	201	455	296	11	1	
1988	757	1	758	2,636	229	19	2	250	527	255	10	2	
1989	766	1	767	2,787	242	25	3	270	529	276	9	2	
						Trillion Btu							
1960	**4,178.4**	**48.2**	**4,226.6**	**1,785.1**	**530.4**	**22.3**	**0.0**	**552.7**	**6.0**	**1,618.0**	**0.8**	**1.5**	**8,190.7**
1961	4,311.2	43.9	4,355.1	1,889.0	535.7	21.6	0.0	557.3	19.7	1,644.6	2.2	1.3	8,469.2
1962	4,582.2	40.2	4,622.4	2,034.8	536.8	22.8	0.0	559.6	26.4	1,785.8	2.3	1.3	9,032.7
1963	5,012.6	37.4	5,050.1	2,219.7	560.0	24.7	0.0	584.7	38.1	1,738.5	3.7	1.3	9,636.2
1964	5,340.6	39.2	5,379.8	2,409.1	608.8	25.1	0.0	633.9	39.8	1,873.0	4.5	1.5	10,341.6
1965	**5,783.6**	**37.8**	**5,821.4**	**2,408.5**	**693.3**	**28.7**	**0.0**	**722.0**	**43.2**	**2,024.8**	**4.2**	**2.8**	**11,026.9**
1966	6,263.2	38.4	6,301.6	2,713.0	846.5	36.8	0.0	883.2	64.2	2,039.8	4.2	3.5	12,009.4
1967	6,406.6	38.3	6,444.9	2,852.7	967.5	43.1	0.0	1,010.5	88.5	2,307.8	6.9	3.3	12,714.5
1968	6,955.0	38.6	6,993.6	3,263.3	1,124.2	57.3	0.0	1,181.4	141.5	2,306.9	9.4	3.9	13,900.0
1969	7,186.8	32.4	7,219.2	3,608.8	1,484.1	87.1	0.0	1,571.3	153.7	2,625.0	13.3	3.3	15,194.5
1970	**7,194.8**	**33.2**	**7,228.0**	**4,047.6**	**1,957.6**	**140.5**	**19.2**	**2,117.3**	**239.3**	**2,620.1**	**11.3**	**3.7**	**16,267.5**
1971	7,270.4	28.8	7,299.2	4,091.8	2,277.1	199.7	18.2	2,495.0	412.9	2,827.4	11.9	3.3	17,141.5
1972	7,814.8	27.7	7,842.5	4,084.9	2,768.1	310.1	18.9	3,097.1	583.8	2,909.2	31.5	3.4	18,552.4
1973	8,634.1	25.9	8,659.9	3,737.7	3,226.4	273.1	15.3	3,514.8	910.2	2,975.0	42.6	3.4	19,843.6
1974	8,512.9	25.8	8,538.7	3,511.4	3,037.5	308.7	18.8	3,365.0	1,272.1	3,275.9	53.2	2.6	20,019.0
1975	**8,764.0**	**25.2**	**8,789.3**	**3,231.6**	**2,937.4**	**226.1**	**2.1**	**3,165.7**	**1,899.8**	**3,186.6**	**70.2**	**2.0**	**20,345.1**
1976	9,707.0	23.7	9,730.7	3,153.1	3,232.0	243.1	2.1	3,477.1	2,111.1	3,032.2	78.2	2.8	21,585.1
1977	10,234.2	24.6	10,258.7	3,281.9	3,614.2	283.5	2.9	3,900.6	2,701.8	2,482.4	77.4	5.0	22,707.8
1978	10,235.2	18.2	10,253.4	3,293.2	3,698.8	276.1	12.0	3,986.9	3,024.1	3,109.8	64.3	3.5	23,735.3
1979	11,252.0	18.3	11,270.3	3,604.4	3,097.0	178.3	8.1	3,283.4	2,775.8	3,107.1	83.8	5.2	24,129.9
1980	**12,141.1**	**16.8**	**12,157.9**	**3,803.6**	**2,459.2**	**168.9**	**5.4**	**2,633.6**	**2,739.2**	**3,084.7**	**109.8**	**4.5**	**24,533.2**
1981	12,600.7	22.2	12,622.9	3,758.7	2,073.4	124.0	4.2	2,201.7	3,007.6	3,072.4	123.0	3.8	24,790.1
1982	12,518.2	19.5	12,537.8	3,335.1	1,473.9	89.3	4.5	1,567.7	3,131.1	3,539.0	104.7	3.4	24,218.7
1983	13,167.9	17.1	13,185.0	2,992.1	1,439.6	96.2	7.9	1,543.7	3,202.5	3,865.7	129.3	4.0	24,922.3
1984	13,943.4	18.2	13,961.6	3,215.0	1,190.1	88.5	7.6	1,286.1	3,552.5	3,724.7	164.9	9.3	25,914.1
1985	**14,569.1**	**17.3**	**14,586.4**	**3,156.9**	**998.2**	**85.2**	**7.0**	**1,090.5**	**4,148.8**	**3,330.0**	**198.3**	**14.5**	**26,525.4**
1986	14,405.5	12.9	14,418.4	2,688.5	1,359.0	83.4	9.4	1,451.8	4,471.2	3,352.7	219.2	12.3	26,614.1
1987	15,099.3	15.5	15,114.8	2,933.7	1,156.9	89.5	10.5	1,256.9	4,906.0	3,035.2	229.1	15.3	27,491.0
1988	15,867.7	18.4	15,886.2	2,707.9	1,441.8	109.3	12.3	1,563.4	5,661.3	2,607.0	217.3	17.2	28,660.2
1989	15,979.6	17.1	15,996.8	2,862.8	1,521.2	148.5	15.6	1,685.3	5,676.8	2,851.8	197.1	20.3	29,290.8

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] Includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 15. Energy Consumption Estimates by Source, 1960–1989, Alabama

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**15,579**	**184**	**2,160**	**280**	**5,393**	**1,126**	**1,046**	**3,211**	**661**	**24,578**	**4,292**	**745**	**43,491**	**0**	**6,239**	**0**	**0**	**-19,803**	
1961	15,251	185	2,149	292	4,335	1,144	493	3,426	643	25,183	3,620	1,723	43,009	0	6,747	0	0	-27,160	
1962	17,087	194	2,273	321	4,962	1,281	323	3,757	657	26,214	2,751	1,945	44,484	0	7,540	0	0	-32,832	
1963	17,877	206	2,471	373	5,141	1,286	474	4,130	657	26,978	3,205	2,353	47,069	0	6,384	0	0	-30,794	
1964	18,529	222	2,548	333	5,906	1,326	750	4,618	690	27,750	2,268	2,080	48,270	0	8,760	0	0	-30,585	
1965	**21,473**	**229**	**2,749**	**446**	**5,251**	**1,156**	**908**	**4,207**	**741**	**28,919**	**2,553**	**2,136**	**49,066**	**0**	**7,103**	**0**	**0**	**-32,017**	
1966	23,481	233	2,627	398	5,141	1,192	1,843	4,864	770	30,576	1,716	2,366	51,494	0	6,926	0	0	-37,942	
1967	23,347	254	2,746	381	4,070	1,426	965	5,022	672	31,568	2,934	2,643	52,429	0	9,139	0	0	-36,735	
1968	24,986	287	2,582	425	6,419	1,814	1,096	6,564	739	33,359	2,801	2,486	58,286	0	7,382	0	0	-30,651	
1969	25,998	301	3,222	405	7,347	1,867	1,578	7,780	797	34,766	3,465	2,761	63,990	0	7,515	0	0	-22,843	
1970	**27,653**	**298**	**3,176**	**349**	**8,512**	**1,799**	**1,310**	**7,583**	**812**	**37,003**	**3,290**	**2,877**	**66,710**	**0**	**7,632**	**0**	**0**	**-21,654**	
1971	26,116	286	3,094	355	8,858	1,786	963	8,025	831	39,066	2,655	3,552	69,184	0	9,936	0	0	-17,104	
1972	27,692	278	3,348	358	12,093	1,704	682	8,985	889	41,384	3,138	4,042	76,623	0	10,233	0	0	-13,815	
1973	28,646	272	3,638	331	14,418	1,681	1,180	8,488	1,012	43,694	6,107	3,727	84,276	314	11,803	0	0	-21,692	
1974	27,339	275	3,107	306	15,067	1,706	697	7,121	969	44,115	10,325	4,571	87,985	6,289	10,369	0	0	-28,828	
1975	**26,609**	**264**	**2,706**	**249**	**14,697**	**1,707**	**673**	**6,540**	**1,049**	**45,174**	**12,953**	**3,910**	**89,656**	**2,722**	**12,213**	**0**	**0**	**-28,518**	
1976	26,246	226	2,963	232	18,274	1,654	570	7,182	1,165	47,463	14,244	4,035	97,783	4,214	9,458	0	0	-14,965	
1977	26,261	241	3,200	244	19,783	1,773	824	7,793	992	49,179	16,299	5,076	105,163	19,522	10,354	0	0	-61,312	
1978	23,748	237	3,718	240	20,607	1,785	1,040	6,860	1,065	50,715	14,942	4,922	105,893	22,830	7,893	0	0	-45,670	
1979	27,424	283	3,150	235	15,056	1,702	1,136	5,756	1,114	47,914	10,246	4,852	91,161	22,090	11,867	0	0	-67,643	
1980	**27,042**	**269**	**3,132**	**248**	**15,190**	**2,048**	**1,253**	**4,949**	**992**	**44,296**	**7,296**	**4,484**	**83,890**	**23,497**	**9,408**	**0**	**0**	**-68,842**	
1981	25,779	271	3,747	226	17,944	1,754	526	4,573	952	43,028	4,640	8,497	85,887	23,643	6,038	0	0	-64,039	
1982	20,956	241	3,584	173	15,422	1,581	1,730	4,424	868	42,946	6,120	7,019	83,867	27,701	10,731	0	0	-79,805	
1983	21,978	222	3,719	177	15,386	1,643	1,008	4,450	909	43,379	3,468	5,128	79,266	25,145	11,165	0	0	-82,598	
1984	23,936	232	3,625	172	16,160	3,695	1,189	4,267	969	44,188	4,111	6,414	84,791	24,211	10,798	0	0	-69,588	
1985	**27,145**	**219**	**3,757**	**172**	**16,278**	**3,516**	**1,009**	**4,148**	**903**	**43,466**	**3,623**	**6,215**	**83,088**	**14,313**	**6,886**	**0**	**0**	**-51,094**	
1986	26,830	203	3,486	204	16,457	3,745	1,743	4,170	883	46,449	9,171	6,243	92,551	11,561	5,251	0	0	-35,844	
1987	26,682	208	4,564	143	18,741	3,872	2,161	4,784	998	48,421	10,821	7,253	101,759	11,248	7,472	0	0	-27,723	
1988	26,440	236	4,132	157	20,427	1,872	2,963	4,881	963	48,151	13,001	7,343	103,890	12,981	5,383	0	0	-16,101	
1989	27,611	245	4,484	133	24,711	2,046	1,154	6,197	987	49,464	13,550	6,381	109,107	11,524	13,177	0	0	-42,463	
									Trillion Btu										
1960	**395.4**	**190.7**	**14.3**	**1.4**	**31.4**	**6.1**	**5.9**	**12.9**	**4.0**	**129.1**	**27.0**	**4.4**	**236.6**	**0.0**	**67.1**	**0.0**	**0.0**	**-67.6**	**822.2**
1961	382.5	191.5	14.3	1.5	25.2	6.1	2.8	13.7	3.9	132.3	22.8	10.3	232.9	0.0	71.9	0.0	0.0	-92.7	786.1
1962	427.2	201.2	15.1	1.6	28.9	6.9	1.8	15.1	4.0	137.7	17.3	11.7	240.0	0.0	79.6	0.0	0.0	-112.0	836.1
1963	442.5	211.3	16.4	1.9	29.9	6.9	2.7	16.6	4.0	141.7	20.1	14.0	254.2	0.0	66.9	0.0	0.0	-105.1	869.9
1964	459.0	230.3	16.9	1.7	34.4	7.1	4.3	18.5	4.2	145.8	14.3	12.3	259.4	0.0	91.7	0.0	0.0	-104.4	936.0
1965	**533.1**	**236.9**	**18.2**	**2.3**	**30.6**	**6.2**	**5.2**	**16.9**	**4.5**	**151.9**	**16.0**	**12.6**	**264.4**	**0.0**	**74.2**	**0.0**	**0.0**	**-109.2**	**999.5**
1966	583.5	240.8	17.4	2.0	29.9	6.4	10.4	19.5	4.7	160.6	10.8	13.9	275.8	0.0	72.1	0.0	0.0	-129.5	1,042.7
1967	580.2	262.1	18.2	1.9	23.7	7.7	5.5	19.3	4.1	165.8	18.4	15.5	280.2	0.0	95.3	0.0	0.0	-125.3	1,092.4
1968	618.3	296.7	17.1	2.1	37.4	9.9	6.2	25.1	4.5	175.2	17.6	14.5	309.7	0.0	76.8	0.0	0.0	-104.6	1,196.9
1969	641.5	310.8	21.4	2.0	42.8	10.2	8.9	29.6	4.8	182.6	21.8	16.2	340.4	0.0	78.5	0.0	0.0	-77.9	1,293.3
1970	**675.6**	**307.8**	**21.1**	**1.8**	**49.6**	**9.9**	**7.4**	**28.7**	**4.9**	**194.4**	**20.7**	**16.9**	**355.3**	**0.0**	**80.1**	**0.0**	**0.0**	**-73.9**	**1,344.8**
1971	626.1	294.8	20.5	1.8	51.6	9.8	5.5	30.3	5.0	205.2	16.7	21.0	367.4	0.0	104.1	0.0	0.0	-58.4	1,334.1
1972	669.7	287.1	22.2	1.8	70.4	9.4	3.9	33.8	5.4	217.4	19.7	23.9	407.9	0.0	106.2	0.0	0.0	-47.1	1,423.8
1973	688.7	280.0	24.1	1.7	84.0	9.3	6.7	31.8	6.1	229.5	38.4	22.0	453.6	3.4	122.6	0.0	0.0	-74.0	1,474.3
1974	653.4	282.5	20.6	1.5	87.8	9.4	4.0	26.6	5.9	231.7	64.9	27.1	479.4	70.2	108.3	0.0	0.0	-98.4	1,495.4
1975	**640.1**	**271.7**	**18.0**	**1.3**	**85.6**	**9.4**	**3.8**	**24.3**	**6.4**	**237.3**	**81.4**	**23.1**	**490.6**	**30.0**	**127.1**	**0.0**	**0.0**	**-97.3**	**1,462.1**
1976	632.1	232.8	19.7	1.2	106.4	9.1	3.2	26.7	7.1	249.3	89.6	23.8	536.0	46.6	98.1	0.0	0.0	-51.1	1,494.5
1977	629.4	248.7	21.2	1.2	115.2	9.8	4.7	28.7	6.0	258.3	102.5	30.0	577.6	210.2	108.0	0.0	0.0	-209.2	1,564.8
1978	577.6	245.0	24.7	1.2	120.0	9.9	5.9	25.2	6.5	266.4	93.9	29.0	582.7	249.8	81.8	0.0	0.0	-155.8	1,581.0
1979	670.2	291.5	20.9	1.2	87.7	9.5	6.4	21.2	6.8	251.7	64.4	28.3	498.1	240.3	122.9	0.0	0.0	-230.8	1,592.1
1980	**661.0**	**278.4**	**20.8**	**1.3**	**88.5**	**11.3**	**7.1**	**18.2**	**6.0**	**232.7**	**45.9**	**26.0**	**457.7**	**256.3**	**97.7**	**0.0**	**0.0**	**-234.9**	**1,516.2**
1981	630.0	281.0	24.9	1.1	104.5	9.7	3.0	16.7	5.8	226.0	29.2	48.5	469.3	260.8	63.1	0.0	0.0	-218.5	1,485.7
1982	511.1	253.5	23.8	0.9	89.8	8.7	9.8	16.0	5.3	225.6	38.5	40.3	458.6	306.7	112.2	0.0	0.0	-272.3	1,369.8
1983	532.6	230.0	24.7	0.9	89.6	9.1	5.7	16.1	5.5	227.9	21.8	29.4	430.6	274.2	117.5	0.0	0.0	-281.8	1,303.1
1984	584.6	239.7	24.1	0.9	94.1	20.7	6.7	15.4	5.9	232.1	25.8	36.2	461.9	262.5	111.5	0.0	0.0	-237.4	1,422.7
1985	**662.9**	**227.8**	**24.9**	**0.9**	**94.8**	**19.7**	**5.7**	**14.9**	**5.5**	**228.3**	**22.8**	**35.3**	**452.9**	**154.8**	**71.2**	**0.0**	**0.0**	**-174.3**	**1,395.2**
1986	660.5	210.2	23.1	1.0	95.9	21.0	9.9	15.2	5.4	244.0	57.7	35.4	508.5	124.9	53.9	0.0	0.0	-122.3	1,435.7
1987	660.7	214.6	30.3	0.7	109.2	21.7	12.3	17.5	6.1	254.4	68.0	41.1	561.2	121.2	76.6	0.0	0.0	-94.6	1,539.7
1988	652.7	243.2	27.4	0.8	119.0	10.4	16.8	17.8	5.8	252.9	81.7	41.6	574.3	139.5	55.1	0.0	0.0	-54.9	1,609.8
1989	673.9	252.2	29.8	0.7	143.9	11.4	6.5	22.8	6.0	259.8	85.2	35.6	601.7	123.6	136.1	0.0	0.0	-144.9	1,642.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 16. Residential Energy Consumption Estimates, 1960–1989, Alabama

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**96**	**0**	**96**	**41**	**36**	**163**	**2,101**	**2,300**	**4,129**	**10,271**
1961	66	0	66	39	18	103	2,265	2,386	4,291	10,458
1962	107	0	107	42	24	60	2,348	2,432	4,911	11,807
1963	110	0	110	48	24	89	2,557	2,670	5,240	12,532
1964	51	0	51	51	33	110	2,815	2,957	5,739	13,669
1965	**35**	**0**	**35**	**48**	**24**	**169**	**2,672**	**2,865**	**6,150**	**14,684**
1966	36	0	36	48	26	273	3,133	3,431	6,631	15,912
1967	32	0	32	46	21	124	3,292	3,437	7,117	17,002
1968	33	0	33	52	25	161	4,360	4,546	9,115	21,747
1969	45	0	45	55	27	245	5,066	5,338	10,257	24,500
1970	**44**	**0**	**44**	**56**	**36**	**236**	**4,920**	**5,192**	**11,527**	**27,935**
1971	37	0	37	55	35	156	5,271	5,462	12,237	29,585
1972	42	0	42	53	56	106	5,782	5,944	13,348	32,128
1973	34	0	34	56	67	247	5,272	5,586	14,704	35,203
1974	13	0	13	55	79	137	4,273	4,489	14,687	35,812
1975	**7**	**0**	**7**	**52**	**74**	**134**	**3,916**	**4,124**	**13,409**	**32,345**
1976	4	0	4	57	121	117	4,469	4,707	14,087	33,934
1977	10	0	10	57	109	158	4,765	5,032	15,247	36,816
1978	64	0	64	57	98	196	3,879	4,173	15,739	38,505
1979	54	0	54	53	89	136	2,377	2,602	15,029	36,270
1980	**80**	**0**	**80**	**52**	**13**	**198**	**2,589**	**2,800**	**16,469**	**40,047**
1981	31	0	31	50	17	185	2,683	2,885	15,912	37,922
1982	42	1	43	47	55	534	2,293	2,882	15,782	37,905
1983	47	0	47	46	45	601	2,727	3,373	15,814	37,888
1984	50	0	50	51	44	763	2,667	3,475	17,012	39,506
1985	**43**	**0**	**43**	**44**	**34**	**681**	**2,404**	**3,118**	**17,182**	**40,292**
1986	45	0	45	45	39	861	2,545	3,445	18,259	41,863
1987	46	1	47	49	30	944	2,988	3,961	19,294	43,972
1988	52	0	52	49	42	2,351	3,132	5,525	19,641	44,355
1989	24	1	25	48	34	829	3,959	4,823	19,842	44,508

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**68.3**	**35.0**	**103.3**
1961	66.0	35.7	101.7
1962	73.0	40.3	113.2
1963	80.4	42.8	123.2
1964	86.2	46.6	132.8
1965	**83.4**	**50.1**	**133.5**
1966	87.0	54.3	141.3
1967	85.5	58.0	143.5
1968	103.0	74.2	177.2
1969	113.5	83.6	197.1
1970	**118.0**	**95.3**	**213.4**
1971	120.2	100.9	221.1
1972	124.3	109.6	233.9
1973	129.8	120.1	249.9
1974	124.2	122.2	246.4
1975	**115.5**	**110.4**	**225.8**
1976	124.6	115.8	240.4
1977	129.4	125.6	255.0
1978	129.8	131.4	261.2
1979	116.5	123.8	240.3
1980	**122.9**	**136.6**	**259.5**
1981	117.9	129.4	247.3
1982	115.9	129.3	245.2
1983	118.7	129.3	248.0
1984	125.6	134.8	260.4
1985	**117.7**	**137.5**	**255.2**
1986	124.1	142.8	266.9
1987	134.1	150.0	284.2
1988	143.7	151.3	295.0
1989	137.2	151.9	289.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 17. Commercial Energy Consumption Estimates, 1960–1989, Alabama

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**178**	**0**	**178**	**17**	**264**	**294**	**371**	**327**	*	**1,257**	**2,390**	**5,944**		
1961	123	0	123	27	132	186	400	329	*	1,047	2,434	5,933		
1962	198	0	198	29	179	108	414	331	*	1,033	2,729	6,561		
1963	204	0	204	33	178	161	451	163	*	954	2,944	7,042		
1964	95	0	95	34	242	199	497	311	*	1,248	3,203	7,628		
1965	**64**	**0**	**64**	**32**	**175**	**306**	**472**	**327**	*	**1,280**	**3,443**	**8,221**		
1966	67	0	67	32	191	493	553	336	*	1,574	3,608	8,658		
1967	59	0	59	30	151	224	581	347	*	1,304	3,882	9,275		
1968	61	0	61	35	183	291	769	367	*	1,610	4,238	10,111		
1969	83	0	83	37	199	443	894	376	*	1,912	4,730	11,298		
1970	**83**	**0**	**83**	**36**	**264**	**426**	**868**	**391**	*	**1,950**	**5,144**	**12,467**		
1971	69	0	69	37	260	282	930	410	*	1,881	5,395	13,044		
1972	78	0	78	37	412	192	1,020	416	*	2,040	5,868	14,125		
1973	62	0	62	33	493	447	930	437	1	2,307	6,484	15,524		
1974	24	0	24	35	580	248	754	446	1	2,029	6,686	16,303		
1975	**13**	**0**	**13**	**33**	**547**	**242**	**691**	**453**	**1**	**1,934**	**6,493**	**15,662**		
1976	8	0	8	34	892	212	789	465	1	2,360	6,480	15,609		
1977	18	0	18	34	807	285	841	497	2	2,431	6,683	16,137		
1978	118	0	118	30	723	355	685	502	1	2,267	6,833	16,717		
1979	100	0	100	37	660	246	419	493	1	1,819	6,752	16,295		
1980	**148**	**0**	**148**	**29**	**641**	**176**	**457**	**258**	**3**	**1,535**	**7,190**	**17,484**		
1981	57	0	57	27	996	57	474	268	0	1,794	9,131	21,762		
1982	79	*	79	26	237	331	405	268	160	1,401	9,307	22,354		
1983	87	0	87	27	954	94	481	253	23	1,805	9,440	22,616		
1984	93	0	93	28	937	130	471	229	33	1,799	8,454	19,632		
1985	**80**	**0**	**80**	**26**	**1,290**	**147**	**424**	**251**	**1,728**	**3,841**	**8,805**	**20,649**		
1986	84	0	84	25	971	384	449	253	4,066	6,122	9,292	21,305		
1987	85	*	86	22	1,149	773	527	259	3,845	6,554	9,930	22,631		
1988	96	0	96	26	1,125	230	553	244	5,647	7,799	10,239	23,122		
1989	45	1	45	26	1,228	148	699	223	6,673	8,971	11,113	24,927		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**4.4**	**0.0**	**4.4**	**18.1**	**1.5**	**1.7**	**1.5**	**1.7**	*	**6.4**	**8.2**	**37.1**	**20.3**	**57.4**
1961	3.1	0.0	3.1	27.5	0.8	1.1	1.6	1.7	*	5.2	8.3	44.1	20.2	64.3
1962	4.9	0.0	4.9	30.1	1.0	0.6	1.7	1.7	*	5.1	9.3	49.4	22.4	71.8
1963	5.1	0.0	5.1	34.0	1.0	0.9	1.8	0.9	*	4.6	10.0	53.7	24.0	77.8
1964	2.4	0.0	2.4	35.6	1.4	1.1	2.0	1.6	*	6.2	10.9	55.1	26.0	81.1
1965	**1.6**	**0.0**	**1.6**	**33.0**	**1.0**	**1.7**	**1.9**	**1.7**	*	**6.4**	**11.7**	**52.8**	**28.0**	**80.8**
1966	1.7	0.0	1.7	32.7	1.1	2.8	2.2	1.8	*	7.9	12.3	54.5	29.5	84.1
1967	1.4	0.0	1.4	31.3	0.9	1.3	2.2	1.8	*	6.2	13.2	52.2	31.6	83.9
1968	1.5	0.0	1.5	35.9	1.1	1.6	2.9	1.9	*	7.6	14.5	59.4	34.5	93.9
1969	2.0	0.0	2.0	38.5	1.2	2.5	3.4	2.0	*	9.0	16.1	65.7	38.5	104.3
1970	**2.0**	**0.0**	**2.0**	**37.4**	**1.5**	**2.4**	**3.3**	**2.1**	*	**9.3**	**17.6**	**66.2**	**42.5**	**108.7**
1971	1.6	0.0	1.6	37.8	1.5	1.6	3.5	2.2	*	8.8	18.4	66.6	44.5	111.1
1972	1.8	0.0	1.8	38.5	2.4	1.1	3.8	2.2	*	9.5	20.0	69.9	48.2	118.1
1973	1.5	0.0	1.5	34.1	2.9	2.5	3.5	2.3	*	11.2	22.1	68.9	53.0	121.8
1974	0.6	0.0	0.6	36.3	3.4	1.4	2.8	2.3	*	9.9	22.8	69.6	55.6	125.3
1975	**0.3**	**0.0**	**0.3**	**34.4**	**3.2**	**1.4**	**2.6**	**2.4**	*	**9.5**	**22.2**	**66.4**	**53.4**	**119.8**
1976	0.2	0.0	0.2	35.4	5.2	1.2	2.9	2.4	*	11.8	22.1	69.5	53.3	122.7
1977	0.4	0.0	0.4	35.3	4.7	1.6	3.1	2.6	*	12.0	22.8	70.5	55.1	125.6
1978	2.8	0.0	2.8	30.5	4.2	2.0	2.5	2.6	*	11.4	23.3	68.1	57.0	125.1
1979	2.4	0.0	2.4	37.7	3.8	1.4	1.5	2.6	*	9.4	23.0	72.5	55.6	128.1
1980	**3.6**	**0.0**	**3.6**	**29.5**	**3.7**	**1.0**	**1.7**	**1.4**	*	**7.8**	**24.5**	**65.4**	**59.7**	**125.0**
1981	1.4	0.0	1.4	27.8	5.8	0.3	1.7	1.4	0.0	9.3	31.2	69.6	74.3	143.9
1982	1.9	*	1.9	27.2	1.4	1.9	1.5	1.4	1.0	7.1	31.8	68.0	76.3	144.3
1983	2.1	0.0	2.1	27.7	5.6	0.5	1.7	1.3	0.1	9.3	32.2	71.3	77.2	148.4
1984	2.3	0.0	2.3	28.5	5.5	0.7	1.7	1.2	0.2	9.3	28.8	68.9	67.0	135.9
1985	**2.0**	**0.0**	**2.0**	**26.8**	**7.5**	**0.8**	**1.5**	**1.3**	**10.9**	**22.1**	**30.0**	**80.9**	**70.5**	**151.3**
1986	2.1	0.0	2.1	26.0	5.7	2.2	1.6	1.3	25.6	36.4	31.7	96.2	72.7	168.8
1987	2.1	*	2.2	23.1	6.7	4.4	1.9	1.4	24.2	38.5	33.9	97.7	77.2	174.9
1988	2.5	0.0	2.5	26.3	6.6	1.3	2.0	1.3	35.5	46.7	34.9	110.4	78.9	189.3
1989	1.1	*	1.1	27.2	7.2	0.8	2.6	1.2	42.0	53.7	37.9	120.0	85.1	205.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 18. Industrial Energy Consumption Estimates, 1960–1989, Alabama

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**7,769**	**134**	**7,904**	**109**	**2,160**	**2,511**	**589**	**708**	**265**	**382**	**2,014**	**745**	**9,373**	**26**	**8,966**	**22,301**
1961	6,542	118	6,660	104	2,149	1,773	204	730	258	389	1,906	1,723	9,133	25	9,283	22,626
1962	6,879	127	7,006	108	2,273	1,856	155	944	280	374	1,408	1,945	9,236	24	10,172	24,453
1963	6,591	138	6,729	109	2,471	1,766	224	1,064	280	369	1,726	2,353	10,254	25	11,080	26,498
1964	7,434	155	7,589	121	2,548	2,580	442	1,230	294	367	1,228	2,080	10,771	24	12,276	29,235
1965	**8,628**	**146**	**8,774**	**132**	**2,749**	**1,962**	**434**	**1,020**	**311**	**372**	**945**	**2,136**	**9,929**	**25**	**13,636**	**32,559**
1966	9,052	135	9,187	134	2,627	1,904	1,077	1,111	323	325	673	2,366	10,405	25	14,503	34,799
1967	9,313	137	9,449	155	2,746	1,525	617	1,073	311	238	1,174	2,643	10,326	25	15,429	36,859
1968	9,624	129	9,753	172	2,582	1,775	644	1,337	341	238	993	2,486	10,397	25	16,305	38,904
1969	10,217	121	10,338	174	3,222	2,222	890	1,696	384	236	1,724	2,761	13,135	25	18,014	43,031
1970	**11,074**	**103**	**11,177**	**171**	**3,176**	**2,833**	**648**	**1,696**	**391**	**204**	**1,611**	**2,428**	**12,987**	**25**	**18,041**	**43,720**
1971	10,195	87	10,282	164	3,094	2,669	526	1,708	394	199	1,194	2,944	12,729	25	18,171	43,930
1972	10,650	83	10,733	166	3,348	3,737	384	2,062	422	194	1,673	3,323	15,143	25	20,184	48,584
1973	9,838	81	9,919	159	3,638	4,363	486	2,166	534	195	3,586	3,043	18,012	25	21,523	51,526
1974	9,317	80	9,397	160	3,107	4,549	311	2,003	512	140	4,874	3,211	18,706	25	21,847	53,269
1975	**9,218**	**69**	**9,288**	**156**	**2,706**	**4,475**	**297**	**1,846**	**440**	**198**	**5,814**	**3,910**	**19,686**	**25**	**20,473**	**49,384**
1976	8,305	79	8,384	123	2,963	6,677	241	1,818	488	98	6,856	4,035	23,176	25	23,747	57,202
1977	7,351	73	7,424	137	3,200	6,959	382	2,075	506	135	7,975	5,076	26,307	24	25,715	62,095
1978	6,906	62	6,969	133	3,718	6,892	488	2,174	544	101	7,312	4,922	26,151	24	26,958	65,953
1979	8,512	61	8,573	174	3,150	4,829	754	2,900	569	58	6,701	4,852	23,812	25	28,439	68,633
1980	**7,177**	**44**	**7,221**	**171**	**3,132**	**3,356**	**879**	**1,857**	**506**	**104**	**3,787**	**4,484**	**18,106**	**24**	**26,708**	**64,945**
1981	6,159	28	6,187	174	3,747	4,544	284	1,284	486	164	2,454	8,497	21,460	24	24,835	59,189
1982	5,220	30	5,250	151	3,584	3,865	865	1,563	443	70	3,647	7,019	21,055	24	19,962	47,946
1983	4,663	19	4,682	133	3,719	4,284	312	1,048	464	68	1,404	5,128	16,425	24	19,832	47,514
1984	5,975	32	6,007	140	3,625	4,207	295	929	495	353	2,036	6,414	18,354	24	24,383	56,621
1985	**5,444**	**32**	**5,476**	**138**	**3,757**	**3,671**	**181**	**1,170**	**461**	**507**	**322**	**6,215**	**16,285**	**24**	**24,179**	**56,699**
1986	5,233	32	5,265	122	3,486	4,088	498	1,049	451	432	4,051	6,243	20,297	24	24,046	55,131
1987	5,773	31	5,804	123	4,564	4,467	444	1,172	509	438	5,667	7,253	24,516	24	25,478	58,065
1988	6,256	35	6,291	147	4,132	4,390	382	1,104	491	385	5,588	7,343	23,815	24	26,758	60,427
1989	5,644	12	5,656	155	4,484	5,178	177	1,446	504	496	4,592	6,381	23,258	24	27,232	61,084

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu																	
1960	**206.6**	**3.3**	**209.9**	**112.8**	**14.3**	**14.6**	**3.3**	**2.8**	**1.6**	**2.0**	**12.7**	**4.4**	**55.9**	**0.3**	**30.6**	**409.4**	**76.1**	**485.5**
1961	173.7	2.9	176.6	107.7	14.3	10.3	1.2	2.9	1.6	2.0	12.0	10.3	54.6	0.3	31.7	370.9	77.2	448.1
1962	182.7	3.1	185.8	112.3	15.1	10.8	0.9	3.8	1.7	2.0	8.8	11.7	54.7	0.3	34.7	387.8	83.4	471.2
1963	175.0	3.3	178.4	112.0	16.4	10.3	1.3	4.3	1.7	1.9	10.9	14.0	60.7	0.3	37.8	389.1	90.4	479.5
1964	197.5	3.7	201.2	125.3	16.9	15.0	2.5	4.9	1.8	1.9	7.7	12.3	63.1	0.3	41.9	431.8	99.8	531.5
1965	**228.4**	**3.5**	**232.0**	**136.0**	**18.2**	**11.4**	**2.5**	**4.1**	**1.9**	**2.0**	**5.9**	**12.6**	**58.6**	**0.3**	**46.5**	**473.4**	**111.1**	**584.5**
1966	239.6	3.3	242.9	138.1	17.4	11.1	6.1	4.5	2.0	1.7	4.2	13.9	60.9	0.3	49.5	491.6	118.7	610.4
1967	246.3	3.2	249.5	160.1	18.2	8.9	3.5	4.1	1.9	1.2	7.4	15.5	60.8	0.3	52.6	523.3	125.8	649.0
1968	253.6	3.0	256.6	177.6	17.1	10.3	3.7	5.1	2.1	1.3	6.2	14.5	60.3	0.3	55.6	550.5	132.7	683.2
1969	269.2	2.8	272.0	179.4	21.4	12.9	5.0	6.5	2.3	1.2	10.8	16.2	76.4	0.3	61.5	589.5	146.8	736.3
1970	**289.0**	**2.4**	**291.4**	**176.5**	**21.1**	**16.5**	**3.7**	**6.4**	**2.4**	**1.1**	**10.1**	**14.2**	**75.4**	**0.3**	**61.6**	**605.1**	**149.2**	**754.3**
1971	263.7	2.1	265.7	168.9	20.5	15.5	3.0	6.4	2.4	1.0	7.5	17.3	73.8	0.3	62.0	570.7	149.9	720.6
1972	275.6	1.9	277.5	171.0	22.2	21.8	2.2	7.8	2.6	1.0	10.5	19.6	87.6	0.3	68.9	605.3	165.8	771.0
1973	254.7	1.8	256.6	163.8	24.1	25.4	2.8	8.1	3.2	1.0	22.5	17.9	105.1	0.3	73.4	599.2	175.8	775.0
1974	240.5	1.8	242.3	164.5	20.6	26.5	1.8	7.5	3.1	0.7	30.6	18.9	109.7	0.3	74.5	591.2	181.8	773.0
1975	**237.3**	**1.5**	**238.8**	**160.0**	**18.0**	**26.1**	**1.7**	**6.9**	**2.7**	**1.0**	**36.6**	**23.1**	**115.9**	**0.3**	**69.9**	**584.9**	**168.5**	**753.4**
1976	217.0	1.8	218.8	125.9	19.7	38.9	1.4	6.7	3.0	0.5	43.1	23.8	137.0	0.3	81.0	563.1	195.2	758.2
1977	191.2	1.8	192.9	140.4	21.2	40.5	2.2	7.6	3.1	0.7	50.1	30.0	155.4	0.3	87.7	576.8	211.9	788.7
1978	179.5	1.5	181.0	136.7	24.7	40.1	2.8	8.0	3.3	0.5	46.0	29.0	154.4	0.2	92.0	564.3	225.0	789.3
1979	220.9	1.5	222.4	178.8	20.9	28.1	4.3	10.7	3.4	0.3	42.1	28.3	138.2	0.3	97.0	636.6	234.2	870.8
1980	**186.0**	**1.0**	**187.0**	**176.3**	**20.8**	**19.6**	**5.0**	**6.8**	**3.1**	**0.5**	**23.8**	**26.0**	**105.5**	**0.2**	**91.1**	**560.2**	**221.6**	**781.8**
1981	159.1	0.7	159.8	180.4	24.9	26.5	1.6	4.7	2.9	0.9	15.4	48.5	125.3	0.2	84.7	550.5	202.0	752.5
1982	132.7	0.7	133.4	158.7	23.8	22.5	4.9	5.6	2.7	0.4	22.9	40.3	123.1	0.2	68.1	483.7	163.6	647.2
1983	117.5	0.5	117.9	138.0	24.7	25.0	1.8	3.8	2.8	0.4	8.8	29.4	96.5	0.2	67.7	420.4	162.1	582.5
1984	152.4	0.8	153.2	145.0	24.1	24.5	1.7	3.3	3.0	1.9	12.8	36.2	107.4	0.2	83.2	489.1	193.2	682.3
1985	**139.7**	**0.7**	**140.4**	**143.0**	**24.9**	**21.4**	**1.0**	**4.2**	**2.8**	**2.7**	**2.0**	**35.3**	**94.4**	**0.2**	**82.5**	**460.5**	**193.5**	**653.9**
1986	134.6	0.8	135.4	126.6	23.1	23.8	2.8	3.8	2.7	2.3	25.5	35.4	119.4	0.2	82.0	463.7	188.1	651.8
1987	149.4	0.8	150.2	127.1	30.3	26.0	2.5	4.3	3.1	2.3	35.6	41.1	145.3	0.2	86.9	509.7	198.1	707.9
1988	161.4	0.9	162.3	151.4	27.4	25.6	2.2	4.0	3.0	2.0	35.1	41.6	140.9	0.2	91.3	546.2	206.2	752.4
1989	145.6	0.3	145.9	159.9	29.8	30.2	1.0	5.3	3.1	2.6	28.9	35.6	136.4	0.2	92.9	535.4	208.4	743.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 19. Transportation Energy Consumption Estimates, 1960-1989, Alabama

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**137**	**8**	**280**	**2,582**	**1,126**	**31**	**396**	**23,869**	**2,278**	**30,562**	**0**	**0**		
1961	30	8	292	2,412	1,144	30	385	24,465	1,714	30,442	0	0		
1962	28	8	321	2,902	1,281	51	377	25,508	1,343	31,783	0	0		
1963	25	10	373	3,173	1,286	59	377	26,445	1,479	33,191	0	0		
1964	28	11	333	3,051	1,326	77	396	27,072	1,039	33,294	0	0		
1965	**29**	**12**	**446**	**3,090**	**1,156**	**43**	**430**	**28,220**	**1,608**	**34,993**	**0**	**0**		
1966	27	13	398	3,021	1,192	67	447	29,915	1,043	36,083	0	0		
1967	23	15	381	2,373	1,426	75	362	30,984	1,761	37,362	0	0		
1968	21	17	425	4,437	1,814	98	397	32,755	1,808	41,734	0	0		
1969	17	20	405	4,894	1,867	124	414	34,155	1,741	43,600	0	0		
1970	**18**	**20**	**349**	**5,353**	**1,799**	**98**	**421**	**36,408**	**1,679**	**46,107**	**0**	**0**		
1971	13	21	355	5,799	1,786	116	437	38,457	1,461	48,411	0	0		
1972	11	19	358	7,390	1,704	121	468	40,774	1,465	52,279	0	0		
1973	7	20	331	8,699	1,681	119	477	43,062	2,520	56,889	0	0		
1974	5	19	306	9,226	1,706	91	457	43,530	5,451	60,767	0	0		
1975	**2**	**17**	**249**	**9,087**	**1,707**	**87**	**609**	**44,523**	**7,039**	**63,300**	**0**	**0**		
1976	1	8	232	9,953	1,654	107	677	46,899	7,245	66,768	0	0		
1977	*	10	244	11,068	1,773	112	486	48,547	8,135	70,365	0	0		
1978	0	11	240	11,819	1,785	122	521	50,112	7,540	72,138	0	0		
1979	0	13	235	9,369	1,702	60	546	47,364	3,514	62,790	0	0		
1980	**0**	**16**	**248**	**11,049**	**2,048**	**46**	**486**	**43,934**	**3,506**	**61,318**	**0**	**0**		
1981	0	18	226	12,291	1,754	132	466	42,596	2,186	59,651	0	0		
1982	0	16	173	11,201	1,581	164	425	42,608	2,313	58,466	0	0		
1983	0	13	177	9,974	1,643	195	445	43,059	2,041	57,534	0	0		
1984	0	13	172	10,900	3,695	200	474	43,606	2,042	61,090	0	0		
1985	**0**	**11**	**172**	**11,195**	**3,516**	**150**	**442**	**42,708**	**1,573**	**59,757**	**0**	**0**		
1986	0	10	204	11,293	3,745	127	432	45,764	1,055	62,620	0	0		
1987	0	12	143	13,036	3,872	97	489	47,725	1,309	66,670	0	0		
1988	0	12	157	14,697	1,872	92	471	47,523	1,766	66,577	0	0		
1989	0	14	133	18,055	2,046	93	483	48,744	2,285	71,839	0	0		
							Trillion Btu							
1960	**3.4**	**7.9**	**1.4**	**15.0**	**6.1**	**0.1**	**2.4**	**125.4**	**14.3**	**164.7**	**0.0**	**176.0**	**0.0**	**176.0**
1961	0.8	7.9	1.5	14.0	6.1	0.1	2.3	128.5	10.8	163.4	0.0	172.0	0.0	172.0
1962	0.7	8.8	1.6	16.9	6.9	0.2	2.3	134.0	8.4	170.3	0.0	179.8	0.0	179.8
1963	0.6	10.8	1.9	18.5	6.9	0.2	2.3	138.9	9.3	178.0	0.0	189.4	0.0	189.4
1964	0.7	11.8	1.7	17.8	7.1	0.3	2.4	142.2	6.5	178.0	0.0	190.6	0.0	190.6
1965	**0.7**	**12.4**	**2.3**	**18.0**	**6.2**	**0.2**	**2.6**	**148.2**	**10.1**	**187.6**	**0.0**	**200.7**	**0.0**	**200.7**
1966	0.7	13.5	2.0	17.6	6.4	0.3	2.7	157.1	6.6	192.7	0.0	206.9	0.0	206.9
1967	0.6	15.7	1.9	13.8	7.7	0.3	2.2	162.8	11.1	199.8	0.0	216.0	0.0	216.0
1968	0.5	18.0	2.1	25.8	9.9	0.4	2.4	172.1	11.4	224.1	0.0	242.6	0.0	242.6
1969	0.4	21.1	2.0	28.5	10.2	0.5	2.5	179.4	10.9	234.1	0.0	255.6	0.0	255.6
1970	**0.4**	**20.5**	**1.8**	**31.2**	**9.9**	**0.4**	**2.6**	**191.3**	**10.6**	**247.6**	**0.0**	**268.5**	**0.0**	**268.5**
1971	0.3	21.3	1.8	33.8	9.8	0.4	2.6	202.0	9.2	259.7	0.0	281.2	0.0	281.2
1972	0.3	19.7	1.8	43.0	9.4	0.5	2.8	214.2	9.2	280.9	0.0	300.8	0.0	300.8
1973	0.2	20.4	1.7	50.7	9.3	0.4	2.9	226.2	15.8	307.0	0.0	327.5	0.0	327.5
1974	0.1	19.9	1.5	53.7	9.4	0.3	2.8	228.7	34.3	330.7	0.0	350.7	0.0	350.7
1975	*	**17.3**	**1.3**	**52.9**	**9.4**	**0.3**	**3.7**	**233.9**	**44.3**	**345.8**	**0.0**	**363.1**	**0.0**	**363.1**
1976	*	8.4	1.2	58.0	9.1	0.4	4.1	246.4	45.5	364.7	0.0	373.1	0.0	373.1
1977	*	10.5	1.2	64.5	9.8	0.4	2.9	255.0	51.1	385.0	0.0	395.5	0.0	395.5
1978	0.0	11.2	1.2	68.8	9.9	0.4	3.2	263.2	47.4	394.2	0.0	405.4	0.0	405.4
1979	0.0	13.4	1.2	54.6	9.5	0.2	3.3	248.8	22.1	339.7	0.0	353.0	0.0	353.0
1980	**0.0**	**17.0**	**1.3**	**64.4**	**11.3**	**0.2**	**2.9**	**230.8**	**22.0**	**332.9**	**0.0**	**349.9**	**0.0**	**349.9**
1981	0.0	18.8	1.1	71.6	9.7	0.5	2.8	223.8	13.7	323.3	0.0	342.1	0.0	342.1
1982	0.0	16.6	0.9	65.2	8.7	0.6	2.6	223.8	14.5	316.4	0.0	333.0	0.0	333.0
1983	0.0	13.7	0.9	58.1	9.1	0.7	2.7	226.2	12.8	310.5	0.0	324.2	0.0	324.2
1984	0.0	13.6	0.9	63.5	20.7	0.7	2.9	229.1	12.8	330.6	0.0	344.1	0.0	344.1
1985	**0.0**	**11.5**	**0.9**	**65.2**	**19.7**	**0.5**	**2.7**	**224.3**	**9.9**	**323.2**	**0.0**	**334.7**	**0.0**	**334.7**
1986	0.0	10.2	1.0	65.8	21.0	0.5	2.6	240.4	6.6	337.9	0.0	348.1	0.0	348.1
1987	0.0	12.2	0.7	75.9	21.7	0.4	3.0	250.7	8.2	360.6	0.0	372.8	0.0	372.8
1988	0.0	12.5	0.8	85.6	10.4	0.3	2.9	249.6	11.1	360.7	0.0	373.2	0.0	373.2
1989	0.0	13.9	0.7	105.2	11.4	0.3	2.9	256.1	14.4	390.9	0.0	404.8	0.0	404.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 20. Estimates of Energy Input at Electric Utilities, 1960-1989, Alabama

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**7,264**	**0**	**7,264**	**9**	**0**	*****	**0**	*****	**0**	**6,213**	**0**	**0**	
1961	8,371	0	8,371	8	0	*	0	*	0	6,722	0	0	
1962	9,748	0	9,748	6	0	*	0	*	0	7,515	0	0	
1963	10,809	0	10,809	6	0	*	0	*	0	6,359	0	0	
1964	10,766	0	10,766	4	0	*	0	*	0	8,736	0	0	
1965	**12,572**	**0**	**12,572**	**6**	**0**	**0**	**0**	**0**	**0**	**7,078**	**0**	**0**	
1966	14,163	0	14,163	7	0	0	0	0	0	6,901	0	0	
1967	13,784	0	13,784	8	0	0	0	0	0	9,113	0	0	
1968	15,118	0	15,118	11	0	0	0	0	0	7,357	0	0	
1969	15,515	0	15,515	15	0	5	0	5	0	7,491	0	0	
1970	**16,331**	**0**	**16,331**	**15**	**0**	**26**	**448**	**474**	**0**	**7,607**	**0**	**0**	
1971	15,714	0	15,714	10	0	95	608	703	0	9,912	0	0	
1972	16,828	0	16,828	3	0	498	720	1,217	0	10,208	0	0	
1973	18,624	0	18,624	4	0	796	685	1,481	314	11,778	0	0	
1974	17,901	0	17,901	5	0	634	1,361	1,994	6,289	10,344	0	0	
1975	**17,301**	**0**	**17,301**	**6**	**99**	**514**	**0**	**613**	**2,722**	**12,188**	**0**	**0**	
1976	17,850	0	17,850	4	142	631	0	773	4,214	9,433	0	0	
1977	18,809	0	18,809	4	188	840	0	1,027	19,522	10,330	0	0	
1978	16,597	0	16,597	7	89	1,075	0	1,164	22,830	7,869	0	0	
1979	18,698	0	18,698	7	30	108	0	138	22,090	11,843	0	0	
1980	**19,593**	**0**	**19,593**	**1**	**0**	**131**	**0**	**131**	**23,497**	**9,385**	**0**	**0**	
1981	19,504	0	19,504	2	0	96	0	96	23,643	6,014	0	0	
1982	15,584	0	15,584	1	0	64	0	64	27,701	10,707	0	0	
1983	17,164	0	17,164	1	0	128	0	128	25,145	11,141	0	0	
1984	17,786	0	17,786	*	0	72	0	72	24,211	10,774	0	0	
1985	**21,545**	**0**	**21,545**	**1**	**0**	**88**	**0**	**88**	**14,313**	**6,862**	**0**	**0**	
1986	21,436	0	21,436	1	0	67	0	67	11,561	5,227	0	0	
1987	20,746	0	20,746	1	0	58	0	58	11,248	7,449	0	0	
1988	20,002	0	20,002	3	0	174	0	174	12,981	5,359	0	0	
1989	21,884	0	21,884	2	0	216	0	216	11,524	13,153	0	0	
	Trillion Btu												
1960	**175.3**	**0.0**	**175.3**	**9.7**	**0.0**	*****	**0.0**	*****	**0.0**	**66.9**	**0.0**	**0.0**	**251.8**
1961	200.3	0.0	200.3	8.5	0.0	*	0.0	*	0.0	71.6	0.0	0.0	280.4
1962	233.1	0.0	233.1	6.5	0.0	*	0.0	*	0.0	79.3	0.0	0.0	318.9
1963	255.7	0.0	255.7	5.7	0.0	*	0.0	*	0.0	66.7	0.0	0.0	328.0
1964	253.5	0.0	253.5	4.3	0.0	*	0.0	*	0.0	91.4	0.0	0.0	349.2
1965	**298.0**	**0.0**	**298.0**	**5.8**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**74.0**	**0.0**	**0.0**	**377.7**
1966	337.4	0.0	337.4	7.2	0.0	0.0	0.0	0.0	0.0	71.9	0.0	0.0	416.4
1967	327.9	0.0	327.9	8.0	0.0	0.0	0.0	0.0	0.0	95.1	0.0	0.0	430.9
1968	358.9	0.0	358.9	11.8	0.0	0.0	0.0	0.0	0.0	76.5	0.0	0.0	447.2
1969	366.0	0.0	366.0	15.2	0.0	*	0.0	*	0.0	78.3	0.0	0.0	459.5
1970	**380.7**	**0.0**	**380.7**	**15.9**	**0.0**	**0.2**	**2.7**	**2.9**	**0.0**	**79.8**	**0.0**	**0.0**	**479.3**
1971	357.5	0.0	357.5	10.3	0.0	0.6	3.7	4.2	0.0	103.9	0.0	0.0	475.9
1972	389.1	0.0	389.1	2.8	0.0	2.9	4.3	7.2	0.0	106.0	0.0	0.0	505.2
1973	429.6	0.0	429.6	4.5	0.0	4.6	4.1	8.8	3.4	122.4	0.0	0.0	568.6
1974	410.1	0.0	410.1	5.2	0.0	3.7	8.2	11.9	70.2	108.0	0.0	0.0	605.4
1975	**400.7**	**0.0**	**400.7**	**6.2**	**0.6**	**3.0**	**0.0**	**3.6**	**30.0**	**126.8**	**0.0**	**0.0**	**567.4**
1976	413.0	0.0	413.0	4.5	0.9	3.7	0.0	4.6	46.6	97.8	0.0	0.0	566.5
1977	435.8	0.0	435.8	4.4	1.2	4.9	0.0	6.1	210.2	107.8	0.0	0.0	764.3
1978	392.2	0.0	392.2	7.9	0.6	6.3	0.0	6.8	249.8	81.5	0.0	0.0	738.3
1979	444.2	0.0	444.2	7.8	0.2	0.6	0.0	0.8	240.3	122.6	0.0	0.0	815.7
1980	**468.5**	**0.0**	**468.5**	**1.6**	**0.0**	**0.8**	**0.0**	**0.8**	**256.3**	**97.5**	**0.0**	**0.0**	**824.6**
1981	468.1	0.0	468.1	2.0	0.0	0.6	0.0	0.6	260.8	62.9	0.0	0.0	794.3
1982	374.6	0.0	374.6	1.5	0.0	0.4	0.0	0.4	306.7	111.9	0.0	0.0	795.2
1983	411.4	0.0	411.4	0.6	0.0	0.7	0.0	0.7	274.2	117.2	0.0	0.0	804.2
1984	427.9	0.0	427.9	0.4	0.0	0.4	0.0	0.4	262.5	111.2	0.0	0.0	802.5
1985	**519.5**	**0.0**	**519.5**	**1.2**	**0.0**	**0.5**	**0.0**	**0.5**	**154.8**	**70.9**	**0.0**	**0.0**	**746.9**
1986	522.0	0.0	522.0	1.2	0.0	0.4	0.0	0.4	124.9	53.6	0.0	0.0	702.0
1987	507.1	0.0	507.1	1.6	0.0	0.3	0.0	0.3	121.2	76.4	0.0	0.0	706.6
1988	486.6	0.0	486.6	2.7	0.0	1.0	0.0	1.0	139.5	54.9	0.0	0.0	684.6
1989	526.2	0.0	526.2	1.8	0.0	1.3	0.0	1.3	123.6	135.9	0.0	0.0	788.8

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 21. Energy Consumption Estimates by Source, 1960-1989, Alaska

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**376**	**2**	**47**	**1,032**	**2,636**	**1,972**	**90**	**46**	**7**	**1,657**	**711**	**0**	**8,197**	**0**	**290**	**0**	**0**	**0**	
1961	603	2	84	1,276	2,922	2,356	42	81	7	1,811	649	0	9,229	0	297	0	0	0	
1962	708	4	74	1,030	2,989	2,838	24	56	38	1,915	719	0	9,683	0	304	0	0	0	
1963	628	6	89	648	3,124	2,895	29	79	38	2,004	749	273	9,928	0	325	0	0	0	
1964	636	7	119	459	3,509	3,003	8	85	39	2,078	797	273	10,373	0	322	0	0	0	
1965	**525**	**8**	**132**	**293**	**3,788**	**3,005**	**10**	**91**	**41**	**2,450**	**881**	**284**	**10,975**	**0**	**350**	**0**	**0**	**0**	
1966	872	12	248	215	4,087	3,733	8	98	43	1,915	967	280	11,593	0	316	0	0	0	
1967	984	12	125	701	4,453	4,562	7	106	39	2,681	702	268	13,643	0	363	0	0	0	
1968	857	18	114	703	4,976	5,119	9	111	43	2,205	763	276	14,319	0	364	0	0	0	
1969	719	43	146	687	4,851	6,534	7	124	59	2,401	988	530	16,329	0	341	0	0	0	
1970	**740**	**64**	**274**	**462**	**5,100**	**6,735**	**33**	**151**	**60**	**2,621**	**1,020**	**523**	**16,979**	**0**	**363**	**0**	**0**	**0**	
1971	799	68	297	377	6,357	7,573	33	176	49	2,844	1,065	598	19,368	0	363	0	0	0	
1972	722	75	327	387	6,289	8,019	21	193	53	3,685	1,154	731	20,860	0	346	0	0	0	
1973	751	63	244	399	6,462	7,393	18	218	50	3,197	1,042	798	19,821	0	286	0	0	0	
1974	710	63	247	480	6,851	7,470	105	173	48	3,545	1,080	776	20,775	0	326	0	0	0	
1975	**868**	**85**	**319**	**466**	**7,090**	**7,420**	**123**	**211**	**145**	**4,179**	**1,075**	**771**	**21,800**	**0**	**357**	**0**	**0**	**0**	
1976	778	90	317	381	9,536	7,409	64	348	161	4,697	1,303	749	24,967	0	383	0	0	0	
1977	584	116	361	432	10,441	7,910	86	409	115	4,845	1,724	1,027	27,350	0	512	0	0	0	
1978	270	145	314	437	10,821	8,273	82	488	123	4,533	2,345	1,361	28,777	0	472	0	0	0	
1979	265	157	207	433	5,808	8,506	1,052	192	129	4,681	319	1,411	22,739	0	459	0	0	0	
1980	**273**	**153**	**309**	**498**	**6,677**	**9,618**	**19**	**191**	**115**	**3,676**	**371**	**1,446**	**22,919**	**0**	**539**	**0**	**0**	**0**	
1981	792	122	266	504	6,546	10,877	36	152	110	4,468	245	874	24,077	0	590	0	0	0	
1982	834	238	368	369	6,312	11,530	1,262	212	100	5,089	302	966	26,511	0	561	0	0	0	
1983	785	239	344	375	7,305	12,252	17	212	105	4,752	392	5,360	31,115	0	593	0	0	0	
1984	815	258	438	392	7,950	15,178	16	292	112	5,324	518	5,243	35,463	0	693	0	*	0	
1985	**733**	**213**	**485**	**490**	**10,356**	**15,231**	**8**	**355**	**104**	**5,637**	**1,336**	**5,761**	**39,763**	**0**	**748**	**0**	*	**0**	
1986	769	206	373	617	7,549	16,187	1,627	317	102	5,426	5,627	4,828	42,654	0	809	0	0	0	
1987	274	249	257	208	8,006	14,850	1,556	281	115	5,190	1,658	4,329	36,451	0	872	0	0	0	
1988	276	288	698	407	8,582	16,899	266	284	111	5,325	516	5,181	38,270	0	935	0	0	0	
1989	299	322	274	491	11,055	18,586	3	277	114	5,077	329	4,683	40,890	0	873	0	0	0	
									Trillion Btu										
1960	**7.2**	**2.0**	**0.3**	**5.2**	**15.4**	**10.6**	**0.5**	**0.2**	*	**8.7**	**4.5**	**0.0**	**45.4**	**0.0**	**3.1**	**0.0**	**0.0**	**0.0**	**57.8**
1961	11.6	2.3	0.6	6.4	17.0	12.8	0.2	0.3	*	9.5	4.1	0.0	51.0	0.0	3.2	0.0	0.0	0.0	68.0
1962	13.6	4.0	0.5	5.2	17.4	15.5	0.1	0.2	0.2	10.1	4.5	0.0	53.8	0.0	3.2	0.0	0.0	0.0	74.6
1963	12.0	5.6	0.6	3.3	18.2	15.8	0.2	0.3	0.2	10.5	4.7	1.6	55.4	0.0	3.4	0.0	0.0	0.0	76.4
1964	12.0	6.8	0.8	2.3	20.4	16.4	*	0.3	0.2	10.9	5.0	1.6	58.1	0.0	3.4	0.0	0.0	0.0	80.4
1965	**9.9**	**7.7**	**0.9**	**1.5**	**22.1**	**16.5**	**0.1**	**0.4**	**0.3**	**12.9**	**5.5**	**1.7**	**61.7**	**0.0**	**3.7**	**0.0**	**0.0**	**0.0**	**82.9**
1966	16.4	12.3	1.6	1.1	23.8	20.6	*	0.4	0.3	10.1	6.1	1.7	65.7	0.0	3.3	0.0	0.0	0.0	97.7
1967	18.5	11.9	0.8	3.5	25.9	25.3	*	0.4	0.2	14.1	4.4	1.6	76.4	0.0	3.8	0.0	0.0	0.0	110.5
1968	16.0	17.6	0.8	3.5	29.0	28.4	0.1	0.4	0.3	11.6	4.8	1.7	80.4	0.0	3.8	0.0	0.0	0.0	117.8
1969	13.2	42.9	1.0	3.5	28.3	36.5	*	0.5	0.4	12.6	6.2	3.2	92.0	0.0	3.6	0.0	0.0	0.0	151.7
1970	**13.2**	**64.0**	**1.8**	**2.3**	**29.7**	**37.7**	**0.2**	**0.6**	**0.4**	**13.8**	**6.4**	**3.1**	**96.0**	**0.0**	**3.8**	**0.0**	**0.0**	**0.0**	**177.0**
1971	14.1	68.0	2.0	1.9	37.0	42.4	0.2	0.7	0.3	14.9	6.7	3.6	109.7	0.0	3.8	0.0	0.0	0.0	195.7
1972	12.8	75.0	2.2	2.0	36.6	45.0	0.1	0.7	0.3	19.4	7.3	4.4	117.9	0.0	3.6	0.0	0.0	0.0	209.3
1973	13.3	63.7	1.6	2.0	37.6	41.5	0.1	0.8	0.3	16.8	6.6	4.8	112.1	0.0	3.0	0.0	0.0	0.0	192.1
1974	12.5	63.2	1.6	2.4	39.9	41.9	0.6	0.6	0.3	18.6	6.8	4.7	117.5	0.0	3.4	0.0	0.0	0.0	196.6
1975	**15.3**	**85.2**	**2.1**	**2.4**	**41.3**	**41.7**	**0.7**	**0.8**	**0.9**	**22.0**	**6.8**	**4.6**	**123.1**	**0.0**	**3.7**	**0.0**	**0.0**	**0.0**	**227.3**
1976	13.7	90.6	2.1	1.9	55.5	41.6	0.4	1.3	1.0	24.7	8.2	4.5	141.2	0.0	4.0	0.0	0.0	0.0	249.5
1977	10.3	116.9	2.4	2.2	60.8	44.4	0.5	1.5	0.7	25.4	10.8	6.2	155.0	0.0	5.3	0.0	0.0	0.0	287.4
1978	4.7	145.0	2.1	2.2	63.0	46.5	0.5	1.8	0.7	23.8	14.7	8.2	163.5	0.0	4.9	0.0	0.0	0.0	318.1
1979	4.2	157.2	1.4	2.2	33.8	47.7	6.0	0.7	0.8	24.6	2.0	8.5	127.6	0.0	4.7	0.0	0.0	0.0	293.8
1980	**4.3**	**153.8**	**2.1**	**2.5**	**38.9**	**54.0**	**0.1**	**0.7**	**0.7**	**19.3**	**2.3**	**8.7**	**129.3**	**0.0**	**5.6**	**0.0**	**0.0**	**0.0**	**293.0**
1981	12.5	122.2	1.8	2.5	38.1	61.2	0.2	0.6	0.7	23.5	1.5	5.6	135.7	0.0	6.2	0.0	0.0	0.0	276.6
1982	13.2	237.9	2.4	1.9	36.8	64.9	7.2	0.8	0.6	26.7	1.9	6.1	149.3	0.0	5.9	0.0	0.0	0.0	406.2
1983	12.4	239.7	2.3	1.9	42.6	68.7	0.1	0.8	0.6	25.0	2.5	31.6	175.9	0.0	6.2	0.0	0.0	0.0	434.3
1984	12.9	258.0	2.9	2.0	46.3	85.5	0.1	1.1	0.7	28.0	3.3	30.9	200.6	0.0	7.2	0.0	*	0.0	478.6
1985	**11.6**	**214.0**	**3.2**	**2.5**	**60.3**	**85.8**	*	**1.3**	**0.6**	**29.6**	**8.4**	**34.3**	**226.1**	**0.0**	**7.7**	**0.0**	*	**0.0**	**459.4**
1986	12.2	208.3	2.5	3.1	44.0	91.2	9.2	1.2	0.6	28.5	35.4	29.1	244.8	0.0	8.3	0.0	0.0	0.0	473.6
1987	4.3	251.5	1.7	1.0	46.6	83.6	8.8	1.0	0.7	27.3	10.4	26.0	207.2	0.0	8.9	0.0	0.0	0.0	472.0
1988	4.4	288.8	4.6	2.1	50.0	95.2	1.5	1.0	0.7	28.0	3.2	30.8	217.1	0.0	9.6	0.0	0.0	0.0	519.8
1989	4.7	321.2	1.8	2.5	64.4	104.7	*	1.0	0.7	26.7	2.1	27.8	231.7	0.0	9.0	0.0	0.0	0.0	566.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 22. Residential Energy Consumption Estimates, 1960-1989, Alaska

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**22**	**0**	**22**	*	**866**	**0**	**36**	**902**	**151**	**539**
1961	22	0	22	*	913	9	67	988	173	565
1962	27	0	27	1	960	3	46	1,009	197	596
1963	17	0	17	1	1,036	6	67	1,109	227	714
1964	14	0	14	1	1,120	8	73	1,201	253	961
1965	**12**	**0**	**12**	**1**	**1,110**	**10**	**77**	**1,197**	**292**	**1,139**
1966	15	0	15	2	1,207	8	77	1,292	328	1,287
1967	14	0	14	2	1,306	7	89	1,402	348	1,388
1968	12	0	12	2	1,427	8	94	1,530	393	1,580
1969	11	0	11	5	1,340	6	70	1,416	445	1,721
1970	**8**	**0**	**8**	**6**	**1,362**	**19**	**77**	**1,458**	**527**	**2,073**
1971	7	0	7	7	1,791	19	89	1,899	631	2,437
1972	9	0	9	8	1,411	13	94	1,518	628	2,627
1973	5	0	5	5	1,719	10	132	1,862	686	2,781
1974	6	0	6	4	1,724	77	83	1,884	754	3,087
1975	**6**	**0**	**6**	**10**	**1,621**	**91**	**69**	**1,781**	**898**	**3,227**
1976	5	0	5	11	2,001	30	99	2,130	983	3,581
1977	5	0	5	11	2,253	44	61	2,358	1,071	3,830
1978	0	0	0	12	2,652	40	112	2,805	1,110	3,850
1979	0	0	0	7	942	761	92	1,795	1,067	4,317
1980	**0**	**0**	**0**	**8**	**1,172**	**0**	**58**	**1,231**	**1,092**	**4,397**
1981	165	0	165	8	910	0	41	951	1,228	4,335
1982	174	0	174	11	1,125	0	68	1,193	1,408	4,623
1983	162	0	162	10	1,194	2	107	1,304	1,453	4,474
1984	175	0	175	12	1,349	3	187	1,539	1,597	4,786
1985	**153**	**0**	**153**	**13**	**1,310**	**1**	**229**	**1,540**	**1,674**	**4,824**
1986	174	0	174	12	1,065	*	206	1,271	1,625	4,620
1987	0	0	0	12	1,614	*	176	1,790	1,548	3,990
1988	0	0	0	13	1,285	5	178	1,468	1,590	4,066
1989	0	0	0	14	1,518	1	197	1,716	1,643	4,296

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu											
1960	**0.4**	**0.0**	**0.4**	**0.2**	**5.0**	**0.0**	**0.1**	**5.2**	**0.5**	**6.3**	**1.8**	**8.1**
1961	0.4	0.0	0.4	0.2	5.3	0.1	0.3	5.6	0.6	6.8	1.9	8.8
1962	0.5	0.0	0.5	0.6	5.6	*	0.2	5.8	0.7	7.5	2.0	9.6
1963	0.3	0.0	0.3	0.7	6.0	*	0.3	6.3	0.8	8.1	2.4	10.6
1964	0.3	0.0	0.3	1.1	6.5	*	0.3	6.9	0.9	9.0	3.3	12.3
1965	**0.2**	**0.0**	**0.2**	**1.5**	**6.5**	**0.1**	**0.3**	**6.8**	**1.0**	**9.5**	**3.9**	**13.4**
1966	0.3	0.0	0.3	1.8	7.0	*	0.3	7.4	1.1	10.6	4.4	15.0
1967	0.3	0.0	0.3	2.0	7.6	*	0.3	8.0	1.2	11.4	4.7	16.1
1968	0.2	0.0	0.2	2.3	8.3	*	0.4	8.7	1.3	12.6	5.4	18.0
1969	0.2	0.0	0.2	4.6	7.8	*	0.3	8.1	1.5	14.4	5.9	20.3
1970	**0.1**	**0.0**	**0.1**	**6.2**	**7.9**	**0.1**	**0.3**	**8.3**	**1.8**	**16.5**	**7.1**	**23.6**
1971	0.1	0.0	0.1	6.9	10.4	0.1	0.3	10.9	2.2	20.1	8.3	28.4
1972	0.2	0.0	0.2	8.4	8.2	0.1	0.4	8.6	2.1	19.4	9.0	28.3
1973	0.1	0.0	0.1	5.1	10.0	0.1	0.5	10.6	2.3	18.1	9.5	27.6
1974	0.1	0.0	0.1	4.2	10.0	0.4	0.3	10.8	2.6	17.6	10.5	28.2
1975	**0.1**	**0.0**	**0.1**	**10.4**	**9.4**	**0.5**	**0.3**	**10.2**	**3.1**	**23.8**	**11.0**	**34.8**
1976	0.1	0.0	0.1	11.0	11.7	0.2	0.4	12.2	3.4	26.6	12.2	38.8
1977	0.1	0.0	0.1	11.3	13.1	0.2	0.2	13.6	3.7	28.7	13.1	41.7
1978	0.0	0.0	0.0	12.2	15.4	0.2	0.4	16.1	3.8	32.0	13.1	45.2
1979	0.0	0.0	0.0	7.3	5.5	4.3	0.3	10.1	3.6	21.1	14.7	35.8
1980	**0.0**	**0.0**	**0.0**	**7.9**	**6.8**	**0.0**	**0.2**	**7.0**	**3.7**	**18.7**	**15.0**	**33.7**
1981	2.6	0.0	2.6	7.9	5.3	0.0	0.1	5.4	4.2	20.2	14.8	35.0
1982	2.8	0.0	2.8	10.5	6.6	0.0	0.2	6.8	4.8	24.9	15.8	40.7
1983	2.6	0.0	2.6	10.4	7.0	*	0.4	7.4	5.0	25.3	15.3	40.6
1984	2.8	0.0	2.8	11.9	7.9	*	0.7	8.6	5.5	28.6	16.3	45.0
1985	**2.4**	**0.0**	**2.4**	**13.3**	**7.6**	*	**0.8**	**8.5**	**5.7**	**29.9**	**16.5**	**46.4**
1986	2.7	0.0	2.7	12.2	6.2	*	0.7	7.0	5.5	27.5	15.8	43.2
1987	0.0	0.0	0.0	12.4	9.4	*	0.6	10.0	5.3	27.7	13.6	41.3
1988	0.0	0.0	0.0	12.6	7.5	*	0.6	8.2	5.4	26.2	13.9	40.0
1989	0.0	0.0	0.0	13.6	8.8	*	0.7	9.6	5.6	28.7	14.7	43.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 23. Commercial Energy Consumption Estimates, 1960–1989, Alaska

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours	
1960	**42**	**0**	**42**	**0**	**268**	**0**	**6**	**130**	**464**	**868**	**99**	**354**
1961	42	0	42	*	283	0	12	143	442	879	123	401
1962	50	0	50	*	297	0	8	157	414	877	149	451
1963	32	0	32	2	321	0	12	197	389	918	183	575
1964	25	0	25	2	347	0	13	220	624	1,204	206	782
1965	**22**	**0**	**22**	**2**	**344**	**0**	**14**	**253**	**751**	**1,361**	**267**	**1,043**
1966	29	0	29	3	374	0	14	76	841	1,304	302	1,185
1967	26	0	26	3	404	0	16	621	580	1,621	332	1,324
1968	21	0	21	5	442	0	17	279	590	1,328	379	1,524
1969	21	0	21	11	415	0	12	200	822	1,449	417	1,613
1970	**15**	**0**	**15**	**13**	**422**	**0**	**14**	**246**	**807**	**1,488**	**478**	**1,882**
1971	13	0	13	14	555	0	16	112	800	1,483	562	2,168
1972	17	0	17	16	437	0	17	444	853	1,751	597	2,496
1973	9	0	9	12	532	0	23	396	648	1,600	693	2,806
1974	11	0	11	13	534	0	15	413	679	1,640	737	3,018
1975	**11**	**0**	**11**	**14**	**502**	**0**	**12**	**415**	**558**	**1,487**	**657**	**2,362**
1976	9	0	9	14	620	0	17	290	462	1,389	752	2,740
1977	9	0	9	15	698	0	11	477	571	1,757	816	2,918
1978	0	0	0	15	821	0	20	354	490	1,685	852	2,955
1979	0	0	0	16	292	0	16	313	12	633	981	3,969
1980	**0**	**0**	**0**	**17**	**577**	**0**	**10**	**258**	**4**	**849**	**728**	**2,932**
1981	307	0	307	16	532	0	7	250	0	789	691	2,439
1982	324	0	324	24	481	24	12	349	3	869	772	2,533
1983	302	0	302	25	1,041	5	19	261	*	1,326	844	2,597
1984	326	0	326	25	1,176	6	33	221	*	1,437	1,728	5,178
1985	**284**	**0**	**284**	**20**	**926**	**3**	**40**	**268**	**0**	**1,237**	**1,898**	**5,469**
1986	323	0	323	21	837	1,626	36	200	1,270	3,970	1,957	5,566
1987	0	0	0	20	1,055	1,555	31	52	806	3,498	1,894	4,881
1988	0	0	0	21	875	261	31	50	120	1,338	1,913	4,891
1989	0	0	0	22	825	1	35	52	0	913	2,048	5,353

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Trillion Btu													
1960	**0.8**	**0.0**	**0.8**	**0.0**	**1.6**	**0.0**	*	**0.7**	**2.9**	**5.2**	**0.3**	**6.3**	**1.2**	**7.5**
1961	0.8	0.0	0.8	0.1	1.6	0.0	*	0.7	2.8	5.2	0.4	6.5	1.4	7.9
1962	0.9	0.0	0.9	*	1.7	0.0	*	0.8	2.6	5.2	0.5	6.7	1.5	8.2
1963	0.6	0.0	0.6	1.6	1.9	0.0	*	1.0	2.4	5.4	0.6	8.3	2.0	10.2
1964	0.5	0.0	0.5	1.9	2.0	0.0	0.1	1.2	3.9	7.2	0.7	10.3	2.7	12.9
1965	**0.4**	**0.0**	**0.4**	**2.3**	**2.0**	**0.0**	**0.1**	**1.3**	**4.7**	**8.1**	**0.9**	**11.7**	**3.6**	**15.3**
1966	0.5	0.0	0.5	2.6	2.2	0.0	0.1	0.4	5.3	7.9	1.0	12.0	4.0	16.1
1967	0.5	0.0	0.5	2.7	2.4	0.0	0.1	3.3	3.6	9.3	1.1	13.7	4.5	18.2
1968	0.4	0.0	0.4	4.7	2.6	0.0	0.1	1.5	3.7	7.8	1.3	14.2	5.2	19.4
1969	0.4	0.0	0.4	11.1	2.4	0.0	*	1.1	5.2	8.7	1.4	21.6	5.5	27.1
1970	**0.3**	**0.0**	**0.3**	**12.6**	**2.5**	**0.0**	**0.1**	**1.3**	**5.1**	**8.9**	**1.6**	**23.4**	**6.4**	**29.8**
1971	0.2	0.0	0.2	14.3	3.2	0.0	0.1	0.6	5.0	8.9	1.9	25.4	7.4	32.8
1972	0.3	0.0	0.3	16.1	2.5	0.0	0.1	2.3	5.4	10.3	2.0	28.7	8.5	37.2
1973	0.2	0.0	0.2	12.4	3.1	0.0	0.1	2.1	4.1	9.3	2.4	24.3	9.6	33.9
1974	0.2	0.0	0.2	13.2	3.1	0.0	0.1	2.2	4.3	9.6	2.5	25.5	10.3	35.8
1975	**0.2**	**0.0**	**0.2**	**14.5**	**2.9**	**0.0**	*	**2.2**	**3.5**	**8.7**	**2.2**	**25.6**	**8.1**	**33.6**
1976	0.2	0.0	0.2	14.3	3.6	0.0	0.1	1.5	2.9	8.1	2.6	25.1	9.3	34.4
1977	0.2	0.0	0.2	14.6	4.1	0.0	*	2.5	3.6	10.2	2.8	27.8	10.0	37.7
1978	0.0	0.0	0.0	15.2	4.8	0.0	0.1	1.9	3.1	9.8	2.9	27.9	10.1	38.0
1979	0.0	0.0	0.0	15.8	1.7	0.0	0.1	1.6	0.1	3.5	3.3	22.7	13.5	36.2
1980	**0.0**	**0.0**	**0.0**	**16.6**	**3.4**	**0.0**	*	**1.4**	*	**4.8**	**2.5**	**23.8**	**10.0**	**33.8**
1981	4.8	0.0	4.8	16.2	3.1	0.0	*	1.3	0.0	4.4	2.4	27.9	8.3	36.2
1982	5.1	0.0	5.1	24.2	2.8	0.1	*	1.8	*	4.8	2.6	36.8	8.6	45.4
1983	4.8	0.0	4.8	24.7	6.1	*	0.1	1.4	*	7.5	2.9	39.9	8.9	48.8
1984	5.1	0.0	5.1	24.7	6.9	*	0.1	1.2	*	8.2	5.9	43.9	17.7	61.6
1985	**4.5**	**0.0**	**4.5**	**20.5**	**5.4**	*	**0.1**	**1.4**	**0.0**	**7.0**	**6.5**	**38.4**	**18.7**	**57.1**
1986	5.1	0.0	5.1	21.1	4.9	9.2	0.1	1.1	8.0	23.3	6.7	56.1	19.0	75.1
1987	0.0	0.0	0.0	20.4	6.1	8.8	0.1	0.3	5.1	20.4	6.5	47.3	16.7	63.9
1988	0.0	0.0	0.0	20.9	5.1	1.5	0.1	0.3	0.8	7.7	6.5	35.2	16.7	51.8
1989	0.0	0.0	0.0	21.7	4.8	*	0.1	0.3	0.0	5.2	7.0	33.9	18.3	52.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 24. Industrial Energy Consumption Estimates, 1960–1989, Alaska

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**256**	**0**	**256**	**2**	**47**	**878**	**90**	**4**	**4**	**0**	**229**	**0**	**1,252**	**0**	**45**	**162**		
1961	473	0	473	2	84	978	33	3	4	0	186	0	1,287	0	49	159		
1962	552	0	552	3	74	931	21	2	3	0	281	0	1,311	0	52	157		
1963	493	0	493	2	89	1,029	23	*	3	0	328	273	1,745	0	74	233		
1964	465	0	465	2	119	1,209	0	*	3	0	151	273	1,755	0	75	285		
1965	**339**	**0**	**339**	**2**	**132**	**1,238**	**0**	*	**1**	**83**	**60**	**284**	**1,798**	**0**	**59**	**229**		
1966	672	0	672	4	248	1,373	0	8	1	105	77	280	2,092	0	63	246		
1967	808	0	808	3	125	1,540	0	1	0	250	75	268	2,258	0	63	251		
1968	674	0	674	5	114	1,777	1	*	0	160	124	276	2,453	0	67	270		
1969	523	0	523	20	146	1,859	1	41	1	164	40	530	2,782	0	76	292		
1970	**467**	**0**	**467**	**19**	**274**	**1,923**	**14**	**60**	**1**	**107**	**73**	**523**	**2,975**	**0**	**101**	**398**		
1971	504	0	504	19	297	2,143	14	71	1	193	24	598	3,340	0	106	409		
1972	449	0	449	28	327	1,709	8	82	1	829	57	731	3,745	0	124	518		
1973	498	0	498	30	244	1,802	8	62	1	114	62	798	3,091	0	123	500		
1974	427	0	427	28	247	1,708	28	75	1	96	66	776	2,996	0	124	506		
1975	**594**	**0**	**594**	**40**	**319**	**2,117**	**32**	**130**	**24**	**106**	**31**	**771**	**3,530**	**0**	**485**	**1,743**		
1976	511	0	511	43	317	3,201	35	231	27	120	11	749	4,691	0	504	1,836		
1977	319	0	319	67	361	3,643	43	338	21	124	11	1,027	5,567	0	590	2,111		
1978	0	0	0	93	314	3,720	42	356	22	116	80	1,361	6,011	0	619	2,147		
1979	0	0	0	105	207	1,906	291	83	23	120	0	1,411	4,040	0	436	1,764		
1980	**0**	**0**	**0**	**100**	**309**	**1,784**	**19**	**119**	**21**	**111**	**14**	**1,446**	**3,823**	**0**	**757**	**3,048**		
1981	0	0	0	68	266	2,059	36	104	20	12	20	874	3,390	0	997	3,520		
1982	0	0	0	172	368	2,420	1,208	128	18	14	0	966	5,152	0	1,081	3,548		
1983	0	0	0	172	344	923	9	80	19	14	0	5,360	6,749	0	1,185	3,647		
1984	0	0	0	184	438	1,043	6	54	20	5	0	5,243	6,810	0	340	1,018		
1985	**0**	**0**	**0**	**140**	**485**	**1,762**	**4**	**73**	**19**	**406**	**839**	**5,761**	**9,348**	**0**	**417**	**1,201**		
1986	0	0	0	133	373	1,145	1	65	18	386	3,686	4,828	10,502	0	466	1,325		
1987	0	0	0	184	257	1,005	*	67	21	401	419	4,329	6,499	0	520	1,339		
1988	0	0	0	221	698	2,016	1	67	20	64	0	5,181	8,047	0	542	1,385		
1989	0	0	0	252	274	1,835	1	39	21	64	0	4,683	6,916	0	450	1,177		
								Trillion Btu										
1960	**5.0**	**0.0**	**5.0**	**1.9**	**0.3**	**5.1**	**0.5**	*	*	**0.0**	**1.4**	**0.0**	**7.4**	**0.0**	**0.2**	**14.4**	**0.6**	**15.0**
1961	9.2	0.0	9.2	1.9	0.6	5.7	0.2	*	*	0.0	1.2	0.0	7.6	0.0	0.2	18.9	0.5	19.5
1962	10.7	0.0	10.7	3.4	0.5	5.4	0.1	*	*	0.0	1.8	0.0	7.8	0.0	0.2	22.1	0.5	22.6
1963	9.5	0.0	9.5	2.2	0.6	6.0	0.1	*	*	0.0	2.1	1.6	10.4	0.0	0.3	22.5	0.8	23.2
1964	9.0	0.0	9.0	2.2	0.8	7.0	0.0	*	*	0.0	0.9	1.6	10.4	0.0	0.3	21.9	1.0	22.8
1965	**6.5**	**0.0**	**6.5**	**1.8**	**0.9**	**7.2**	**0.0**	*	*	**0.4**	**0.4**	**1.7**	**10.6**	**0.0**	**0.2**	**19.1**	**0.8**	**19.9**
1966	12.9	0.0	12.9	4.1	1.6	8.0	0.0	*	*	0.6	0.5	1.7	12.4	0.0	0.2	29.5	0.8	30.4
1967	15.3	0.0	15.3	2.7	0.8	9.0	0.0	*	0.0	1.3	0.5	1.6	13.2	0.0	0.2	31.5	0.9	32.3
1968	12.8	0.0	12.8	4.9	0.8	10.4	*	*	0.0	0.8	0.8	1.7	14.4	0.0	0.2	32.3	0.9	33.2
1969	9.8	0.0	9.8	20.5	1.0	10.8	*	0.2	*	0.9	0.3	3.2	16.3	0.0	0.3	46.9	1.0	47.9
1970	**8.5**	**0.0**	**8.5**	**19.6**	**1.8**	**11.2**	**0.1**	**0.2**	*	**0.6**	**0.5**	**3.1**	**17.5**	**0.0**	**0.3**	**45.9**	**1.4**	**47.3**
1971	9.0	0.0	9.0	19.1	2.0	12.5	0.1	0.3	*	1.0	0.2	3.6	19.6	0.0	0.4	48.1	1.4	49.5
1972	8.0	0.0	8.0	28.5	2.2	10.0	*	0.3	*	4.4	0.4	4.4	21.6	0.0	0.4	58.5	1.8	60.3
1973	8.9	0.0	8.9	30.1	1.6	10.5	*	0.2	*	0.6	0.4	4.8	18.2	0.0	0.4	57.6	1.7	59.3
1974	7.6	0.0	7.6	28.5	1.6	10.0	0.2	0.3	*	0.5	0.4	4.7	17.6	0.0	0.4	54.1	1.7	55.8
1975	**10.5**	**0.0**	**10.5**	**40.4**	**2.1**	**12.3**	**0.2**	**0.5**	**0.1**	**0.6**	**0.2**	**4.6**	**20.6**	**0.0**	**1.7**	**73.2**	**5.9**	**79.2**
1976	9.1	0.0	9.1	42.9	2.1	18.6	0.2	0.9	0.2	0.6	0.1	4.5	27.2	0.0	1.7	80.8	6.3	87.1
1977	5.6	0.0	5.6	67.0	2.4	21.2	0.2	1.2	0.1	0.7	0.1	6.2	32.1	0.0	2.0	106.7	7.2	113.9
1978	0.0	0.0	0.0	92.9	2.1	21.7	0.2	1.3	0.1	0.6	0.5	8.2	34.7	0.0	2.1	129.7	7.3	137.1
1979	0.0	0.0	0.0	104.7	1.4	11.1	1.6	0.3	0.1	0.6	0.0	8.5	23.7	0.0	1.5	129.9	6.0	135.9
1980	**0.0**	**0.0**	**0.0**	**100.3**	**2.1**	**10.4**	**0.1**	**0.4**	**0.1**	**0.6**	**0.1**	**8.7**	**22.5**	**0.0**	**2.6**	**125.3**	**10.4**	**135.7**
1981	0.0	0.0	0.0	68.6	1.8	12.0	0.2	0.4	0.1	0.1	0.1	5.6	20.2	0.0	3.4	92.2	12.0	104.2
1982	0.0	0.0	0.0	171.7	2.4	14.1	7.0	0.5	0.1	0.1	0.0	6.1	30.3	0.0	3.7	205.7	12.1	217.8
1983	0.0	0.0	0.0	172.7	2.3	5.4	0.1	0.3	0.1	0.1	0.0	31.6	39.8	0.0	4.0	216.5	12.4	229.0
1984	0.0	0.0	0.0	183.8	2.9	6.1	*	0.2	0.1	*	0.0	30.9	40.2	0.0	1.2	225.2	3.5	228.7
1985	**0.0**	**0.0**	**0.0**	**140.7**	**3.2**	**10.3**	*	**0.3**	**0.1**	**2.1**	**5.3**	**34.3**	**55.6**	**0.0**	**1.4**	**197.7**	**4.1**	**201.8**
1986	0.0	0.0	0.0	134.4	2.5	6.7	*	0.2	0.1	2.0	23.2	29.1	63.8	0.0	1.6	199.8	4.5	204.3
1987	0.0	0.0	0.0	185.9	1.7	5.9	*	0.2	0.1	2.1	2.6	26.0	38.6	0.0	1.8	226.3	4.6	230.9
1988	0.0	0.0	0.0	222.3	4.6	11.7	*	0.2	0.1	0.3	0.0	30.8	47.9	0.0	1.8	272.1	4.7	276.8
1989	0.0	0.0	0.0	251.1	1.8	10.7	*	0.1	0.1	0.3	0.0	27.8	40.9	0.0	1.5	293.6	4.0	297.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates *since 1979 may be affected* by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for *electrical system energy losses.*
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 25. Transportation Energy Consumption Estimates, 1960–1989, Alaska

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours	
1960	**5**	*	**1,032**	**528**	**1,972**	**0**	**3**	**1,527**	**15**	**5,077**	**0**	**0**
1961	2	*	1,276	630	2,356	0	3	1,669	17	5,951	0	0
1962	2	*	1,030	652	2,838	*	35	1,758	20	6,334	0	0
1963	2	*	648	573	2,895	*	35	1,808	30	5,989	0	0
1964	2	0	459	583	3,003	*	36	1,858	19	5,960	0	0
1965	**1**	**0**	**293**	**789**	**3,005**	*	**40**	**2,113**	**66**	**6,307**	**0**	**0**
1966	2	0	215	831	3,733	*	42	1,733	46	6,600	0	0
1967	2	0	701	858	4,562	*	39	1,809	43	8,013	0	0
1968	1	0	703	934	5,119	0	43	1,765	44	8,608	0	0
1969	1	0	687	813	6,534	*	58	2,038	122	10,253	0	0
1970	**1**	**17**	**462**	**1,000**	**6,735**	**1**	**59**	**2,267**	**135**	**10,659**	**0**	**0**
1971	1	17	377	1,418	7,573	1	48	2,539	236	12,192	0	0
1972	*	9	387	2,256	8,019	0	52	2,411	242	13,367	0	0
1973	*	*	399	1,922	7,393	0	49	2,688	328	12,777	0	0
1974	*	*	480	2,407	7,470	0	47	3,036	332	13,772	0	0
1975	*	*	**466**	**2,157**	**7,420**	**0**	**121**	**3,658**	**484**	**14,305**	**0**	**0**
1976	*	*	381	2,912	7,409	0	134	4,267	816	15,939	0	0
1977	*	*	432	2,942	7,910	0	94	4,244	1,139	16,760	0	0
1978	0	*	437	2,737	8,273	0	101	4,063	1,773	17,384	0	0
1979	0	1	433	1,748	8,506	1	106	4,248	306	15,348	0	0
1980	**0**	*	**498**	**2,605**	**9,618**	**4**	**94**	**3,306**	**0**	**16,125**	**0**	**0**
1981	0	*	504	2,489	10,877	0	90	4,205	7	18,172	0	0
1982	0	*	369	1,701	11,530	4	82	4,726	0	18,412	0	0
1983	0	*	375	3,550	12,252	6	86	4,478	55	20,802	0	0
1984	0	6	392	3,825	15,178	18	92	5,099	66	24,669	0	0
1985	**0**	**5**	**490**	**5,840**	**15,231**	**13**	**86**	**4,963**	**22**	**26,644**	**0**	**0**
1986	0	6	617	4,065	16,187	10	84	4,839	143	25,945	0	0
1987	0	2	208	3,912	14,850	7	95	4,738	128	23,937	0	0
1988	0	2	407	3,981	16,899	8	91	5,210	133	26,729	0	0
1989	0	2	491	6,372	18,586	6	94	4,961	99	30,610	0	0

Year	Coal	Natural Gas[1]	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
			Trillion Btu											
1960	**0.1**	*	**5.2**	**3.1**	**10.6**	**0.0**	*	**8.0**	**0.1**	**27.1**	**0.0**	**27.1**	**0.0**	**27.1**
1961	*	*	6.4	3.7	12.8	0.0	*	8.8	0.1	31.8	0.0	31.9	0.0	31.9
1962	*	0.1	5.2	3.8	15.5	*	0.2	9.2	0.1	34.1	0.0	34.2	0.0	34.2
1963	*	*	3.3	3.3	15.8	*	0.2	9.5	0.2	32.3	0.0	32.4	0.0	32.4
1964	*	0.0	2.3	3.4	16.4	*	0.2	9.8	0.1	32.2	0.0	32.2	0.0	32.2
1965	*	**0.0**	**1.5**	**4.6**	**16.5**	*	**0.2**	**11.1**	**0.4**	**34.4**	**0.0**	**34.4**	**0.0**	**34.4**
1966	*	0.0	1.1	4.8	20.6	*	0.3	9.1	0.3	36.2	0.0	36.2	0.0	36.2
1967	*	0.0	3.5	5.0	25.3	*	0.2	9.5	0.3	43.8	0.0	43.9	0.0	43.9
1968	*	0.0	3.5	5.4	28.4	0.0	0.3	9.3	0.3	47.1	0.0	47.2	0.0	47.2
1969	*	0.0	3.5	4.7	36.5	*	0.4	10.7	0.8	56.5	0.0	56.5	0.0	56.5
1970	*	**17.4**	**2.3**	**5.8**	**37.7**	*	**0.4**	**11.9**	**0.9**	**59.0**	**0.0**	**76.4**	**0.0**	**76.4**
1971	*	17.3	1.9	8.3	42.4	*	0.3	13.3	1.5	67.7	0.0	85.0	0.0	85.0
1972	*	8.8	2.0	13.1	45.0	0.0	0.3	12.7	1.5	74.6	0.0	83.4	0.0	83.4
1973	*	0.2	2.0	11.2	41.5	0.0	0.3	14.1	2.1	71.2	0.0	71.4	0.0	71.4
1974	*	0.1	2.4	14.0	41.9	0.0	0.3	15.9	2.1	76.7	0.0	76.8	0.0	76.8
1975	*	**0.1**	**2.4**	**12.6**	**41.7**	**0.0**	**0.7**	**19.2**	**3.0**	**79.6**	**0.0**	**79.7**	**0.0**	**79.7**
1976	*	0.2	1.9	17.0	41.6	0.0	0.8	22.5	5.1	89.0	0.0	89.1	0.0	89.1
1977	*	0.3	2.2	17.1	44.4	0.0	0.6	22.3	7.2	93.8	0.0	94.0	0.0	94.0
1978	0.0	0.2	2.2	15.9	46.5	0.0	0.6	21.3	11.1	97.7	0.0	97.9	0.0	97.9
1979	0.0	0.9	2.2	10.2	47.7	*	0.6	22.3	1.9	85.0	0.0	85.8	0.0	85.8
1980	**0.0**	**0.1**	**2.5**	**15.2**	**54.0**	*	**0.6**	**17.4**	**0.0**	**89.7**	**0.0**	**89.8**	**0.0**	**89.8**
1981	0.0	0.3	2.5	14.5	61.2	0.0	0.5	22.1	*	101.0	0.0	101.2	0.0	101.2
1982	0.0	0.3	1.9	9.9	64.9	*	0.5	24.8	0.0	102.0	0.0	102.2	0.0	102.2
1983	0.0	0.3	1.9	20.7	68.7	*	0.5	23.5	0.3	115.7	0.0	115.9	0.0	115.9
1984	0.0	5.9	2.0	22.3	85.5	0.1	0.6	26.8	0.4	137.5	0.0	143.5	0.0	143.5
1985	**0.0**	**5.2**	**2.5**	**34.0**	**85.8**	*	**0.5**	**26.1**	**0.1**	**149.0**	**0.0**	**154.2**	**0.0**	**154.2**
1986	0.0	6.0	3.1	23.7	91.2	*	0.5	25.4	0.9	144.9	0.0	150.9	0.0	150.9
1987	0.0	2.1	1.0	22.8	83.6	*	0.6	24.9	0.8	133.7	0.0	135.9	0.0	135.9
1988	0.0	2.0	2.1	23.2	95.2	*	0.6	27.4	0.8	149.2	0.0	151.2	0.0	151.2
1989	0.0	1.9	2.5	37.1	104.7	*	0.6	26.1	0.6	171.6	0.0	173.5	0.0	173.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 26. Estimates of Energy Input at Electric Utilities, 1960–1989, Alaska

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**52**	**0**	**52**	**0**	**3**	**95**	**0**	**99**	**0**	**290**	**0**	**0**	
1961	64	0	64	0	3	120	0	123	0	297	0	0	
1962	78	0	78	0	3	149	0	152	0	304	0	0	
1963	84	0	84	1	2	165	0	167	0	325	0	0	
1964	131	0	131	2	3	251	0	254	0	322	0	0	
1965	**151**	**0**	**151**	**2**	**4**	**308**	**0**	**312**	**0**	**350**	**0**	**0**	
1966	153	0	153	4	4	302	0	305	0	316	0	0	
1967	134	0	134	4	4	345	0	349	0	363	0	0	
1968	149	0	149	6	5	396	0	400	0	364	0	0	
1969	163	0	163	7	5	424	0	429	0	341	0	0	
1970	**249**	**0**	**249**	**8**	**5**	**394**	**0**	**399**	**0**	**363**	**0**	**0**	
1971	274	0	274	10	4	451	0	455	0	363	0	0	
1972	247	0	247	13	2	476	0	478	0	346	0	0	
1973	238	0	238	16	4	487	0	492	0	286	0	0	
1974	266	0	266	17	3	479	0	482	0	326	0	0	
1975	**257**	**0**	**257**	**20**	**1**	**694**	**0**	**696**	**0**	**357**	**0**	**0**	
1976	252	0	252	22	15	803	0	817	0	383	0	0	
1977	251	0	251	24	3	905	0	909	0	512	0	0	
1978	270	0	270	24	1	891	0	892	0	472	0	0	
1979	265	0	265	28	2	920	0	922	0	459	0	0	
1980	**273**	**0**	**273**	**29**	**353**	**538**	**0**	**891**	**0**	**539**	**0**	**0**	
1981	321	0	321	29	219	557	0	775	0	590	0	0	
1982	336	0	336	31	299	585	0	884	0	561	0	0	
1983	321	0	321	31	337	598	0	934	0	593	0	0	
1984	314	0	314	32	451	557	0	1,008	0	693	0	*	
1985	**296**	**0**	**296**	**34**	**476**	**518**	**0**	**994**	**0**	**748**	**0**	*	
1986	272	0	272	34	529	437	0	966	0	809	0	0	
1987	274	0	274	31	306	421	0	727	0	872	0	0	
1988	276	0	276	31	264	424	0	688	0	935	0	0	
1989	299	0	299	33	230	506	0	736	0	873	0	0	
					Trillion Btu								
1960	**0.9**	**0.0**	**0.9**	**0.0**	*	**0.6**	**0.0**	**0.6**	**0.0**	**3.1**	**0.0**	**0.0**	**4.6**
1961	1.1	0.0	1.1	0.0	*	0.7	0.0	0.7	0.0	3.2	0.0	0.0	5.0
1962	1.4	0.0	1.4	0.0	*	0.9	0.0	0.9	0.0	3.2	0.0	0.0	5.5
1963	1.5	0.0	1.5	1.0	*	1.0	0.0	1.0	0.0	3.4	0.0	0.0	6.8
1964	2.3	0.0	2.3	1.6	*	1.5	0.0	1.5	0.0	3.4	0.0	0.0	8.7
1965	**2.7**	**0.0**	**2.7**	**2.2**	*	**1.8**	**0.0**	**1.8**	**0.0**	**3.7**	**0.0**	**0.0**	**10.3**
1966	2.7	0.0	2.7	3.9	*	1.8	0.0	1.8	0.0	3.3	0.0	0.0	11.6
1967	2.3	0.0	2.3	4.5	*	2.0	0.0	2.0	0.0	3.8	0.0	0.0	12.6
1968	2.6	0.0	2.6	5.7	*	2.3	0.0	2.3	0.0	3.8	0.0	0.0	14.4
1969	2.8	0.0	2.8	6.7	*	2.5	0.0	2.5	0.0	3.6	0.0	0.0	15.6
1970	**4.3**	**0.0**	**4.3**	**8.2**	*	**2.3**	**0.0**	**2.3**	**0.0**	**3.8**	**0.0**	**0.0**	**18.6**
1971	4.7	0.0	4.7	10.4	*	2.6	0.0	2.7	0.0	3.8	0.0	0.0	21.5
1972	4.3	0.0	4.3	13.2	*	2.8	0.0	2.8	0.0	3.6	0.0	0.0	23.9
1973	4.1	0.0	4.1	15.9	*	2.8	0.0	2.9	0.0	3.0	0.0	0.0	25.9
1974	4.6	0.0	4.6	17.2	*	2.8	0.0	2.8	0.0	3.4	0.0	0.0	28.1
1975	**4.5**	**0.0**	**4.5**	**19.7**	*	**4.0**	**0.0**	**4.1**	**0.0**	**3.7**	**0.0**	**0.0**	**32.0**
1976	4.4	0.0	4.4	22.3	0.1	4.7	0.0	4.8	0.0	4.0	0.0	0.0	35.5
1977	4.4	0.0	4.4	23.7	*	5.3	0.0	5.3	0.0	5.3	0.0	0.0	38.7
1978	4.7	0.0	4.7	24.6	*	5.2	0.0	5.2	0.0	4.9	0.0	0.0	39.4
1979	4.2	0.0	4.2	28.5	*	5.4	0.0	5.4	0.0	4.7	0.0	0.0	42.8
1980	**4.3**	**0.0**	**4.3**	**28.9**	**2.2**	**3.1**	**0.0**	**5.4**	**0.0**	**5.6**	**0.0**	**0.0**	**44.2**
1981	5.1	0.0	5.1	29.2	1.4	3.2	0.0	4.6	0.0	6.2	0.0	0.0	45.1
1982	5.3	0.0	5.3	31.2	1.9	3.4	0.0	5.3	0.0	5.9	0.0	0.0	47.6
1983	5.1	0.0	5.1	31.5	2.1	3.5	0.0	5.6	0.0	6.2	0.0	0.0	48.4
1984	5.0	0.0	5.0	31.8	2.8	3.2	0.0	6.1	0.0	7.2	0.0	*	50.0
1985	**4.7**	**0.0**	**4.7**	**34.4**	**3.0**	**3.0**	**0.0**	**6.0**	**0.0**	**7.7**	**0.0**	*	**52.8**
1986	4.3	0.0	4.3	34.6	3.3	2.5	0.0	5.9	0.0	8.3	0.0	0.0	53.1
1987	4.3	0.0	4.3	30.7	1.9	2.4	0.0	4.4	0.0	8.9	0.0	0.0	48.4
1988	4.4	0.0	4.4	31.0	1.7	2.5	0.0	4.1	0.0	9.6	0.0	0.0	49.1
1989	4.7	0.0	4.7	32.9	1.4	2.9	0.0	4.4	0.0	9.0	0.0	0.0	51.1

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 27. Energy Consumption Estimates by Source, 1960–1989, Arizona

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**10**	**136**	**863**	**699**	**2,787**	**4,721**	**64**	**724**	**275**	**12,363**	**125**	**0**	**22,622**	**0**	**2,975**	**0**	**18**	**-4,266**	
1961	10	154	946	460	3,111	5,096	37	756	267	12,811	95	0	23,580	0	2,920	0	11	-4,693	
1962	304	158	865	748	3,018	5,619	25	979	279	13,678	147	0	25,359	0	2,903	0	4	-4,352	
1963	408	157	1,235	673	3,521	5,756	14	1,010	278	14,234	113	0	26,834	0	2,919	0	9	-2,491	
1964	438	162	1,168	595	3,523	6,018	27	1,032	292	14,572	208	0	27,436	0	2,860	0	3	1,351	
1965	**337**	**154**	**1,110**	**478**	**3,528**	**5,545**	**31**	**1,056**	**299**	**14,997**	**82**	**0**	**27,125**	**0**	**4,410**	**0**	**0**	**1,933**	
1966	347	162	1,891	522	3,951	5,969	37	743	311	15,844	69	0	29,337	0	5,191	0	0	1,397	
1967	344	159	2,018	539	3,685	7,046	43	1,065	286	16,252	90	0	31,025	0	4,974	0	0	4,166	
1968	386	177	2,295	476	4,596	8,103	14	1,090	315	17,735	118	0	34,740	0	5,666	0	0	1,868	
1969	399	195	2,728	430	4,704	7,459	14	1,210	338	20,020	162	0	37,063	0	6,030	0	0	3,187	
1970	**406**	**193**	**3,679**	**427**	**4,899**	**6,644**	**165**	**1,304**	**344**	**21,542**	**105**	**0**	**39,108**	**0**	**6,103**	**0**	**0**	**7,594**	
1971	424	213	2,930	419	5,240	6,769	158	1,324	325	22,957	534	40	40,696	0	6,583	0	0	7,338	
1972	362	228	3,566	410	7,577	6,960	103	1,425	348	25,557	1,602	97	47,645	0	6,651	0	0	9,798	
1973	481	214	3,416	359	10,295	7,226	90	1,362	571	27,825	7,332	27	58,503	0	7,103	0	0	9,088	
1974	2,231	192	3,933	405	9,533	7,229	225	1,477	547	26,717	8,192	39	58,299	0	7,378	0	0	4,926	
1975	**4,392**	**156**	**2,331**	**358**	**10,143**	**7,075**	**213**	**1,119**	**472**	**27,704**	**5,942**	**39**	**55,395**	**0**	**7,240**	**0**	**0**	**4,887**	
1976	6,651	171	2,032	337	10,106	6,670	348	915	524	28,935	5,658	62	55,589	0	7,559	0	0	-5,462	
1977	8,383	167	2,170	375	12,682	7,173	561	945	611	30,765	7,786	75	63,141	0	6,581	0	0	-12,344	
1978	7,456	175	2,687	342	14,384	7,417	499	1,141	656	32,431	4,959	77	64,593	0	6,985	0	0	-9,728	
1979	11,689	173	2,959	369	11,972	7,832	100	1,739	687	32,091	4,926	73	62,748	0	7,217	0	0	-19,577	
1980	**11,559**	**166**	**2,061**	**281**	**10,769**	**7,967**	**73**	**1,589**	**611**	**30,589**	**1,339**	**71**	**55,350**	**0**	**9,795**	**0**	**0**	**-24,227**	
1981	15,240	183	1,637	225	9,990	7,523	107	1,278	586	30,825	259	27	52,458	0	6,793	0	0	-28,299	
1982	16,001	135	1,522	157	8,259	7,714	18	1,655	535	31,440	318	43	51,661	0	7,008	0	0	-29,894	
1983	13,968	115	1,647	156	8,937	7,089	7	1,654	560	32,995	535	0	53,580	0	14,481	0	0	-34,827	
1984	15,406	121	2,485	190	10,035	8,022	7	1,604	597	34,592	535	0	58,065	0	15,678	0	0	-42,132	
1985	**16,364**	**131**	**2,563**	**184**	**10,179**	**7,154**	**17**	**1,858**	**556**	**36,139**	**155**	**0**	**58,807**	**1,130**	**13,987**	**0**	**0**	**-37,975**	
1986	14,150	101	2,530	226	11,306	7,697	18	2,031	544	37,845	32	0	62,228	9,976	14,460	0	0	-46,046	
1987	13,375	117	2,492	207	10,648	8,374	16	2,037	615	39,180	112	0	63,681	13,458	10,133	0	0	-40,613	
1988	14,525	124	2,683	186	10,461	8,478	77	1,757	593	40,269	35	0	64,538	22,940	7,784	0	0	-63,759	
1989	16,871	146	2,386	210	11,419	8,157	82	1,632	608	40,629	154	123	65,399	7,850	7,890	0	0	-32,926	
									Trillion Btu										
1960	**0.2**	**140.3**	**5.7**	**3.5**	**16.2**	**25.3**	**0.4**	**2.9**	**1.7**	**64.9**	**0.8**	**0.0**	**121.5**	**0.0**	**32.0**	**0.0**	**0.2**	**-14.6**	**279.6**
1961	0.2	159.1	6.3	2.3	18.1	27.4	0.2	3.0	1.6	67.3	0.6	0.0	126.9	0.0	31.1	0.0	0.1	-16.0	301.4
1962	6.3	163.5	5.7	3.8	17.6	30.3	0.1	3.9	1.7	71.6	0.9	0.0	135.9	0.0	30.6	0.0	*	-14.9	321.5
1963	8.4	169.5	8.2	3.4	20.5	31.0	0.1	4.0	1.7	74.8	0.7	0.0	144.4	0.0	30.6	0.0	0.1	-8.5	344.6
1964	9.1	174.6	7.7	3.0	20.5	32.5	0.2	4.1	1.8	76.5	1.3	0.0	147.7	0.0	29.9	0.0	*	4.6	365.9
1965	**7.0**	**166.1**	**7.4**	**2.4**	**20.6**	**30.1**	**0.2**	**4.2**	**1.8**	**78.8**	**0.5**	**0.0**	**145.9**	**0.0**	**46.1**	**0.0**	**0.0**	**6.6**	**371.7**
1966	7.4	174.4	12.6	2.6	23.0	32.4	0.2	3.0	1.9	83.2	0.4	0.0	159.4	0.0	54.1	0.0	0.0	4.8	400.0
1967	7.2	169.1	13.4	2.7	21.5	38.4	0.2	4.1	1.7	85.4	0.6	0.0	168.0	0.0	51.9	0.0	0.0	14.2	410.3
1968	8.1	190.0	15.2	2.4	26.8	44.2	0.1	4.2	1.9	93.2	0.7	0.0	188.6	0.0	58.9	0.0	0.0	6.4	452.0
1969	8.4	210.3	18.1	2.2	27.4	40.8	0.1	4.6	2.0	105.2	1.0	0.0	201.3	0.0	63.0	0.0	0.0	10.9	493.9
1970	**8.6**	**204.4**	**24.4**	**2.2**	**28.5**	**36.4**	**0.9**	**4.9**	**2.1**	**113.2**	**0.7**	**0.0**	**213.3**	**0.0**	**64.0**	**0.0**	**0.0**	**25.9**	**516.2**
1971	8.9	225.9	19.4	2.1	30.5	37.1	0.9	5.0	2.0	120.6	3.4	0.2	221.2	0.0	69.0	0.0	0.0	25.0	550.0
1972	7.5	241.4	23.7	2.1	44.1	38.2	0.6	5.4	2.1	134.3	10.1	0.6	261.0	0.0	69.0	0.0	0.0	33.4	612.4
1973	9.9	226.3	22.7	1.8	60.0	39.9	0.5	5.1	3.5	146.2	46.1	0.2	325.8	0.0	73.8	0.0	0.0	31.0	666.9
1974	48.4	205.0	26.1	2.0	55.5	39.8	1.3	5.5	3.3	140.3	51.5	0.2	325.7	0.0	77.0	0.0	0.0	16.8	672.9
1975	**92.4**	**164.3**	**15.5**	**1.8**	**59.1**	**39.0**	**1.2**	**4.2**	**2.9**	**145.5**	**37.4**	**0.2**	**306.7**	**0.0**	**75.3**	**0.0**	**0.0**	**16.7**	**655.5**
1976	140.0	180.2	13.5	1.7	58.9	36.8	2.0	3.4	3.2	152.0	35.6	0.4	307.4	0.0	78.4	0.0	0.0	-18.6	687.3
1977	179.8	176.4	14.4	1.9	73.9	39.6	3.2	3.5	3.7	161.6	48.9	0.4	351.1	0.0	68.7	0.0	0.0	-42.1	734.0
1978	160.0	186.4	17.8	1.7	83.8	41.0	2.8	4.2	4.0	170.4	31.2	0.5	357.3	0.0	72.4	0.0	0.0	-33.2	742.9
1979	246.2	180.6	19.6	1.9	69.7	43.4	0.6	6.4	4.2	168.6	31.0	0.4	345.7	0.0	74.7	0.0	0.0	-66.8	780.4
1980	**245.0**	**174.0**	**13.7**	**1.4**	**62.7**	**43.9**	**0.4**	**5.8**	**3.7**	**160.7**	**8.4**	**0.4**	**301.2**	**0.0**	**101.8**	**0.0**	**0.0**	**-82.7**	**739.3**
1981	319.4	192.2	10.9	1.1	58.2	41.6	0.6	4.7	3.6	161.9	1.6	0.2	284.3	0.0	71.0	0.0	0.0	-96.6	770.4
1982	336.2	142.3	10.1	0.8	48.1	42.6	0.1	6.0	3.2	165.2	2.0	0.3	278.3	0.0	73.3	0.0	0.0	-102.0	728.2
1983	295.4	120.4	10.9	0.8	52.1	39.1	*	6.0	3.4	173.3	3.4	0.0	289.0	0.0	152.3	0.0	0.0	-118.8	738.4
1984	324.9	126.8	16.5	1.0	58.5	44.2	*	5.8	3.6	181.7	3.4	0.0	314.6	0.0	161.8	0.0	0.0	-143.8	784.4
1985	**342.0**	**137.3**	**17.0**	**0.9**	**59.3**	**39.4**	**0.1**	**6.7**	**3.4**	**189.8**	**1.0**	**0.0**	**317.6**	**12.2**	**144.6**	**0.0**	**0.0**	**-129.6**	**824.2**
1986	295.9	105.2	16.8	1.1	65.9	42.6	0.1	7.4	3.3	198.8	0.2	0.0	336.2	107.7	148.4	0.0	0.0	-157.1	836.2
1987	282.9	121.4	16.5	1.0	62.0	46.4	0.1	7.5	3.7	205.8	0.7	0.0	343.8	145.0	103.9	0.0	0.0	-138.6	858.4
1988	309.0	128.6	17.8	0.9	60.9	47.0	0.4	6.4	3.6	211.5	0.2	0.0	348.9	246.4	79.7	0.0	0.0	-217.5	895.1
1989	357.2	151.5	15.8	1.1	66.5	45.3	0.5	6.0	3.7	213.4	1.0	0.7	354.0	84.2	81.5	0.0	0.0	-112.3	916.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 28. Residential Energy Consumption Estimates, 1960–1989, Arizona

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**0**	**0**	**0**	**27**	**47**	**0**	**397**	**445**	**1,355**	**3,369**		
1961	0	0	0	25	46	12	523	581	1,752	4,269		
1962	0	0	0	22	48	10	718	776	1,715	4,123		
1963	0	0	0	23	44	8	725	776	1,912	4,572		
1964	0	0	0	28	52	8	761	820	2,118	5,045		
1965	**0**	**0**	**0**	**25**	**59**	**9**	**727**	**794**	**2,230**	**5,326**		
1966	0	0	0	25	67	10	494	572	2,707	6,495		
1967	0	0	0	25	62	32	737	831	2,920	6,975		
1968	0	0	0	27	98	6	735	839	3,243	7,737		
1969	0	0	0	28	108	7	795	909	3,914	9,348		
1970	**0**	**0**	**0**	**30**	**98**	**68**	**840**	**1,006**	**4,327**	**10,486**		
1971	0	0	0	33	111	51	859	1,021	4,931	11,922		
1972	0	0	0	34	172	39	906	1,117	5,818	14,004		
1973	0	0	0	36	223	35	843	1,101	6,717	16,081		
1974	0	0	0	32	216	87	824	1,128	7,095	17,300		
1975	**0**	**0**	**0**	**38**	**216**	**77**	**542**	**836**	**7,138**	**17,217**		
1976	0	0	0	40	214	161	439	814	7,299	17,581		
1977	0	0	0	38	283	200	455	937	7,855	18,967		
1978	0	0	0	30	321	171	555	1,046	8,392	20,531		
1979	0	0	0	30	203	61	931	1,195	9,304	22,454		
1980	**0**	**0**	**0**	**30**	**2**	**0**	**657**	**659**	**9,637**	**23,434**		
1981	0	0	0	26	1	0	634	635	9,530	22,713		
1982	*	0	*	29	0	0	801	801	9,503	22,826		
1983	0	0	0	29	1	2	920	923	10,427	24,980		
1984	*	0	*	28	1	2	813	816	11,110	25,800		
1985	*	**0**	*	**29**	**12**	**3**	**1,068**	**1,084**	**12,249**	**28,724**		
1986	0	0	0	25	11	1	1,160	1,171	12,540	28,750		
1987	*	0	*	28	19	1	1,226	1,247	13,821	31,498		
1988	*	0	*	28	6	4	910	921	14,731	33,267		
1989	0	0	0	27	7	1	820	827	15,248	34,201		
	Trillion Btu											
1960	**0.0**	**0.0**	**0.0**	**28.4**	**0.3**	**0.0**	**1.6**	**1.9**	**4.6**	**34.9**	**11.5**	**46.4**
1961	0.0	0.0	0.0	25.9	0.3	0.1	2.1	2.4	6.0	34.3	14.6	48.8
1962	0.0	0.0	0.0	22.9	0.3	0.1	2.9	3.2	5.9	32.0	14.1	46.1
1963	0.0	0.0	0.0	25.1	0.3	*	2.9	3.2	6.5	34.9	15.6	50.5
1964	0.0	0.0	0.0	30.5	0.3	*	3.1	3.4	7.2	41.1	17.2	58.3
1965	**0.0**	**0.0**	**0.0**	**27.1**	**0.3**	*	**2.9**	**3.3**	**7.6**	**38.0**	**18.2**	**56.2**
1966	0.0	0.0	0.0	26.9	0.4	0.1	2.0	2.4	9.2	38.6	22.2	60.7
1967	0.0	0.0	0.0	27.0	0.4	0.2	2.8	3.4	10.0	40.4	23.8	64.2
1968	0.0	0.0	0.0	28.7	0.6	*	2.8	3.4	11.1	43.2	26.4	69.6
1969	0.0	0.0	0.0	30.6	0.6	*	3.0	3.7	13.4	47.6	31.9	79.5
1970	**0.0**	**0.0**	**0.0**	**31.4**	**0.6**	**0.4**	**3.2**	**4.1**	**14.8**	**50.3**	**35.8**	**86.1**
1971	0.0	0.0	0.0	34.5	0.6	0.3	3.2	4.2	16.8	55.5	40.7	96.2
1972	0.0	0.0	0.0	36.1	1.0	0.2	3.4	4.6	19.9	60.6	47.8	108.3
1973	0.0	0.0	0.0	38.2	1.3	0.2	3.2	4.7	22.9	65.7	54.9	120.6
1974	0.0	0.0	0.0	34.3	1.3	0.5	3.1	4.8	24.2	63.4	59.0	122.4
1975	**0.0**	**0.0**	**0.0**	**39.8**	**1.3**	**0.4**	**2.0**	**3.7**	**24.4**	**67.9**	**58.7**	**126.6**
1976	0.0	0.0	0.0	42.2	1.2	0.9	1.6	3.8	24.9	70.9	60.0	130.9
1977	0.0	0.0	0.0	40.3	1.6	1.1	1.7	4.5	26.8	71.6	64.7	136.3
1978	0.0	0.0	0.0	32.1	1.9	1.0	2.0	4.9	28.6	65.6	70.1	135.6
1979	0.0	0.0	0.0	30.7	1.2	0.3	3.4	5.0	31.7	67.4	76.6	144.0
1980	**0.0**	**0.0**	**0.0**	**30.9**	*	**0.0**	**2.4**	**2.4**	**32.9**	**66.2**	**80.0**	**146.1**
1981	0.0	0.0	0.0	27.7	*	0.0	2.3	2.3	32.5	62.6	77.5	140.1
1982	*	0.0	*	31.1	0.0	0.0	2.9	2.9	32.4	66.4	77.9	144.3
1983	0.0	0.0	0.0	30.6	*	*	3.3	3.3	35.6	69.5	85.2	154.7
1984	*	0.0	*	28.9	*	*	2.9	2.9	37.9	69.7	88.0	157.8
1985	*	**0.0**	*	**29.9**	**0.1**	*	**3.8**	**3.9**	**41.8**	**75.7**	**98.0**	**173.7**
1986	0.0	0.0	0.0	26.3	0.1	*	4.2	4.3	42.8	73.4	98.1	171.5
1987	*	0.0	*	29.5	0.1	*	4.5	4.6	47.2	81.2	107.5	188.7
1988	*	0.0	*	29.2	*	*	3.3	3.4	50.3	82.8	113.5	196.3
1989	0.0	0.0	0.0	28.2	*	*	3.0	3.1	52.0	83.3	116.7	200.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 29. Commercial Energy Consumption Estimates, 1960-1989, Arizona

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**0**	**0**	**0**	**25**	**106**	**0**	**70**	**89**	**39**	**305**	**3,302**	**8,214**		
1961	0	0	0	14	103	2	92	98	17	313	2,947	7,182		
1962	0	0	0	13	106	2	127	111	17	363	2,915	7,007		
1963	0	0	0	13	98	1	128	141	12	380	3,184	7,615		
1964	0	0	0	23	116	1	134	124	57	432	3,313	7,891		
1965	**0**	**0**	**0**	**19**	**131**	**2**	**128**	**137**	**17**	**416**	**3,044**	**7,268**		
1966	0	0	0	18	150	2	87	162	17	418	3,276	7,861		
1967	0	0	0	23	140	6	130	178	15	469	3,592	8,581		
1968	0	0	0	23	220	1	130	158	32	541	3,775	9,007		
1969	0	0	0	25	242	1	140	151	66	600	4,305	10,283		
1970	**0**	**0**	**0**	**23**	**220**	**12**	**148**	**146**	**31**	**557**	**4,690**	**11,366**		
1971	0	0	0	26	249	9	152	151	48	609	5,304	12,822		
1972	0	0	0	27	384	7	160	156	42	749	5,983	14,400		
1973	0	0	0	32	500	6	149	162	146	963	6,436	15,408		
1974	0	0	0	33	483	16	145	171	173	988	6,820	16,628		
1975	**0**	**0**	**0**	**33**	**485**	**14**	**96**	**177**	**83**	**855**	**7,162**	**17,277**		
1976	0	0	0	37	479	29	78	182	210	977	7,626	18,370		
1977	0	0	0	34	633	36	80	186	404	1,341	8,205	19,813		
1978	0	0	0	30	719	31	98	161	305	1,314	8,208	20,081		
1979	0	0	0	27	455	11	164	174	78	882	8,683	20,955		
1980	**0**	**0**	**0**	**27**	**280**	**0**	**116**	**179**	**0**	**576**	**9,122**	**22,182**		
1981	0	0	0	27	60	18	112	185	36	410	9,263	22,077		
1982	1	0	1	26	23	12	141	304	158	638	9,289	22,310		
1983	0	0	0	25	216	2	162	167	1	548	9,544	22,866		
1984	1	0	1	25	244	3	144	152	1	542	11,169	25,937		
1985	**1**	**0**	**1**	**25**	**476**	**2**	**189**	**140**	*****	**807**	**12,295**	**28,831**		
1986	0	0	0	24	381	6	205	165	0	757	13,088	30,007		
1987	*	0	*	28	530	7	216	356	0	1,109	14,324	32,646		
1988	*	0	*	28	486	1	161	138	*	786	14,924	33,703		
1989	0	0	0	29	374	4	145	128	0	651	15,778	35,391		
							Trillion Btu							
1960	**0.0**	**0.0**	**0.0**	**26.2**	**0.6**	**0.0**	**0.3**	**0.5**	**0.2**	**1.6**	**11.3**	**39.1**	**28.0**	**67.1**
1961	0.0	0.0	0.0	14.5	0.6	*	0.4	0.5	0.1	1.6	10.1	26.1	24.5	50.7
1962	0.0	0.0	0.0	12.9	0.6	*	0.5	0.6	0.1	1.8	9.9	24.7	23.9	48.6
1963	0.0	0.0	0.0	14.3	0.6	*	0.5	0.7	0.1	1.9	10.9	27.1	26.0	53.1
1964	0.0	0.0	0.0	24.4	0.7	*	0.5	0.7	0.4	2.2	11.3	38.0	26.9	64.9
1965	**0.0**	**0.0**	**0.0**	**20.7**	**0.8**	*****	**0.5**	**0.7**	**0.1**	**2.1**	**10.4**	**33.2**	**24.8**	**58.0**
1966	0.0	0.0	0.0	19.3	0.9	*	0.3	0.9	0.1	2.2	11.2	32.7	26.8	59.5
1967	0.0	0.0	0.0	24.9	0.8	*	0.5	0.9	0.1	2.4	12.3	39.5	29.3	68.8
1968	0.0	0.0	0.0	25.2	1.3	*	0.5	0.8	0.2	2.8	12.9	40.9	30.7	71.6
1969	0.0	0.0	0.0	26.4	1.4	*	0.5	0.8	0.4	3.2	14.7	44.2	35.1	79.3
1970	**0.0**	**0.0**	**0.0**	**24.0**	**1.3**	**0.1**	**0.6**	**0.8**	**0.2**	**2.9**	**16.0**	**42.9**	**38.8**	**81.7**
1971	0.0	0.0	0.0	27.1	1.5	0.1	0.6	0.8	0.3	3.2	18.1	48.4	43.7	92.1
1972	0.0	0.0	0.0	28.3	2.2	*	0.6	0.8	0.3	4.0	20.4	52.7	49.1	101.8
1973	0.0	0.0	0.0	33.5	2.9	*	0.6	0.9	0.9	5.3	22.0	60.7	52.6	113.3
1974	0.0	0.0	0.0	34.8	2.8	0.1	0.5	0.9	1.1	5.4	23.3	63.5	56.7	120.2
1975	**0.0**	**0.0**	**0.0**	**34.3**	**2.8**	**0.1**	**0.4**	**0.9**	**0.5**	**4.7**	**24.4**	**63.4**	**58.9**	**122.4**
1976	0.0	0.0	0.0	38.6	2.8	0.2	0.3	1.0	1.3	5.5	26.0	70.1	62.7	132.8
1977	0.0	0.0	0.0	35.9	3.7	0.2	0.3	1.0	2.5	7.7	28.0	71.6	67.6	139.2
1978	0.0	0.0	0.0	31.5	4.2	0.2	0.4	0.8	1.9	7.5	28.0	67.0	68.5	135.5
1979	0.0	0.0	0.0	28.1	2.7	0.1	0.6	0.9	0.5	4.7	29.6	62.4	71.5	133.9
1980	**0.0**	**0.0**	**0.0**	**28.7**	**1.6**	**0.0**	**0.4**	**0.9**	**0.0**	**3.0**	**31.1**	**62.9**	**75.7**	**138.5**
1981	0.0	0.0	0.0	28.2	0.3	0.1	0.4	1.0	0.2	2.1	31.6	61.9	75.3	137.2
1982	*	0.0	*	27.5	0.1	0.1	0.5	1.6	1.0	3.3	31.7	62.5	76.1	138.6
1983	0.0	0.0	0.0	25.7	1.3	*	0.6	0.9	*	2.7	32.6	61.0	78.0	139.1
1984	*	0.0	*	26.5	1.4	*	0.5	0.8	*	2.8	38.1	67.3	88.5	155.8
1985	*****	**0.0**	*****	**26.5**	**2.8**	*****	**0.7**	**0.7**	*****	**4.2**	**41.9**	**72.7**	**98.4**	**171.1**
1986	0.0	0.0	0.0	25.0	2.2	*	0.7	0.9	0.0	3.9	44.7	73.5	102.4	175.9
1987	*	0.0	*	28.7	3.1	*	0.8	1.9	0.0	5.8	48.9	83.3	111.4	194.7
1988	*	0.0	*	29.3	2.8	*	0.6	0.7	*	4.1	50.9	84.3	115.0	199.3
1989	0.0	0.0	0.0	29.8	2.2	*	0.5	0.7	0.0	3.4	53.8	87.0	120.8	207.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 30. Industrial Energy Consumption Estimates, 1960–1989, Arizona

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours			
1960	**10**	**0**	**10**	**14**	**863**	**1,227**	**64**	**222**	**81**	**515**	**27**	**0**	**3,000**	**0**	**1,481**	**3,683**		
1961	10	0	10	39	946	1,274	23	108	79	487	38	0	2,954	0	1,964	4,786		
1962	10	0	10	48	865	1,133	13	105	83	484	28	0	2,711	0	2,673	6,425		
1963	7	0	7	51	1,235	1,057	5	121	83	404	18	0	2,923	0	2,767	6,618		
1964	5	0	5	45	1,168	833	18	104	87	444	46	0	2,700	0	2,949	7,023		
1965	**4**	**0**	**4**	**55**	**1,110**	**1,545**	**21**	**161**	**93**	**437**	**20**	**0**	**3,387**	**0**	**3,331**	**7,952**		
1966	2	0	2	58	1,891	1,853	25	115	97	470	35	0	4,487	0	3,587	8,608		
1967	1	0	1	46	2,018	1,704	6	152	95	526	59	0	4,560	0	3,512	8,391		
1968	1	0	1	54	2,295	1,254	7	169	104	425	39	0	4,292	9	3,720	8,875		
1969	2	0	2	58	2,728	1,357	6	223	113	444	53	0	4,925	11	4,229	10,101		
1970	**5**	**0**	**5**	**58**	**3,679**	**1,387**	**85**	**253**	**115**	**456**	**55**	**0**	**6,031**	**13**	**4,751**	**11,514**		
1971	10	0	10	61	2,930	1,710	97	242	102	455	78	40	5,655	9	4,997	12,080		
1972	14	0	14	63	3,566	2,637	57	279	109	470	159	97	7,373	13	5,593	13,462		
1973	12	0	12	66	3,416	3,582	49	316	266	454	236	27	8,345	11	5,972	14,297		
1974	11	0	11	65	3,933	3,223	122	451	255	477	248	39	8,747	7	6,368	15,527		
1975	**133**	**0**	**133**	**51**	**2,331**	**3,113**	**122**	**430**	**205**	**440**	**102**	**39**	**6,781**	**14**	**6,868**	**16,566**		
1976	364	0	364	55	2,032	3,269	159	348	228	376	262	62	6,736	16	7,203	17,352		
1977	832	0	832	50	2,170	4,541	325	353	264	373	401	75	8,502	3	7,255	17,519		
1978	450	0	450	46	2,687	5,641	298	383	284	369	224	77	9,961	11	7,428	18,173		
1979	1,878	0	1,878	45	2,959	3,929	28	633	297	341	117	73	8,377	16	8,065	19,464		
1980	**643**	**0**	**643**	**38**	**2,061**	**3,570**	**73**	**739**	**264**	**309**	**154**	**71**	**7,241**	**15**	**8,003**	**19,461**		
1981	1,213	1	1,214	47	1,637	2,994	89	387	254	270	21	27	5,678	15	10,033	23,910		
1982	1,516	0	1,516	30	1,522	2,174	6	599	231	214	15	43	4,804	15	8,071	19,365		
1983	1,504	0	1,504	30	1,647	2,221	2	438	242	186	5	0	4,741	15	7,912	18,957		
1984	1,804	0	1,804	29	2,485	2,510	2	513	258	250	5	0	6,023	15	7,467	17,340		
1985	**1,915**	**0**	**1,915**	**17**	**2,563**	**1,850**	**12**	**518**	**241**	**404**	**10**	**0**	**5,597**	**15**	**8,457**	**19,831**		
1986	2,289	0	2,289	8	2,530	2,782	11	575	235	419	29	0	6,582	15	8,358	19,162		
1987	669	0	669	18	2,492	2,440	9	531	266	405	7	0	6,149	15	8,494	19,357		
1988	593	0	593	24	2,683	2,031	72	626	257	405	12	0	6,086	15	9,261	20,915		
1989	689	0	689	21	2,386	3,078	77	615	263	420	7	123	6,968	15	9,722	21,807		
					Trillion Btu													
1960	**0.2**	**0.0**	**0.2**	**14.2**	**5.7**	**7.1**	**0.4**	**0.9**	**0.5**	**2.7**	**0.2**	**0.0**	**17.5**	**0.0**	**5.1**	**36.9**	**12.6**	**49.5**
1961	0.2	0.0	0.2	39.9	6.3	7.4	0.1	0.4	0.5	2.6	0.2	0.0	17.5	0.0	6.7	64.4	16.3	80.7
1962	0.2	0.0	0.2	49.7	5.7	6.6	0.1	0.4	0.5	2.5	0.2	0.0	16.1	0.0	9.1	75.1	21.9	97.1
1963	0.2	0.0	0.2	54.5	8.2	6.2	*	0.5	0.5	2.1	0.1	0.0	17.6	0.0	9.4	81.7	22.6	104.3
1964	0.1	0.0	0.1	48.6	7.7	4.9	0.1	0.4	0.5	2.3	0.3	0.0	16.3	0.0	10.1	75.1	24.0	99.0
1965	**0.1**	**0.0**	**0.1**	**59.4**	**7.4**	**9.0**	**0.1**	**0.6**	**0.6**	**2.3**	**0.1**	**0.0**	**20.1**	**0.0**	**11.4**	**90.9**	**27.1**	**118.1**
1966	*	0.0	*	62.2	12.6	10.8	0.1	0.5	0.6	2.5	0.2	0.0	27.2	0.0	12.2	101.7	29.4	131.1
1967	*	0.0	*	49.4	13.4	9.9	*	0.6	0.6	2.8	0.4	0.0	27.6	0.0	12.0	89.1	28.6	117.7
1968	*	0.0	*	57.8	15.2	7.3	*	0.6	0.6	2.2	0.2	0.0	26.3	0.1	12.7	96.9	30.3	127.2
1969	*	0.0	*	62.9	18.1	7.9	*	0.8	0.7	2.3	0.3	0.0	30.2	0.1	14.4	107.7	34.5	142.2
1970	**0.1**	**0.0**	**0.1**	**61.2**	**24.4**	**8.1**	**0.5**	**1.0**	**0.7**	**2.4**	**0.3**	**0.0**	**37.4**	**0.1**	**16.2**	**115.0**	**39.3**	**154.3**
1971	0.2	0.0	0.2	64.2	19.4	10.0	0.6	0.9	0.6	2.4	0.5	0.2	34.6	0.1	17.0	116.1	41.2	157.3
1972	0.3	0.0	0.3	66.5	23.7	15.4	0.3	1.1	0.7	2.5	1.0	0.6	45.1	0.1	19.1	131.1	45.9	177.0
1973	0.2	0.0	0.2	69.0	22.7	20.9	0.3	1.2	1.6	2.4	1.5	0.2	50.6	0.1	20.4	140.3	48.8	189.1
1974	0.2	0.0	0.2	68.9	26.1	18.8	0.7	1.7	1.5	2.5	1.6	0.2	53.1	0.1	21.7	144.0	53.0	197.0
1975	**2.6**	**0.0**	**2.6**	**53.4**	**15.5**	**18.1**	**0.7**	**1.6**	**1.2**	**2.3**	**0.6**	**0.2**	**40.3**	**0.1**	**23.4**	**119.9**	**56.5**	**176.4**
1976	7.3	0.0	7.3	57.2	13.5	19.0	0.9	1.3	1.4	2.0	1.6	0.4	40.1	0.2	24.6	129.3	59.2	188.5
1977	17.1	0.0	17.1	53.0	14.4	26.5	1.8	1.3	1.6	2.0	2.5	0.4	50.5	*	24.8	145.4	59.8	205.2
1978	9.2	0.0	9.2	48.8	17.8	32.9	1.7	1.4	1.7	1.9	1.4	0.5	59.3	0.1	25.3	142.7	62.0	204.7
1979	38.0	0.0	38.0	46.4	19.6	22.9	0.2	2.3	1.8	1.8	0.7	0.4	49.8	0.2	27.5	161.9	66.4	228.3
1980	**13.1**	**0.0**	**13.1**	**39.5**	**13.7**	**20.8**	**0.4**	**2.7**	**1.6**	**1.6**	**1.0**	**0.4**	**42.2**	**0.2**	**27.3**	**122.3**	**66.4**	**188.7**
1981	24.7	*	24.7	49.9	10.9	17.4	0.5	1.4	1.5	1.4	0.1	0.2	33.5	0.2	34.2	142.4	81.6	224.0
1982	30.8	0.0	30.8	31.4	10.1	12.7	*	2.2	1.4	1.1	0.1	0.3	27.9	0.2	27.5	117.7	66.1	183.9
1983	30.3	0.0	30.3	31.1	10.9	12.9	*	1.6	1.5	1.0	*	0.0	27.9	0.2	27.0	116.5	64.7	181.2
1984	36.6	0.0	36.6	30.5	16.5	14.6	*	1.8	1.6	1.3	*	0.0	35.9	0.2	25.5	128.6	59.2	187.8
1985	**38.8**	**0.0**	**38.8**	**17.3**	**17.0**	**10.8**	**0.1**	**1.9**	**1.5**	**2.1**	**0.1**	**0.0**	**33.4**	**0.2**	**28.9**	**118.4**	**67.7**	**186.1**
1986	46.3	0.0	46.3	8.8	16.8	16.2	0.1	2.1	1.4	2.2	0.2	0.0	39.0	0.2	28.5	122.7	65.4	188.1
1987	13.3	0.0	13.3	18.4	16.5	14.2	*	1.9	1.6	2.1	*	0.0	36.5	0.2	29.0	97.4	66.0	163.4
1988	12.3	0.0	12.3	25.0	17.8	11.8	0.4	2.3	1.6	2.1	0.1	0.0	36.1	0.2	31.6	105.2	71.4	176.5
1989	14.3	0.0	14.3	21.6	15.8	17.9	0.4	2.3	1.6	2.2	*	0.7	41.0	0.2	33.2	110.3	74.4	184.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 31. Transportation Energy Consumption Estimates, 1960–1989, Arizona

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	*	**16**	**699**	**1,404**	**4,721**	**34**	**193**	**11,759**	**17**	**18,829**	**0**	**0**		
1961	*	16	460	1,687	5,096	33	188	12,226	14	19,704	0	0		
1962	*	15	748	1,725	5,619	30	196	13,083	9	21,410	0	0		
1963	*	14	673	2,317	5,756	36	196	13,689	0	22,666	0	0		
1964	*	17	595	2,516	6,018	33	205	14,004	1	23,373	0	0		
1965	*	**18**	**478**	**1,790**	**5,545**	**40**	**206**	**14,423**	**0**	**22,482**	**0**	**0**		
1966	*	20	522	1,879	5,969	46	214	15,212	2	23,845	0	0		
1967	*	24	539	1,778	7,046	46	192	15,547	0	25,148	0	0		
1968	*	26	476	3,020	8,103	56	211	17,153	0	29,018	0	0		
1969	*	27	430	2,994	7,459	51	225	19,425	0	30,583	0	0		
1970	*	**24**	**427**	**3,192**	**6,644**	**63**	**229**	**20,940**	**0**	**31,494**	**0**	**0**		
1971	*	26	419	3,164	6,769	71	223	22,351	0	32,997	0	0		
1972	*	26	410	4,487	6,738	80	239	24,932	0	36,886	0	0		
1973	*	24	359	5,645	7,066	54	305	27,210	0	40,640	0	0		
1974	*	22	405	5,075	7,099	56	292	26,070	0	38,998	0	0		
1975	*	**17**	**358**	**4,756**	**6,995**	**51**	**267**	**27,087**	**0**	**39,514**	**0**	**0**		
1976	*	15	337	5,043	6,670	50	296	28,378	0	40,774	0	0		
1977	*	15	375	6,019	7,173	57	347	30,205	0	44,176	0	0		
1978	0	15	342	6,510	7,417	106	372	31,901	0	46,647	0	0		
1979	0	20	369	6,784	7,832	11	390	31,577	0	46,963	0	0		
1980	**0**	**21**	**281**	**6,480**	**7,967**	**78**	**347**	**30,100**	**0**	**45,253**	**0**	**0**		
1981	0	24	225	6,639	7,523	146	333	30,369	0	45,236	0	0		
1982	0	18	157	5,807	7,714	114	303	30,923	0	45,017	0	0		
1983	0	12	156	6,282	7,089	134	318	32,642	0	46,621	0	0		
1984	0	14	190	7,100	8,022	133	339	34,190	0	49,974	0	0		
1985	**0**	**19**	**184**	**7,630**	**7,154**	**83**	**316**	**35,596**	**0**	**50,962**	**0**	**0**		
1986	0	13	226	7,892	7,697	92	309	37,260	0	53,476	0	0		
1987	0	17	207	7,331	8,374	63	349	38,420	0	54,744	0	0		
1988	0	18	186	7,742	8,478	60	337	39,725	0	56,527	0	0		
1989	0	18	210	7,746	8,157	53	345	40,081	0	56,592	0	0		
							Trillion Btu					Net Energy[4]		Total[4]
1960	*	**16.5**	**3.5**	**8.2**	**25.3**	**0.1**	**1.2**	**61.8**	**0.1**	**100.2**	**0.0**	**116.7**	**0.0**	**116.7**
1961	*	16.1	2.3	9.8	27.4	0.1	1.1	64.2	0.1	105.2	0.0	121.2	0.0	121.2
1962	*	15.5	3.8	10.0	30.3	0.1	1.2	68.7	0.1	114.2	0.0	129.7	0.0	129.7
1963	*	15.6	3.4	13.5	31.0	0.1	1.2	71.9	0.0	121.1	0.0	136.7	0.0	136.7
1964	*	18.7	3.0	14.7	32.5	0.1	1.2	73.6	*	125.1	0.0	143.7	0.0	143.7
1965	*	**19.4**	**2.4**	**10.4**	**30.1**	**0.2**	**1.2**	**75.8**	**0.0**	**120.1**	**0.0**	**139.4**	**0.0**	**139.4**
1966	*	21.3	2.6	10.9	32.4	0.2	1.3	79.9	*	127.4	0.0	148.7	0.0	148.7
1967	*	25.3	2.7	10.4	38.4	0.2	1.2	81.7	0.0	134.5	0.0	159.7	0.0	159.7
1968	*	27.9	2.4	17.6	44.2	0.2	1.3	90.1	0.0	155.8	0.0	183.6	0.0	183.6
1969	*	28.9	2.2	17.4	40.8	0.2	1.4	102.0	0.0	164.0	0.0	192.9	0.0	192.9
1970	*	**25.4**	**2.2**	**18.6**	**36.4**	**0.2**	**1.4**	**110.0**	**0.0**	**168.8**	**0.0**	**194.1**	**0.0**	**194.1**
1971	*	27.7	2.1	18.4	37.1	0.3	1.4	117.4	0.0	176.6	0.0	204.3	0.0	204.3
1972	*	27.3	2.1	26.1	37.0	0.3	1.5	131.0	0.0	197.9	0.0	225.2	0.0	225.2
1973	*	25.2	1.8	32.9	39.0	0.2	1.9	142.9	0.0	218.6	0.0	243.9	0.0	243.9
1974	*	23.6	2.0	29.6	39.1	0.2	1.8	136.9	0.0	209.6	0.0	233.3	0.0	233.3
1975	*	**17.9**	**1.8**	**27.7**	**38.6**	**0.2**	**1.6**	**142.3**	**0.0**	**212.2**	**0.0**	**230.1**	**0.0**	**230.1**
1976	*	16.1	1.7	29.4	36.8	0.2	1.8	149.1	0.0	218.9	0.0	235.0	0.0	235.0
1977	*	15.7	1.9	35.1	39.6	0.2	2.1	158.7	0.0	237.5	0.0	253.3	0.0	253.3
1978	0.0	16.2	1.7	37.9	41.0	0.4	2.3	167.6	0.0	250.9	0.0	267.0	0.0	267.0
1979	0.0	21.2	1.9	39.5	43.4	*	2.4	165.9	0.0	253.0	0.0	274.2	0.0	274.2
1980	**0.0**	**22.3**	**1.4**	**37.7**	**43.9**	**0.3**	**2.1**	**158.1**	**0.0**	**243.6**	**0.0**	**265.9**	**0.0**	**265.9**
1981	0.0	25.7	1.1	38.7	41.6	0.5	2.0	159.5	0.0	243.5	0.0	269.1	0.0	269.1
1982	0.0	19.5	0.8	33.8	42.6	0.4	1.8	162.4	0.0	241.9	0.0	261.4	0.0	261.4
1983	0.0	13.0	0.8	36.6	39.1	0.5	1.9	171.5	0.0	250.4	0.0	263.4	0.0	263.4
1984	0.0	14.3	1.0	41.4	44.2	0.5	2.1	179.6	0.0	268.7	0.0	283.0	0.0	283.0
1985	**0.0**	**19.4**	**0.9**	**44.4**	**39.4**	**0.3**	**1.9**	**187.0**	**0.0**	**274.0**	**0.0**	**293.4**	**0.0**	**293.4**
1986	0.0	13.1	1.1	46.0	42.6	0.3	1.9	195.7	0.0	287.6	0.0	300.8	0.0	300.8
1987	0.0	17.3	1.0	42.7	46.4	0.2	2.1	201.8	0.0	294.3	0.0	311.6	0.0	311.6
1988	0.0	19.0	0.9	45.1	47.0	0.2	2.0	208.7	0.0	304.0	0.0	322.9	0.0	322.9
1989	0.0	19.2	1.1	45.1	45.3	0.2	2.1	210.5	0.0	304.3	0.0	323.5	0.0	323.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 32. Estimates of Energy Input at Electric Utilities, 1960–1989, Arizona

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydroelectric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**53**	**41**	**3**	**0**	**44**	**0**	**2,975**	**0**	**18**	
1961	0	0	0	61	26	2	0	27	0	2,920	0	11	
1962	294	0	294	60	93	6	0	99	0	2,903	0	4	
1963	401	0	401	56	83	5	0	89	0	2,919	0	9	
1964	432	0	432	49	105	7	0	111	0	2,860	0	3	
1965	**333**	**0**	**333**	**37**	**44**	**3**	**0**	**47**	**0**	**4,410**	**0**	**0**	
1966	345	0	345	42	15	1	0	16	0	5,191	0	0	
1967	343	0	343	40	16	1	0	17	0	4,974	0	0	
1968	385	0	385	47	47	3	0	50	0	5,658	0	0	
1969	397	0	397	57	43	3	0	46	0	6,019	0	0	
1970	**401**	**0**	**401**	**59**	**19**	**1**	**0**	**20**	**0**	**6,089**	**0**	**0**	
1971	414	0	414	68	407	6	0	414	0	6,574	0	0	
1972	348	0	348	78	1,401	119	0	1,520	0	6,638	0	0	
1973	469	0	469	57	6,949	504	0	7,454	0	7,093	0	0	
1974	2,220	0	2,220	40	7,771	666	0	8,437	0	7,372	0	0	
1975	**4,259**	**0**	**4,259**	**18**	**5,756**	**1,653**	**0**	**7,410**	**0**	**7,226**	**0**	**0**	
1976	6,286	0	6,286	24	5,187	1,101	0	6,288	0	7,543	0	0	
1977	7,551	0	7,551	29	6,981	1,205	0	8,185	0	6,578	0	0	
1978	7,007	0	7,007	54	4,431	1,194	0	5,625	0	6,974	0	0	
1979	9,811	0	9,811	51	4,731	600	0	5,331	0	7,201	0	0	
1980	**10,916**	**0**	**10,916**	**50**	**1,185**	**436**	**0**	**1,622**	**0**	**9,780**	**0**	**0**	
1981	14,026	0	14,026	58	203	296	0	499	0	6,777	0	0	
1982	14,484	0	14,484	31	145	256	0	400	0	6,993	0	0	
1983	12,464	0	12,464	19	529	218	0	747	0	14,466	0	0	
1984	13,601	0	13,601	25	530	180	0	710	0	15,663	0	0	
1985	**14,440**	**0**	**14,440**	**42**	**145**	**211**	**0**	**357**	**1,130**	**13,972**	**0**	**0**	
1986	11,861	0	11,861	31	2	240	0	242	9,976	14,444	0	0	
1987	12,706	0	12,706	27	104	328	0	432	13,458	10,118	0	0	
1988	13,932	0	13,932	25	22	197	0	219	22,940	7,769	0	0	
1989	16,182	0	16,182	51	147	214	0	361	7,850	7,875	0	0	
						Trillion Btu							
1960	**0.0**	**0.0**	**0.0**	**55.1**	**0.3**	*	**0.0**	**0.3**	**0.0**	**32.0**	**0.0**	**0.2**	**87.6**
1961	0.0	0.0	0.0	62.8	0.2	*	0.0	0.2	0.0	31.1	0.0	0.1	94.1
1962	6.1	0.0	6.1	62.3	0.6	*	0.0	0.6	0.0	30.6	0.0	*	99.7
1963	8.3	0.0	8.3	60.0	0.5	*	0.0	0.6	0.0	30.6	0.0	0.1	99.5
1964	9.0	0.0	9.0	52.5	0.7	*	0.0	0.7	0.0	29.9	0.0	*	92.1
1965	**6.9**	**0.0**	**6.9**	**39.5**	**0.3**	*	**0.0**	**0.3**	**0.0**	**46.1**	**0.0**	**0.0**	**92.9**
1966	7.3	0.0	7.3	44.8	0.1	*	0.0	0.1	0.0	54.1	0.0	0.0	106.2
1967	7.2	0.0	7.2	42.5	0.1	*	0.0	0.1	0.0	51.9	0.0	0.0	101.7
1968	8.1	0.0	8.1	50.4	0.3	*	0.0	0.3	0.0	58.8	0.0	0.0	117.7
1969	8.3	0.0	8.3	61.5	0.3	*	0.0	0.3	0.0	62.9	0.0	0.0	133.0
1970	**8.5**	**0.0**	**8.5**	**62.4**	**0.1**	*	**0.0**	**0.1**	**0.0**	**63.9**	**0.0**	**0.0**	**134.9**
1971	8.7	0.0	8.7	72.4	2.6	*	0.0	2.6	0.0	68.9	0.0	0.0	152.6
1972	7.2	0.0	7.2	83.2	8.8	0.7	0.0	9.5	0.0	68.9	0.0	0.0	168.8
1973	9.7	0.0	9.7	60.5	43.7	2.9	0.0	46.6	0.0	73.7	0.0	0.0	190.5
1974	48.1	0.0	48.1	43.3	48.9	3.9	0.0	52.7	0.0	77.0	0.0	0.0	221.1
1975	**89.8**	**0.0**	**89.8**	**18.9**	**36.2**	**9.6**	**0.0**	**45.8**	**0.0**	**75.2**	**0.0**	**0.0**	**229.8**
1976	132.7	0.0	132.7	26.1	32.6	6.4	0.0	39.0	0.0	78.2	0.0	0.0	276.0
1977	162.8	0.0	162.8	31.4	43.9	7.0	0.0	50.9	0.0	68.6	0.0	0.0	313.8
1978	150.8	0.0	150.8	57.9	27.9	7.0	0.0	34.8	0.0	72.3	0.0	0.0	315.7
1979	208.2	0.0	208.2	54.2	29.7	3.5	0.0	33.2	0.0	74.5	0.0	0.0	370.2
1980	**231.9**	**0.0**	**231.9**	**52.5**	**7.5**	**2.5**	**0.0**	**10.0**	**0.0**	**101.6**	**0.0**	**0.0**	**396.0**
1981	294.7	0.0	294.7	60.7	1.3	1.7	0.0	3.0	0.0	70.8	0.0	0.0	429.3
1982	305.4	0.0	305.4	32.9	0.9	1.5	0.0	2.4	0.0	73.1	0.0	0.0	413.8
1983	265.1	0.0	265.1	20.0	3.3	1.3	0.0	4.6	0.0	152.2	0.0	0.0	441.9
1984	288.2	0.0	288.2	26.7	3.3	1.1	0.0	4.4	0.0	161.7	0.0	0.0	480.9
1985	**303.2**	**0.0**	**303.2**	**44.2**	**0.9**	**1.2**	**0.0**	**2.1**	**12.2**	**144.5**	**0.0**	**0.0**	**506.2**
1986	249.6	0.0	249.6	32.0	*	1.4	0.0	1.4	107.7	148.2	0.0	0.0	538.9
1987	269.6	0.0	269.6	27.6	0.7	1.9	0.0	2.6	145.0	103.7	0.0	0.0	548.5
1988	296.7	0.0	296.7	26.2	0.1	1.1	0.0	1.3	246.4	79.5	0.0	0.0	650.2
1989	342.9	0.0	342.9	52.6	0.9	1.2	0.0	2.2	84.2	81.4	0.0	0.0	563.2

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 33. Energy Consumption Estimates by Source, 1960-1989, Arkansas

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**14**	**215**	**1,003**	**177**	**2,021**	**2,237**	**565**	**4,823**	**543**	**14,675**	**539**	**1,860**	**28,442**	**0**	**992**	**0**	**0**	**2,208**	
1961	11	208	1,036	165	3,067	2,227	184	5,155	528	15,290	309	2,656	30,616	0	1,395	0	0	1,511	
1962	6	228	1,139	347	2,429	2,397	125	5,276	426	16,231	641	2,816	31,827	0	1,061	0	0	2,155	
1963	5	253	1,133	400	2,538	2,458	207	5,130	426	16,891	940	2,914	33,036	0	493	0	0	4,938	
1964	7	278	1,181	435	3,336	2,568	399	6,355	447	17,215	782	2,627	35,346	0	561	0	0	6,264	
1965	**6**	**277**	**1,295**	**482**	**2,828**	**2,094**	**386**	**5,599**	**468**	**17,922**	**453**	**2,731**	**34,256**	**0**	**1,080**	**0**	**0**	**7,475**	
1966	4	289	1,689	440	3,174	2,241	782	6,565	486	18,663	413	2,844	37,297	0	1,587	0	0	8,852	
1967	4	295	1,785	373	3,209	2,500	480	6,807	416	19,324	521	2,886	38,300	0	1,228	0	0	16,042	
1968	5	322	2,015	338	4,072	2,870	415	8,064	457	20,521	666	2,770	42,189	0	3,005	0	0	8,465	
1969	0	350	2,031	323	4,624	2,561	773	10,081	522	21,495	514	3,017	45,940	0	2,883	0	0	8,613	
1970	**0**	**382**	**2,104**	**293**	**5,462**	**2,204**	**821**	**10,198**	**531**	**22,457**	**935**	**2,675**	**47,680**	**0**	**2,160**	**0**	**0**	**6,464**	
1971	2	334	2,381	287	5,494	2,292	604	10,777	505	23,752	2,957	3,338	52,388	0	1,804	0	0	12,728	
1972	2	316	2,410	314	7,957	2,181	534	12,029	541	25,732	5,643	2,961	60,302	0	1,644	0	0	18,305	
1973	97	328	2,600	293	9,892	2,012	1,065	10,790	593	26,924	9,593	3,142	66,903	0	4,252	0	0	16,730	
1974	115	290	2,441	295	10,310	2,031	751	9,905	568	27,005	10,532	3,007	66,845	361	4,271	0	0	19,692	
1975	**40**	**258**	**2,276**	**254**	**9,566**	**1,995**	**688**	**9,467**	**616**	**27,611**	**9,086**	**3,034**	**64,594**	**4,874**	**3,433**	**0**	**0**	**18,078**	
1976	167	249	2,452	244	10,147	1,906	631	9,716	684	29,095	13,262	3,257	71,395	3,858	2,022	0	0	30,862	
1977	248	230	2,502	259	11,793	2,029	933	9,035	700	29,778	17,843	3,923	78,794	5,085	1,791	0	0	29,203	
1978	1,273	221	2,655	272	12,289	1,920	1,169	6,759	751	30,615	17,218	3,899	77,546	5,220	2,421	0	0	26,393	
1979	1,796	251	3,208	252	14,558	1,921	488	5,040	786	24,833	11,552	4,042	66,680	3,873	3,375	0	0	31,178	
1980	**2,076**	**274**	**2,770**	**275**	**10,686**	**2,035**	**571**	**4,847**	**700**	**26,490**	**4,981**	**4,070**	**57,426**	**7,833**	**1,695**	**0**	**0**	**28,164**	
1981	5,914	265	2,110	249	13,103	1,747	355	3,763	671	26,306	2,611	3,985	54,900	9,075	1,235	0	0	225	
1982	7,254	227	1,915	193	13,111	2,011	509	4,082	612	25,946	1,749	3,250	53,378	7,482	2,106	0	0	188	
1983	10,065	207	1,832	200	13,134	1,604	2,873	4,106	641	25,993	763	2,662	53,810	7,646	3,315	0	0	-15,421	
1984	9,435	210	757	113	13,930	2,016	2,897	4,027	684	27,334	1,039	3,137	55,933	10,808	2,723	0	0	-14,013	
1985	**12,682**	**196**	**1,263**	**86**	**14,911**	**2,030**	**1,464**	**4,200**	**637**	**26,718**	**2,453**	**2,298**	**56,060**	**9,889**	**4,434**	**0**	**0**	**-30,661**	
1986	12,849	199	982	111	13,270	1,919	693	3,988	623	27,901	6,452	1,555	57,492	8,876	2,813	0	0	-33,475	
1987	12,066	170	1,018	92	13,453	2,063	688	3,612	704	28,509	2,664	1,640	54,443	11,369	2,407	0	0	-33,372	
1988	12,555	217	1,373	100	14,181	2,221	927	3,889	679	29,578	1,890	1,721	56,560	8,895	2,785	0	0	-23,913	
1989	11,547	250	778	103	14,522	1,938	475	4,856	697	29,395	3,298	1,711	57,773	8,844	3,084	0	0	-19,473	
									Trillion Btu										
1960	**0.4**	**222.2**	**6.7**	**0.9**	**11.8**	**12.0**	**3.2**	**19.3**	**3.3**	**77.1**	**3.4**	**11.2**	**148.8**	**0.0**	**10.7**	**0.0**	**0.0**	**7.5**	**389.6**
1961	0.3	215.3	6.9	0.8	17.9	11.9	1.0	20.7	3.2	80.3	1.9	16.0	160.7	0.0	14.9	0.0	0.0	5.2	396.2
1962	0.2	235.5	7.6	1.8	14.1	12.8	0.7	21.2	2.6	85.3	4.0	16.9	167.0	0.0	11.2	0.0	0.0	7.4	421.2
1963	0.1	252.8	7.5	2.0	14.8	13.2	1.2	20.6	2.6	88.7	5.9	17.5	174.0	0.0	5.2	0.0	0.0	16.8	449.0
1964	0.2	278.9	7.8	2.2	19.4	13.8	2.3	25.5	2.7	90.4	4.9	15.8	184.8	0.0	5.9	0.0	0.0	21.4	491.1
1965	**0.2**	**277.7**	**6.6**	**2.4**	**16.5**	**11.2**	**2.2**	**22.5**	**2.8**	**94.1**	**2.8**	**16.4**	**179.6**	**0.0**	**11.3**	**0.0**	**0.0**	**25.5**	**494.2**
1966	0.1	289.6	11.2	2.2	18.5	12.0	4.4	26.3	2.9	98.0	2.6	17.1	195.4	0.0	16.5	0.0	0.0	30.2	531.9
1967	0.1	295.8	11.8	1.9	18.7	13.4	2.7	26.1	2.5	101.5	3.3	17.4	199.4	0.0	12.8	0.0	0.0	54.7	562.8
1968	0.1	321.6	13.4	1.7	23.7	15.4	2.4	30.8	2.8	107.8	4.2	16.7	218.8	0.0	31.2	0.0	0.0	28.9	600.6
1969	0.0	350.0	13.5	1.6	26.9	13.8	4.4	38.4	3.2	112.9	3.2	18.1	236.0	0.0	30.1	0.0	0.0	29.4	645.5
1970	**0.0**	**383.5**	**14.0**	**1.5**	**31.8**	**11.9**	**4.7**	**38.5**	**3.2**	**118.0**	**5.9**	**16.1**	**245.5**	**0.0**	**22.7**	**0.0**	**0.0**	**22.1**	**673.7**
1971	0.1	335.0	15.8	1.4	32.0	12.4	3.4	40.7	3.1	124.8	18.6	19.6	271.7	0.0	18.9	0.0	0.0	43.4	669.1
1972	0.1	317.6	16.0	1.6	46.4	11.8	3.0	45.2	3.3	135.2	35.5	17.3	315.2	0.0	17.1	0.0	0.0	62.5	712.4
1973	2.3	327.5	17.3	1.5	57.6	10.9	6.0	40.4	3.6	141.4	60.3	18.4	357.4	0.0	44.2	0.0	0.0	57.1	788.4
1974	2.7	290.1	16.2	1.5	60.1	11.0	4.3	36.9	3.4	141.9	66.2	17.5	359.0	4.0	44.6	0.0	0.0	67.2	767.5
1975	**0.9**	**257.4**	**15.1**	**1.3**	**55.7**	**10.8**	**3.9**	**35.2**	**3.7**	**145.0**	**57.1**	**17.7**	**345.6**	**53.7**	**35.7**	**0.0**	**0.0**	**61.7**	**755.0**
1976	3.6	248.2	16.3	1.2	59.1	10.3	3.6	36.1	4.2	152.8	83.4	18.9	385.9	42.6	21.0	0.0	0.0	105.3	806.5
1977	5.2	234.4	16.6	1.3	68.7	11.0	5.3	33.2	4.2	156.4	112.2	22.9	431.8	54.8	18.7	0.0	0.0	99.6	844.5
1978	22.8	220.9	17.6	1.4	71.6	10.4	6.6	24.8	4.6	160.8	108.2	22.7	428.7	57.1	25.1	0.0	0.0	90.1	844.7
1979	31.7	255.0	21.3	1.3	84.8	10.4	2.8	18.5	4.8	130.4	72.6	23.2	370.1	42.1	34.9	0.0	0.0	106.4	840.3
1980	**36.6**	**274.0**	**18.4**	**1.4**	**62.2**	**11.0**	**3.2**	**17.8**	**4.2**	**139.1**	**31.3**	**23.1**	**312.0**	**85.4**	**17.6**	**0.0**	**0.0**	**96.1**	**821.7**
1981	101.9	265.1	14.0	1.3	76.3	9.5	2.0	13.7	4.1	138.2	16.4	22.9	298.3	100.1	12.9	0.0	0.0	0.8	779.1
1982	125.2	227.4	12.7	1.0	76.4	10.9	2.9	14.8	3.7	136.3	11.0	18.7	288.4	82.9	22.0	0.0	0.0	0.6	746.5
1983	177.5	211.7	12.2	1.0	76.5	8.7	16.3	14.8	3.9	136.5	4.8	15.5	290.2	83.4	34.9	0.0	0.0	-52.6	745.0
1984	163.9	214.4	5.0	0.6	81.1	10.9	16.4	14.5	4.1	143.6	6.5	17.9	300.8	117.2	28.1	0.0	0.0	-47.8	776.6
1985	**219.8**	**199.3**	**8.4**	**0.4**	**86.9**	**11.0**	**8.3**	**15.1**	**3.9**	**140.4**	**15.4**	**13.0**	**302.8**	**106.9**	**45.8**	**0.0**	**0.0**	**-104.6**	**770.1**
1986	224.5	203.0	6.5	0.6	77.3	10.4	3.9	14.5	3.8	146.6	40.6	9.0	313.2	95.9	28.9	0.0	0.0	-114.2	751.2
1987	211.0	172.3	6.8	0.5	78.4	11.3	3.9	13.2	4.3	149.8	16.7	9.4	294.1	122.5	24.7	0.0	0.0	-113.9	710.8
1988	218.8	218.8	9.1	0.5	82.6	12.2	5.3	14.2	4.1	155.4	11.9	9.9	305.1	95.6	28.5	0.0	0.0	-81.6	785.2
1989	202.7	251.2	5.2	0.5	84.6	10.6	2.7	17.9	4.2	154.4	20.7	9.8	310.6	94.8	31.9	0.0	0.0	-66.4	824.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 34. Residential Energy Consumption Estimates, 1960–1989, Arkansas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**0**	**0**	**0**	**33**	**24**	**62**	**2,831**	**2,918**	**1,339**	**3,331**		
1961	0	0	0	34	46	29	3,026	3,101	1,375	3,352		
1962	0	0	0	34	41	18	3,157	3,217	1,621	3,898		
1963	0	0	0	37	24	37	3,031	3,092	1,828	4,371		
1964	0	0	0	41	48	55	3,569	3,672	2,092	4,982		
1965	**0**	**0**	**0**	**37**	**43**	**63**	**3,420**	**3,527**	**2,333**	**5,571**		
1966	0	0	0	52	31	114	4,316	4,461	2,571	6,170		
1967	0	0	0	53	36	47	4,629	4,712	2,773	6,624		
1968	0	0	0	56	44	81	5,288	5,414	3,251	7,757		
1969	0	0	0	58	59	142	6,440	6,641	3,793	9,060		
1970	**0**	**0**	**0**	**60**	**70**	**147**	**6,552**	**6,769**	**4,321**	**10,472**		
1971	0	0	0	49	69	110	6,960	7,139	4,737	11,453		
1972	0	0	0	47	153	80	7,564	7,797	5,483	13,198		
1973	0	0	0	49	161	237	6,779	7,177	6,142	14,703		
1974	0	0	0	44	214	162	5,974	6,349	6,082	14,831		
1975	**0**	**0**	**0**	**49**	**161**	**128**	**5,162**	**5,451**	**7,751**	**18,697**		
1976	0	0	0	49	191	120	5,459	5,770	7,746	18,659		
1977	1	0	1	49	231	178	5,281	5,690	8,816	21,288		
1978	1	0	1	48	224	231	3,701	4,155	9,322	22,806		
1979	0	0	0	50	416	73	2,800	3,289	8,862	21,387		
1980	**2**	**0**	**2**	**47**	**152**	**0**	**2,142**	**2,294**	**10,227**	**24,869**		
1981	*	0	*	43	20	42	1,739	1,801	8,426	20,082		
1982	1	0	1	45	14	51	1,653	1,718	8,617	20,696		
1983	*	0	*	43	1	883	1,966	2,850	8,798	21,077		
1984	1	0	1	46	1	777	2,399	3,176	8,764	20,350		
1985	*	**0**	*	**40**	**1**	**290**	**2,397**	**2,688**	**8,936**	**20,955**		
1986	0	0	0	39	1	339	2,450	2,790	9,254	21,217		
1987	*	0	*	40	2	335	2,022	2,358	9,708	22,124		
1988	*	0	*	43	1	463	2,120	2,584	9,946	22,460		
1989	1	0	1	42	1	295	2,663	2,959	9,957	22,335		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**0.0**	**0.0**	**0.0**	**34.4**	**0.1**	**0.4**	**11.4**	**11.9**	**4.6**	**50.8**	**11.4**	**62.2**
1961	0.0	0.0	0.0	35.0	0.3	0.2	12.1	12.6	4.7	52.2	11.4	63.7
1962	0.0	0.0	0.0	34.9	0.2	0.1	12.7	13.0	5.5	53.4	13.3	66.7
1963	0.0	0.0	0.0	37.3	0.1	0.2	12.2	12.5	6.2	56.1	14.9	71.0
1964	0.0	0.0	0.0	41.4	0.3	0.3	14.3	14.9	7.1	63.5	17.0	80.5
1965	**0.0**	**0.0**	**0.0**	**36.5**	**0.3**	**0.4**	**13.7**	**14.3**	**8.0**	**58.8**	**19.0**	**77.8**
1966	0.0	0.0	0.0	51.9	0.2	0.6	17.3	18.1	8.8	78.8	21.1	99.9
1967	0.0	0.0	0.0	52.8	0.2	0.3	17.8	18.2	9.5	80.5	22.6	103.1
1968	0.0	0.0	0.0	56.3	0.3	0.5	20.2	20.9	11.1	88.3	26.5	114.8
1969	0.0	0.0	0.0	58.3	0.3	0.8	24.5	25.7	12.9	96.9	30.9	127.8
1970	**0.0**	**0.0**	**0.0**	**60.0**	**0.4**	**0.8**	**24.8**	**26.0**	**14.7**	**100.8**	**35.7**	**136.5**
1971	0.0	0.0	0.0	48.9	0.4	0.6	26.3	27.3	16.2	92.4	39.1	131.5
1972	0.0	0.0	0.0	47.4	0.9	0.5	28.4	29.8	18.7	95.9	45.0	140.9
1973	0.0	0.0	0.0	48.8	0.9	1.3	25.4	27.7	21.0	97.4	50.2	147.6
1974	0.0	0.0	0.0	44.0	1.2	0.9	22.3	24.4	20.8	89.2	50.6	139.8
1975	**0.0**	**0.0**	**0.0**	**48.3**	**0.9**	**0.7**	**19.2**	**20.8**	**26.4**	**95.6**	**63.8**	**159.4**
1976	0.0	0.0	0.0	49.1	1.1	0.7	20.3	22.0	26.4	97.6	63.7	161.3
1977	*	0.0	*	50.0	1.3	1.0	19.4	21.8	30.1	101.9	72.6	174.5
1978	*	0.0	*	47.9	1.3	1.3	13.6	16.2	31.8	95.9	77.8	173.7
1979	0.0	0.0	0.0	50.7	2.4	0.4	10.3	13.1	30.2	94.1	73.0	167.0
1980	**0.1**	**0.0**	**0.1**	**46.6**	**0.9**	**0.0**	**7.9**	**8.8**	**34.9**	**90.3**	**84.9**	**175.1**
1981	*	0.0	*	42.6	0.1	0.2	6.3	6.7	28.8	78.0	68.5	146.6
1982	*	0.0	*	44.7	0.1	0.3	6.0	6.3	29.4	80.5	70.6	151.1
1983	*	0.0	*	43.7	*	5.0	7.1	12.1	30.0	85.8	71.9	157.7
1984	*	0.0	*	46.8	*	4.4	8.6	13.0	29.9	89.7	69.4	159.2
1985	*	**0.0**	*	**40.9**	*	**1.6**	**8.6**	**10.3**	**30.5**	**81.6**	**71.5**	**153.1**
1986	0.0	0.0	0.0	39.0	*	1.9	8.9	10.8	31.6	81.5	72.4	153.9
1987	*	0.0	*	40.6	*	1.9	7.4	9.3	33.1	83.0	75.5	158.5
1988	*	0.0	*	43.2	*	2.6	7.7	10.4	33.9	87.5	76.6	164.1
1989	*	0.0	*	42.5	*	1.7	9.8	11.5	34.0	88.0	76.2	164.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 35. Commercial Energy Consumption Estimates, 1960-1989, Arkansas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**0**	**0**	**0**	**17**	**14**	**38**	**500**	**151**	**103**	**806**	**1,161**	**2,888**		
1961	0	0	0	18	26	18	534	153	60	792	1,197	2,918		
1962	0	0	0	20	23	11	557	141	113	846	1,345	3,234		
1963	0	0	0	23	14	23	535	146	104	822	1,484	3,548		
1964	0	0	0	24	28	34	630	118	97	907	1,651	3,932		
1965	**0**	**0**	**0**	**28**	**24**	**39**	**604**	**127**	**88**	**883**	**1,834**	**4,379**		
1966	0	0	0	33	18	70	762	121	78	1,048	1,984	4,761		
1967	0	0	0	35	20	29	817	305	100	1,272	2,125	5,076		
1968	0	0	0	38	25	50	933	187	115	1,310	2,352	5,612		
1969	0	0	0	40	34	87	1,137	186	35	1,478	2,577	6,156		
1970	**0**	**0**	**0**	**39**	**40**	**90**	**1,156**	**181**	**41**	**1,508**	**2,789**	**6,760**		
1971	0	0	0	31	39	68	1,228	135	41	1,512	2,982	7,209		
1972	0	0	0	32	87	49	1,335	130	209	1,810	3,215	7,739		
1973	0	0	0	34	92	146	1,196	131	473	2,039	3,460	8,284		
1974	0	0	0	31	122	100	1,054	128	840	2,243	3,438	8,383		
1975	**0**	**0**	**0**	**33**	**92**	**79**	**911**	**143**	**1,077**	**2,302**	**4,382**	**10,570**		
1976	0	0	0	34	109	74	963	146	1,129	2,421	4,491	10,819		
1977	2	0	2	34	131	110	932	143	979	2,295	4,839	11,686		
1978	3	0	3	35	127	142	653	178	892	1,993	5,058	12,374		
1979	0	0	0	33	237	45	494	180	943	1,898	5,001	12,069		
1980	**4**	**0**	**4**	**31**	**112**	**132**	**378**	**162**	**437**	**1,221**	**5,326**	**12,951**		
1981	*	0	*	28	176	57	307	172	149	860	4,814	11,473		
1982	1	0	1	29	139	76	292	167	141	814	5,034	12,091		
1983	*	0	*	28	1,516	1,719	347	132	113	3,827	5,099	12,216		
1984	3	0	3	29	1,489	1,886	423	91	164	4,053	5,592	12,985		
1985	**1**	**0**	**1**	**27**	**1,172**	**787**	**423**	**119**	**0**	**2,502**	**5,848**	**13,713**		
1986	0	0	0	25	186	88	432	117	25	849	5,915	13,562		
1987	*	0	*	25	359	76	357	130	0	922	6,131	13,972		
1988	*	0	*	27	254	175	374	124	0	927	6,396	14,444		
1989	2	0	2	27	440	19	470	108	0	1,037	6,566	14,728		
	Trillion Btu													
1960	**0.0**	**0.0**	**0.0**	**17.8**	**0.1**	**0.2**	**2.0**	**0.8**	**0.6**	**3.7**	**4.0**	**25.5**	**9.9**	**35.3**
1961	0.0	0.0	0.0	18.5	0.2	0.1	2.1	0.8	0.4	3.6	4.1	26.1	10.0	36.1
1962	0.0	0.0	0.0	20.8	0.1	0.1	2.2	0.7	0.7	3.9	4.6	29.3	11.0	40.3
1963	0.0	0.0	0.0	22.7	0.1	0.1	2.1	0.8	0.7	3.8	5.1	31.5	12.1	43.6
1964	0.0	0.0	0.0	24.0	0.2	0.2	2.5	0.6	0.6	4.1	5.6	33.7	13.4	47.2
1965	**0.0**	**0.0**	**0.0**	**28.0**	**0.1**	**0.2**	**2.4**	**0.7**	**0.6**	**4.0**	**6.3**	**38.2**	**14.9**	**53.2**
1966	0.0	0.0	0.0	32.8	0.1	0.4	3.1	0.6	0.5	4.7	6.8	44.2	16.2	60.5
1967	0.0	0.0	0.0	35.3	0.1	0.2	3.1	1.6	0.6	5.7	7.2	48.2	17.3	65.6
1968	0.0	0.0	0.0	37.9	0.1	0.3	3.6	1.0	0.7	5.7	8.0	51.6	19.1	70.8
1969	0.0	0.0	0.0	40.0	0.2	0.5	4.3	1.0	0.2	6.2	8.8	55.0	21.0	76.0
1970	**0.0**	**0.0**	**0.0**	**39.3**	**0.2**	**0.5**	**4.4**	**0.9**	**0.3**	**6.3**	**9.5**	**55.2**	**23.1**	**78.2**
1971	0.0	0.0	0.0	31.0	0.2	0.4	4.6	0.7	0.3	6.2	10.2	47.3	24.6	71.9
1972	0.0	0.0	0.0	32.5	0.5	0.3	5.0	0.7	1.3	7.8	11.0	51.2	26.4	77.6
1973	0.0	0.0	0.0	33.7	0.5	0.8	4.5	0.7	3.0	9.5	11.8	55.0	28.3	83.3
1974	0.0	0.0	0.0	30.9	0.7	0.6	3.9	0.7	5.3	11.2	11.7	53.8	28.6	82.4
1975	**0.0**	**0.0**	**0.0**	**33.1**	**0.5**	**0.4**	**3.4**	**0.8**	**6.8**	**11.9**	**15.0**	**60.0**	**36.1**	**96.0**
1976	0.0	0.0	0.0	33.9	0.6	0.4	3.6	0.8	7.1	12.5	15.3	61.7	36.9	98.6
1977	*	0.0	*	34.6	0.8	0.6	3.4	0.8	6.2	11.7	16.5	62.9	39.9	102.7
1978	0.1	0.0	0.1	34.6	0.7	0.8	2.4	0.9	5.6	10.5	17.3	62.4	42.2	104.6
1979	0.0	0.0	0.0	34.0	1.4	0.3	1.8	0.9	5.9	10.3	17.1	61.4	41.2	102.5
1980	**0.1**	**0.0**	**0.1**	**30.5**	**0.6**	**0.7**	**1.4**	**0.9**	**2.7**	**6.4**	**18.2**	**55.2**	**44.2**	**99.4**
1981	*	0.0	*	28.1	1.0	0.3	1.1	0.9	0.9	4.3	16.4	48.9	39.1	88.0
1982	*	0.0	*	29.3	0.8	0.4	1.1	0.9	0.9	4.1	17.2	50.6	41.3	91.9
1983	*	0.0	*	28.3	8.8	9.7	1.3	0.7	0.7	21.2	17.4	67.0	41.7	108.6
1984	0.1	0.0	0.1	29.5	8.7	10.7	1.5	0.5	1.0	22.4	19.1	71.1	44.3	115.4
1985	*	**0.0**	*	**27.2**	**6.8**	**4.5**	**1.5**	**0.6**	**0.0**	**13.4**	**20.0**	**60.6**	**46.8**	**107.4**
1986	0.0	0.0	0.0	25.3	1.1	0.5	1.6	0.6	0.2	3.9	20.2	49.4	46.3	95.7
1987	*	0.0	*	24.9	2.1	0.4	1.3	0.7	0.0	4.5	20.9	50.3	47.7	98.0
1988	*	0.0	*	27.6	1.5	1.0	1.4	0.7	0.0	4.5	21.8	54.0	49.3	103.2
1989	0.1	0.0	0.1	27.4	2.6	0.1	1.7	0.6	0.0	5.0	22.4	54.8	50.3	105.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 36. Industrial Energy Consumption Estimates, 1960-1989, Arkansas

Year	Coal: Bituminous Coal and Lignite (Thousand Short Tons)	Coal: Anthracite (Thousand Short Tons)	Coal: Total (Thousand Short Tons)	Natural Gas[1] (Billion Cubic Feet)	Petroleum: Asphalt and Road Oil (Thousand Barrels)	Petroleum: Distillate Fuel (Thousand Barrels)	Petroleum: Kerosene (Thousand Barrels)	Petroleum: LPG[2] (Thousand Barrels)	Petroleum: Lubricants (Thousand Barrels)	Petroleum: Motor Gasoline (Thousand Barrels)	Petroleum: Residual Fuel (Thousand Barrels)	Petroleum: Other (Thousand Barrels)	Petroleum: Total (Thousand Barrels)	Industrial Hydro-Power (Million Kilowatthours)	Electricity (Million Kilowatthours)	Electrical System Energy Losses[3] (Million Kilowatthours)
1960	14	0	14	108	1,003	1,055	465	1,183	269	431	315	1,860	6,581	0	3,161	7,864
1961	11	0	11	105	1,036	971	136	1,224	262	456	189	2,656	6,928	0	2,923	7,125
1962	6	0	6	112	1,139	1,173	96	1,179	114	498	402	2,816	7,416	0	3,345	8,042
1963	5	0	5	125	1,133	767	147	1,162	114	511	675	2,914	7,424	0	3,716	8,887
1964	7	0	7	136	1,181	1,279	310	1,617	119	490	625	2,627	8,249	0	4,313	10,271
1965	6	0	6	134	1,295	1,057	283	1,141	163	485	291	2,731	7,446	0	4,883	11,660
1966	4	0	4	127	1,689	1,105	597	1,034	169	433	256	2,844	8,128	0	5,259	12,620
1967	4	0	4	142	1,785	1,255	404	906	150	524	331	2,886	8,241	0	5,621	13,429
1968	5	0	5	142	2,015	1,318	284	1,295	165	367	390	2,770	8,605	0	5,975	14,256
1969	0	0	0	155	2,031	1,571	544	1,837	227	295	144	3,017	9,667	0	6,254	14,939
1970	0	0	0	162	2,104	1,962	584	1,798	231	291	191	2,675	9,836	0	6,333	15,346
1971	2	0	2	156	2,381	1,885	426	1,755	229	260	198	3,338	10,472	0	6,546	15,827
1972	2	0	2	151	2,410	2,869	405	2,202	245	250	882	2,961	12,224	0	6,949	16,727
1973	97	0	97	181	2,600	3,199	682	2,050	267	194	1,993	3,142	14,126	0	7,269	17,402
1974	115	0	115	162	2,441	3,247	490	2,204	255	125	2,932	3,007	14,700	0	7,397	18,035
1975	40	0	40	132	2,276	2,841	480	2,715	308	169	3,634	3,034	15,457	0	5,994	14,459
1976	167	0	167	140	2,452	3,190	438	2,504	342	113	3,550	3,257	15,844	0	8,338	20,086
1977	245	0	245	131	2,502	4,431	645	2,042	268	11	3,079	3,923	16,902	0	9,341	22,556
1978	310	0	310	120	2,655	4,640	796	1,661	288	0	2,822	3,899	16,761	0	9,614	23,521
1979	345	0	345	125	3,208	6,399	370	1,697	301	7	2,901	4,042	18,925	0	10,854	26,194
1980	296	0	296	126	2,770	3,544	439	2,122	268	51	1,438	4,070	14,704	0	10,946	26,617
1981	358	0	358	129	2,110	4,612	256	1,500	257	39	1,742	3,985	14,501	0	10,055	23,963
1982	350	0	350	111	1,915	4,538	382	1,810	234	25	1,493	3,250	13,647	0	8,627	20,720
1983	436	0	436	96	1,832	4,993	271	1,405	245	16	600	2,662	12,025	0	9,301	22,284
1984	396	0	396	100	757	4,903	235	1,032	262	485	871	3,137	11,683	0	10,235	23,768
1985	379	0	379	109	1,263	6,041	387	1,242	244	630	2,445	2,298	14,549	0	9,049	21,220
1986	344	0	344	101	982	5,257	266	1,026	238	482	6,378	1,555	16,184	0	7,763	17,798
1987	302	0	302	67	1,018	4,662	278	1,160	270	469	2,664	1,640	12,159	0	8,358	19,048
1988	260	0	260	117	1,373	4,970	289	1,319	260	452	1,754	1,721	12,140	0	8,831	19,943
1989	265	2	267	141	778	3,623	160	1,649	267	358	3,164	1,711	11,710	0	9,562	21,448

Trillion Btu

Year	Bituminous Coal and Lignite	Anthracite	Coal Total	Natural Gas[1]	Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Petroleum Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
1960	0.4	0.0	0.4	112.1	6.7	6.1	2.6	4.7	1.6	2.3	2.0	11.2	37.2	0.0	10.8	160.5	26.8	187.3
1961	0.3	0.0	0.3	108.3	6.9	5.7	0.8	4.9	1.6	2.4	1.2	16.0	39.3	0.0	10.0	157.9	24.3	182.2
1962	0.2	0.0	0.2	115.9	7.6	6.8	0.5	4.7	0.7	2.6	2.5	16.9	42.4	0.0	11.4	169.9	27.4	197.3
1963	0.1	0.0	0.1	124.9	7.5	4.5	0.8	4.7	0.7	2.7	4.2	17.5	42.6	0.0	12.7	180.4	30.3	210.7
1964	0.2	0.0	0.2	136.7	7.8	7.5	1.8	6.5	0.7	2.6	3.9	15.8	46.6	0.0	14.7	198.2	35.0	233.2
1965	0.2	0.0	0.2	134.2	8.6	6.2	1.6	4.6	1.0	2.5	1.8	16.4	42.7	0.0	16.7	193.8	39.8	233.5
1966	0.1	0.0	0.1	126.8	11.2	6.4	3.4	4.1	1.0	2.3	1.6	17.1	47.2	0.0	17.9	192.1	43.1	235.1
1967	0.1	0.0	0.1	141.8	11.8	7.3	2.3	3.5	0.9	2.8	2.1	17.4	48.0	0.0	19.2	209.1	45.8	254.9
1968	0.1	0.0	0.1	142.4	13.4	7.7	1.6	4.9	1.0	1.9	2.5	16.7	49.6	0.0	20.4	212.6	48.6	261.2
1969	0.0	0.0	0.0	155.0	13.5	9.2	3.1	7.0	1.4	1.5	0.9	18.1	54.7	0.0	21.3	231.0	51.0	282.0
1970	0.0	0.0	0.0	162.8	14.0	11.4	3.3	6.8	1.4	1.5	1.2	16.1	55.7	0.0	21.6	240.1	52.4	292.4
1971	0.1	0.0	0.1	156.5	15.8	11.0	2.4	6.6	1.4	1.4	1.2	19.6	59.4	0.0	22.3	238.4	54.0	292.4
1972	0.1	0.0	0.1	151.1	16.0	16.7	2.3	8.3	1.5	1.3	5.5	17.3	68.9	0.0	23.7	243.8	57.1	300.8
1973	2.3	0.0	2.3	180.3	17.3	18.6	3.9	7.7	1.6	1.0	12.5	18.4	81.0	0.0	24.8	288.4	59.4	347.7
1974	2.7	0.0	2.7	161.6	16.2	18.9	2.8	8.2	1.5	0.7	18.4	17.5	84.3	0.0	25.2	273.7	61.5	335.3
1975	0.9	0.0	0.9	131.7	15.1	16.5	2.7	10.1	1.9	0.9	22.8	17.7	87.8	0.0	20.5	240.8	49.3	290.1
1976	3.6	0.0	3.6	139.6	16.3	18.6	2.5	9.3	2.1	0.6	22.3	18.9	90.5	0.0	28.5	262.2	68.5	330.7
1977	5.2	0.0	5.2	133.3	16.6	25.8	3.7	7.5	1.6	0.1	19.4	22.9	97.5	0.0	31.9	267.8	77.0	344.8
1978	6.6	0.0	6.6	119.8	17.6	27.0	4.5	6.1	1.7	0.0	17.7	22.7	97.4	0.0	32.8	256.7	80.3	336.9
1979	7.3	0.0	7.3	126.8	21.3	37.3	2.1	6.2	1.8	*	18.2	23.2	110.2	0.0	37.0	281.4	89.4	370.8
1980	6.3	0.0	6.3	125.1	18.4	20.6	2.5	7.8	1.6	0.3	9.0	23.1	83.4	0.0	37.3	252.2	90.8	343.0
1981	7.7	0.0	7.7	128.5	14.0	26.9	1.5	5.5	1.6	0.2	10.9	22.9	83.4	0.0	34.3	253.9	81.8	335.6
1982	7.5	0.0	7.5	110.2	12.7	26.4	2.2	6.5	1.4	0.1	9.4	18.7	77.5	0.0	29.4	224.7	70.7	295.4
1983	9.3	0.0	9.3	97.6	12.2	29.1	1.5	5.1	1.5	0.1	3.8	15.5	68.7	0.0	31.7	207.4	76.0	283.4
1984	8.5	0.0	8.5	101.6	5.0	28.6	1.3	3.7	1.6	2.6	5.5	17.9	66.2	0.0	34.9	211.2	81.1	292.3
1985	8.1	0.0	8.1	110.9	8.4	35.2	2.2	4.5	1.5	3.3	15.4	13.0	83.4	0.0	30.9	233.3	72.4	305.7
1986	7.7	0.0	7.7	102.7	6.5	30.6	1.5	3.7	1.4	2.5	40.1	9.0	95.5	0.0	26.5	232.3	60.7	293.0
1987	6.7	0.0	6.7	68.0	6.8	27.2	1.6	4.2	1.6	2.5	16.7	9.4	69.9	0.0	28.5	173.2	65.0	238.1
1988	5.8	0.0	5.8	117.7	9.1	29.0	1.6	4.8	1.6	2.4	11.0	9.9	69.4	0.0	30.1	223.0	68.0	291.0
1989	5.9	0.1	6.0	141.6	5.2	21.1	0.9	6.1	1.6	1.9	19.9	9.8	66.4	0.0	32.6	246.6	73.2	319.8

[1] Includes supplemental gaseous fuels.

[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.

[3] *Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.*

[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 37. Transportation Energy Consumption Estimates, 1960-1989, Arkansas

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	*	9	177	926	2,237	309	274	14,093	3	18,019	0	0		
1961	*	9	165	2,023	2,227	372	267	14,680	0	19,733	0	0		
1962	*	9	347	1,190	2,397	383	312	15,592	37	20,258	0	0		
1963	*	10	400	1,731	2,458	402	312	16,234	0	21,536	0	0		
1964	*	11	435	1,980	2,568	540	328	16,607	0	22,457	0	0		
1965	*	11	482	1,703	2,094	434	305	17,310	36	22,364	0	0		
1966	*	11	440	2,020	2,241	454	317	18,109	28	23,608	0	0		
1967	*	12	373	1,898	2,500	455	265	18,495	38	24,024	0	0		
1968	*	12	338	2,683	2,870	547	291	19,967	5	26,703	0	0		
1969	0	12	323	2,957	2,561	667	294	21,014	8	27,824	0	0		
1970	0	13	293	3,383	2,204	692	300	21,985	5	28,862	0	0		
1971	*	12	287	3,473	2,292	634	277	23,357	0	30,520	0	0		
1972	*	13	314	4,813	2,181	928	296	25,352	0	33,885	0	0		
1973	*	15	293	6,423	2,012	765	326	26,599	7	36,426	0	0		
1974	*	14	295	6,703	2,031	673	312	26,753	13	36,780	0	0		
1975	*	12	254	6,410	1,995	679	308	27,299	11	36,957	0	0		
1976	*	9	244	6,609	1,906	790	343	28,836	0	38,728	0	0		
1977	*	9	259	6,837	2,029	780	432	29,623	4	39,964	0	0		
1978	0	11	272	7,026	1,920	744	464	30,437	8	40,871	0	0		
1979	0	12	252	7,421	1,921	49	485	24,646	0	34,774	0	0		
1980	0	11	275	6,699	2,035	205	432	26,276	0	35,922	0	0		
1981	0	10	249	8,262	1,747	217	414	26,096	0	36,985	0	0		
1982	0	9	193	8,390	2,011	326	378	25,754	0	37,052	0	0		
1983	0	8	200	6,578	1,604	387	396	25,846	0	35,011	0	0		
1984	0	10	113	7,522	2,016	173	422	26,757	0	37,002	0	0		
1985	0	8	86	7,685	2,030	137	393	25,969	0	36,301	0	0		
1986	0	6	111	7,812	1,919	79	384	27,302	0	37,608	0	0		
1987	0	6	92	8,420	2,063	73	435	27,910	0	38,994	0	0		
1988	0	8	100	8,825	2,221	76	419	29,002	0	40,643	0	0		
1989	0	10	103	10,315	1,938	74	430	28,929	0	41,790	0	0		
							Trillion Btu					Net Energy[4]		Total[4]
1960	*	9.5	0.9	5.4	12.0	1.2	1.7	74.0	*	95.2	0.0	104.7	0.0	104.7
1961	*	9.5	0.8	11.8	11.9	1.5	1.6	77.1	0.0	104.8	0.0	114.3	0.0	114.3
1962	*	9.7	1.8	6.9	12.8	1.5	1.9	81.9	0.2	107.1	0.0	116.8	0.0	116.8
1963	*	9.6	2.0	10.1	13.2	1.6	1.9	85.3	0.0	114.0	0.0	123.7	0.0	123.7
1964	*	11.4	2.2	11.5	13.8	2.2	2.0	87.2	0.0	118.9	0.0	130.3	0.0	130.3
1965	*	11.4	2.4	9.9	11.2	1.7	1.8	90.9	0.2	118.3	0.0	129.7	0.0	129.7
1966	*	11.4	2.2	11.8	12.0	1.8	1.9	95.1	0.2	125.1	0.0	136.4	0.0	136.4
1967	*	12.1	1.9	11.1	13.4	1.7	1.6	97.2	0.2	127.1	0.0	139.2	0.0	139.2
1968	*	12.3	1.7	15.6	15.4	2.1	1.8	104.9	*	141.5	0.0	153.8	0.0	153.8
1969	0.0	12.4	1.6	17.2	13.8	2.5	1.8	110.4	0.1	147.4	0.0	159.8	0.0	159.8
1970	0.0	13.5	1.5	19.7	11.9	2.6	1.8	115.5	*	153.0	0.0	166.5	0.0	166.5
1971	*	11.8	1.4	20.2	12.4	3.1	1.7	122.7	0.0	161.6	0.0	173.3	0.0	173.3
1972	*	13.2	1.6	28.0	11.8	3.5	1.8	133.2	0.0	179.9	0.0	193.0	0.0	193.0
1973	*	15.4	1.5	37.4	10.9	2.9	2.0	139.7	*	194.4	0.0	209.8	0.0	209.8
1974	*	13.5	1.5	39.0	11.0	2.5	1.9	140.5	0.1	196.5	0.0	210.0	0.0	210.0
1975	*	12.2	1.3	37.3	10.8	2.5	1.9	143.4	0.1	197.3	0.0	209.4	0.0	209.4
1976	*	9.4	1.2	38.5	10.3	2.9	2.1	151.5	0.0	206.5	0.0	216.0	0.0	216.0
1977	*	9.2	1.3	39.8	11.0	2.9	2.6	155.6	*	213.3	0.0	222.5	0.0	222.5
1978	0.0	11.2	1.4	40.9	10.4	2.7	2.8	159.9	0.1	218.2	0.0	229.4	0.0	229.4
1979	0.0	12.5	1.3	43.2	10.4	0.2	2.9	129.5	0.0	187.5	0.0	200.0	0.0	200.0
1980	0.0	11.4	1.4	39.0	11.0	0.8	2.6	138.0	0.0	192.9	0.0	204.2	0.0	204.2
1981	0.0	9.6	1.3	48.1	9.5	0.8	2.5	137.1	0.0	199.2	0.0	208.9	0.0	208.9
1982	0.0	8.6	1.0	48.9	10.9	1.2	2.3	135.3	0.0	199.6	0.0	208.2	0.0	208.2
1983	0.0	7.7	1.0	38.3	8.7	1.4	2.4	135.8	0.0	187.6	0.0	195.2	0.0	195.2
1984	0.0	10.6	0.6	43.8	10.9	0.6	2.6	140.6	0.0	199.1	0.0	209.7	0.0	209.7
1985	0.0	8.3	0.4	44.8	11.0	0.5	2.4	136.4	0.0	195.5	0.0	203.9	0.0	203.9
1986	0.0	6.1	0.6	45.5	10.4	0.3	2.3	143.4	0.0	202.5	0.0	208.6	0.0	208.6
1987	0.0	5.9	0.5	49.0	11.3	0.3	2.6	146.6	0.0	210.3	0.0	216.2	0.0	216.2
1988	0.0	7.6	0.5	51.4	12.2	0.3	2.5	152.3	0.0	219.2	0.0	226.8	0.0	226.8
1989	0.0	9.7	0.5	60.1	10.6	0.3	2.6	152.0	0.0	226.0	0.0	235.8	0.0	235.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 38. Estimates of Energy Input at Electric Utilities, 1960–1989, Arkansas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydroelectric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**47**	**118**	**1**	**0**	**119**	**0**	**992**	**0**	**0**	
1961	0	0	0	43	61	1	0	62	0	1,395	0	0	
1962	0	0	0	52	89	1	0	90	0	1,061	0	0	
1963	0	0	0	58	161	2	0	162	0	493	0	0	
1964	0	0	0	65	59	1	0	60	0	561	0	0	
1965	**0**	**0**	**0**	**68**	**38**	*****	**0**	**38**	**0**	**1,080**	**0**	**0**	
1966	0	0	0	67	51	1	0	52	0	1,587	0	0	
1967	0	0	0	54	51	1	0	52	0	1,228	0	0	
1968	0	0	0	73	156	2	0	158	0	3,005	0	0	
1969	0	0	0	84	327	4	0	331	0	2,883	0	0	
1970	**0**	**0**	**0**	**107**	**698**	**8**	**0**	**705**	**0**	**2,160**	**0**	**0**	
1971	0	0	0	86	2,717	28	0	2,745	0	1,804	0	0	
1972	0	0	0	72	4,552	35	0	4,587	0	1,644	0	0	
1973	0	0	0	49	7,120	16	0	7,136	0	4,252	0	0	
1974	0	0	0	40	6,747	26	0	6,773	361	4,271	0	0	
1975	**0**	**0**	**0**	**32**	**4,365**	**62**	**0**	**4,427**	**4,874**	**3,433**	**0**	**0**	
1976	0	0	0	16	8,582	49	0	8,632	3,858	2,022	0	0	
1977	0	0	0	7	13,782	162	0	13,944	5,085	1,791	0	0	
1978	960	0	960	7	13,495	271	0	13,766	5,220	2,421	0	0	
1979	1,451	0	1,451	30	7,709	86	0	7,794	3,873	3,375	0	0	
1980	**1,774**	**0**	**1,774**	**59**	**3,106**	**180**	**0**	**3,285**	**7,833**	**1,695**	**0**	**0**	
1981	5,555	0	5,555	55	721	33	0	754	9,075	1,235	0	0	
1982	6,902	0	6,902	33	116	31	0	146	7,482	2,106	0	0	
1983	9,628	0	9,628	33	50	47	0	97	7,646	3,315	0	0	
1984	9,036	0	9,036	25	3	15	0	18	10,808	2,723	0	0	
1985	**12,302**	**0**	**12,302**	**11**	**9**	**12**	**0**	**21**	**9,889**	**4,434**	**0**	**0**	
1986	12,505	0	12,505	28	48	13	0	61	8,876	2,813	0	0	
1987	11,764	0	11,764	32	*	10	0	10	11,369	2,407	0	0	
1988	12,295	0	12,295	22	136	130	0	265	8,895	2,785	0	0	
1989	11,278	0	11,278	29	135	143	0	278	8,844	3,084	0	0	
					Trillion Btu								
1960	**0.0**	**0.0**	**0.0**	**48.4**	**0.7**	*****	**0.0**	**0.7**	**0.0**	**10.7**	**0.0**	**0.0**	**59.8**
1961	0.0	0.0	0.0	44.1	0.4	*	0.0	0.4	0.0	14.9	0.0	0.0	59.3
1962	0.0	0.0	0.0	54.2	0.6	*	0.0	0.6	0.0	11.2	0.0	0.0	66.0
1963	0.0	0.0	0.0	58.3	1.0	*	0.0	1.0	0.0	5.2	0.0	0.0	64.5
1964	0.0	0.0	0.0	65.3	0.4	*	0.0	0.4	0.0	5.9	0.0	0.0	71.6
1965	**0.0**	**0.0**	**0.0**	**67.6**	**0.2**	*****	**0.0**	**0.2**	**0.0**	**11.3**	**0.0**	**0.0**	**79.1**
1966	0.0	0.0	0.0	66.8	0.3	*	0.0	0.3	0.0	16.5	0.0	0.0	83.6
1967	0.0	0.0	0.0	53.8	0.3	*	0.0	0.3	0.0	12.8	0.0	0.0	66.9
1968	0.0	0.0	0.0	72.6	1.0	*	0.0	1.0	0.0	31.2	0.0	0.0	104.9
1969	0.0	0.0	0.0	84.4	2.1	*	0.0	2.1	0.0	30.1	0.0	0.0	116.6
1970	**0.0**	**0.0**	**0.0**	**107.9**	**4.4**	*****	**0.0**	**4.4**	**0.0**	**22.7**	**0.0**	**0.0**	**135.0**
1971	0.0	0.0	0.0	86.8	17.1	0.2	0.0	17.2	0.0	18.9	0.0	0.0	122.9
1972	0.0	0.0	0.0	73.6	28.6	0.2	0.0	28.8	0.0	17.1	0.0	0.0	119.4
1973	0.0	0.0	0.0	49.3	44.8	0.1	0.0	44.9	0.0	44.2	0.0	0.0	138.3
1974	0.0	0.0	0.0	40.1	42.4	0.1	0.0	42.6	4.0	44.6	0.0	0.0	131.3
1975	**0.0**	**0.0**	**0.0**	**32.2**	**27.4**	**0.4**	**0.0**	**27.8**	**53.7**	**35.7**	**0.0**	**0.0**	**149.4**
1976	0.0	0.0	0.0	16.2	54.0	0.3	0.0	54.2	42.6	21.0	0.0	0.0	134.0
1977	0.0	0.0	0.0	7.3	86.6	0.9	0.0	87.6	54.8	18.7	0.0	0.0	168.3
1978	16.1	0.0	16.1	7.4	84.8	1.6	0.0	86.4	57.1	25.1	0.0	0.0	192.1
1979	24.4	0.0	24.4	31.0	48.5	0.5	0.0	49.0	42.1	34.9	0.0	0.0	181.5
1980	**30.2**	**0.0**	**30.2**	**60.4**	**19.5**	**1.0**	**0.0**	**20.6**	**85.4**	**17.6**	**0.0**	**0.0**	**214.2**
1981	94.2	0.0	94.2	56.2	4.5	0.2	0.0	4.7	100.1	12.9	0.0	0.0	268.1
1982	117.6	0.0	117.6	34.5	0.7	0.2	0.0	0.9	82.9	22.0	0.0	0.0	257.9
1983	168.1	0.0	168.1	34.4	0.3	0.3	0.0	0.6	83.4	34.9	0.0	0.0	321.4
1984	155.3	0.0	155.3	25.9	*	0.1	0.0	0.1	117.2	28.1	0.0	0.0	326.6
1985	**211.7**	**0.0**	**211.7**	**12.0**	**0.1**	**0.1**	**0.0**	**0.1**	**106.9**	**45.8**	**0.0**	**0.0**	**376.6**
1986	216.8	0.0	216.8	29.9	0.3	0.1	0.0	0.4	95.9	28.9	0.0	0.0	371.9
1987	204.3	0.0	204.3	33.1	*	0.1	0.0	0.1	122.5	24.7	0.0	0.0	384.6
1988	213.0	0.0	213.0	22.7	0.9	0.8	0.0	1.6	95.6	28.5	0.0	0.0	361.4
1989	196.7	0.0	196.7	30.0	0.8	0.8	0.0	1.7	94.8	31.9	0.0	0.0	355.1

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* *Btu value less than 0.05, and physical unit value less than 0.5.*
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 39. Energy Consumption Estimates by Source, 1960–1989, California

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours				
1960	**1,343**	**1,258**	**10,665**	**5,383**	**26,683**	**25,818**	**1,017**	**8,888**	**3,781**	**137,025**	**80,575**	**26,745**	**326,580**	*	**17,045**	**33**	*	**3,463**
1961	2,208	1,353	11,474	3,438	27,612	28,078	1,083	9,012	3,680	142,537	83,184	26,215	336,312	5	14,928	94	0	3,997
1962	1,483	1,433	11,766	4,943	29,861	31,849	996	10,179	3,687	148,237	68,409	26,840	336,767	7	22,377	100	23	-1,014
1963	1,723	1,519	12,128	4,366	32,208	33,606	886	10,987	3,685	158,010	63,757	24,919	344,552	193	24,889	168	0	-6,227
1964	2,007	1,697	12,571	3,855	35,128	36,368	991	10,939	3,870	163,505	69,410	28,207	364,846	367	22,075	204	20	-4,594
1965	**2,380**	**1,690**	**11,892**	**3,342**	**35,105**	**40,150**	**817**	**11,029**	**4,482**	**169,900**	**69,745**	**29,186**	**375,648**	**270**	**30,520**	**189**	**64**	**-1,406**
1966	1,926	1,849	12,071	3,190	37,557	44,127	866	9,957	4,656	178,764	76,760	30,964	398,910	163	26,236	188	97	3,718
1967	2,016	1,911	11,081	2,832	38,088	52,666	795	11,349	4,422	183,733	72,190	30,868	408,025	563	35,277	316	77	1,024
1968	2,130	2,046	11,864	2,848	38,591	60,607	599	12,343	4,857	195,729	73,903	33,209	434,550	1,505	27,175	436	66	14,056
1969	2,257	2,049	13,087	2,358	38,892	61,225	809	14,973	3,894	204,354	70,617	36,263	446,473	2,458	40,418	615	43	20,845
1970	**2,327**	**2,126**	**12,084**	**2,184**	**39,221**	**59,614**	**1,004**	**15,532**	**3,967**	**214,064**	**70,324**	**36,569**	**454,563**	**3,132**	**38,071**	**525**	**48**	**39,011**
1971	1,906	2,149	12,184	2,036	47,387	62,721	1,043	16,151	4,084	219,227	80,069	35,944	480,847	3,519	39,007	548	40	58,809
1972	1,773	2,186	12,228	2,075	46,087	63,646	1,145	17,505	4,373	232,758	78,082	38,280	496,181	3,175	31,755	1,453	31	78,989
1973	2,500	2,046	13,163	2,038	51,869	62,947	918	18,926	4,890	240,789	112,710	38,916	547,167	2,631	38,753	1,966	25	53,815
1974	2,268	1,834	11,908	1,979	43,775	60,344	2,039	20,312	4,683	235,468	99,002	38,943	518,454	3,698	46,422	2,453	20	70,693
1975	**2,151**	**1,833**	**13,146**	**1,640**	**42,335**	**62,607**	**2,027**	**19,264**	**3,632**	**241,508**	**111,086**	**37,770**	**535,015**	**6,071**	**40,103**	**3,246**	**20**	**113,596**
1976	2,612	1,757	14,082	1,570	45,810	61,059	1,975	19,100	4,035	252,646	138,117	40,572	578,966	4,807	23,193	3,616	19	151,555
1977	2,984	1,772	14,997	1,647	51,755	63,229	2,813	17,300	4,904	266,288	172,411	44,736	640,079	8,115	14,251	3,582	28	105,112
1978	2,732	1,563	15,350	1,754	60,214	64,648	3,166	19,594	5,266	278,182	155,636	47,424	651,234	7,659	37,206	2,978	16	124,255
1979	2,734	1,810	21,482	1,682	66,872	65,874	3,425	23,149	5,510	269,423	156,981	48,633	663,032	8,762	33,920	3,889	9	100,025
1980	**2,669**	**1,808**	**18,431**	**285**	**62,277**	**63,201**	**2,117**	**19,197**	**4,907**	**253,593**	**148,701**	**47,605**	**620,316**	**4,920**	**40,868**	**5,073**	**20**	**122,895**
1981	3,231	1,858	9,831	132	67,523	59,089	1,086	17,123	4,706	252,914	130,662	31,603	574,667	3,206	29,772	5,686	23	151,531
1982	2,864	1,683	9,818	1,145	67,264	56,541	534	16,270	4,291	249,912	81,658	31,881	519,314	3,735	50,232	4,843	13	172,957
1983	1,456	1,535	11,117	1,167	68,093	57,359	286	16,259	4,493	256,139	68,521	56,927	540,361	5,613	56,912	6,075	7	166,213
1984	1,669	1,670	15,262	1,047	76,341	66,640	906	20,337	4,791	265,187	71,114	56,612	578,238	14,144	43,222	7,682	9	187,437
1985	**1,942**	**1,846**	**13,848**	**1,354**	**72,431**	**67,028**	**964**	**20,412**	**4,465**	**267,304**	**60,911**	**52,569**	**561,286**	**19,729**	**35,772**	**9,197**	**18**	**174,037**
1986	1,865	1,531	15,373	1,338	75,115	75,176	160	20,975	4,366	279,574	64,099	49,933	586,109	26,215	45,239	10,119	47	181,849
1987	1,934	1,935	16,458	1,084	74,102	79,857	222	21,290	4,936	292,232	61,449	50,397	602,028	30,387	32,308	10,599	38	170,537
1988	2,209	1,804	15,343	1,312	84,492	82,620	312	22,157	4,760	304,020	60,717	57,504	633,235	30,863	30,760	10,110	21	210,578
1989	2,551	1,838	14,996	1,303	81,819	90,291	316	24,137	4,882	310,769	60,455	53,745	642,713	32,519	33,752	9,154	6	214,937

Year	Coal	Natural Gas[1]	Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Trillion Btu																		
1960	**35.9**	**1,301.8**	**70.8**	**27.2**	**155.4**	**140.7**	**5.8**	**35.7**	**22.9**	**719.8**	**506.6**	**160.4**	**1,845.1**	*	**183.4**	**0.8**	*	**11.8**	**3,378.9**
1961	59.1	1,400.2	76.1	17.4	160.8	153.4	6.1	36.1	22.3	748.7	523.0	157.2	1,901.2	0.1	159.0	2.2	0.0	13.6	3,535.4
1962	39.7	1,483.4	78.1	25.0	173.9	174.3	5.6	40.8	22.4	778.7	430.1	161.0	1,889.8	0.1	236.3	2.3	0.2	-3.5	3,648.4
1963	46.1	1,623.4	80.5	22.0	187.6	184.1	5.0	44.1	22.4	830.0	400.8	148.9	1,925.5	2.3	260.9	3.7	0.0	-21.2	3,840.6
1964	53.7	1,817.2	83.4	19.5	204.6	199.6	5.6	43.9	23.5	858.9	436.4	166.3	2,041.6	4.4	230.9	4.5	0.2	-15.7	4,136.9
1965	**63.7**	**1,813.2**	**78.9**	**16.9**	**204.5**	**222.2**	**4.6**	**44.2**	**27.2**	**892.5**	**438.5**	**172.0**	**2,101.5**	**3.2**	**319.0**	**4.2**	**0.7**	**-4.8**	**4,300.7**
1966	51.5	1,982.3	80.1	16.1	218.8	244.5	4.9	39.9	28.2	939.0	482.6	182.0	2,236.3	1.9	273.2	4.2	1.0	12.7	4,563.1
1967	54.0	2,048.7	73.5	14.3	221.9	292.4	4.5	43.6	26.8	965.1	453.9	181.7	2,277.7	6.5	368.0	6.9	0.8	3.5	4,766.0
1968	57.0	2,187.3	78.7	14.4	224.8	336.6	3.4	47.1	29.5	1,028.2	464.6	195.4	2,422.6	17.0	282.6	9.4	0.7	48.0	5,024.5
1969	60.0	2,189.9	86.8	11.9	226.5	341.1	4.6	57.0	23.6	1,073.5	444.0	213.5	2,482.5	27.1	422.2	13.3	0.4	71.1	5,266.6
1970	**61.8**	**2,241.3**	**80.2**	**11.0**	**228.5**	**332.9**	**5.7**	**58.7**	**24.1**	**1,124.5**	**442.1**	**215.1**	**2,522.8**	**34.4**	**399.5**	**11.3**	**0.5**	**133.1**	**5,404.8**
1971	51.0	2,265.3	80.9	10.3	276.0	350.3	5.9	60.9	24.8	1,151.6	503.4	211.2	2,675.3	38.1	408.7	11.9	0.4	200.7	5,651.4
1972	47.5	2,303.6	81.1	10.5	268.5	355.9	6.5	65.8	26.5	1,222.7	490.9	224.9	2,753.4	34.3	329.6	31.5	0.3	269.5	5,769.5
1973	67.0	2,154.0	87.4	10.3	302.1	352.5	5.2	70.9	29.7	1,264.9	708.6	228.6	3,060.1	28.7	402.6	42.6	0.3	183.6	5,938.9
1974	60.7	1,937.1	79.0	10.0	255.0	337.6	11.6	75.8	28.4	1,236.9	622.4	228.6	2,885.3	41.3	484.7	53.2	0.2	241.2	5,703.7
1975	**56.4**	**1,937.3**	**87.2**	**8.3**	**246.6**	**350.7**	**11.5**	**71.6**	**22.0**	**1,268.6**	**698.4**	**222.2**	**2,987.1**	**66.9**	**417.3**	**70.2**	**0.2**	**387.6**	**5,923.0**
1976	66.6	1,849.7	93.4	7.9	266.8	342.1	11.2	70.9	24.5	1,327.1	868.3	238.8	3,251.2	53.1	240.6	78.2	0.2	517.1	6,056.7
1977	75.1	1,864.2	99.5	8.3	301.5	354.3	16.0	63.6	29.7	1,398.8	1,083.9	263.5	3,619.1	87.4	148.7	77.4	0.3	358.6	6,230.9
1978	67.9	1,646.3	101.9	8.9	350.7	362.6	18.0	71.9	31.9	1,461.3	978.5	278.9	3,664.5	83.8	385.5	64.3	0.2	424.0	6,336.5
1979	68.6	1,900.4	142.6	8.5	389.5	369.6	19.4	85.2	33.4	1,415.3	986.9	285.1	3,735.6	95.3	351.2	83.8	0.1	341.3	6,576.2
1980	**66.2**	**1,890.9**	**122.3**	**1.4**	**362.8**	**354.2**	**12.0**	**70.5**	**29.8**	**1,332.1**	**934.9**	**278.6**	**3,498.6**	**53.7**	**424.5**	**109.8**	**0.2**	**419.3**	**6,463.1**
1981	78.4	1,947.4	65.2	0.7	393.3	331.3	6.2	62.4	28.5	1,328.6	821.5	189.3	3,226.9	35.4	311.2	123.0	0.2	517.0	6,239.6
1982	69.4	1,765.2	65.2	5.8	391.8	316.7	3.0	58.8	26.0	1,312.8	513.4	191.8	2,885.3	41.4	525.1	104.7	0.1	590.1	5,981.4
1983	32.0	1,601.0	73.8	5.9	396.6	321.5	1.6	58.8	27.3	1,345.5	430.8	336.7	2,998.4	61.2	598.7	129.3	0.1	567.1	5,987.9
1984	37.2	1,739.8	101.3	5.3	444.7	373.5	5.1	73.2	29.1	1,393.0	447.1	331.6	3,203.8	153.4	446.2	163.6	0.1	639.5	6,383.7
1985	**45.3**	**1,925.5**	**91.9**	**6.8**	**421.9**	**375.8**	**5.5**	**73.5**	**27.1**	**1,404.1**	**382.9**	**311.7**	**3,101.4**	**213.3**	**369.8**	**195.6**	**0.2**	**593.8**	**6,444.8**
1986	42.5	1,591.0	102.0	6.8	437.5	422.1	0.9	76.3	26.5	1,468.6	403.0	299.0	3,242.7	283.1	464.2	215.2	0.5	620.5	6,459.7
1987	45.0	1,993.0	109.2	5.5	431.6	448.8	1.3	77.9	29.9	1,535.1	386.3	299.0	3,324.6	327.4	331.3	225.4	0.4	581.9	6,828.8
1988	50.8	1,860.4	101.8	6.6	492.2	464.2	1.8	80.9	28.9	1,597.0	381.7	340.0	3,495.0	331.6	314.8	213.3	0.2	718.5	6,984.6
1989	57.9	1,905.9	99.5	6.6	476.6	507.8	1.8	88.9	29.6	1,632.5	380.1	316.2	3,539.5	348.7	348.7	193.1	0.1	733.4	7,127.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 40. Residential Energy Consumption Estimates, 1960–1989, California

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**2**	**0**	**2**	**365**	**485**	**15**	**3,778**	**4,277**	**14,975**	**37,248**
1961	2	0	2	376	445	50	3,824	4,319	16,249	39,602
1962	2	0	2	415	399	36	4,368	4,803	17,841	42,890
1963	1	0	1	416	380	24	4,735	5,139	19,493	46,616
1964	2	0	2	467	457	25	4,950	5,432	21,735	51,764
1965	**4**	**0**	**4**	**489**	**427**	**31**	**5,095**	**5,553**	**23,800**	**56,824**
1966	5	0	5	496	452	29	3,924	4,406	25,988	62,357
1967	5	0	5	522	464	60	4,638	5,162	28,695	68,552
1968	3	0	3	518	443	108	4,658	5,210	30,591	72,988
1969	35	0	35	562	465	145	5,091	5,701	33,766	80,657
1970	**38**	**0**	**38**	**553**	**500**	**166**	**5,167**	**5,833**	**35,777**	**86,700**
1971	1	0	1	631	590	176	5,402	6,168	39,068	94,453
1972	1	0	1	637	644	203	4,621	5,467	41,310	99,434
1973	0	0	0	616	765	133	4,312	5,210	43,496	104,131
1974	*	0	*	580	544	219	4,009	4,772	42,533	103,707
1975	**0**	**0**	**0**	**631**	**493**	**211**	**2,708**	**3,412**	**44,257**	**106,754**
1976	0	0	0	600	629	203	2,523	3,354	45,751	110,206
1977	0	0	0	542	738	308	2,308	3,354	46,555	112,417
1978	1	0	1	537	787	340	3,854	4,981	49,321	120,664
1979	1	0	1	591	1,077	79	4,997	6,153	52,421	126,509
1980	**1**	**0**	**1**	**529**	**94**	**18**	**4,919**	**5,032**	**52,011**	**126,473**
1981	1	0	1	488	72	71	4,392	4,535	52,798	125,831
1982	1	0	1	537	72	18	4,437	4,527	51,872	124,589
1983	1	0	1	499	127	54	5,242	5,424	53,873	129,067
1984	12	0	12	472	144	105	4,881	5,130	56,532	131,276
1985	**19**	**0**	**19**	**527**	**148**	**77**	**5,906**	**6,131**	**57,501**	**134,840**
1986	0	0	0	464	240	60	5,197	5,497	57,542	131,931
1987	*	0	*	503	285	27	5,875	6,187	60,368	137,580
1988	2	0	2	497	228	140	6,157	6,525	64,639	145,974
1989	4	0	4	514	241	177	6,239	6,657	64,347	144,336

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
					Trillion Btu							
1960	**0.1**	**0.0**	**0.1**	**377.6**	**2.8**	**0.1**	**15.2**	**18.1**	**51.1**	**446.8**	**127.1**	**573.9**
1961	*	0.0	*	388.7	2.6	0.3	15.3	18.2	55.4	462.5	135.1	597.6
1962	*	0.0	*	430.0	2.3	0.2	17.5	20.0	60.9	511.0	146.3	657.3
1963	*	0.0	*	444.9	2.2	0.1	19.0	21.3	66.5	532.8	159.1	691.9
1964	0.1	0.0	0.1	499.7	2.7	0.1	19.9	22.7	74.2	596.6	176.6	773.2
1965	**0.1**	**0.0**	**0.1**	**524.9**	**2.5**	**0.2**	**20.4**	**23.1**	**81.2**	**629.2**	**193.9**	**823.1**
1966	0.1	0.0	0.1	531.9	2.6	0.2	15.7	18.5	88.7	639.2	212.8	852.0
1967	0.1	0.0	0.1	559.7	2.7	0.3	17.8	20.8	97.9	678.6	233.9	912.5
1968	0.1	0.0	0.1	553.4	2.6	0.6	17.8	21.0	104.4	678.8	249.0	927.8
1969	0.8	0.0	0.8	600.9	2.7	0.8	19.4	22.9	115.2	739.8	275.2	1,015.0
1970	**0.8**	**0.0**	**0.8**	**582.4**	**2.9**	**0.9**	**19.5**	**23.4**	**122.1**	**728.7**	**295.8**	**1,024.5**
1971	*	0.0	*	665.1	3.4	1.0	20.4	24.8	133.3	823.2	322.3	1,145.5
1972	*	0.0	*	669.7	3.7	1.1	17.4	22.3	140.9	833.0	339.3	1,172.3
1973	0.0	0.0	0.0	646.8	4.5	0.8	16.2	21.4	148.4	816.5	355.3	1,171.8
1974	*	0.0	*	611.4	3.2	1.2	15.0	19.4	145.1	775.9	353.8	1,129.7
1975	**0.0**	**0.0**	**0.0**	**666.7**	**2.9**	**1.2**	**10.1**	**14.1**	**151.0**	**831.9**	**364.2**	**1,196.1**
1976	0.0	0.0	0.0	630.4	3.7	1.1	9.4	14.2	156.1	800.7	376.0	1,176.7
1977	0.0	0.0	0.0	568.9	4.3	1.7	8.5	14.5	158.8	742.3	383.6	1,125.9
1978	*	0.0	*	565.1	4.6	1.9	14.1	20.7	168.3	754.1	411.7	1,165.8
1979	*	0.0	*	619.1	6.3	0.4	18.4	25.1	178.9	823.1	431.6	1,254.7
1980	*****	**0.0**	*****	**552.4**	**0.6**	**0.1**	**18.1**	**18.7**	**177.5**	**748.6**	**431.5**	**1,180.2**
1981	*	0.0	*	509.9	0.4	0.4	16.0	16.8	180.1	706.9	429.3	1,136.3
1982	*	0.0	*	562.5	0.4	0.1	16.0	16.6	177.0	756.1	425.1	1,181.2
1983	*	0.0	*	519.0	0.7	0.3	18.9	20.0	183.8	722.8	440.4	1,163.2
1984	0.3	0.0	0.3	490.0	0.8	0.6	17.6	19.0	192.9	702.2	447.9	1,150.1
1985	**0.4**	**0.0**	**0.4**	**547.8**	**0.9**	**0.4**	**21.3**	**22.6**	**196.2**	**767.0**	**460.1**	**1,227.1**
1986	0.0	0.0	0.0	481.3	1.4	0.3	18.9	20.7	196.3	698.3	450.1	1,148.4
1987	*	0.0	*	516.6	1.7	0.2	21.5	23.3	206.0	745.9	469.4	1,215.3
1988	0.1	0.0	0.1	511.5	1.3	0.8	22.5	24.6	220.5	756.7	498.1	1,254.7
1989	0.1	0.0	0.1	532.7	1.4	1.0	23.0	25.4	219.6	777.7	492.5	1,270.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 41. Commercial Energy Consumption Estimates, 1960–1989, California

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours	
1960	**4**	**0**	**4**	**109**	**637**	**46**	**667**	**1,406**	**7,284**	**10,040**	**22,038**	**54,815**
1961	4	0	4	113	584	154	675	1,360	7,306	10,079	26,408	64,362
1962	4	0	4	124	524	109	771	1,383	6,538	9,326	28,275	67,974
1963	2	0	2	125	499	73	836	1,427	6,284	9,119	29,579	70,738
1964	5	0	5	142	601	77	873	1,498	6,279	9,328	29,665	70,650
1965	**7**	**0**	**7**	**164**	**560**	**95**	**899**	**1,309**	**6,200**	**9,064**	**29,919**	**71,436**
1966	9	0	9	171	594	89	693	1,611	7,020	10,006	32,694	78,450
1967	9	0	9	185	609	183	818	1,544	6,018	9,174	33,708	80,528
1968	6	0	6	190	582	334	822	1,404	6,774	9,915	36,832	87,879
1969	65	0	65	207	611	445	898	1,389	6,202	9,546	37,884	90,493
1970	**71**	**0**	**71**	**210**	**657**	**510**	**912**	**1,482**	**8,631**	**12,192**	**40,647**	**98,501**
1971	2	0	2	240	775	542	953	1,477	9,407	13,154	42,719	103,279
1972	2	0	2	232	845	623	815	1,496	6,239	10,018	47,485	114,298
1973	0	0	0	233	1,004	408	761	1,565	6,998	10,736	49,382	118,223
1974	1	0	1	229	714	673	707	1,604	7,361	11,060	45,962	112,068
1975	**0**	**0**	**0**	**240**	**647**	**650**	**478**	**1,622**	**4,377**	**7,774**	**57,843**	**139,525**
1976	0	0	0	220	826	623	445	2,042	3,730	7,666	60,691	146,193
1977	0	0	0	228	969	947	407	2,554	4,090	8,968	60,826	146,876
1978	3	0	3	221	1,033	1,047	680	3,073	3,857	9,690	61,315	150,007
1979	2	0	2	258	1,415	243	882	2,500	4,031	9,071	62,827	151,623
1980	**3**	**0**	**3**	**258**	**3,225**	**222**	**868**	**1,795**	**6,811**	**12,921**	**63,473**	**154,346**
1981	1	0	1	237	3,733	552	775	1,560	11,415	18,035	67,827	161,651
1982	1	0	1	236	4,397	324	783	1,449	5,491	12,444	66,417	159,523
1983	1	0	1	216	6,850	114	925	1,733	537	10,158	62,959	150,836
1984	22	0	22	192	7,741	266	861	1,511	511	10,891	71,418	165,845
1985	**34**	**0**	**34**	**205**	**3,513**	**371**	**1,042**	**1,758**	**11**	**6,697**	**73,614**	**172,624**
1986	0	0	0	183	5,651	37	917	1,755	740	9,101	74,759	171,405
1987	*	0	*	213	6,882	55	1,037	2,516	389	10,879	77,830	177,375
1988	4	0	4	248	6,317	121	1,087	1,775	318	9,618	80,777	182,419
1989	7	0	7	259	4,614	68	1,101	1,782	892	8,458	83,963	188,335

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity: Net Energy[4]	Electricity: Total[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu													
1960	**0.1**	**0.0**	**0.1**	**112.7**	**3.7**	**0.3**	**2.7**	**7.4**	**45.8**	**59.8**	**75.2**	**247.8**	**187.0**	**434.8**
1961	0.1	0.0	0.1	116.7	3.4	0.9	2.7	7.1	45.9	60.1	90.1	267.0	219.6	486.6
1962	0.1	0.0	0.1	128.7	3.1	0.6	3.1	7.3	41.1	55.1	96.5	280.4	231.9	512.3
1963	0.1	0.0	0.1	134.1	2.9	0.4	3.4	7.5	39.5	53.7	100.9	288.8	241.4	530.1
1964	0.1	0.0	0.1	152.0	3.5	0.4	3.5	7.9	39.5	54.8	101.2	308.1	241.1	549.2
1965	**0.2**	**0.0**	**0.2**	**175.5**	**3.3**	**0.5**	**3.6**	**6.9**	**39.0**	**53.3**	**102.1**	**331.0**	**243.7**	**574.7**
1966	0.2	0.0	0.2	183.3	3.5	0.5	2.8	8.5	44.1	59.3	111.6	354.4	267.7	622.0
1967	0.2	0.0	0.2	197.9	3.5	1.0	3.1	8.1	37.8	53.7	115.0	366.8	274.8	641.6
1968	0.1	0.0	0.1	203.0	3.4	1.9	3.1	7.4	42.6	58.4	125.7	387.2	299.8	687.0
1969	1.5	0.0	1.5	221.1	3.6	2.5	3.4	7.3	39.0	55.8	129.3	407.7	308.8	716.4
1970	**1.6**	**0.0**	**1.6**	**221.3**	**3.8**	**2.9**	**3.4**	**7.8**	**54.3**	**72.2**	**138.7**	**433.7**	**336.1**	**769.8**
1971	*	0.0	*	252.6	4.5	3.1	3.6	7.8	59.1	78.1	145.8	476.5	352.4	828.9
1972	0.1	0.0	0.1	243.3	4.9	3.5	3.1	7.9	39.2	58.6	162.0	464.0	390.0	854.0
1973	0.0	0.0	0.0	244.5	5.9	2.3	2.9	8.2	44.0	63.2	168.5	476.2	403.4	879.6
1974	*	0.0	*	241.4	4.2	3.8	2.6	8.4	46.3	65.3	156.8	463.5	382.4	845.9
1975	**0.0**	**0.0**	**0.0**	**253.7**	**3.8**	**3.7**	**1.8**	**8.5**	**27.5**	**45.3**	**197.4**	**496.3**	**476.1**	**972.4**
1976	0.0	0.0	0.0	231.1	4.8	3.5	1.7	10.7	23.4	44.2	207.1	482.4	498.8	981.2
1977	0.0	0.0	0.0	239.0	5.6	5.4	1.5	13.4	25.7	51.6	207.5	498.2	501.1	999.3
1978	0.1	0.0	0.1	232.9	6.0	5.9	2.5	16.1	24.2	54.8	209.2	497.0	511.8	1,008.8
1979	0.1	0.0	0.1	270.9	8.2	1.4	3.2	13.1	25.3	51.3	214.4	536.7	517.3	1,054.0
1980	**0.1**	**0.0**	**0.1**	**269.4**	**18.8**	**1.3**	**3.2**	**9.4**	**42.8**	**75.5**	**216.6**	**561.5**	**526.6**	**1,088.1**
1981	*	0.0	*	247.4	21.7	3.1	2.8	8.2	71.8	107.7	231.4	586.5	551.6	1,138.0
1982	*	0.0	*	247.3	25.6	1.8	2.8	7.6	34.5	72.4	226.6	546.4	544.3	1,090.7
1983	*	0.0	*	224.7	39.9	0.6	3.3	9.1	3.4	56.4	214.8	495.9	514.7	1,010.6
1984	0.5	0.0	0.5	199.1	45.1	1.5	3.1	7.9	3.2	60.9	243.7	504.1	565.9	1,070.0
1985	**0.8**	**0.0**	**0.8**	**212.9**	**20.5**	**2.1**	**3.8**	**9.2**	**0.1**	**35.6**	**251.2**	**500.6**	**589.0**	**1,089.5**
1986	0.0	0.0	0.0	189.5	32.9	0.2	3.3	9.2	4.7	50.3	255.1	494.9	584.8	1,079.7
1987	*	0.0	*	218.4	40.1	0.3	3.8	13.2	2.4	59.9	265.6	543.9	605.2	1,149.1
1988	0.1	0.0	0.1	255.5	36.8	0.7	4.0	9.3	2.0	52.8	275.6	584.0	622.4	1,206.4
1989	0.2	0.0	0.2	268.4	26.9	0.4	4.1	9.4	5.6	46.3	286.5	601.3	642.6	1,243.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 42. Industrial Energy Consumption Estimates, 1960–1989, California

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours			
1960	**1,313**	**0**	**1,313**	**451**	**10,665**	**10,127**	**956**	**4,231**	**1,454**	**2,851**	**10,750**	**26,745**	**67,780**	*	**20,190**	**50,221**		
1961	2,192	0	2,192	456	11,474	10,642	879	4,333	1,415	2,738	8,960	26,215	66,657	*	19,657	47,909		
1962	1,471	0	1,471	481	11,766	10,399	851	4,830	1,441	2,664	9,660	26,840	68,450	1	18,721	45,007		
1963	1,713	0	1,713	533	12,128	11,123	789	5,197	1,440	2,565	11,287	24,919	69,449	*	20,387	48,754		
1964	1,992	0	1,992	553	12,571	13,207	889	4,917	1,513	2,481	12,678	28,207	76,463	*	25,524	60,787		
1965	**2,361**	**0**	**2,361**	**529**	**11,892**	**13,002**	**692**	**4,826**	**1,709**	**2,245**	**11,846**	**29,186**	**75,398**	*	**28,904**	**69,012**		
1966	1,907	0	1,907	555	12,071	14,264	748	5,164	1,776	2,292	13,324	30,964	80,602	0	32,165	77,179		
1967	1,998	0	1,998	606	11,081	13,880	551	5,668	1,765	1,913	11,707	30,868	77,435	0	34,521	82,472		
1968	2,115	0	2,115	637	11,864	10,817	157	6,623	1,939	1,748	12,590	33,209	78,948	0	37,138	88,608		
1969	2,153	0	2,153	673	13,087	8,595	219	8,761	1,483	1,521	10,640	36,263	80,568	0	39,766	94,989		
1970	**2,215**	**0**	**2,215**	**711**	**12,084**	**8,510**	**328**	**9,147**	**1,510**	**1,942**	**12,121**	**36,569**	**82,211**	*	**42,169**	**102,190**		
1971	1,900	0	1,900	697	12,184	10,053	325	9,423	1,587	1,542	10,134	35,944	81,193	0	43,995	106,364		
1972	1,767	0	1,767	692	12,228	11,958	319	11,646	1,699	1,426	9,162	38,280	86,720	0	46,441	111,785		
1973	2,498	0	2,498	722	13,163	14,201	377	13,477	2,336	1,472	9,217	38,916	93,160	0	47,015	112,554		
1974	2,266	0	2,266	713	11,908	10,684	1,147	15,198	2,238	1,302	9,588	38,943	91,008	0	42,805	104,370		
1975	**2,151**	**0**	**2,151**	**666**	**13,146**	**10,519**	**1,166**	**15,688**	**1,246**	**1,338**	**8,308**	**37,770**	**89,181**	**0**	**46,053**	**111,086**		
1976	2,611	0	2,611	626	14,082	11,136	1,149	15,696	1,384	1,496	9,046	40,572	94,561	0	49,272	118,688		
1977	2,984	0	2,984	629	14,997	13,356	1,558	14,106	2,102	1,134	7,431	44,736	99,419	0	51,185	123,596		
1978	2,728	0	2,728	487	15,350	15,197	1,779	14,481	2,257	1,078	7,575	47,424	105,139	0	51,812	126,758		
1979	2,730	0	2,730	499	21,482	20,854	3,103	16,482	2,362	1,118	7,025	48,633	121,059	0	54,108	130,580		
1980	**2,665**	**0**	**2,665**	**486**	**18,431**	**15,576**	**1,877**	**12,887**	**2,103**	**1,698**	**12,554**	**47,605**	**112,732**	**0**	**51,888**	**126,174**		
1981	3,228	1	3,229	463	9,831	17,735	463	10,874	2,017	1,402	10,825	31,603	84,750	0	49,551	118,094		
1982	2,861	1	2,862	363	9,818	20,695	192	10,067	1,839	1,260	8,236	31,881	83,989	0	47,300	113,607		
1983	1,454	0	1,454	345	11,117	17,101	119	8,933	1,926	1,080	8,760	56,927	105,960	0	48,153	115,365		
1984	1,635	0	1,635	421	15,262	19,327	535	12,833	2,053	1,873	8,341	56,612	116,836	0	51,294	119,114		
1985	**1,888**	**1**	**1,889**	**433**	**13,848**	**18,285**	**517**	**12,354**	**1,914**	**3,064**	**6,097**	**52,569**	**108,646**	**0**	**52,972**	**124,220**		
1986	1,865	0	1,865	428	15,373	15,010	64	13,857	1,871	3,176	11,578	49,933	110,863	0	52,884	121,251		
1987	1,933	0	1,933	556	16,458	18,283	141	13,498	2,115	3,249	5,986	50,397	110,129	0	54,387	123,948		
1988	2,203	0	2,203	487	15,343	17,138	51	14,083	2,040	2,982	3,389	57,504	112,529	0	54,988	124,180		
1989	2,540	0	2,540	528	14,996	16,266	70	16,055	2,092	3,231	3,222	53,745	109,677	0	55,596	124,706		
					Trillion Btu													
1960	**35.2**	**0.0**	**35.2**	**466.3**	**70.8**	**59.0**	**5.4**	**17.0**	**8.8**	**15.0**	**67.6**	**160.4**	**403.9**	*	**68.9**	**974.3**	**171.4**	**1,145.7**
1961	58.7	0.0	58.7	472.1	76.1	62.0	5.0	17.4	8.6	14.4	56.3	157.2	397.0	*	67.1	994.9	163.5	1,158.4
1962	39.4	0.0	39.4	497.7	78.1	60.6	4.8	19.4	8.7	14.0	60.7	161.0	407.3	*	63.9	1,008.3	153.6	1,161.8
1963	45.9	0.0	45.9	569.8	80.5	64.8	4.5	20.8	8.7	13.5	71.0	148.9	412.7	*	69.6	1,097.9	166.4	1,264.3
1964	53.4	0.0	53.4	592.1	83.4	76.9	5.0	19.7	9.2	13.0	79.7	166.3	453.3	*	87.1	1,185.9	207.4	1,393.3
1965	**63.2**	**0.0**	**63.2**	**567.4**	**78.9**	**75.7**	**3.9**	**19.4**	**10.4**	**11.8**	**74.5**	**172.0**	**446.6**	*	**98.6**	**1,175.8**	**235.5**	**1,411.3**
1966	51.1	0.0	51.1	595.4	80.1	83.1	4.2	20.7	10.8	12.0	83.8	182.0	476.8	0.0	109.7	1,232.9	263.3	1,496.3
1967	53.5	0.0	53.5	649.6	73.5	80.9	3.1	21.8	10.7	10.0	73.6	181.7	455.3	0.0	117.8	1,276.3	281.4	1,557.7
1968	56.7	0.0	56.7	681.3	78.7	63.0	0.9	25.3	11.8	9.2	79.2	195.4	463.4	0.0	126.7	1,328.1	302.3	1,630.5
1969	57.7	0.0	57.7	719.2	86.8	50.1	1.2	33.3	9.0	8.0	66.9	213.5	468.8	0.0	135.7	1,381.3	324.1	1,705.4
1970	**59.3**	**0.0**	**59.3**	**749.1**	**80.2**	**49.6**	**1.9**	**34.6**	**9.2**	**10.2**	**76.2**	**215.1**	**476.9**	*	**143.9**	**1,429.2**	**348.7**	**1,777.9**
1971	50.9	0.0	50.9	734.7	80.9	58.6	1.8	35.5	9.6	8.1	63.7	211.2	469.4	0.0	150.1	1,405.2	362.9	1,768.1
1972	47.3	0.0	47.3	727.5	81.1	69.7	1.8	43.8	10.3	7.5	57.6	224.9	496.7	0.0	158.5	1,430.0	381.4	1,811.4
1973	66.9	0.0	66.9	758.3	87.4	82.7	2.1	50.5	14.2	7.7	57.9	228.6	531.2	0.0	160.4	1,516.7	384.0	1,900.8
1974	60.6	0.0	60.6	752.1	79.0	62.2	6.5	56.7	13.6	6.8	60.3	228.6	513.7	0.0	146.1	1,472.4	356.1	1,828.6
1975	**56.4**	**0.0**	**56.4**	**703.6**	**87.2**	**61.3**	**6.6**	**58.3**	**7.6**	**7.0**	**52.2**	**222.2**	**502.4**	**0.0**	**157.1**	**1,419.6**	**379.0**	**1,798.6**
1976	66.6	0.0	66.6	658.4	93.4	64.9	6.5	58.2	8.4	7.9	56.9	238.8	535.0	0.0	168.1	1,428.2	405.0	1,833.1
1977	75.1	0.0	75.1	660.4	99.5	77.8	8.8	51.9	12.7	6.0	46.7	263.5	566.9	0.0	174.6	1,477.1	421.7	1,898.8
1978	67.8	0.0	67.8	512.6	101.9	88.5	10.1	53.1	13.7	5.7	47.6	278.9	599.5	0.0	176.8	1,356.7	432.5	1,789.2
1979	68.5	0.0	68.5	522.6	142.6	121.5	17.6	60.7	14.3	5.9	44.2	285.1	691.8	0.0	184.6	1,467.5	445.5	1,913.0
1980	**66.1**	**0.0**	**66.1**	**507.4**	**122.3**	**90.7**	**10.6**	**47.3**	**12.8**	**8.9**	**78.9**	**278.6**	**650.2**	**0.0**	**177.0**	**1,400.7**	**430.5**	**1,831.2**
1981	78.3	*	78.4	482.9	65.2	103.3	2.6	39.6	12.2	7.4	68.1	189.3	487.7	0.0	169.1	1,218.1	402.9	1,621.0
1982	69.3	*	69.4	379.7	65.2	120.5	1.1	36.4	11.2	6.6	51.8	191.8	484.5	0.0	161.4	1,095.0	387.6	1,482.6
1983	32.0	0.0	32.0	359.3	73.8	99.6	0.7	32.3	11.7	5.7	55.1	336.7	615.5	0.0	164.3	1,171.0	393.6	1,564.7
1984	36.5	0.0	36.5	437.3	101.3	112.6	3.0	46.2	12.5	9.8	52.4	331.6	669.4	0.0	175.0	1,318.1	406.4	1,724.6
1985	**44.0**	*	**44.0**	**449.5**	**91.9**	**106.5**	**2.9**	**44.5**	**11.6**	**16.1**	**38.3**	**311.7**	**623.6**	**0.0**	**180.7**	**1,297.8**	**423.8**	**1,721.7**
1986	42.5	0.0	42.5	443.3	102.0	87.4	0.4	50.4	11.3	16.7	72.8	299.0	640.1	0.0	180.4	1,306.3	413.7	1,720.0
1987	44.9	0.0	44.9	570.7	109.2	106.5	0.8	49.4	12.8	17.1	37.6	299.0	632.4	0.0	185.6	1,433.6	422.9	1,856.5
1988	50.7	0.0	50.7	500.8	101.8	99.8	0.3	51.4	12.4	15.7	21.3	340.0	642.7	0.0	187.6	1,381.8	423.7	1,805.5
1989	57.7	0.0	57.7	546.4	99.5	94.7	0.4	59.1	12.7	17.0	20.3	316.2	619.9	0.0	189.7	1,413.7	425.5	1,839.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 43. Transportation Energy Consumption Estimates, 1960–1989, California

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**23**	**11**	**5,383**	**15,313**	**25,818**	**214**	**2,327**	**132,768**	**38,610**	**220,432**	**67**		**168**	
1961	10	12	3,438	15,824	28,078	179	2,265	138,439	43,746	231,969	73		177	
1962	6	16	4,943	18,453	31,849	211	2,246	144,190	35,141	237,031	74		178	
1963	7	14	4,366	20,127	33,606	220	2,245	154,018	30,525	245,107	71		170	
1964	8	17	3,855	20,777	36,368	199	2,358	159,526	33,303	256,386	65		154	
1965	**8**	**16**	**3,342**	**21,032**	**40,150**	**208**	**2,772**	**166,346**	**35,109**	**268,960**	**64**		**152**	
1966	6	30	3,190	22,150	44,127	175	2,880	174,862	37,120	284,504	67		160	
1967	5	18	2,832	23,044	52,666	225	2,657	180,275	36,408	298,108	60		143	
1968	5	17	2,848	26,654	60,607	240	2,918	192,577	35,629	321,472	55		132	
1969	4	17	2,358	29,123	61,225	223	2,412	201,444	34,084	330,868	52		125	
1970	**4**	**17**	**2,184**	**29,448**	**59,614**	**305**	**2,457**	**210,641**	**27,982**	**332,632**	**52**		**127**	
1971	3	19	2,036	35,743	62,721	373	2,497	216,207	26,643	346,221	52		126	
1972	2	19	2,075	32,654	63,375	422	2,674	229,837	20,867	351,905	66		158	
1973	2	20	2,038	35,776	62,752	377	2,553	237,753	20,397	361,646	153		366	
1974	1	19	1,979	31,762	60,185	398	2,445	232,563	17,187	346,519	142		347	
1975	*	**20**	**1,640**	**30,528**	**62,509**	**390**	**2,386**	**238,548**	**20,056**	**356,057**	**268**		**646**	
1976	*	16	1,570	32,930	60,713	437	2,650	249,108	28,500	375,909	304		733	
1977	*	15	1,647	36,550	61,331	479	2,802	262,600	35,888	401,295	234		566	
1978	0	15	1,754	41,759	63,405	579	3,009	274,031	45,725	430,262	199		487	
1979	0	18	1,682	41,416	64,910	788	3,149	265,805	47,845	425,595	234		564	
1980	**0**	**15**	**285**	**41,801**	**62,224**	**522**	**2,804**	**250,100**	**66,673**	**424,409**	**195**		**473**	
1981	0	15	132	44,931	59,074	1,082	2,689	249,951	63,449	421,308	238		567	
1982	0	13	1,145	41,786	56,541	983	2,452	247,203	52,103	402,214	253		609	
1983	0	10	1,167	43,786	57,359	1,159	2,567	253,326	48,269	407,634	214		514	
1984	0	11	1,047	48,866	66,640	1,762	2,738	261,804	57,787	440,643	208		484	
1985	**0**	**14**	**1,354**	**50,177**	**67,028**	**1,110**	**2,552**	**262,482**	**50,186**	**434,888**	**244**		**573**	
1986	0	12	1,338	53,866	75,176	1,004	2,495	274,643	46,448	454,970	233		535	
1987	0	19	1,084	48,300	79,857	881	2,821	286,468	51,750	471,160	216		491	
1988	0	19	1,312	60,642	82,620	829	2,720	299,263	44,545	491,932	233		526	
1989	0	19	1,303	60,400	90,291	743	2,790	305,756	41,270	502,551	233		523	
			Trillion Btu											
1960	**0.6**	**11.0**	**27.2**	**89.2**	**140.7**	**0.9**	**14.1**	**697.4**	**242.7**	**1,212.2**	**0.2**	**1,223.9**	**0.6**	**1,224.5**
1961	0.3	12.1	17.4	92.2	153.4	0.7	13.7	727.2	275.0	1,279.6	0.2	1,292.2	0.6	1,292.8
1962	0.2	16.3	25.0	107.5	174.3	0.8	13.6	757.4	220.9	1,299.6	0.3	1,316.3	0.6	1,316.9
1963	0.2	14.5	22.0	117.2	184.1	0.9	13.6	809.1	191.9	1,338.9	0.2	1,353.8	0.6	1,354.4
1964	0.2	17.8	19.5	121.0	199.6	0.8	14.3	838.0	209.4	1,402.5	0.2	1,420.7	0.5	1,421.3
1965	**0.2**	**16.8**	**16.9**	**122.5**	**222.2**	**0.8**	**16.8**	**873.8**	**220.7**	**1,473.8**	**0.2**	**1,491.0**	**0.5**	**1,491.5**
1966	0.1	32.1	16.1	129.0	244.5	0.7	17.5	918.5	233.4	1,559.8	0.2	1,592.2	0.5	1,592.8
1967	0.1	19.7	14.3	134.2	292.4	0.9	16.1	947.0	228.9	1,633.8	0.2	1,653.9	0.5	1,654.3
1968	0.1	18.0	14.4	155.3	336.6	0.9	17.7	1,011.6	224.0	1,760.4	0.2	1,778.8	0.5	1,779.2
1969	0.1	18.5	11.9	169.6	341.1	0.8	14.6	1,058.2	214.3	1,810.6	0.2	1,829.3	0.4	1,829.7
1970	**0.1**	**17.9**	**11.0**	**171.5**	**332.9**	**1.2**	**14.9**	**1,106.5**	**175.9**	**1,814.0**	**0.2**	**1,832.1**	**0.4**	**1,832.5**
1971	0.1	19.7	10.3	208.2	350.3	1.4	15.1	1,135.7	167.5	1,888.6	0.2	1,908.5	0.4	1,909.0
1972	*	19.7	10.5	190.2	354.4	1.6	16.2	1,207.3	131.2	1,911.4	0.2	1,931.3	0.5	1,931.9
1973	*	20.7	10.3	208.4	351.4	1.4	15.5	1,248.9	128.2	1,964.1	0.5	1,985.4	1.3	1,986.7
1974	*	20.0	10.0	185.0	336.7	1.5	14.8	1,221.7	108.1	1,877.7	0.5	1,898.3	1.2	1,899.5
1975	*	**21.4**	**8.3**	**177.8**	**350.2**	**1.5**	**14.5**	**1,253.1**	**126.1**	**1,931.4**	**0.9**	**1,953.7**	**2.2**	**1,955.9**
1976	*	16.7	7.9	191.8	340.2	1.6	16.1	1,308.6	179.2	2,045.4	1.0	2,063.1	2.5	2,065.6
1977	*	15.6	8.3	212.9	343.5	1.8	17.0	1,379.4	225.6	2,188.5	0.8	2,205.0	1.9	2,206.9
1978	0.0	15.5	8.9	243.2	355.5	2.1	18.3	1,439.5	287.5	2,354.9	0.7	2,371.1	1.7	2,372.7
1979	0.0	18.7	8.5	241.3	364.2	2.9	19.1	1,396.3	300.8	2,333.0	0.8	2,352.5	1.9	2,354.5
1980	**0.0**	**15.9**	**1.4**	**243.5**	**348.7**	**1.9**	**17.0**	**1,313.8**	**419.2**	**2,345.5**	**0.7**	**2,362.1**	**1.6**	**2,363.7**
1981	0.0	15.7	0.7	261.7	331.3	3.9	16.3	1,313.0	398.9	2,325.8	0.8	2,342.4	1.9	2,344.3
1982	0.0	13.5	5.8	243.4	316.7	3.6	14.9	1,298.6	327.6	2,210.4	0.9	2,224.8	2.1	2,226.9
1983	0.0	10.6	5.9	255.1	321.5	4.2	15.6	1,330.7	303.5	2,236.4	0.7	2,247.7	1.8	2,249.5
1984	0.0	11.8	5.3	284.6	373.5	6.3	16.6	1,375.3	363.3	2,424.9	0.7	2,437.4	1.7	2,439.1
1985	**0.0**	**15.0**	**6.8**	**292.3**	**375.8**	**4.0**	**15.5**	**1,378.8**	**315.5**	**2,388.8**	**0.8**	**2,404.6**	**2.0**	**2,406.5**
1986	0.0	12.8	6.8	313.8	422.1	3.7	15.1	1,442.7	292.0	2,496.1	0.8	2,509.7	1.8	2,511.6
1987	0.0	19.4	5.5	281.3	448.8	3.2	17.1	1,504.8	325.4	2,586.1	0.7	2,606.3	1.7	2,607.9
1988	0.0	19.7	6.6	353.2	464.2	3.0	16.5	1,572.0	280.1	2,695.7	0.8	2,716.2	1.8	2,718.0
1989	0.0	19.9	6.6	351.8	507.8	2.7	16.9	1,606.1	259.5	2,751.4	0.8	2,772.1	1.8	2,773.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 44. Estimates of Energy Input at Electric Utilities, 1960-1989, California

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**323**	**23,931**	**120**	**0**	**24,051**	*	**17,045**	**33**	*	
1961	0	0	0	397	23,171	116	0	23,288	5	14,928	94	0	
1962	0	0	0	397	17,070	86	0	17,156	7	22,377	100	23	
1963	0	0	0	430	15,660	79	0	15,739	193	24,889	168	0	
1964	0	0	0	519	17,150	86	0	17,237	367	22,074	204	20	
1965	**0**	**0**	**0**	**493**	**16,590**	**83**	**0**	**16,673**	**270**	**30,520**	**189**	**64**	
1966	0	0	0	597	19,296	97	0	19,393	163	26,236	188	97	
1967	0	0	0	580	18,057	91	0	18,147	563	35,277	316	77	
1968	0	0	0	684	18,910	95	0	19,005	1,505	27,175	436	66	
1969	0	0	0	590	19,691	99	0	19,790	2,458	40,418	615	43	
1970	**0**	**0**	**0**	**636**	**21,589**	**107**	**0**	**21,696**	**3,132**	**38,071**	**525**	**48**	
1971	0	0	0	563	33,885	226	0	34,110	3,519	39,007	548	40	
1972	0	0	0	606	41,814	257	0	42,070	3,175	31,755	1,453	31	
1973	0	0	0	456	76,098	317	0	76,415	2,631	38,753	1,966	25	
1974	0	0	0	293	64,866	230	0	65,095	3,698	46,422	2,453	20	
1975	**0**	**0**	**0**	**275**	**78,345**	**247**	**0**	**78,592**	**6,071**	**40,103**	**3,246**	**20**	
1976	0	0	0	295	96,841	635	0	97,476	4,807	23,193	3,616	19	
1977	0	0	0	359	125,002	2,041	0	127,043	8,115	14,251	3,582	28	
1978	0	0	0	302	98,480	2,682	0	101,162	7,659	37,206	2,978	16	
1979	0	0	0	445	98,080	3,074	0	101,153	8,762	33,920	3,889	9	
1980	**0**	**0**	**0**	**519**	**62,663**	**2,559**	**0**	**65,222**	**4,920**	**40,868**	**5,073**	**20**	
1981	0	0	0	655	44,972	1,067	0	46,039	3,206	29,772	5,686	23	
1982	0	0	0	534	15,827	313	0	16,140	3,735	50,232	4,843	13	
1983	0	0	0	465	10,956	230	0	11,185	5,613	56,912	6,075	7	
1984	0	0	0	573	4,475	263	0	4,738	14,144	43,222	7,682	9	
1985	**0**	**0**	**0**	**666**	**4,617**	**308**	**0**	**4,925**	**19,729**	**35,772**	**9,197**	**18**	
1986	0	0	0	444	5,332	348	0	5,680	26,215	45,239	10,119	47	
1987	0	0	0	643	3,324	350	0	3,674	30,387	32,308	10,599	38	
1988	0	0	0	553	12,464	167	0	12,631	30,863	30,760	10,110	21	
1989	0	0	0	518	15,072	299	0	15,370	32,519	33,752	9,154	6	
					Trillion Btu								
1960	**0.0**	**0.0**	**0.0**	**334.3**	**150.5**	**0.7**	**0.0**	**151.2**	*	**183.4**	**0.8**	*	**669.6**
1961	0.0	0.0	0.0	410.4	145.7	0.7	0.0	146.4	0.1	159.0	2.2	0.0	718.0
1962	0.0	0.0	0.0	410.6	107.3	0.5	0.0	107.8	0.1	236.3	2.3	0.2	757.4
1963	0.0	0.0	0.0	460.0	98.5	0.5	0.0	98.9	2.3	260.9	3.7	0.0	825.8
1964	0.0	0.0	0.0	555.6	107.8	0.5	0.0	108.3	4.4	230.9	4.5	0.2	904.0
1965	**0.0**	**0.0**	**0.0**	**528.7**	**104.3**	**0.5**	**0.0**	**104.8**	**3.2**	**319.0**	**4.2**	**0.7**	**960.5**
1966	0.0	0.0	0.0	639.6	121.3	0.6	0.0	121.9	1.9	273.2	4.2	1.0	1,041.8
1967	0.0	0.0	0.0	621.7	113.5	0.5	0.0	114.1	6.5	368.0	6.9	0.8	1,118.0
1968	0.0	0.0	0.0	731.5	118.9	0.6	0.0	119.4	17.0	282.6	9.4	0.7	1,160.6
1969	0.0	0.0	0.0	630.2	123.8	0.6	0.0	124.4	27.1	422.2	13.3	0.4	1,217.7
1970	**0.0**	**0.0**	**0.0**	**670.6**	**135.7**	**0.6**	**0.0**	**136.4**	**34.4**	**399.5**	**11.3**	**0.5**	**1,252.7**
1971	0.0	0.0	0.0	593.2	213.0	1.3	0.0	214.3	38.1	408.7	11.9	0.4	1,266.7
1972	0.0	0.0	0.0	643.3	262.9	1.5	0.0	264.3	34.3	329.6	31.5	0.3	1,303.3
1973	0.0	0.0	0.0	483.8	478.4	1.8	0.0	480.2	28.7	402.6	42.6	0.3	1,438.2
1974	0.0	0.0	0.0	312.3	407.8	1.3	0.0	409.1	41.3	484.7	53.2	0.2	1,300.8
1975	**0.0**	**0.0**	**0.0**	**291.9**	**492.6**	**1.4**	**0.0**	**494.0**	**66.9**	**417.3**	**70.2**	**0.2**	**1,340.4**
1976	0.0	0.0	0.0	313.0	608.8	3.6	0.0	612.5	53.1	240.6	78.2	0.2	1,297.5
1977	0.0	0.0	0.0	380.2	785.9	11.6	0.0	797.5	87.4	148.7	77.4	0.3	1,491.5
1978	0.0	0.0	0.0	320.3	619.1	15.4	0.0	634.6	83.8	385.5	64.3	0.2	1,488.7
1979	0.0	0.0	0.0	469.1	616.6	17.8	0.0	634.4	95.3	351.2	83.8	0.1	1,633.8
1980	**0.0**	**0.0**	**0.0**	**545.8**	**394.0**	**14.8**	**0.0**	**408.7**	**53.7**	**424.5**	**109.8**	**0.2**	**1,542.7**
1981	0.0	0.0	0.0	691.4	282.7	6.2	0.0	289.0	35.4	311.2	123.0	0.2	1,450.2
1982	0.0	0.0	0.0	562.1	99.5	1.8	0.0	101.3	41.4	525.1	104.7	0.1	1,334.8
1983	0.0	0.0	0.0	487.4	68.9	1.3	0.0	70.2	61.2	598.7	129.3	0.1	1,346.9
1984	0.0	0.0	0.0	601.7	28.1	1.5	0.0	29.7	153.4	446.2	163.6	0.1	1,394.6
1985	**0.0**	**0.0**	**0.0**	**700.3**	**29.0**	**1.8**	**0.0**	**30.8**	**213.3**	**369.8**	**195.6**	**0.2**	**1,510.0**
1986	0.0	0.0	0.0	464.2	33.5	2.0	0.0	35.5	283.1	464.2	215.2	0.5	1,462.7
1987	0.0	0.0	0.0	667.8	20.9	2.0	0.0	22.9	327.4	331.3	225.4	0.4	1,575.2
1988	0.0	0.0	0.0	572.8	78.4	1.0	0.0	79.3	331.6	314.8	213.3	0.2	1,512.1
1989	0.0	0.0	0.0	538.4	94.8	1.7	0.0	96.5	348.7	348.7	193.1	0.1	1,525.5

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 45. Energy Consumption Estimates by Source, 1960-1989, Colorado

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours				
1960	**2,941**	**188**	**1,617**	**1,125**	**4,194**	**480**	**277**	**3,153**	**378**	**16,461**	**1,883**	**781**	**30,348**	**0**	**970**	**0**	**0**	**-4,980**
1961	3,274	204	1,535	797	4,403	1,654	235	3,062	368	17,128	2,575	792	32,547	0	836	0	0	-4,701
1962	3,393	195	1,554	1,457	4,118	2,170	169	3,096	397	17,936	2,545	832	34,274	0	1,016	0	0	-4,114
1963	3,794	199	1,641	1,335	4,534	2,280	288	3,077	397	18,338	2,631	787	35,308	0	1,034	0	0	-3,143
1964	3,829	229	1,567	1,363	4,065	2,651	547	3,771	417	18,672	2,630	900	36,583	0	1,056	0	0	-2,943
1965	**4,204**	**224**	**1,423**	**1,111**	**3,925**	**3,426**	**1,108**	**3,339**	**416**	**19,321**	**2,056**	**933**	**37,057**	**0**	**938**	**0**	**0**	**-2,572**
1966	4,727	227	1,647	999	4,564	4,310	1,251	3,496	432	20,138	1,788	1,060	39,686	0	998	0	0	-4,255
1967	4,762	232	1,753	666	4,708	5,422	2,734	4,403	427	20,885	1,385	1,060	43,444	0	928	0	0	-3,286
1968	4,944	257	2,430	474	5,564	6,387	1,594	4,824	469	22,663	1,555	1,055	47,016	0	944	0	0	-3,602
1969	4,603	272	2,764	349	5,474	6,876	1,275	4,918	416	23,970	2,144	1,128	49,313	0	993	0	0	-1,914
1970	**5,101**	**282**	**3,220**	**337**	**5,212**	**7,476**	**822**	**4,710**	**423**	**26,103**	**1,507**	**1,129**	**50,939**	**0**	**1,236**	**0**	**0**	**-2,230**
1971	4,600	289	2,973	317	6,249	7,687	638	5,064	435	27,660	1,593	1,037	53,653	0	1,585	0	0	-2,478
1972	5,295	310	3,087	324	6,883	7,758	628	5,949	466	30,020	1,966	1,141	58,223	0	1,243	0	0	618
1973	6,296	324	3,406	334	7,909	7,717	571	5,831	456	31,522	2,286	1,203	61,236	0	1,281	0	0	-153
1974	6,494	313	2,666	324	8,813	7,347	327	5,129	437	30,779	3,050	1,217	60,091	0	1,415	0	0	-22
1975	**7,603**	**308**	**2,231**	**267**	**8,846**	**7,151**	**278**	**5,053**	**458**	**31,916**	**3,388**	**1,351**	**60,938**	**0**	**1,507**	**0**	**0**	**-1,877**
1976	9,003	302	2,541	262	9,439	7,732	249	5,445	509	32,947	3,833	1,482	64,439	0	1,288	0	0	-2,975
1977	10,689	282	2,628	287	9,935	7,900	255	5,256	641	34,312	3,246	1,694	66,154	225	1,072	0	0	-6,525
1978	10,576	268	2,222	297	10,238	8,297	371	5,979	688	36,885	3,928	1,381	70,286	609	1,343	0	0	-3,644
1979	11,347	292	2,754	270	12,053	6,047	276	3,905	720	35,268	929	1,583	63,805	213	1,612	0	0	-5,017
1980	**11,981**	**256**	**2,284**	**265**	**11,228**	**4,725**	**413**	**3,870**	**641**	**34,282**	**1,814**	**1,646**	**61,167**	**667**	**1,717**	**0**	**0**	**-5,019**
1981	13,501	212	1,829	257	8,725	5,494	215	3,715	615	34,625	136	1,088	56,698	749	1,399	0	0	54
1982	13,875	225	1,620	188	9,228	5,556	262	4,618	561	35,099	15	1,143	58,289	569	1,650	0	1	-1,044
1983	13,004	214	1,880	179	10,934	6,134	269	4,782	587	33,608	330	1,317	60,021	748	1,871	0	1	2,687
1984	14,740	230	3,089	143	11,340	8,505	186	2,543	626	33,612	293	1,509	61,846	55	2,169	0	2	-755
1985	**15,241**	**219**	**3,103**	**142**	**9,552**	**7,861**	**104**	**2,556**	**583**	**35,733**	**213**	**1,242**	**61,089**	**-32**	**2,357**	**0**	**3**	**-1,142**
1986	15,029	198	3,091	176	10,119	8,065	54	2,194	570	36,505	1,037	988	62,799	52	2,264	0	4	-104
1987	15,007	210	3,110	153	9,864	8,372	64	2,278	645	36,111	209	1,193	61,999	174	1,818	0	2	1,812
1988	15,860	228	3,552	167	11,190	6,460	72	2,631	622	36,437	50	1,337	62,515	660	1,745	0	2	-749
1989	16,393	243	2,928	181	10,204	5,337	109	3,640	638	35,403	150	1,432	60,023	529	1,706	0	1	-2,160

Year	Coal	Natural Gas[1]	Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Trillion Btu																		
1960	**68.2**	**195.0**	**10.7**	**5.7**	**24.4**	**2.6**	**1.6**	**12.6**	**2.3**	**86.5**	**11.8**	**4.7**	**162.9**	**0.0**	**10.4**	**0.0**	**0.0**	**-17.0**	**419.5**
1961	76.9	210.9	10.2	4.0	25.6	9.2	1.3	12.3	2.2	90.0	16.2	4.8	175.8	0.0	8.9	0.0	0.0	-16.0	456.5
1962	79.3	202.3	10.3	7.4	24.0	12.1	1.0	12.4	2.4	94.2	16.0	5.0	184.8	0.0	10.7	0.0	0.0	-14.0	463.1
1963	89.0	180.4	10.9	6.7	26.4	12.8	1.6	12.3	2.4	96.3	16.5	4.7	190.8	0.0	10.8	0.0	0.0	-10.7	460.2
1964	89.6	205.3	10.4	6.9	23.7	14.9	3.1	15.1	2.5	98.1	16.5	5.3	196.5	0.0	11.0	0.0	0.0	-10.0	492.4
1965	**98.1**	**204.5**	**9.4**	**5.6**	**22.9**	**19.3**	**6.3**	**13.4**	**2.5**	**101.5**	**12.9**	**5.5**	**199.3**	**0.0**	**9.8**	**0.0**	**0.0**	**-8.8**	**503.0**
1966	109.0	207.7	10.9	5.0	26.6	24.3	7.1	14.0	2.6	105.8	11.2	6.2	213.8	0.0	10.4	0.0	0.0	-14.5	526.4
1967	107.9	210.2	11.6	3.4	27.4	30.6	15.5	16.9	2.6	109.7	8.7	6.2	232.6	0.0	9.7	0.0	0.0	-11.2	549.2
1968	113.0	253.5	16.1	2.4	32.4	36.0	9.0	18.4	2.8	119.0	9.8	6.2	252.3	0.0	9.8	0.0	0.0	-12.3	616.3
1969	104.5	268.9	18.3	1.8	31.9	38.8	7.2	18.7	2.5	125.9	13.5	6.6	265.3	0.0	10.4	0.0	0.0	-6.5	642.5
1970	**115.7**	**275.0**	**21.4**	**1.7**	**30.4**	**42.3**	**4.7**	**17.8**	**2.6**	**137.1**	**9.5**	**6.6**	**273.9**	**0.0**	**13.0**	**0.0**	**0.0**	**-7.6**	**669.9**
1971	105.7	281.8	19.7	1.6	36.4	43.4	3.6	19.1	2.6	145.3	10.0	6.1	287.9	0.0	16.6	0.0	0.0	-8.5	683.6
1972	119.0	301.7	20.5	1.6	40.1	43.9	3.6	22.4	2.8	157.7	12.4	6.7	311.6	0.0	12.9	0.0	0.0	2.1	747.3
1973	140.5	311.7	22.6	1.7	46.1	43.6	3.2	21.8	2.8	165.6	14.4	7.1	328.9	0.0	13.3	0.0	0.0	-0.5	793.9
1974	138.3	302.7	17.7	1.6	51.3	41.5	1.9	19.1	2.7	161.7	19.2	7.2	323.9	0.0	14.8	0.0	0.0	-0.1	779.6
1975	**159.3**	**281.0**	**14.8**	**1.3**	**51.5**	**40.4**	**1.6**	**18.8**	**2.8**	**167.7**	**21.3**	**8.0**	**328.2**	**0.0**	**15.7**	**0.0**	**0.0**	**-6.4**	**777.8**
1976	185.1	276.3	16.9	1.3	55.0	43.7	1.4	20.2	3.1	173.1	24.1	8.7	347.4	0.0	13.4	0.0	0.0	-10.2	812.1
1977	223.8	254.0	17.4	1.5	57.9	44.7	1.4	19.3	3.9	180.2	20.4	9.9	356.7	2.4	11.2	0.0	0.0	-22.3	825.8
1978	218.6	234.6	14.7	1.5	59.6	46.9	2.1	21.9	4.2	193.8	24.7	8.0	377.5	6.7	13.9	0.0	0.0	-12.4	838.8
1979	238.0	260.8	18.3	1.4	70.2	34.2	1.6	14.4	4.4	185.3	5.8	9.1	344.5	2.3	16.7	0.0	0.0	-17.1	845.3
1980	**247.6**	**254.6**	**15.2**	**1.3**	**65.4**	**26.7**	**2.3**	**14.2**	**3.9**	**180.1**	**11.4**	**9.4**	**329.9**	**7.3**	**17.8**	**0.0**	**0.0**	**-17.1**	**840.1**
1981	278.7	210.5	12.1	1.3	50.8	31.0	1.2	13.5	3.7	181.9	0.9	6.5	303.0	8.3	14.6	0.0	0.0	0.2	815.3
1982	276.4	225.0	10.8	0.9	53.8	31.4	1.5	16.7	3.4	184.4	0.1	6.8	309.7	6.3	17.2	0.0	*	-3.6	831.1
1983	254.7	215.1	12.5	0.9	63.7	34.7	1.5	17.3	3.6	176.5	2.1	7.8	320.6	8.2	19.7	0.0	*	9.2	827.4
1984	286.9	230.1	20.5	0.7	66.1	48.1	1.1	9.2	3.8	176.6	1.8	8.9	336.7	0.6	22.4	0.0	*	-2.6	874.1
1985	**299.1**	**218.7**	**20.6**	**0.7**	**55.6**	**44.5**	**0.6**	**9.2**	**3.5**	**187.7**	**1.3**	**7.4**	**331.2**	**-0.3**	**24.4**	**0.0**	*	**-3.9**	**869.1**
1986	295.4	198.4	20.5	0.9	58.9	45.6	0.3	8.0	3.5	191.8	6.5	6.1	342.1	0.6	23.2	0.0	*	-0.4	859.4
1987	296.5	210.1	20.6	0.8	57.5	47.4	0.4	8.3	3.9	189.7	1.3	7.2	337.1	1.9	18.6	0.0	*	6.2	870.5
1988	311.4	229.0	23.6	0.8	65.2	36.5	0.4	9.6	3.8	191.4	0.3	8.0	339.7	7.1	17.9	0.0	*	-2.6	902.4
1989	323.7	245.6	19.4	0.9	59.4	30.2	0.6	13.4	3.9	186.0	0.9	8.6	323.3	5.7	17.6	0.0	*	-7.4	908.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 46. Residential Energy Consumption Estimates, 1960–1989, Colorado

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**90**	**0**	**90**	**52**	**148**	**50**	**2,097**	**2,294**	**1,776**	**4,418**		
1961	95	0	95	56	153	54	2,080	2,286	1,913	4,664		
1962	115	0	115	57	120	40	2,084	2,243	2,054	4,937		
1963	94	0	94	55	108	75	2,073	2,256	2,228	5,327		
1964	102	0	102	66	68	119	2,644	2,830	2,433	5,794		
1965	**112**	**0**	**112**	**65**	**90**	**285**	**2,224**	**2,599**	**2,521**	**6,018**		
1966	120	0	120	79	114	296	2,396	2,806	2,699	6,476		
1967	95	0	95	75	202	282	3,104	3,588	2,903	6,936		
1968	98	0	98	78	217	157	3,209	3,583	3,221	7,685		
1969	110	0	110	81	171	149	3,226	3,545	3,533	8,440		
1970	**80**	**0**	**80**	**83**	**168**	**112**	**3,080**	**3,361**	**3,859**	**9,351**		
1971	78	0	78	85	196	78	3,265	3,540	4,209	10,175		
1972	78	0	78	89	218	64	3,748	4,031	4,668	11,236		
1973	63	0	63	98	250	58	3,643	3,952	5,202	12,453		
1974	35	0	35	92	295	39	3,013	3,348	5,385	13,131		
1975	**7**	**0**	**7**	**100**	**283**	**36**	**2,862**	**3,181**	**5,142**	**12,403**		
1976	19	0	19	107	285	37	3,052	3,375	5,351	12,890		
1977	28	0	28	100	291	36	2,839	3,166	5,527	13,346		
1978	75	0	75	92	289	44	3,540	3,873	5,948	14,552		
1979	76	0	76	98	333	25	1,122	1,481	6,415	15,482		
1980	**35**	**0**	**35**	**90**	**78**	**23**	**1,670**	**1,772**	**6,693**	**16,275**		
1981	33	1	33	75	54	60	2,063	2,177	8,498	20,253		
1982	44	0	44	85	58	170	2,265	2,493	9,064	21,769		
1983	28	0	28	84	136	225	2,773	3,135	9,513	22,791		
1984	44	0	44	93	139	157	1,449	1,745	8,669	20,131		
1985	**55**	**0**	**55**	**90**	**106**	**56**	**1,541**	**1,703**	**8,861**	**20,780**		
1986	37	0	37	81	63	25	1,408	1,497	8,863	20,320		
1987	28	0	28	86	59	21	1,431	1,511	9,218	21,007		
1988	33	0	33	93	53	27	1,353	1,433	9,551	21,568		
1989	22	0	22	92	42	20	1,538	1,600	9,595	21,523		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**2.1**	**0.0**	**2.1**	**54.1**	**0.9**	**0.3**	**8.4**	**9.6**	**6.1**	**71.8**	**15.1**	**86.9**
1961	2.2	0.0	2.2	57.7	0.9	0.3	8.3	9.5	6.5	75.9	15.9	91.8
1962	2.6	0.0	2.6	59.2	0.7	0.2	8.4	9.3	7.0	78.1	16.8	94.9
1963	2.1	0.0	2.1	50.3	0.6	0.4	8.3	9.4	7.6	69.4	18.2	87.6
1964	2.3	0.0	2.3	59.2	0.4	0.7	10.6	11.7	8.3	81.5	19.8	101.3
1965	**2.6**	**0.0**	**2.6**	**59.6**	**0.5**	**1.6**	**8.9**	**11.1**	**8.6**	**81.8**	**20.5**	**102.4**
1966	2.7	0.0	2.7	72.3	0.7	1.7	9.6	12.0	9.2	96.2	22.1	118.3
1967	2.1	0.0	2.1	68.4	1.2	1.6	11.9	14.7	9.9	95.2	23.7	118.8
1968	2.2	0.0	2.2	77.4	1.3	0.9	12.3	14.4	11.0	105.0	26.2	131.2
1969	2.5	0.0	2.5	80.0	1.0	0.8	12.3	14.1	12.1	108.6	28.8	137.4
1970	**1.8**	**0.0**	**1.8**	**80.4**	**1.0**	**0.6**	**11.6**	**13.3**	**13.2**	**108.6**	**31.9**	**140.5**
1971	1.7	0.0	1.7	82.7	1.1	0.4	12.3	13.9	14.4	112.6	34.7	147.3
1972	1.7	0.0	1.7	89.2	1.3	0.4	14.1	15.7	15.9	122.6	38.3	160.9
1973	1.4	0.0	1.4	96.5	1.5	0.3	13.6	15.4	17.7	131.1	42.5	173.6
1974	0.8	0.0	0.8	89.9	1.7	0.2	11.2	13.2	18.4	122.2	44.8	167.0
1975	**0.2**	**0.0**	**0.2**	**89.5**	**1.6**	**0.2**	**10.6**	**12.5**	**17.5**	**119.7**	**42.3**	**162.0**
1976	0.4	0.0	0.4	96.8	1.7	0.2	11.3	13.2	18.3	128.6	44.0	172.6
1977	0.6	0.0	0.6	88.7	1.7	0.2	10.4	12.3	18.9	120.5	45.5	166.1
1978	1.5	0.0	1.5	79.3	1.7	0.2	13.0	14.9	20.3	116.0	49.7	165.7
1979	1.6	0.0	1.6	86.0	1.9	0.1	4.1	6.2	21.9	115.8	52.8	168.6
1980	**0.8**	**0.0**	**0.8**	**89.2**	**0.5**	**0.1**	**6.1**	**6.7**	**22.8**	**119.5**	**55.5**	**175.1**
1981	0.7	*	0.7	74.7	0.3	0.3	7.5	8.2	29.0	112.5	69.1	181.6
1982	1.0	0.0	1.0	84.8	0.3	1.0	8.2	9.5	30.9	126.1	74.3	200.4
1983	0.6	0.0	0.6	84.7	0.8	1.3	10.0	12.1	32.5	129.9	77.8	207.6
1984	1.0	0.0	1.0	93.7	0.8	0.9	5.2	6.9	29.6	131.1	68.7	199.8
1985	**1.2**	**0.0**	**1.2**	**90.1**	**0.6**	**0.3**	**5.6**	**6.5**	**30.2**	**128.0**	**70.9**	**198.9**
1986	0.8	0.0	0.8	81.4	0.4	0.1	5.1	5.6	30.2	118.1	69.3	187.4
1987	0.6	0.0	0.6	86.3	0.3	0.1	5.2	5.7	31.5	124.1	71.7	195.7
1988	0.7	0.0	0.7	93.5	0.3	0.2	4.9	5.4	32.6	132.2	73.6	205.8
1989	0.5	0.0	0.5	92.7	0.2	0.1	5.7	6.0	32.7	131.9	73.4	205.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 47. Commercial Energy Consumption Estimates, 1960-1989, Colorado

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**167**	**0**	**167**	**28**	**123**	**66**	**370**	**135**	**56**	**750**	**1,772**	**4,408**		
1961	177	0	177	31	127	71	367	147	71	784	1,849	4,506		
1962	214	0	214	32	100	52	368	121	79	719	2,126	5,112		
1963	174	0	174	32	90	99	366	123	81	759	2,496	5,969		
1964	190	0	190	38	57	157	467	178	67	925	2,727	6,494		
1965	**207**	**0**	**207**	**39**	**75**	**376**	**393**	**186**	**49**	**1,078**	**2,842**	**6,785**		
1966	222	0	222	42	95	391	423	180	47	1,136	3,215	7,715		
1967	176	0	176	40	168	373	548	209	35	1,333	3,383	8,083		
1968	183	0	183	47	180	208	566	142	41	1,137	3,780	9,019		
1969	204	0	204	52	142	197	569	124	59	1,091	4,185	9,997		
1970	**149**	**0**	**149**	**59**	**140**	**148**	**544**	**124**	**38**	**993**	**4,594**	**11,134**		
1971	145	0	145	63	163	103	576	154	42	1,039	5,000	12,089		
1972	145	0	145	63	182	85	661	134	47	1,110	5,519	13,284		
1973	116	0	116	70	208	77	643	154	51	1,134	5,981	14,320		
1974	66	0	66	68	246	52	532	112	70	1,011	6,186	15,084		
1975	**14**	**0**	**14**	**76**	**235**	**48**	**505**	**109**	**75**	**972**	**6,276**	**15,139**		
1976	35	0	35	76	237	49	539	117	92	1,035	5,708	13,751		
1977	53	0	53	73	242	48	501	118	91	1,000	6,064	14,642		
1978	139	0	139	71	241	58	625	117	100	1,140	6,454	15,790		
1979	141	0	141	75	277	33	198	137	13	658	6,867	16,572		
1980	**65**	**0**	**65**	**67**	**339**	**6**	**295**	**312**	**3**	**955**	**7,277**	**17,695**		
1981	61	*	61	59	311	9	364	288	3	975	8,360	19,924		
1982	83	0	83	67	151	23	400	315	5	893	9,949	23,895		
1983	53	0	53	65	817	27	489	282	6	1,621	10,609	25,417		
1984	82	0	82	72	835	18	256	357	6	1,472	11,668	27,096		
1985	**101**	**0**	**101**	**69**	**681**	**17**	**272**	**176**	**5**	**1,151**	**12,344**	**28,946**		
1986	68	0	68	62	406	12	249	191	305	1,162	12,450	28,545		
1987	53	0	53	64	958	21	252	191	0	1,422	12,638	28,802		
1988	61	0	61	69	1,019	12	239	177	0	1,446	13,489	30,462		
1989	42	0	42	67	539	76	271	164	43	1,093	14,116	31,664		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**3.8**	**0.0**	**3.8**	**29.5**	**0.7**	**0.4**	**1.5**	**0.7**	**0.4**	**3.6**	**6.0**	**43.0**	**15.0**	**58.0**
1961	4.0	0.0	4.0	32.0	0.7	0.4	1.5	0.8	0.4	3.8	6.3	46.2	15.4	61.5
1962	4.9	0.0	4.9	33.0	0.6	0.3	1.5	0.6	0.5	3.5	7.3	48.7	17.4	66.1
1963	4.0	0.0	4.0	28.7	0.5	0.6	1.5	0.6	0.5	3.7	8.5	44.9	20.4	65.3
1964	4.4	0.0	4.4	34.5	0.3	0.9	1.9	0.9	0.4	4.4	9.3	52.6	22.2	74.8
1965	**4.7**	**0.0**	**4.7**	**35.8**	**0.4**	**2.1**	**1.6**	**1.0**	**0.3**	**5.4**	**9.7**	**55.7**	**23.1**	**78.8**
1966	5.1	0.0	5.1	38.3	0.6	2.2	1.7	0.9	0.3	5.7	11.0	60.1	26.3	86.4
1967	4.0	0.0	4.0	36.3	1.0	2.1	2.1	1.1	0.2	6.5	11.5	58.3	27.6	85.9
1968	4.1	0.0	4.1	46.7	1.1	1.2	2.2	0.7	0.3	5.4	12.9	69.1	30.8	99.9
1969	4.6	0.0	4.6	51.6	0.8	1.1	2.2	0.7	0.4	5.1	14.3	75.6	34.1	109.7
1970	**3.3**	**0.0**	**3.3**	**57.5**	**0.8**	**0.8**	**2.1**	**0.7**	**0.2**	**4.6**	**15.7**	**81.1**	**38.0**	**119.1**
1971	3.2	0.0	3.2	61.2	1.0	0.6	2.2	0.8	0.3	4.8	17.1	86.2	41.2	127.4
1972	3.2	0.0	3.2	63.2	1.1	0.5	2.5	0.7	0.3	5.0	18.8	90.2	45.3	135.5
1973	2.5	0.0	2.5	68.5	1.2	0.4	2.4	0.8	0.3	5.2	20.4	96.6	48.9	145.5
1974	1.4	0.0	1.4	66.9	1.4	0.3	2.0	0.6	0.4	4.7	21.1	94.2	51.5	145.6
1975	**0.3**	**0.0**	**0.3**	**68.3**	**1.4**	**0.3**	**1.9**	**0.6**	**0.5**	**4.6**	**21.4**	**94.6**	**51.7**	**146.3**
1976	0.7	0.0	0.7	68.5	1.4	0.3	2.0	0.6	0.6	4.9	19.5	93.5	46.9	140.5
1977	1.1	0.0	1.1	64.5	1.4	0.3	1.8	0.6	0.6	4.7	20.7	91.0	50.0	140.9
1978	2.8	0.0	2.8	61.5	1.4	0.3	2.3	0.6	0.6	5.3	22.0	91.6	53.9	145.4
1979	3.1	0.0	3.1	65.9	1.6	0.2	0.7	0.7	0.1	3.3	23.4	95.7	56.5	152.2
1980	**1.4**	**0.0**	**1.4**	**66.6**	**2.0**	*	**1.1**	**1.6**	*	**4.7**	**24.8**	**97.6**	**60.4**	**157.9**
1981	1.3	*	1.3	58.6	1.8	0.1	1.3	1.5	*	4.7	28.5	93.2	68.0	161.2
1982	1.8	0.0	1.8	67.1	0.9	0.1	1.4	1.7	*	4.1	33.9	106.9	81.5	188.4
1983	1.1	0.0	1.1	65.0	4.8	0.2	1.8	1.5	*	8.2	36.2	110.5	86.7	197.3
1984	1.8	0.0	1.8	72.1	4.9	0.1	0.9	1.9	*	7.8	39.8	121.4	92.4	213.9
1985	**2.2**	**0.0**	**2.2**	**68.9**	**4.0**	**0.1**	**1.0**	**0.9**	*	**6.0**	**42.1**	**119.2**	**98.8**	**218.0**
1986	1.5	0.0	1.5	61.8	2.4	0.1	0.9	1.0	1.9	6.3	42.5	112.0	97.4	209.4
1987	1.1	0.0	1.1	64.4	5.6	0.1	0.9	1.0	0.0	7.6	43.1	116.3	98.3	214.5
1988	1.3	0.0	1.3	69.0	5.9	0.1	0.9	0.9	0.0	7.8	46.0	124.1	103.9	228.1
1989	0.9	0.0	0.9	68.3	3.1	0.4	1.0	0.9	0.3	5.7	48.2	123.1	108.0	231.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 48. Industrial Energy Consumption Estimates, 1960–1989, Colorado

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**1,438**	**0**	**1,438**	**69**	**1,617**	**1,768**	**161**	**593**	**98**	**1,303**	**1,583**	**781**	**7,904**	**1**	**1,289**	**3,206**		
1961	1,609	0	1,609	78	1,535	1,791	110	553	95	1,266	2,184	792	8,327	1	1,428	3,479		
1962	1,508	0	1,508	73	1,554	1,728	78	579	116	1,443	2,184	832	8,513	1	1,311	3,152		
1963	1,697	0	1,697	76	1,641	1,691	113	570	116	1,206	2,259	787	8,383	1	1,337	3,197		
1964	1,627	0	1,627	85	1,567	1,719	272	585	121	1,111	1,815	900	8,091	1	1,440	3,429		
1965	**1,698**	**0**	**1,698**	**82**	**1,423**	**1,994**	**447**	**641**	**130**	**1,039**	**1,254**	**933**	**7,861**	**1**	**1,576**	**3,763**		
1966	1,661	0	1,661	67	1,647	2,168	565	615	135	1,122	1,204	1,060	8,515	1	1,732	4,156		
1967	1,511	0	1,511	78	1,753	2,295	2,079	674	167	1,121	918	1,060	10,067	1	1,922	4,591		
1968	1,676	0	1,676	86	2,430	2,440	1,229	888	184	1,072	1,186	1,055	10,485	1	2,039	4,864		
1969	1,411	0	1,411	89	2,764	2,262	928	982	134	1,028	1,645	1,128	10,872	1	2,174	5,192		
1970	**1,657**	**0**	**1,657**	**88**	**3,220**	**2,228**	**561**	**953**	**137**	**1,036**	**1,128**	**1,129**	**10,392**	**1**	**2,334**	**5,656**		
1971	1,298	0	1,298	80	2,973	2,863	456	1,043	149	1,017	1,222	1,037	10,760	1	2,503	6,050		
1972	1,667	0	1,667	87	3,087	2,870	479	1,310	160	976	1,408	1,141	11,430	1	2,699	6,496		
1973	1,737	0	1,737	94	3,406	3,250	435	1,331	121	975	1,552	1,203	12,273	1	2,824	6,761		
1974	1,652	0	1,652	84	2,666	3,557	235	1,400	116	963	2,331	1,217	12,486	1	3,349	8,166		
1975	**1,871**	**0**	**1,871**	**73**	**2,231**	**3,419**	**193**	**1,498**	**156**	**860**	**2,327**	**1,351**	**12,035**	**1**	**4,407**	**10,630**		
1976	1,669	0	1,669	70	2,541	3,598	163	1,644	173	879	2,959	1,482	13,440	1	5,646	13,600		
1977	1,771	0	1,771	69	2,628	3,722	171	1,707	238	983	2,613	1,694	13,756	1	6,245	15,080		
1978	1,418	0	1,418	70	2,222	3,642	270	1,579	256	774	3,165	1,381	13,288	1	6,506	15,917		
1979	1,615	0	1,615	77	2,754	3,364	218	2,536	268	730	502	1,583	11,955	1	6,871	16,582		
1980	**1,757**	**0**	**1,757**	**60**	**2,284**	**3,983**	**384**	**1,860**	**238**	**695**	**1,640**	**1,646**	**12,729**	**1**	**6,900**	**16,778**		
1981	1,623	1	1,624	58	1,829	2,970	146	1,184	229	594	129	1,088	8,168	1	6,921	16,495		
1982	1,108	1	1,109	58	1,620	2,704	69	1,881	209	583	9	1,143	8,217	1	4,680	11,240		
1983	729	1	730	52	1,880	3,615	17	1,431	218	502	259	1,317	9,240	1	4,045	9,692		
1984	856	0	856	52	3,089	3,693	11	747	233	504	265	1,509	10,051	1	5,376	12,484		
1985	**791**	**0**	**791**	**48**	**3,103**	**2,293**	**31**	**681**	**217**	**580**	**184**	**1,242**	**8,332**	**1**	**5,468**	**12,824**		
1986	773	0	773	44	3,091	3,448	17	490	212	555	732	988	9,533	1	5,848	13,409		
1987	748	0	748	43	3,110	2,659	22	561	240	530	209	1,193	8,526	1	6,216	14,165		
1988	679	0	679	50	3,552	3,690	33	994	231	477	24	1,337	10,338	1	6,295	14,217		
1989	643	0	643	64	2,928	2,825	13	1,783	237	505	106	1,432	9,829	1	6,427	14,417		
					Trillion Btu													
1960	**36.6**	**0.0**	**36.6**	**71.8**	**10.7**	**10.3**	**0.9**	**2.4**	**0.6**	**6.8**	**10.0**	**4.7**	**46.4**	*	**4.4**	**159.2**	**10.9**	**170.1**
1961	41.2	0.0	41.2	81.1	10.2	10.4	0.6	2.2	0.6	6.7	13.7	4.8	49.2	*	4.9	176.4	11.9	188.2
1962	38.6	0.0	38.6	75.1	10.3	10.1	0.4	2.3	0.7	7.6	13.7	5.0	50.1	*	4.5	168.4	10.8	179.2
1963	43.7	0.0	43.7	69.2	10.9	9.8	0.6	2.3	0.7	6.3	14.2	4.7	49.6	*	4.6	167.1	10.9	178.0
1964	41.8	0.0	41.8	76.5	10.4	10.0	1.5	2.3	0.7	5.8	11.4	5.3	47.6	*	4.9	170.8	11.7	182.5
1965	**44.2**	**0.0**	**44.2**	**74.9**	**9.4**	**11.6**	**2.5**	**2.6**	**0.8**	**5.5**	**7.9**	**5.5**	**45.8**	*	**5.4**	**170.3**	**12.8**	**183.1**
1966	43.0	0.0	43.0	61.3	10.9	12.6	3.2	2.5	0.8	5.9	7.6	6.2	49.7	*	5.9	160.0	14.2	174.2
1967	38.7	0.0	38.7	70.9	11.6	13.4	11.8	2.6	1.0	5.9	5.8	6.2	58.3	*	6.6	174.4	15.7	190.1
1968	42.9	0.0	42.9	85.3	16.1	14.2	7.0	3.4	1.1	5.6	7.5	6.2	61.1	*	7.0	196.2	16.6	212.8
1969	35.8	0.0	35.8	88.1	18.3	13.2	5.3	3.7	0.8	5.4	10.3	6.6	63.7	*	7.4	195.0	17.7	212.8
1970	**41.4**	**0.0**	**41.4**	**85.3**	**21.4**	**13.0**	**3.2**	**3.6**	**0.8**	**5.4**	**7.1**	**6.6**	**61.1**	*	**8.0**	**195.8**	**19.3**	**215.1**
1971	32.9	0.0	32.9	77.6	19.7	16.7	2.6	3.9	0.9	5.3	7.7	6.1	62.9	*	8.5	182.0	20.6	202.6
1972	41.5	0.0	41.5	87.5	20.5	16.7	2.7	4.9	1.0	5.1	8.9	6.7	66.5	*	9.2	204.6	22.2	226.8
1973	43.6	0.0	43.6	92.5	22.6	18.9	2.5	5.0	0.7	5.1	9.8	7.1	71.7	*	9.6	217.3	23.1	240.4
1974	41.6	0.0	41.6	82.5	17.7	20.7	1.3	5.2	0.7	5.1	14.7	7.2	72.5	*	11.4	208.1	27.9	235.9
1975	**45.8**	**0.0**	**45.8**	**65.6**	**14.8**	**19.9**	**1.1**	**5.6**	**0.9**	**4.5**	**14.6**	**8.0**	**69.4**	*	**15.0**	**195.9**	**36.3**	**232.2**
1976	41.4	0.0	41.4	63.2	16.9	21.0	0.9	6.1	1.0	4.6	18.6	8.7	77.8	*	19.3	201.6	46.4	248.1
1977	43.5	0.0	43.5	60.9	17.4	21.7	1.0	6.3	1.4	5.2	16.4	9.9	79.3	*	21.3	205.1	51.5	256.5
1978	34.9	0.0	34.9	60.4	14.7	21.2	1.5	5.8	1.6	4.1	19.9	8.0	76.8	*	22.2	194.2	54.3	248.5
1979	40.5	0.0	40.5	68.0	18.3	19.6	1.2	9.3	1.6	3.8	3.2	9.1	66.2	*	23.4	198.1	56.6	254.7
1980	**43.1**	**0.0**	**43.1**	**59.9**	**15.2**	**23.2**	**2.2**	**6.8**	**1.4**	**3.6**	**10.3**	**9.4**	**72.2**	*	**23.5**	**198.7**	**57.2**	**256.0**
1981	39.6	*	39.7	57.3	12.1	17.3	0.8	4.3	1.4	3.1	0.8	6.5	46.4	*	23.6	167.0	56.3	223.3
1982	25.6	*	25.6	58.5	10.8	15.8	0.4	6.8	1.3	3.1	0.1	6.8	44.9	*	16.0	145.0	38.4	183.4
1983	15.6	*	15.6	52.7	12.5	21.1	0.1	5.2	1.3	2.6	1.6	7.8	52.2	*	13.8	134.4	33.1	167.4
1984	18.5	0.0	18.5	52.2	20.5	21.5	0.1	2.7	1.4	2.6	1.7	8.9	59.4	*	18.3	148.4	42.6	191.0
1985	**17.1**	**0.0**	**17.1**	**47.7**	**20.6**	**13.4**	**0.2**	**2.5**	**1.3**	**3.0**	**1.2**	**7.4**	**49.5**	*	**18.7**	**132.9**	**43.8**	**176.7**
1986	16.6	0.0	16.6	43.9	20.5	20.1	0.1	1.8	1.3	2.9	4.6	6.1	57.4	*	20.0	137.8	45.7	183.6
1987	15.7	0.0	15.7	43.0	20.6	15.5	0.1	2.1	1.5	2.8	1.3	7.2	51.1	*	21.2	131.1	48.3	179.4
1988	14.5	0.0	14.5	50.2	23.6	21.5	0.2	3.6	1.4	2.5	0.1	8.0	61.0	*	21.5	147.1	48.5	195.6
1989	13.4	0.0	13.4	64.3	19.4	16.5	0.1	6.6	1.4	2.7	0.7	8.6	55.8	*	21.9	155.5	49.2	204.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* *Btu value less than 0.05, and physical unit value less than 0.5.*
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 49. Transportation Energy Consumption Estimates, 1960-1989, Colorado

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**25**	**1**	**1,125**	**2,146**	**480**	**93**	**280**	**15,023**	**137**	**19,284**	**0**		**0**	
1961	7	2	797	2,322	1,654	62	272	15,714	216	21,038	0		0	
1962	6	1	1,457	2,162	2,170	64	281	16,372	196	22,704	0		0	
1963	6	2	1,335	2,640	2,280	68	281	17,009	222	23,836	0		0	
1964	6	1	1,363	2,216	2,651	76	295	17,384	695	24,681	0		0	
1965	**6**	**2**	**1,111**	**1,763**	**3,426**	**81**	**286**	**18,097**	**713**	**25,476**	**0**		**0**	
1966	5	1	999	2,184	4,310	63	297	18,836	492	27,181	0		0	
1967	4	2	666	2,039	5,422	78	260	19,555	383	28,403	0		0	
1968	4	2	474	2,716	6,387	161	286	21,450	213	31,687	0		0	
1969	2	2	349	2,879	6,876	141	281	22,819	209	33,553	0		0	
1970	**3**	**2**	**337**	**2,655**	**7,476**	**133**	**286**	**24,943**	**99**	**35,929**	**0**		**0**	
1971	2	2	317	2,995	7,687	180	286	26,489	51	38,005	0		0	
1972	2	3	324	3,563	7,758	229	306	28,909	30	41,120	0		0	
1973	1	3	334	4,063	7,717	214	336	30,393	57	43,114	0		0	
1974	1	2	324	4,471	7,347	184	322	29,704	106	42,459	0		0	
1975	*****	**5**	**267**	**4,290**	**7,151**	**188**	**302**	**30,948**	**104**	**43,250**	**0**		**0**	
1976	*	7	262	4,872	7,732	209	336	31,950	141	45,503	0		0	
1977	*	7	287	5,447	7,900	209	402	33,211	103	47,560	0		0	
1978	0	5	297	5,723	8,297	236	432	35,995	107	51,087	0		0	
1979	0	7	270	7,618	6,047	49	452	34,401	3	48,839	0		0	
1980	**0**	**8**	**265**	**6,554**	**4,725**	**45**	**402**	**33,275**	**0**	**45,267**	**0**		**0**	
1981	0	7	257	5,196	5,494	104	386	33,743	0	45,179	0		0	
1982	0	9	188	6,125	5,556	73	352	34,201	0	46,495	0		0	
1983	0	8	179	6,220	6,134	89	369	32,824	16	45,831	0		0	
1984	0	7	143	6,590	8,505	91	393	32,750	16	48,489	0		0	
1985	**0**	**7**	**142**	**6,358**	**7,881**	**62**	**366**	**34,978**	**17**	**49,783**	**0**		**0**	
1986	0	7	176	6,106	8,065	47	358	35,759	*	50,512	0		0	
1987	0	9	153	6,096	8,372	34	405	35,389	0	50,449	0		0	
1988	0	8	167	6,371	6,460	45	390	35,783	0	49,215	0		0	
1989	0	12	181	6,728	5,337	48	400	34,735	0	47,430	0		0	
			Trillion Btu											
1960	**0.6**	**1.3**	**5.7**	**12.5**	**2.6**	**0.4**	**1.7**	**78.9**	**0.9**	**102.6**	**0.0**	**104.5**	**0.0**	**104.5**
1961	0.2	2.1	4.0	13.5	9.2	0.2	1.7	82.5	1.4	112.6	0.0	114.9	0.0	114.9
1962	0.1	1.4	7.4	12.6	12.1	0.3	1.7	86.0	1.2	121.3	0.0	122.9	0.0	122.9
1963	0.2	1.5	6.7	15.4	12.8	0.3	1.7	89.3	1.4	127.6	0.0	129.3	0.0	129.3
1964	0.1	1.2	6.9	12.9	14.9	0.3	1.8	91.3	4.4	132.4	0.0	133.7	0.0	133.7
1965	**0.1**	**1.7**	**5.6**	**10.3**	**19.3**	**0.3**	**1.7**	**95.1**	**4.5**	**136.8**	**0.0**	**138.6**	**0.0**	**138.6**
1966	0.1	1.3	5.0	12.7	24.3	0.3	1.8	98.9	3.1	146.2	0.0	147.6	0.0	147.6
1967	0.1	1.5	3.4	11.9	30.6	0.3	1.6	102.7	2.4	152.8	0.0	154.4	0.0	154.4
1968	0.1	1.7	2.4	15.8	36.0	0.6	1.7	112.7	1.3	170.6	0.0	172.4	0.0	172.4
1969	0.1	1.8	1.8	16.8	38.8	0.5	1.7	119.9	1.3	180.8	0.0	182.6	0.0	182.6
1970	**0.1**	**1.8**	**1.7**	**15.5**	**42.3**	**0.5**	**1.7**	**131.0**	**0.6**	**193.3**	**0.0**	**195.2**	**0.0**	**195.2**
1971	*	1.8	1.6	17.4	43.4	0.7	1.7	139.1	0.3	204.4	0.0	206.2	0.0	206.2
1972	*	3.0	1.6	20.8	43.9	0.9	1.9	151.9	0.2	221.0	0.0	224.1	0.0	224.1
1973	*	2.5	1.7	23.7	43.6	0.8	2.0	159.7	0.4	231.8	0.0	234.4	0.0	234.4
1974	*	2.4	1.6	26.0	41.5	0.7	2.0	156.0	0.7	228.6	0.0	231.0	0.0	231.0
1975	*****	**4.8**	**1.3**	**25.0**	**40.4**	**0.7**	**1.8**	**162.6**	**0.7**	**232.5**	**0.0**	**237.3**	**0.0**	**237.3**
1976	*	6.0	1.3	28.4	43.7	0.8	2.0	167.8	0.9	245.0	0.0	251.0	0.0	251.0
1977	*	6.0	1.5	31.7	44.7	0.8	2.4	174.5	0.6	256.2	0.0	262.2	0.0	262.2
1978	0.0	4.2	1.5	33.3	46.9	0.9	2.6	189.1	0.7	275.0	0.0	279.2	0.0	279.2
1979	0.0	6.2	1.4	44.4	34.2	0.2	2.7	180.7	*	263.6	0.0	269.8	0.0	269.8
1980	**0.0**	**7.5**	**1.3**	**38.2**	**26.7**	**0.2**	**2.4**	**174.8**	**0.0**	**243.6**	**0.0**	**251.1**	**0.0**	**251.1**
1981	0.0	6.7	1.3	30.3	31.0	0.4	2.3	177.2	0.0	242.6	0.0	249.2	0.0	249.2
1982	0.0	8.8	0.9	35.7	31.4	0.3	2.1	179.7	0.0	250.1	0.0	258.9	0.0	258.9
1983	0.0	8.2	0.9	36.2	34.7	0.3	2.2	172.4	0.1	246.9	0.0	255.1	0.0	255.1
1984	0.0	7.4	0.7	38.4	48.1	0.3	2.4	172.0	0.1	262.1	0.0	269.4	0.0	269.4
1985	**0.0**	**7.1**	**0.7**	**37.0**	**44.5**	**0.2**	**2.2**	**183.7**	**0.1**	**268.5**	**0.0**	**275.6**	**0.0**	**275.6**
1986	0.0	6.7	0.9	35.6	45.6	0.2	2.2	187.8	*	272.3	0.0	279.0	0.0	279.0
1987	0.0	8.7	0.8	35.5	47.4	0.1	2.5	185.9	0.0	272.1	0.0	280.8	0.0	280.8
1988	0.0	7.9	0.8	37.1	36.5	0.2	2.4	188.0	0.0	265.0	0.0	272.9	0.0	272.9
1989	0.0	12.1	0.9	39.2	30.2	0.2	2.4	182.5	0.0	255.3	0.0	267.4	0.0	267.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 50. Estimates of Energy Input at Electric Utilities, 1960-1989, Colorado

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**1,221**	**0**	**1,221**	**37**	**106**	**10**	**0**	**116**	**0**	**969**	**0**	**0**	
1961	1,386	0	1,386	37	103	9	0	112	0	835	0	0	
1962	1,549	0	1,549	32	87	8	0	95	0	1,015	0	0	
1963	1,823	0	1,823	34	68	6	0	74	0	1,033	0	0	
1964	1,904	0	1,904	38	52	5	0	57	0	1,055	0	0	
1965	**2,181**	**0**	**2,181**	**36**	**40**	**4**	**0**	**43**	**0**	**937**	**0**	**0**	
1966	2,719	0	2,719	38	45	4	0	49	0	997	0	0	
1967	2,977	0	2,977	37	49	4	0	53	0	927	0	0	
1968	2,983	0	2,983	43	114	10	0	124	0	943	0	0	
1969	2,877	0	2,877	48	231	21	0	252	0	992	0	0	
1970	**3,212**	**0**	**3,212**	**51**	**242**	**22**	**0**	**264**	**0**	**1,234**	**0**	**0**	
1971	3,077	0	3,077	60	279	31	0	310	0	1,584	0	0	
1972	3,404	0	3,404	67	482	50	0	532	0	1,242	0	0	
1973	4,379	0	4,379	59	627	136	0	763	0	1,281	0	0	
1974	4,740	0	4,740	66	544	243	0	787	0	1,414	0	0	
1975	**5,710**	**0**	**5,710**	**53**	**882**	**619**	**0**	**1,501**	**0**	**1,506**	**0**	**0**	
1976	7,280	0	7,280	42	640	446	0	1,086	0	1,287	0	0	
1977	8,837	0	8,837	34	439	233	0	672	225	1,071	0	0	
1978	8,945	0	8,945	29	556	342	0	898	609	1,342	0	0	
1979	9,515	0	9,515	35	411	460	0	871	213	1,611	0	0	
1980	**10,124**	**0**	**10,124**	**32**	**171**	**273**	**0**	**444**	**667**	**1,716**	**0**	**0**	
1981	11,781	0	11,781	14	4	194	0	198	749	1,398	0	0	
1982	12,638	0	12,638	6	2	191	0	192	569	1,649	0	1	
1983	12,193	0	12,193	5	50	144	0	194	748	1,870	0	1	
1984	13,758	0	13,758	5	6	84	0	89	55	2,168	0	2	
1985	**14,295**	**0**	**14,295**	**5**	**8**	**113**	**0**	**121**	**-32**	**2,357**	**0**	**3**	
1986	14,150	0	14,150	5	0	96	0	96	52	2,263	0	4	
1987	14,178	0	14,178	8	*	90	0	90	174	1,818	0	2	
1988	15,087	0	15,087	8	26	57	0	84	660	1,744	0	2	
1989	15,686	0	15,686	8	1	70	0	71	529	1,705	0	1	
					Trillion Btu								
1960	**25.1**	**0.0**	**25.1**	**38.3**	**0.7**	**0.1**	**0.0**	**0.7**	**0.0**	**10.4**	**0.0**	**0.0**	**74.6**
1961	29.4	0.0	29.4	37.9	0.6	0.1	0.0	0.7	0.0	8.9	0.0	0.0	76.9
1962	33.0	0.0	33.0	33.5	0.5	*	0.0	0.6	0.0	10.7	0.0	0.0	77.8
1963	39.0	0.0	39.0	30.6	0.4	*	0.0	0.5	0.0	10.8	0.0	0.0	80.9
1964	40.9	0.0	40.9	33.8	0.3	*	0.0	0.4	0.0	11.0	0.0	0.0	86.2
1965	**46.5**	**0.0**	**46.5**	**32.4**	**0.3**	*	**0.0**	**0.3**	**0.0**	**9.8**	**0.0**	**0.0**	**89.0**
1966	58.1	0.0	58.1	34.4	0.3	*	0.0	0.3	0.0	10.4	0.0	0.0	103.2
1967	63.0	0.0	63.0	33.2	0.3	*	0.0	0.3	0.0	9.7	0.0	0.0	106.1
1968	63.6	0.0	63.6	42.5	0.7	0.1	0.0	0.8	0.0	9.8	0.0	0.0	116.7
1969	61.5	0.0	61.5	47.4	1.5	0.1	0.0	1.6	0.0	10.4	0.0	0.0	120.9
1970	**69.1**	**0.0**	**69.1**	**49.9**	**1.5**	**0.1**	**0.0**	**1.6**	**0.0**	**13.0**	**0.0**	**0.0**	**133.6**
1971	67.9	0.0	67.9	58.6	1.8	0.2	0.0	1.9	0.0	16.6	0.0	0.0	145.0
1972	72.6	0.0	72.6	58.8	3.0	0.3	0.0	3.3	0.0	12.9	0.0	0.0	147.7
1973	93.0	0.0	93.0	51.7	3.9	0.8	0.0	4.7	0.0	13.3	0.0	0.0	162.7
1974	94.5	0.0	94.5	61.0	3.4	1.4	0.0	4.8	0.0	14.8	0.0	0.0	175.1
1975	**113.1**	**0.0**	**113.1**	**52.7**	**5.5**	**3.6**	**0.0**	**9.2**	**0.0**	**15.7**	**0.0**	**0.0**	**190.6**
1976	142.6	0.0	142.6	41.8	4.0	2.6	0.0	6.6	0.0	13.4	0.0	0.0	204.5
1977	178.5	0.0	178.5	33.9	2.8	1.4	0.0	4.1	2.4	11.2	0.0	0.0	230.1
1978	179.5	0.0	179.5	29.2	3.5	2.0	0.0	5.5	6.7	13.9	0.0	0.0	234.8
1979	192.8	0.0	192.8	34.8	2.6	2.7	0.0	5.3	2.3	16.7	0.0	0.0	251.8
1980	**202.4**	**0.0**	**202.4**	**31.3**	**1.1**	**1.6**	**0.0**	**2.7**	**7.3**	**17.8**	**0.0**	**0.0**	**261.5**
1981	237.0	0.0	237.0	13.3	*	1.1	0.0	1.2	8.3	14.6	0.0	0.0	274.3
1982	248.1	0.0	248.1	5.8	*	1.1	0.0	1.1	6.3	17.2	0.0	*	278.6
1983	237.4	0.0	237.4	4.5	0.3	0.8	0.0	1.2	8.2	19.7	0.0	*	270.8
1984	265.7	0.0	265.7	4.8	*	0.5	0.0	0.5	0.6	22.4	0.0	*	294.0
1985	**278.7**	**0.0**	**278.7**	**4.9**	*	**0.7**	**0.0**	**0.7**	**-0.3**	**24.4**	**0.0**	*	**308.3**
1986	276.5	0.0	276.5	4.6	0.0	0.6	0.0	0.6	0.6	23.2	0.0	*	305.5
1987	279.1	0.0	279.1	7.7	*	0.5	0.0	0.5	1.9	18.6	0.0	*	307.9
1988	294.9	0.0	294.9	8.4	0.2	0.3	0.0	0.5	7.1	17.9	0.0	*	328.7
1989	309.0	0.0	309.0	8.2	*	0.4	0.0	0.4	5.7	17.6	0.0	*	340.9

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 51. Energy Consumption Estimates by Source, 1960–1989, Connecticut

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours				
1960	**3,851**	**28**	**1,088**	**104**	**23,369**	**1,129**	**1,914**	**1,092**	**350**	**19,349**	**14,622**	**222**	**63,238**	**0**	**424**	**0**	**0**	**-708**
1961	4,067	30	973	103	23,370	1,098	1,961	1,104	341	19,780	14,877	248	63,854	0	367	0	0	-964
1962	4,233	32	1,206	124	23,238	1,191	1,692	1,241	528	20,628	15,996	272	66,116	0	295	0	0	-997
1963	4,452	35	1,006	172	22,936	1,204	1,412	1,431	528	21,380	16,275	537	66,880	0	278	0	0	-1,179
1964	4,620	38	896	166	20,523	1,169	1,243	1,509	554	21,998	19,674	690	68,422	0	269	0	0	-638
1965	**4,957**	**41**	**1,326**	**172**	**21,186**	**1,411**	**1,308**	**1,383**	**563**	**22,933**	**17,159**	**660**	**68,100**	**0**	**187**	**0**	**0**	**-946**
1966	5,285	48	1,191	165	20,172	1,542	909	1,460	584	23,988	20,801	4,859	75,671	0	253	0	0	-1,235
1967	4,276	50	1,057	135	20,783	1,700	800	1,521	478	24,519	25,385	5,400	81,778	524	394	0	0	-1,850
1968	3,248	53	1,211	152	22,324	2,336	721	1,712	525	26,164	28,003	6,024	89,173	3,004	358	0	0	-7,685
1969	2,437	57	1,280	140	23,128	2,630	738	1,908	559	27,191	32,426	6,055	96,055	3,639	425	0	0	-10,607
1970	**2,060**	**61**	**1,019**	**124**	**24,117**	**2,897**	**778**	**1,854**	**569**	**28,638**	**35,595**	**6,190**	**101,782**	**3,604**	**329**	**0**	**0**	**-9,907**
1971	1,555	61	1,223	111	24,101	2,191	780	1,879	478	29,539	33,819	530	94,651	7,767	391	0	0	-18,935
1972	184	64	1,458	112	24,773	2,809	902	2,112	512	30,806	40,697	595	104,776	7,777	538	0	0	-18,324
1973	112	63	1,570	113	25,440	2,509	591	2,176	548	31,594	43,290	658	108,489	4,303	447	0	0	-5,164
1974	276	66	1,099	107	23,201	2,434	554	2,137	525	31,504	37,632	696	99,889	7,970	428	0	0	-12,816
1975	**55**	**64**	**1,262**	**90**	**21,613**	**2,124**	**588**	**2,209**	**396**	**31,822**	**32,512**	**649**	**93,265**	**8,135**	**493**	**0**	**0**	**-5,957**
1976	49	66	1,119	79	24,216	1,946	728	2,390	440	32,626	32,800	1,234	97,578	12,330	383	0	0	-11,685
1977	48	64	915	111	23,774	2,167	511	2,420	455	33,119	32,164	1,472	97,109	13,174	431	0	0	-9,586
1978	33	65	1,138	100	23,577	2,128	483	2,187	489	33,225	34,224	1,607	99,157	13,863	359	0	0	-11,065
1979	44	68	846	87	28,484	2,382	372	1,470	511	31,492	26,913	1,933	94,490	12,706	461	0	0	-3,819
1980	**16**	**73**	**630**	**89**	**22,304**	**1,973**	**491**	**1,501**	**455**	**30,205**	**29,334**	**2,044**	**89,026**	**11,835**	**256**	**0**	**0**	**-5,609**
1981	38	77	784	77	19,724	1,580	415	1,336	437	30,252	21,540	2,498	78,642	12,673	260	0	0	503
1982	31	78	785	60	20,505	1,076	381	1,418	398	30,055	21,291	1,923	77,893	13,625	371	0	0	-2,290
1983	29	74	737	66	16,904	957	296	1,426	417	30,534	23,325	1,647	76,310	11,588	378	0	0	3,584
1984	59	81	934	63	18,669	1,005	236	1,304	445	30,855	24,043	1,905	79,459	14,292	377	0	0	-8,469
1985	**815**	**78**	**2,095**	**71**	**18,909**	**1,085**	**323**	**1,230**	**414**	**30,992**	**19,854**	**1,817**	**76,790**	**12,721**	**307**	**0**	**0**	**-595**
1986	809	79	2,124	72	20,609	1,255	284	1,117	405	31,861	20,847	1,422	79,996	18,667	804	0	0	-20,786
1987	815	92	2,139	55	21,201	1,784	332	1,457	458	32,353	17,986	1,442	79,205	20,540	918	0	0	-20,521
1988	880	88	1,853	48	22,980	2,156	334	1,538	442	32,881	20,944	1,435	84,612	22,251	1,008	0	242	-27,078
1989	890	95	1,797	40	25,627	2,242	328	1,630	453	32,258	20,371	1,408	86,154	19,563	624	0	317	-18,527

Year	Coal	Natural Gas[1]	Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Trillion Btu																		
1960	**101.7**	**29.4**	**7.2**	**0.5**	**136.1**	**6.4**	**10.9**	**4.4**	**2.1**	**101.6**	**91.9**	**1.3**	**362.4**	**0.0**	**4.6**	**0.0**	**0.0**	**-2.4**	**495.7**
1961	107.5	31.4	6.5	0.5	136.1	6.2	11.1	4.4	2.1	103.9	93.5	1.4	365.8	0.0	3.9	0.0	0.0	-3.3	505.4
1962	112.1	33.4	8.0	0.6	135.4	6.7	9.6	5.0	3.2	108.4	100.6	1.6	379.0	0.0	3.1	0.0	0.0	-3.4	524.1
1963	117.4	35.6	6.7	0.9	133.6	6.8	8.0	5.7	3.2	112.3	102.3	3.0	382.5	0.0	2.9	0.0	0.0	-4.0	534.4
1964	120.8	38.6	5.9	0.8	119.5	6.6	7.1	6.1	3.4	115.6	123.7	3.8	392.5	0.0	2.8	0.0	0.0	-2.2	552.5
1965	**128.6**	**41.7**	**8.8**	**0.9**	**123.4**	**8.0**	**7.4**	**5.5**	**3.4**	**120.5**	**107.9**	**3.7**	**389.4**	**0.0**	**2.0**	**0.0**	**0.0**	**-3.2**	**558.5**
1966	136.2	48.7	7.9	0.8	117.5	8.7	5.2	5.9	3.5	126.0	130.8	26.9	433.1	0.0	2.6	0.0	0.0	-4.2	616.5
1967	109.5	50.8	7.0	0.7	121.1	9.6	4.5	5.8	2.9	128.8	159.6	29.7	469.7	6.1	4.1	0.0	0.0	-6.3	633.9
1968	82.4	54.1	8.0	0.8	130.0	13.2	4.1	6.5	3.2	137.4	176.1	33.1	512.5	33.9	3.7	0.0	0.0	-26.2	660.4
1969	59.2	58.4	8.5	0.7	134.7	14.9	4.2	7.3	3.4	142.8	203.9	33.2	553.6	40.2	4.4	0.0	0.0	-36.2	679.6
1970	**48.6**	**61.5**	**6.8**	**0.6**	**140.5**	**16.4**	**4.4**	**7.0**	**3.5**	**150.4**	**223.8**	**34.0**	**587.4**	**39.6**	**3.5**	**0.0**	**0.0**	**-33.8**	**706.7**
1971	36.4	62.4	8.1	0.6	140.4	12.4	4.4	7.1	2.9	155.2	212.6	2.9	546.6	84.2	4.1	0.0	0.0	-64.6	669.0
1972	4.2	65.0	9.7	0.6	144.3	15.9	5.1	7.9	3.1	161.8	255.9	3.3	607.6	83.9	5.6	0.0	0.0	-62.5	703.8
1973	2.6	63.5	10.4	0.6	148.2	14.2	3.4	8.2	3.3	166.0	272.2	3.6	630.0	46.9	4.6	0.0	0.0	-17.6	730.1
1974	6.5	67.1	7.3	0.5	135.1	13.8	3.1	8.0	3.2	165.5	236.6	3.8	577.0	89.0	4.5	0.0	0.0	-43.7	700.3
1975	**1.3**	**64.3**	**8.4**	**0.5**	**125.9**	**12.0**	**3.3**	**8.2**	**2.4**	**167.2**	**204.4**	**3.6**	**535.8**	**89.6**	**5.1**	**0.0**	**0.0**	**-20.3**	**675.8**
1976	1.2	66.4	7.4	0.4	141.1	11.0	4.1	8.9	2.7	171.4	206.2	6.8	560.0	136.2	4.0	0.0	0.0	-39.9	727.8
1977	1.2	64.7	6.1	0.6	138.5	12.3	2.9	8.9	2.8	174.0	202.2	8.2	556.3	141.9	4.5	0.0	0.0	-32.7	735.9
1978	0.8	66.0	7.6	0.5	137.3	12.0	2.7	8.0	3.0	174.5	215.2	9.0	569.8	151.7	3.7	0.0	0.0	-37.8	754.3
1979	1.1	68.8	5.6	0.4	165.9	13.5	2.1	5.4	3.1	165.4	169.2	10.7	541.4	138.2	4.8	0.0	0.0	-13.0	741.2
1980	**0.4**	**74.2**	**4.2**	**0.4**	**129.9**	**11.2**	**2.8**	**5.5**	**2.8**	**158.7**	**184.4**	**11.2**	**511.0**	**129.1**	**2.7**	**0.0**	**0.0**	**-19.1**	**698.2**
1981	0.9	78.7	5.2	0.4	114.9	8.9	2.4	4.9	2.6	158.9	135.4	13.6	447.3	139.8	2.7	0.0	0.0	1.7	671.1
1982	0.8	80.4	5.2	0.3	119.4	6.1	2.2	5.1	2.4	157.9	133.9	10.5	442.9	150.9	3.9	0.0	0.0	-7.8	671.0
1983	0.7	76.6	4.9	0.3	98.5	5.4	1.7	5.2	2.5	160.4	146.6	9.1	434.6	126.4	4.0	0.0	0.0	12.2	654.5
1984	1.5	83.5	6.2	0.3	108.7	5.7	1.3	4.7	2.7	162.1	151.2	10.2	453.1	155.0	3.9	0.0	0.0	-28.9	668.1
1985	**21.3**	**80.6**	**13.9**	**0.4**	**110.1**	**6.1**	**1.8**	**4.4**	**2.5**	**162.8**	**124.8**	**9.8**	**436.7**	**137.6**	**3.2**	**0.0**	**0.0**	**-2.0**	**677.3**
1986	21.2	81.3	14.1	0.4	120.0	7.1	1.6	4.1	2.5	167.4	131.1	7.7	455.9	201.6	8.2	0.0	0.0	-70.9	697.3
1987	21.4	94.7	14.2	0.3	123.5	10.1	1.9	5.3	2.8	170.0	113.1	7.8	448.8	221.3	9.4	0.0	0.0	-70.0	725.6
1988	23.1	90.9	12.3	0.2	133.9	12.2	1.9	5.6	2.7	172.7	131.7	7.8	481.0	239.0	10.3	0.0	2.5	-92.4	754.4
1989	23.7	98.3	11.9	0.2	149.3	12.7	1.9	6.0	2.7	169.5	128.1	7.6	489.8	209.8	6.4	0.0	3.3	-63.2	768.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 52. Residential Energy Consumption Estimates, 1960–1989, Connecticut

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**29**	**66**	**95**	**16**	**15,480**	**1,507**	**624**	**17,611**	**2,724**	**6,776**		
1961	21	60	81	18	15,276	1,400	617	17,294	2,914	7,101		
1962	23	52	75	19	14,980	1,215	705	16,899	3,070	7,381		
1963	16	50	65	20	14,662	1,224	711	16,597	3,302	7,898		
1964	8	47	55	21	12,998	1,062	790	14,850	3,530	8,406		
1965	**4**	**42**	**46**	**22**	**13,649**	**1,101**	**692**	**15,442**	**3,812**	**9,101**		
1966	4	35	40	25	12,572	717	693	13,983	4,175	10,018		
1967	4	32	36	26	12,656	580	733	13,969	4,658	11,128		
1968	*	30	30	26	13,478	567	768	14,812	5,137	12,257		
1969	*	26	27	29	13,528	550	898	14,976	5,739	13,708		
1970	**0**	**25**	**25**	**31**	**14,239**	**526**	**802**	**15,568**	**6,396**	**15,501**		
1971	0	24	24	32	13,961	521	778	15,260	6,834	16,523		
1972	0	19	19	33	14,756	639	855	16,250	7,305	17,583		
1973	0	18	18	30	14,898	424	776	16,099	7,641	18,292		
1974	*	16	17	33	13,707	308	749	14,763	7,589	18,504		
1975	**0**	**13**	**13**	**32**	**12,950**	**291**	**768**	**14,009**	**7,449**	**17,969**		
1976	0	13	13	32	14,495	276	785	15,556	7,842	18,891		
1977	0	12	12	31	14,164	239	811	15,214	7,960	19,220		
1978	0	10	10	32	14,217	209	728	15,155	8,079	19,765		
1979	0	8	8	31	17,897	201	547	18,645	8,175	19,729		
1980	**0**	**10**	**10**	**32**	**13,468**	**233**	**595**	**14,296**	**8,218**	**19,983**		
1981	1	20	21	33	12,948	195	591	13,734	8,614	20,530		
1982	0	17	17	33	12,241	263	577	13,081	8,505	20,428		
1983	0	13	13	31	9,293	195	686	10,173	8,767	21,004		
1984	0	25	25	33	9,530	191	584	10,306	8,584	19,935		
1985	**0**	**22**	**22**	**33**	**9,758**	**274**	**658**	**10,690**	**8,638**	**20,257**		
1986	0	22	22	35	11,578	214	583	12,375	9,080	20,819		
1987	*	14	15	36	11,613	233	775	12,622	9,670	22,038		
1988	0	6	6	39	13,136	186	771	14,093	10,300	23,261		
1989	0	7	7	41	14,228	140	891	15,259	10,485	23,520		
										Net Energy[4]		Total[4]
					Trillion Btu							
1960	**0.7**	**1.6**	**2.4**	**16.6**	**90.2**	**8.5**	**2.5**	**101.2**	**9.3**	**129.4**	**23.1**	**152.6**
1961	0.5	1.5	2.0	18.4	89.0	7.9	2.5	99.4	9.9	129.8	24.2	154.0
1962	0.6	1.3	1.9	19.4	87.3	6.9	2.8	97.0	10.5	128.7	25.2	153.8
1963	0.4	1.2	1.6	20.1	85.4	6.9	2.9	95.2	11.3	128.1	26.9	155.1
1964	0.2	1.1	1.3	21.4	75.7	6.0	3.2	84.9	12.0	119.7	28.7	148.4
1965	**0.1**	**1.0**	**1.1**	**22.7**	**79.5**	**6.2**	**2.8**	**88.5**	**13.0**	**125.4**	**31.1**	**156.4**
1966	0.1	0.9	1.0	25.4	73.2	4.1	2.8	80.1	14.2	120.7	34.2	154.9
1967	0.1	0.7	0.8	26.7	73.7	3.3	2.8	79.8	15.9	123.3	38.0	161.3
1968	*	0.7	0.7	26.9	78.5	3.2	2.9	84.7	17.5	129.7	41.8	171.6
1969	*	0.6	0.6	29.5	78.8	3.1	3.4	85.3	19.6	135.1	46.8	181.8
1970	**0.0**	**0.6**	**0.6**	**31.7**	**82.9**	**3.0**	**3.0**	**89.0**	**21.8**	**143.1**	**52.9**	**196.0**
1971	0.0	0.6	0.6	32.4	81.3	3.0	2.9	87.2	23.3	143.5	56.4	199.9
1972	0.0	0.4	0.4	33.4	86.0	3.6	3.2	92.8	24.9	151.6	60.0	211.5
1973	0.0	0.4	0.4	30.7	86.8	2.4	2.9	92.1	26.1	149.3	62.4	211.7
1974	*	0.4	0.4	33.8	79.8	1.7	2.8	84.4	25.9	144.5	63.1	207.6
1975	**0.0**	**0.3**	**0.3**	**32.3**	**75.4**	**1.7**	**2.9**	**79.9**	**25.4**	**138.0**	**61.3**	**199.3**
1976	0.0	0.3	0.3	32.6	84.4	1.6	2.9	88.9	26.8	148.5	64.5	213.0
1977	0.0	0.3	0.3	31.4	82.5	1.4	3.0	86.8	27.2	145.7	65.6	211.3
1978	0.0	0.2	0.2	32.2	82.8	1.2	2.7	86.7	27.6	146.7	67.4	214.1
1979	0.0	0.2	0.2	31.7	104.2	1.1	2.0	107.4	27.9	167.1	67.3	234.5
1980	**0.0**	**0.2**	**0.2**	**32.7**	**78.5**	**1.3**	**2.2**	**82.0**	**28.0**	**143.0**	**68.2**	**211.1**
1981	*	0.5	0.5	34.2	75.4	1.1	2.2	78.7	29.4	142.8	70.0	212.8
1982	0.0	0.4	0.4	33.9	71.3	1.5	2.1	74.9	29.0	138.3	69.7	208.0
1983	0.0	0.3	0.3	31.8	54.1	1.1	2.5	57.7	29.9	119.7	71.7	191.4
1984	0.0	0.6	0.6	34.0	55.5	1.1	2.1	58.7	29.3	122.6	68.0	190.6
1985	**0.0**	**0.5**	**0.5**	**33.8**	**56.8**	**1.6**	**2.4**	**60.8**	**29.5**	**124.5**	**69.1**	**193.6**
1986	0.0	0.5	0.5	36.2	67.4	1.2	2.1	70.8	31.0	138.5	71.0	209.5
1987	*	0.4	0.4	37.3	67.6	1.3	2.8	71.8	33.0	142.4	75.2	217.6
1988	0.0	0.2	0.2	40.7	76.5	1.1	2.8	80.4	35.1	156.4	79.4	235.8
1989	0.0	0.2	0.2	42.1	82.9	0.8	3.3	87.0	35.8	165.0	80.2	245.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 53. Commercial Energy Consumption Estimates, 1960–1989, Connecticut

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**54**	**44**	**98**	**3**	**5,029**	**52**	**110**	**63**	**871**	**6,125**	**1,825**	**4,539**		
1961	39	40	79	4	4,963	49	109	84	848	6,053	1,973	4,809		
1962	43	35	77	4	4,866	42	124	73	920	6,026	2,184	5,251		
1963	29	33	62	6	4,763	43	125	74	913	5,918	2,391	5,717		
1964	15	32	46	6	4,222	37	139	74	1,147	5,619	2,627	6,256		
1965	**7**	**28**	**35**	**6**	**4,434**	**38**	**122**	**76**	**958**	**5,629**	**2,873**	**6,861**		
1966	8	24	31	7	4,084	25	122	80	1,127	5,438	3,167	7,598		
1967	7	21	28	8	4,111	20	129	78	1,103	5,443	3,463	8,273		
1968	1	20	21	11	4,378	20	135	85	1,019	5,638	3,831	9,141		
1969	1	18	18	12	4,395	19	158	89	987	5,649	4,152	9,919		
1970	**0**	**17**	**17**	**15**	**4,626**	**18**	**142**	**97**	**995**	**5,877**	**4,649**	**11,265**		
1971	0	16	16	16	4,535	18	137	97	819	5,607	5,119	12,377		
1972	0	12	12	17	4,794	22	151	150	811	5,928	5,624	13,537		
1973	0	12	12	15	4,840	15	137	206	853	6,051	6,139	14,698		
1974	1	11	12	16	4,453	11	132	230	728	5,554	5,899	14,384		
1975	**0**	**9**	**9**	**16**	**4,207**	**10**	**136**	**239**	**656**	**5,248**	**6,000**	**14,472**		
1976	0	8	8	17	4,709	10	139	243	835	5,934	6,259	15,077		
1977	0	8	8	17	4,601	8	143	249	864	5,866	6,506	15,710		
1978	0	7	7	17	4,619	7	129	259	951	5,965	6,717	16,433		
1979	0	5	5	17	5,814	7	96	256	570	6,743	6,885	16,616		
1980	**0**	**6**	**6**	**20**	**2,905**	**7**	**105**	**275**	**1,171**	**4,463**	**7,039**	**17,116**		
1981	2	14	16	23	2,933	11	104	282	788	4,118	7,525	17,934		
1982	0	11	11	23	2,974	1	102	294	761	4,133	7,717	18,534		
1983	0	8	8	22	3,236	68	121	190	1,445	5,060	8,172	19,578		
1984	0	16	16	25	3,318	31	103	144	1,401	4,998	8,275	19,217		
1985	**0**	**15**	**15**	**25**	**3,547**	**29**	**116**	**142**	**1,168**	**5,002**	**8,731**	**20,475**		
1986	0	15	15	25	3,525	34	103	146	1,015	4,822	9,267	21,248		
1987	1	10	10	28	3,137	64	137	172	913	4,423	9,801	22,336		
1988	0	4	4	27	3,023	31	136	165	1,000	4,355	10,317	23,300		
1989	0	4	4	31	3,427	71	157	190	677	4,523	10,644	23,876		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**1.4**	**1.1**	**2.4**	**3.3**	**29.3**	**0.3**	**0.4**	**0.3**	**5.5**	**35.8**	**6.2**	**47.8**	**15.5**	**63.3**
1961	1.0	1.0	2.0	4.2	28.9	0.3	0.4	0.4	5.3	35.4	6.7	48.3	16.4	64.7
1962	1.1	0.9	1.9	4.1	28.3	0.2	0.5	0.4	5.8	35.3	7.5	48.8	17.9	66.7
1963	0.7	0.8	1.5	5.6	27.7	0.2	0.5	0.4	5.7	34.6	8.2	49.9	19.5	69.4
1964	0.4	0.8	1.1	6.3	24.6	0.2	0.6	0.4	7.2	33.0	9.0	49.4	21.3	70.7
1965	**0.2**	**0.7**	**0.9**	**5.9**	**25.8**	**0.2**	**0.5**	**0.4**	**6.0**	**33.0**	**9.8**	**49.5**	**23.4**	**72.9**
1966	0.2	0.6	0.8	7.5	23.8	0.1	0.5	0.4	7.1	31.9	10.8	51.0	25.9	76.9
1967	0.2	0.5	0.7	8.3	23.9	0.1	0.5	0.4	6.9	31.9	11.8	52.7	28.2	80.9
1968	*	0.5	0.5	11.4	25.5	0.1	0.5	0.4	6.4	33.0	13.1	57.9	31.2	89.1
1969	*	0.4	0.4	12.6	25.6	0.1	0.6	0.5	6.2	33.0	14.2	60.2	33.8	94.1
1970	**0.0**	**0.4**	**0.4**	**14.7**	**26.9**	**0.1**	**0.5**	**0.5**	**6.3**	**34.3**	**15.9**	**65.3**	**38.4**	**103.8**
1971	0.0	0.4	0.4	16.3	26.4	0.1	0.5	0.5	5.2	32.7	17.5	66.9	42.2	109.1
1972	0.0	0.3	0.3	17.3	27.9	0.1	0.6	0.8	5.1	34.5	19.2	71.3	46.2	117.4
1973	0.0	0.3	0.3	15.7	28.2	0.1	0.5	1.1	5.4	35.2	20.9	72.1	50.1	122.3
1974	*	0.2	0.3	16.4	25.9	0.1	0.5	1.2	4.6	32.3	20.1	69.1	49.1	118.2
1975	**0.0**	**0.2**	**0.2**	**16.0**	**24.5**	**0.1**	**0.5**	**1.3**	**4.1**	**30.4**	**20.5**	**67.1**	**49.4**	**116.5**
1976	0.0	0.2	0.2	16.8	27.4	0.1	0.5	1.3	5.2	34.5	21.4	72.9	51.4	124.3
1977	0.0	0.2	0.2	17.0	26.8	*	0.5	1.3	5.4	34.1	22.2	73.5	53.6	127.1
1978	0.0	0.2	0.2	17.2	26.9	*	0.5	1.4	6.0	34.8	22.9	75.0	56.1	131.1
1979	0.0	0.1	0.1	17.0	33.9	*	0.4	1.3	3.6	39.2	23.5	79.8	56.7	136.5
1980	**0.0**	**0.1**	**0.1**	**20.6**	**16.9**	*	**0.4**	**1.4**	**7.4**	**26.2**	**24.0**	**70.9**	**58.4**	**129.3**
1981	*	0.3	0.4	23.3	17.1	0.1	0.4	1.5	5.0	24.0	25.7	73.3	61.2	134.5
1982	0.0	0.3	0.3	23.7	17.3	*	0.4	1.5	4.8	24.0	26.3	74.4	63.2	137.6
1983	0.0	0.2	0.2	22.9	18.8	0.4	0.4	1.0	9.1	29.8	27.9	80.7	66.8	147.5
1984	0.0	0.4	0.4	25.5	19.3	0.2	0.4	0.8	8.8	29.4	28.2	83.6	65.6	149.2
1985	**0.0**	**0.3**	**0.3**	**25.3**	**20.7**	**0.2**	**0.4**	**0.7**	**7.3**	**29.3**	**29.8**	**84.8**	**69.9**	**154.7**
1986	0.0	0.4	0.4	25.5	20.5	0.2	0.4	0.8	6.4	28.2	31.6	85.7	72.5	158.2
1987	*	0.3	0.3	28.4	18.3	0.4	0.5	0.9	5.7	25.8	33.4	87.9	76.2	164.1
1988	0.0	0.1	0.1	28.3	17.6	0.2	0.5	0.9	6.3	25.4	35.2	89.0	79.5	168.5
1989	0.0	0.1	0.1	31.8	20.0	0.4	0.6	1.0	4.3	26.2	36.3	94.5	81.5	175.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 54. Industrial Energy Consumption Estimates, 1960–1989, Connecticut

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**866**	**0**	**866**	**7**	**1,088**	**1,665**	**354**	**355**	**93**	**243**	**11,950**	**222**	**15,968**	**26**	**2,837**	**7,056**
1961	815	0	815	8	973	1,617	512	374	90	288	11,625	248	15,727	27	2,956	7,205
1962	745	0	745	9	1,206	1,735	435	408	278	300	12,623	272	17,256	41	3,187	7,661
1963	828	0	828	9	1,006	1,734	146	591	277	290	12,508	537	17,089	32	3,350	8,012
1964	765	0	765	10	896	1,478	144	576	291	244	15,744	690	20,063	25	3,610	8,597
1965	**776**	**0**	**776**	**12**	**1,326**	**1,561**	**169**	**564**	**308**	**248**	**13,180**	**660**	**18,016**	**9**	**3,862**	**9,220**
1966	784	0	784	15	1,191	1,665	167	636	320	272	15,467	4,859	24,576	8	4,320	10,365
1967	753	0	753	15	1,057	1,907	199	648	258	188	15,188	5,400	24,844	5	4,515	10,787
1968	527	0	527	15	1,211	1,770	134	797	283	213	14,030	6,024	24,464	4	4,849	11,570
1969	274	0	274	16	1,280	2,084	169	837	325	202	13,581	6,055	24,533	7	5,177	12,366
1970	**142**	**0**	**142**	**15**	**1,019**	**1,968**	**234**	**890**	**331**	**269**	**13,710**	**6,190**	**24,611**	**3**	**5,094**	**12,344**
1971	93	0	93	13	1,223	2,082	241	938	249	210	11,323	530	16,797	6	4,977	12,032
1972	59	0	59	14	1,458	1,889	241	1,081	267	172	11,272	595	16,973	4	5,312	12,786
1973	53	0	53	17	1,570	2,452	152	1,231	329	86	11,896	658	18,374	6	5,643	13,508
1974	62	0	62	16	1,099	2,128	236	1,225	315	74	10,124	696	15,897	7	5,371	13,095
1975	**29**	**0**	**29**	**16**	**1,262**	**1,944**	**287**	**1,280**	**200**	**36**	**9,124**	**649**	**14,782**	**7**	**5,050**	**12,181**
1976	17	0	17	16	1,119	2,336	443	1,436	222	101	11,554	1,234	18,445	7	5,333	12,845
1977	18	0	18	16	915	2,473	264	1,430	208	110	11,923	1,472	18,795	6	5,525	13,342
1978	1	0	1	16	1,138	2,015	266	1,275	223	82	13,115	1,607	19,722	7	5,785	14,153
1979	22	0	22	20	846	2,089	164	808	234	69	8,017	1,933	14,159	6	6,044	14,586
1980	**0**	**0**	**0**	**20**	**630**	**3,235**	**251**	**785**	**208**	**66**	**6,683**	**2,044**	**13,902**	**6**	**5,944**	**14,454**
1981	0	1	1	21	784	1,497	209	614	199	52	2,528	2,498	8,381	6	6,318	15,058
1982	2	1	3	21	785	1,525	117	716	182	53	3,152	1,923	8,454	6	5,878	14,117
1983	7	1	8	21	737	1,230	33	592	190	43	1,766	1,647	6,239	6	6,067	14,536
1984	3	2	5	21	934	1,262	14	585	203	75	1,713	1,905	6,692	6	6,244	14,499
1985	**3**	**1**	**4**	**19**	**2,095**	**1,072**	**20**	**432**	**189**	**225**	**1,531**	**1,817**	**7,381**	**6**	**6,113**	**14,335**
1986	8	1	9	18	2,124	1,055	36	413	185	238	1,468	1,422	6,942	6	6,178	14,165
1987	2	1	3	20	2,139	1,697	35	527	209	235	1,389	1,442	7,673	6	6,251	14,245
1988	15	1	16	19	1,853	1,333	118	607	202	268	1,536	1,435	7,351	6	6,305	14,239
1989	1	1	2	20	1,797	1,454	117	555	207	277	741	1,408	6,557	6	6,235	13,986

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Total[4]
	Trillion Btu																
1960	**22.8**	**0.0**	**22.8**	**7.5**	**7.2**	**9.7**	**2.0**	**1.4**	**0.6**	**1.3**	**75.1**	**1.3**	**98.6**	**0.3**	**9.7**	**138.9**	**24.1**	**163.0**
1961	21.5	0.0	21.5	7.8	6.5	9.4	2.9	1.5	0.5	1.5	73.1	1.4	96.9	0.3	10.1	136.6	24.6	161.1
1962	19.7	0.0	19.7	9.3	8.0	10.1	2.5	1.6	1.7	1.6	79.4	1.6	106.4	0.4	10.9	146.7	26.1	172.8
1963	21.8	0.0	21.8	9.4	6.7	10.1	0.8	2.4	1.7	1.5	78.6	3.0	104.8	0.3	11.4	147.8	27.3	175.1
1964	20.2	0.0	20.2	10.4	5.9	8.6	0.8	2.3	1.8	1.3	99.0	3.8	123.5	0.3	12.3	166.7	29.3	196.0
1965	**20.4**	**0.0**	**20.4**	**12.7**	**8.8**	**9.1**	**1.0**	**2.3**	**1.9**	**1.3**	**82.9**	**3.7**	**110.8**	**0.1**	**13.2**	**157.2**	**31.5**	**188.6**
1966	20.6	0.0	20.6	15.3	7.9	9.7	0.9	2.6	1.9	1.4	97.2	26.9	148.6	0.1	14.7	199.2	35.4	234.6
1967	19.7	0.0	19.7	15.0	7.0	11.1	1.1	2.5	1.6	1.0	95.5	29.7	149.4	0.1	15.4	199.7	36.8	236.5
1968	13.5	0.0	13.5	15.3	8.0	10.3	0.8	3.0	1.7	1.1	88.2	33.1	146.3	*	16.5	191.7	39.5	231.2
1969	6.8	0.0	6.8	15.9	8.5	12.1	1.0	3.2	2.0	1.1	85.4	33.2	146.4	0.1	17.7	186.9	42.2	229.1
1970	**3.4**	**0.0**	**3.4**	**14.9**	**6.8**	**11.5**	**1.3**	**3.4**	**2.0**	**1.4**	**86.2**	**34.0**	**146.6**	*	**17.4**	**182.3**	**42.1**	**224.4**
1971	2.2	0.0	2.2	13.6	8.1	12.1	1.4	3.5	1.5	1.1	71.2	2.9	101.9	0.1	17.0	134.7	41.1	175.7
1972	1.4	0.0	1.4	14.3	9.7	11.0	1.4	4.1	1.6	0.9	70.9	3.3	102.8	*	18.1	136.6	43.6	180.2
1973	1.2	0.0	1.2	17.2	10.4	14.3	0.9	4.6	2.0	0.5	74.8	3.6	111.0	0.1	19.3	148.8	46.1	194.9
1974	1.4	0.0	1.4	16.3	7.3	12.4	1.3	4.6	1.9	0.4	63.7	3.8	95.4	0.1	18.3	131.5	44.7	176.2
1975	**0.7**	**0.0**	**0.7**	**15.6**	**8.4**	**11.3**	**1.6**	**4.8**	**1.2**	**0.2**	**57.4**	**3.6**	**88.4**	**0.1**	**17.2**	**122.0**	**41.6**	**163.6**
1976	0.4	0.0	0.4	16.5	7.4	13.6	2.5	5.3	1.3	0.5	72.6	6.8	110.2	0.1	18.2	145.4	43.8	189.2
1977	0.4	0.0	0.4	16.3	6.1	14.4	1.5	5.3	1.3	0.6	75.0	8.2	112.2	0.1	18.9	147.9	45.5	193.5
1978	*	0.0	*	16.6	7.6	11.7	1.5	4.7	1.4	0.4	82.5	9.0	118.7	0.1	19.7	155.2	48.3	203.4
1979	0.5	0.0	0.5	20.0	5.6	12.2	0.9	3.0	1.4	0.4	50.4	10.7	84.5	0.1	20.6	125.8	49.8	175.5
1980	**0.0**	**0.0**	**0.0**	**20.8**	**4.2**	**18.8**	**1.4**	**2.9**	**1.3**	**0.3**	**42.0**	**11.2**	**82.1**	**0.1**	**20.3**	**123.2**	**49.3**	**172.6**
1981	0.0	*	*	21.1	5.2	8.7	1.2	2.2	1.2	0.3	15.9	13.6	48.4	0.1	21.6	91.1	51.4	142.5
1982	0.1	*	0.1	22.0	5.2	8.9	0.7	2.6	1.1	0.3	19.8	10.5	49.0	0.1	20.1	91.2	48.2	139.4
1983	0.2	*	0.2	21.6	4.9	7.2	0.2	2.1	1.2	0.2	11.1	9.1	36.0	0.1	20.7	78.6	49.6	128.2
1984	0.1	0.1	0.1	21.5	6.2	7.3	0.1	2.1	1.2	0.4	10.8	10.2	38.4	0.1	21.3	81.3	49.5	130.8
1985	**0.1**	*	**0.1**	**19.5**	**13.9**	**6.2**	**0.1**	**1.6**	**1.1**	**1.2**	**9.6**	**9.8**	**43.6**	**0.1**	**20.9**	**84.1**	**48.9**	**133.0**
1986	0.2	*	0.2	18.2	14.1	6.1	0.2	1.5	1.1	1.2	9.2	7.7	41.3	0.1	21.1	80.9	48.3	129.2
1987	*	*	0.1	20.4	14.2	9.9	0.2	1.9	1.3	1.2	8.7	7.8	45.2	0.1	21.3	87.1	48.6	135.7
1988	0.4	*	0.4	20.1	12.3	7.8	0.7	2.2	1.2	1.4	9.7	7.8	43.0	0.1	21.5	85.0	48.6	133.6
1989	*	*	0.1	20.4	11.9	8.5	0.7	2.0	1.3	1.5	4.7	7.6	38.1	0.1	21.3	79.9	47.7	127.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 55. Transportation Energy Consumption Estimates, 1960–1989, Connecticut

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**15**	*	**104**	**1,117**	**1,129**	**2**	**258**	**19,044**	**204**	**21,857**	**0**		**0**	
1961	4	*	103	1,446	1,098	4	251	19,407	1,028	23,337	0		0	
1962	3	*	124	1,583	1,191	4	251	20,255	968	24,376	0		0	
1963	3	*	172	1,677	1,204	3	251	21,017	821	25,145	0		0	
1964	3	*	166	1,721	1,169	3	263	21,680	680	25,683	0		0	
1965	**3**	*	**172**	**1,415**	**1,411**	**5**	**255**	**22,609**	**471**	**26,338**	**0**		**0**	
1966	2	*	165	1,680	1,542	10	265	23,637	768	28,065	0		0	
1967	2	*	135	1,707	1,700	10	220	24,253	942	28,968	0		0	
1968	1	*	152	2,096	2,336	12	242	25,866	770	31,474	0		0	
1969	*	*	140	2,264	2,630	15	233	26,900	480	32,662	0		0	
1970	*	*	**124**	**2,266**	**2,897**	**21**	**238**	**28,273**	**359**	**34,177**	**0**		**0**	
1971	*	*	111	2,311	2,191	25	229	29,232	455	34,554	0		0	
1972	*	*	112	2,542	2,499	26	245	30,484	532	36,439	0		0	
1973	*	*	113	2,721	2,286	32	219	31,302	952	37,626	0		0	
1974	*	*	107	2,610	2,252	31	210	31,199	720	37,130	0		0	
1975	*	*	**90**	**2,391**	**2,013**	**26**	**196**	**31,547**	**581**	**36,844**	**0**		**0**	
1976	*	*	79	2,495	1,924	30	217	32,283	706	37,734	0		0	
1977	*	*	111	2,457	2,127	36	247	32,761	545	38,283	0		0	
1978	0	*	100	2,662	2,113	55	266	32,884	495	38,575	0		0	
1979	0	*	87	2,707	2,227	18	278	31,167	49	36,534	0		0	
1980	**0**	*	**89**	**2,580**	**1,921**	**15**	**247**	**29,864**	**53**	**34,768**	**0**		**0**	
1981	0	*	77	2,289	1,544	26	237	29,918	4	34,096	0		0	
1982	0	1	60	3,692	1,075	23	216	29,708	6	34,781	0		0	
1983	0	*	66	3,075	957	27	227	30,301	449	35,102	0		0	
1984	0	*	63	4,434	1,005	32	242	30,635	470	36,880	0		0	
1985	**0**	*	**71**	**4,448**	**1,085**	**24**	**225**	**30,624**	**150**	**36,627**	**0**		**0**	
1986	0	1	72	4,338	1,255	17	220	31,478	46	37,427	0		0	
1987	0	1	55	4,617	1,784	18	249	31,946	87	38,756	0		0	
1988	0	1	48	5,257	2,156	24	240	32,449	137	40,312	0		0	
1989	0	1	40	6,319	2,242	26	246	31,791	77	40,741	0		0	
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**0.4**	**0.2**	**0.5**	**6.5**	**6.4**	*	**1.6**	**100.0**	**1.3**	**116.3**	**0.0**	**116.9**	**0.0**	**116.9**
1961	0.1	0.3	0.5	8.4	6.2	*	1.5	101.9	6.5	125.1	0.0	125.5	0.0	125.5
1962	0.1	0.1	0.6	9.2	6.7	*	1.5	106.4	6.1	130.6	0.0	130.8	0.0	130.8
1963	0.1	0.2	0.9	9.8	6.8	*	1.5	110.4	5.2	134.5	0.0	134.8	0.0	134.8
1964	0.1	0.1	0.8	10.0	6.6	*	1.6	113.9	4.3	137.2	0.0	137.4	0.0	137.4
1965	**0.1**	**0.1**	**0.9**	**8.2**	**8.0**	*	**1.5**	**118.8**	**3.0**	**140.4**	**0.0**	**140.5**	**0.0**	**140.5**
1966	0.1	0.1	0.8	9.8	8.7	*	1.6	124.2	4.8	150.0	0.0	150.1	0.0	150.1
1967	*	0.3	0.7	9.9	9.6	*	1.3	127.4	5.9	154.9	0.0	155.3	0.0	155.3
1968	*	0.1	0.8	12.2	13.2	*	1.5	135.9	4.8	168.4	0.0	168.5	0.0	168.5
1969	*	0.1	0.7	13.2	14.9	0.1	1.4	141.3	3.0	174.6	0.0	174.6	0.0	174.6
1970	*	**0.1**	**0.6**	**13.2**	**16.4**	**0.1**	**1.4**	**148.5**	**2.3**	**182.5**	**0.0**	**182.6**	**0.0**	**182.6**
1971	*	*	0.6	13.5	12.4	0.1	1.4	153.6	2.9	184.3	0.0	184.4	0.0	184.4
1972	*	*	0.6	14.8	14.1	0.1	1.5	160.1	3.3	194.6	0.0	194.6	0.0	194.6
1973	*	*	0.6	15.9	12.9	0.1	1.3	164.4	6.0	201.2	0.0	201.2	0.0	201.2
1974	*	*	0.5	15.2	12.7	0.1	1.3	163.9	4.5	198.3	0.0	198.3	0.0	198.3
1975	*	*	**0.5**	**13.9**	**11.4**	**0.1**	**1.2**	**165.7**	**3.7**	**196.4**	**0.0**	**196.5**	**0.0**	**196.5**
1976	*	*	0.4	14.5	10.9	0.1	1.3	169.6	4.4	201.3	0.0	201.3	0.0	201.3
1977	*	*	0.6	14.3	12.0	0.1	1.5	172.1	3.4	204.1	0.0	204.1	0.0	204.1
1978	0.0	*	0.5	15.5	12.0	0.2	1.6	172.7	3.1	205.6	0.0	205.7	0.0	205.7
1979	0.0	0.1	0.4	15.8	12.6	0.1	1.7	163.7	0.3	194.6	0.0	194.7	0.0	194.7
1980	**0.0**	**0.1**	**0.4**	**15.0**	**10.9**	**0.1**	**1.5**	**156.9**	**0.3**	**185.1**	**0.0**	**185.2**	**0.0**	**185.2**
1981	0.0	0.1	0.4	13.3	8.7	0.1	1.4	157.2	*	181.2	0.0	181.3	0.0	181.3
1982	0.0	0.7	0.3	21.5	6.1	0.1	1.3	156.1	*	185.4	0.0	186.0	0.0	186.0
1983	0.0	0.2	0.3	17.9	5.4	0.1	1.4	159.2	2.8	187.1	0.0	187.3	0.0	187.3
1984	0.0	0.2	0.3	25.8	5.7	0.1	1.5	160.9	3.0	197.3	0.0	197.5	0.0	197.5
1985	**0.0**	**0.4**	**0.4**	**25.9**	**6.1**	**0.1**	**1.4**	**160.9**	**0.9**	**195.7**	**0.0**	**196.0**	**0.0**	**196.0**
1986	0.0	0.7	0.4	25.3	7.1	0.1	1.3	165.4	0.3	199.8	0.0	200.4	0.0	200.4
1987	0.0	1.0	0.3	26.9	10.1	0.1	1.5	167.8	0.5	207.2	0.0	208.2	0.0	208.2
1988	0.0	0.6	0.2	30.6	12.2	0.1	1.5	170.5	0.9	215.9	0.0	216.5	0.0	216.5
1989	0.0	0.6	0.2	36.8	12.7	0.1	1.5	167.0	0.5	218.8	0.0	219.3	0.0	219.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 56. Estimates of Energy Input at Electric Utilities, 1960-1989, Connecticut

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**2,776**	**0**	**2,776**	**2**	**1,597**	**79**	**0**	**1,676**	**0**	**398**	**0**	**0**	
1961	3,088	0	3,088	1	1,376	68	0	1,444	0	340	0	0	
1962	3,333	0	3,333	*	1,485	73	0	1,558	0	254	0	0	
1963	3,493	0	3,493	*	2,033	100	0	2,133	0	246	0	0	
1964	3,750	0	3,750	*	2,104	104	0	2,208	0	244	0	0	
1965	**4,097**	**0**	**4,097**	*	**2,550**	**126**	**0**	**2,676**	**0**	**179**	**0**	**0**	
1966	4,428	0	4,428	*	3,439	170	0	3,608	0	245	0	0	
1967	3,457	0	3,457	*	8,152	402	0	8,554	524	389	0	0	
1968	2,669	0	2,669	*	12,183	601	0	12,784	3,004	355	0	0	
1969	2,117	0	2,117	*	17,377	857	0	18,234	3,639	418	0	0	
1970	**1,875**	**0**	**1,875**	*	**20,531**	**1,018**	**0**	**21,550**	**3,604**	**327**	**0**	**0**	
1971	1,422	0	1,422	*	21,221	1,212	0	22,433	7,767	385	0	0	
1972	94	0	94	*	28,083	1,103	0	29,186	7,777	534	0	0	
1973	29	0	29	*	29,589	751	0	30,341	4,303	441	0	0	
1974	186	0	186	1	26,060	486	0	26,545	7,970	422	0	0	
1975	**4**	**0**	**4**	*	**22,150**	**232**	**0**	**22,382**	**8,135**	**487**	**0**	**0**	
1976	11	0	11	*	19,705	204	0	19,909	12,330	377	0	0	
1977	10	0	10	0	18,832	119	0	18,951	13,174	425	0	0	
1978	16	0	16	0	19,663	78	0	19,741	13,863	353	0	0	
1979	9	0	9	0	18,277	133	0	18,409	12,706	455	0	0	
1980	**0**	**0**	**0**	**0**	**21,428**	**168**	**0**	**21,596**	**11,835**	**250**	**0**	**0**	
1981	0	0	0	0	18,220	93	0	18,313	12,673	254	0	0	
1982	0	0	0	0	17,371	74	0	17,445	13,625	365	0	0	
1983	0	0	0	0	19,666	70	0	19,736	11,588	372	0	0	
1984	13	0	13	2	20,459	124	0	20,583	14,292	371	0	0	
1985	**774**	**0**	**774**	**2**	**17,006**	**83**	**0**	**17,089**	**12,721**	**300**	**0**	**0**	
1986	763	0	763	1	18,318	112	0	18,430	18,667	797	0	0	
1987	787	0	787	7	15,596	136	0	15,732	20,540	912	0	0	
1988	854	0	854	1	18,271	230	0	18,500	22,251	1,002	0	242	
1989	877	0	877	3	18,876	198	0	19,074	19,563	618	0	317	
	Trillion Btu												
1960	**73.7**	**0.0**	**73.7**	**1.8**	**10.0**	**0.5**	**0.0**	**10.5**	**0.0**	**4.3**	**0.0**	**0.0**	**90.3**
1961	82.0	0.0	82.0	0.7	8.7	0.4	0.0	9.0	0.0	3.6	0.0	0.0	95.3
1962	88.5	0.0	88.5	0.5	9.3	0.4	0.0	9.8	0.0	2.7	0.0	0.0	101.4
1963	92.4	0.0	92.4	0.3	12.8	0.6	0.0	13.4	0.0	2.6	0.0	0.0	108.7
1964	98.1	0.0	98.1	0.4	13.2	0.6	0.0	13.8	0.0	2.6	0.0	0.0	114.9
1965	**106.2**	**0.0**	**106.2**	**0.3**	**16.0**	**0.7**	**0.0**	**16.8**	**0.0**	**1.9**	**0.0**	**0.0**	**125.1**
1966	113.9	0.0	113.9	0.5	21.6	1.0	0.0	22.6	0.0	2.5	0.0	0.0	139.5
1967	88.2	0.0	88.2	0.5	51.3	2.3	0.0	53.6	6.1	4.1	0.0	0.0	152.4
1968	67.7	0.0	67.7	0.4	76.6	3.5	0.0	80.1	33.9	3.7	0.0	0.0	185.8
1969	51.3	0.0	51.3	0.3	109.3	5.0	0.0	114.2	40.2	4.4	0.0	0.0	210.4
1970	**44.2**	**0.0**	**44.2**	**0.1**	**129.1**	**5.9**	**0.0**	**135.0**	**39.6**	**3.4**	**0.0**	**0.0**	**222.3**
1971	33.3	0.0	33.3	0.1	133.4	7.1	0.0	140.5	84.2	4.0	0.0	0.0	262.0
1972	2.1	0.0	2.1	*	176.6	6.4	0.0	182.9	83.9	5.5	0.0	0.0	274.6
1973	0.7	0.0	0.7	*	186.0	4.3	0.0	190.4	46.9	4.6	0.0	0.0	242.5
1974	4.4	0.0	4.4	0.5	163.8	2.8	0.0	166.6	89.0	4.4	0.0	0.0	265.0
1975	**0.1**	**0.0**	**0.1**	**0.3**	**139.3**	**1.3**	**0.0**	**140.6**	**89.6**	**5.1**	**0.0**	**0.0**	**235.7**
1976	0.3	0.0	0.3	0.4	123.9	1.2	0.0	125.1	136.2	3.9	0.0	0.0	265.9
1977	0.2	0.0	0.2	0.0	118.4	0.7	0.0	119.1	141.9	4.4	0.0	0.0	265.6
1978	0.4	0.0	0.4	0.0	123.6	0.5	0.0	124.1	151.7	3.7	0.0	0.0	279.8
1979	0.2	0.0	0.2	0.0	114.9	0.7	0.0	115.7	138.2	4.7	0.0	0.0	258.8
1980	**0.0**	**0.0**	**0.0**	**0.0**	**134.7**	**1.0**	**0.0**	**135.7**	**129.1**	**2.6**	**0.0**	**0.0**	**267.4**
1981	0.0	0.0	0.0	0.0	114.6	0.5	0.0	115.1	139.8	2.7	0.0	0.0	257.5
1982	0.0	0.0	0.0	0.0	109.2	0.4	0.0	109.6	150.9	3.8	0.0	0.0	264.3
1983	0.0	0.0	0.0	0.0	123.6	0.4	0.0	124.0	126.4	3.9	0.0	0.0	254.3
1984	0.3	0.0	0.3	2.3	128.6	0.7	0.0	129.3	155.0	3.8	0.0	0.0	290.8
1985	**20.4**	**0.0**	**20.4**	**1.6**	**106.9**	**0.5**	**0.0**	**107.4**	**137.6**	**3.1**	**0.0**	**0.0**	**270.0**
1986	20.1	0.0	20.1	0.8	115.2	0.7	0.0	115.8	201.6	8.2	0.0	0.0	346.5
1987	20.7	0.0	20.7	7.6	98.1	0.8	0.0	98.8	221.3	9.4	0.0	0.0	357.8
1988	22.4	0.0	22.4	1.3	114.9	1.3	0.0	116.2	239.0	10.3	0.0	2.5	391.7
1989	23.3	0.0	23.3	3.4	118.7	1.2	0.0	119.8	209.8	6.4	0.0	3.3	366.0

[1] Includes supplemental gaseous fuels.
[2] *Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes* Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 57. Energy Consumption Estimates by Source, 1960-1989, Delaware

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**791**	**9**	**239**	**19**	**2,712**	**2,144**	**966**	**1,007**	**111**	**4,314**	**6,246**	**2,781**	**20,539**	**0**	**0**	**0**	**0**	**-668**	
1961	812	9	172	18	2,526	2,180	907	1,096	108	4,755	5,115	2,719	19,595	0	0	0	0	-768	
1962	878	14	198	42	3,090	2,355	974	1,222	109	4,760	4,816	2,779	20,344	0	0	0	0	-1,088	
1963	1,033	16	234	69	3,443	2,427	936	1,330	109	5,002	4,780	2,615	20,946	0	0	0	0	-1,240	
1964	1,135	17	431	119	3,239	2,514	717	1,476	114	4,885	4,498	2,754	20,747	0	0	0	0	-1,430	
1965	**1,103**	**18**	**571**	**150**	**3,275**	**2,086**	**825**	**1,507**	**112**	**5,076**	**5,538**	**2,837**	**21,978**	**0**	**0**	**0**	**0**	**-817**	
1966	1,491	19	595	92	3,288	2,226	829	1,592	116	5,303	5,535	2,768	22,345	0	0	0	0	-2,144	
1967	1,543	21	587	75	3,331	2,397	636	1,743	101	5,392	3,998	2,634	20,895	0	0	0	0	-1,979	
1968	1,691	24	637	58	3,946	2,782	595	1,919	111	5,694	4,364	2,704	22,811	0	*	0	0	-1,004	
1969	1,640	26	561	38	4,103	2,453	523	2,210	106	5,982	5,863	2,751	24,589	0	0	0	0	-395	
1970	**1,541**	**26**	**518**	**20**	**4,308**	**2,062**	**437**	**2,255**	**108**	**6,247**	**6,588**	**3,897**	**26,441**	**0**	**0**	**0**	**0**	**-1,583**	
1971	1,491	26	655	11	4,350	2,032	425	2,286	112	6,526	6,284	4,009	26,689	0	0	0	0	-874	
1972	939	24	560	18	4,367	1,905	416	2,631	120	6,737	9,486	3,916	30,156	0	0	0	0	698	
1973	853	23	454	11	4,398	1,729	361	2,761	111	7,142	12,900	3,780	33,646	0	0	0	0	-171	
1974	878	20	626	59	4,391	1,756	311	2,735	106	7,005	12,317	3,589	32,895	0	0	0	0	-3,203	
1975	**937**	**19**	**653**	**15**	**4,309**	**1,654**	**277**	**2,654**	**82**	**7,069**	**10,218**	**3,269**	**30,200**	**0**	**0**	**0**	**0**	**-1,500**	
1976	811	19	501	19	4,586	1,582	290	2,717	91	7,395	11,308	4,072	32,560	0	0	0	0	-1,596	
1977	733	16	285	24	4,794	1,666	191	2,679	139	7,333	12,140	4,370	33,621	0	0	0	0	-1,665	
1978	892	21	210	18	4,222	1,416	166	2,819	149	7,326	11,490	4,580	32,395	0	0	0	0	-2,376	
1979	968	25	412	20	3,617	1,419	316	7,128	156	6,999	11,165	4,915	36,147	0	0	0	0	-1,473	
1980	**1,130**	**30**	**350**	**10**	**3,716**	**1,573**	**301**	**3,199**	**139**	**6,614**	**12,717**	**4,945**	**33,564**	**0**	**0**	**0**	**0**	**-941**	
1981	2,033	31	419	9	3,125	1,482	267	873	133	6,882	8,777	3,172	25,139	0	0	0	0	-7,882	
1982	1,907	28	442	14	2,755	1,484	340	884	122	6,620	6,391	2,973	22,025	0	0	0	0	-4,262	
1983	2,859	35	208	16	3,382	1,374	270	889	127	7,216	5,056	3,283	21,821	0	0	0	0	-10,225	
1984	2,813	43	238	13	3,542	1,586	191	1,304	136	7,440	4,649	3,394	22,493	0	0	0	0	-8,005	
1985	**2,766**	**38**	**827**	**16**	**3,425**	**1,569**	**319**	**1,012**	**126**	**7,554**	**3,366**	**3,279**	**21,494**	**0**	**0**	**0**	**0**	**-6,084**	
1986	2,565	33	609	20	3,312	1,341	172	883	124	7,719	4,615	3,501	22,294	0	0	0	0	-3,683	
1987	2,710	37	573	16	3,824	1,287	211	962	140	7,867	3,939	3,621	22,440	0	0	0	0	-3,563	
1988	2,686	29	410	18	3,851	1,362	158	1,047	135	8,195	5,750	4,026	24,953	0	0	0	0	-3,204	
1989	2,357	35	522	18	4,216	1,255	139	1,016	138	8,151	4,870	4,037	24,363	0	0	0	0	-323	
									Trillion Btu										
1960	**20.5**	**9.4**	**1.6**	**0.1**	**15.8**	**11.5**	**5.5**	**4.0**	**0.7**	**22.7**	**39.3**	**16.7**	**117.8**	**0.0**	**0.0**	**0.0**	**0.0**	**-2.3**	**145.4**
1961	20.8	9.7	1.1	0.1	14.7	11.7	5.1	4.4	0.7	25.0	32.2	16.3	111.3	0.0	0.0	0.0	0.0	-2.6	139.1
1962	22.6	15.0	1.3	0.2	18.0	12.6	5.5	4.9	0.7	25.0	30.3	16.7	115.2	0.0	0.0	0.0	0.0	-3.7	149.1
1963	26.5	17.1	1.6	0.3	20.1	13.0	5.3	5.3	0.7	26.3	30.1	15.7	118.3	0.0	0.0	0.0	0.0	-4.2	157.6
1964	29.2	17.8	2.9	0.6	18.9	13.5	4.1	5.9	0.7	25.7	28.3	16.5	117.0	0.0	0.0	0.0	0.0	-4.9	159.1
1965	**29.0**	**18.7**	**3.8**	**0.8**	**19.1**	**11.2**	**4.7**	**6.0**	**0.7**	**26.7**	**34.8**	**17.0**	**124.7**	**0.0**	**0.0**	**0.0**	**0.0**	**-2.8**	**169.7**
1966	38.7	19.8	4.0	0.5	19.2	12.0	4.7	6.4	0.7	27.9	34.8	16.6	126.6	0.0	0.0	0.0	0.0	-7.3	177.8
1967	40.7	21.9	3.9	0.4	19.4	12.9	3.6	6.7	0.6	28.3	25.1	15.8	116.7	0.0	0.0	0.0	0.0	-6.8	172.6
1968	44.1	25.1	4.2	0.3	23.0	14.9	3.4	7.3	0.7	29.9	27.4	16.2	127.4	0.0	*	0.0	0.0	-3.4	193.1
1969	41.7	26.9	3.7	0.2	23.9	13.2	3.0	8.4	0.6	31.4	36.9	16.5	137.8	0.0	0.0	0.0	0.0	-1.3	205.2
1970	**37.2**	**26.9**	**3.4**	**0.1**	**25.1**	**11.1**	**2.5**	**8.5**	**0.7**	**32.8**	**41.4**	**23.4**	**149.1**	**0.0**	**0.0**	**0.0**	**0.0**	**-5.4**	**207.8**
1971	36.7	27.0	4.3	0.1	25.3	10.9	2.4	8.6	0.7	34.3	39.5	23.9	150.0	0.0	0.0	0.0	0.0	-3.0	210.7
1972	23.5	24.6	3.7	0.1	25.4	10.2	2.4	9.9	0.7	35.4	59.6	23.3	170.8	0.0	0.0	0.0	0.0	2.4	221.3
1973	21.0	23.4	3.0	0.1	25.6	9.3	2.0	10.3	0.7	37.5	81.1	22.5	192.2	0.0	0.0	0.0	0.0	-0.6	236.0
1974	21.3	20.8	4.2	0.3	25.6	9.4	1.8	10.2	0.6	36.8	77.4	21.3	187.6	0.0	0.0	0.0	0.0	-10.9	218.7
1975	**22.9**	**19.0**	**4.3**	**0.1**	**25.1**	**8.9**	**1.6**	**9.9**	**0.5**	**37.1**	**64.2**	**19.4**	**171.1**	**0.0**	**0.0**	**0.0**	**0.0**	**-5.1**	**207.9**
1976	20.2	19.7	3.3	0.1	26.7	8.5	1.6	10.1	0.6	38.8	71.1	23.9	184.7	0.0	0.0	0.0	0.0	-5.4	219.1
1977	17.7	16.3	1.9	0.1	27.9	9.0	1.1	9.8	0.8	38.5	76.3	25.6	191.1	0.0	0.0	0.0	0.0	-5.7	219.4
1978	21.8	21.3	1.4	0.1	24.6	7.6	0.9	10.3	0.9	38.5	72.2	26.8	163.4	0.0	0.0	0.0	0.0	-8.1	218.4
1979	23.9	25.8	2.7	0.1	21.1	7.6	1.8	26.2	0.9	36.8	70.2	28.6	196.1	0.0	0.0	0.0	0.0	-5.0	240.7
1980	**28.1**	**30.8**	**2.3**	**0.1**	**21.6**	**8.4**	**1.7**	**11.8**	**0.8**	**34.7**	**80.0**	**28.6**	**190.1**	**0.0**	**0.0**	**0.0**	**0.0**	**-3.2**	**245.8**
1981	50.6	31.7	2.8	*	18.2	8.0	1.5	3.2	0.8	36.1	55.2	18.8	144.6	0.0	0.0	0.0	0.0	-26.9	200.1
1982	47.9	28.8	2.9	0.1	16.0	8.0	1.9	3.2	0.7	34.8	40.2	17.7	125.6	0.0	0.0	0.0	0.0	-14.5	187.7
1983	73.0	35.5	1.4	0.1	19.7	7.4	1.5	3.2	0.8	37.9	31.8	19.7	123.4	0.0	0.0	0.0	0.0	-34.9	197.0
1984	72.8	43.9	1.6	0.1	20.6	8.5	1.1	4.7	0.8	39.1	29.2	20.1	125.8	0.0	0.0	0.0	0.0	-27.3	215.1
1985	**71.4**	**39.5**	**5.5**	**0.1**	**19.9**	**8.4**	**1.8**	**3.6**	**0.8**	**39.7**	**21.2**	**19.6**	**120.6**	**0.0**	**0.0**	**0.0**	**0.0**	**-20.8**	**210.8**
1986	66.4	33.6	4.0	0.1	19.3	7.2	1.0	3.2	0.7	40.5	29.0	21.0	126.1	0.0	0.0	0.0	0.0	-12.6	213.6
1987	70.5	37.3	3.8	0.1	22.3	6.9	1.2	3.5	0.8	41.3	24.8	21.5	126.2	0.0	0.0	0.0	0.0	-12.2	221.8
1988	69.0	29.9	2.7	0.1	22.4	7.3	0.9	3.8	0.8	43.0	36.2	23.8	141.1	0.0	0.0	0.0	0.0	-10.9	229.1
1989	60.8	35.9	3.5	0.1	24.6	6.8	0.8	3.7	0.8	42.8	30.6	23.7	137.4	0.0	0.0	0.0	0.0	-1.1	232.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 58. Residential Energy Consumption Estimates, 1960–1989, Delaware

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**0**	**12**	**12**	**4**	**1,485**	**807**	**176**	**2,468**	**496**	**1,234**
1961	0	11	11	4	1,347	707	218	2,272	538	1,311
1962	0	10	10	5	1,580	791	235	2,606	565	1,359
1963	0	9	9	5	1,820	795	286	2,901	609	1,457
1964	0	9	9	5	1,665	532	323	2,521	665	1,584
1965	**0**	**8**	**8**	**6**	**1,651**	**604**	**288**	**2,543**	**729**	**1,741**
1966	0	7	7	6	1,616	662	338	2,616	815	1,955
1967	0	6	6	7	1,667	517	410	2,594	879	2,100
1968	0	6	6	7	1,976	483	412	2,872	969	2,312
1969	0	5	5	7	1,965	437	457	2,859	1,051	2,511
1970	**0**	**5**	**5**	**8**	**2,037**	**365**	**416**	**2,818**	**1,169**	**2,832**
1971	0	5	5	8	2,069	362	391	2,822	1,248	3,018
1972	0	3	3	8	2,226	335	414	2,975	1,304	3,140
1973	0	3	3	8	2,092	298	375	2,766	1,444	3,456
1974	0	3	3	7	1,954	243	370	2,567	1,377	3,358
1975	**0**	**3**	**3**	**7**	**1,866**	**215**	**394**	**2,474**	**1,640**	**3,956**
1976	0	2	2	7	2,065	223	442	2,730	1,716	4,133
1977	0	2	2	7	2,021	150	380	2,551	1,790	4,323
1978	0	2	2	7	1,792	132	342	2,266	1,821	4,455
1979	0	1	1	7	1,477	263	2,649	4,389	1,816	4,383
1980	*****	**2**	**2**	**7**	**1,316**	**275**	**375**	**1,966**	**1,866**	**4,537**
1981	0	2	2	7	1,029	256	453	1,738	1,443	3,440
1982	3	2	5	7	894	324	377	1,595	1,466	3,522
1983	1	1	2	6	1,365	238	448	2,051	1,546	3,703
1984	0	2	2	7	1,400	174	565	2,139	1,904	4,420
1985	**1**	**1**	**3**	**6**	**1,331**	**294**	**610**	**2,235**	**1,924**	**4,512**
1986	2	2	4	7	1,057	162	428	1,647	2,121	4,863
1987	13	2	15	7	1,341	193	480	2,014	2,329	5,308
1988	6	0	6	8	1,393	140	566	2,099	2,533	5,720
1989	7	1	7	8	1,321	132	579	2,032	2,623	5,883

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity: Net Energy[4]	Electricity: Total[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu											
1960	**0.0**	**0.3**	**0.3**	**3.9**	**8.6**	**4.6**	**0.7**	**13.9**	**1.7**	**19.9**	**4.2**	**24.1**
1961	0.0	0.3	0.3	4.4	7.8	4.0	0.9	12.7	1.8	19.3	4.5	23.7
1962	0.0	0.2	0.2	4.8	9.2	4.5	0.9	14.6	1.9	21.6	4.6	26.2
1963	0.0	0.2	0.2	5.2	10.6	4.5	1.1	16.3	2.1	23.8	5.0	28.8
1964	0.0	0.2	0.2	5.5	9.7	3.0	1.3	14.0	2.3	22.0	5.4	27.4
1965	**0.0**	**0.2**	**0.2**	**5.9**	**9.6**	**3.4**	**1.2**	**14.2**	**2.5**	**22.8**	**5.9**	**28.8**
1966	0.0	0.2	0.2	6.5	9.4	3.8	1.4	14.5	2.8	23.9	6.7	30.6
1967	0.0	0.1	0.1	7.1	9.7	2.9	1.6	14.2	3.0	24.5	7.2	31.7
1968	0.0	0.1	0.1	7.4	11.5	2.7	1.6	15.8	3.3	26.6	7.9	34.5
1969	0.0	0.1	0.1	7.8	11.4	2.5	1.7	15.7	3.6	27.2	8.6	35.7
1970	**0.0**	**0.1**	**0.1**	**8.0**	**11.9**	**2.1**	**1.6**	**15.5**	**4.0**	**27.6**	**9.7**	**37.3**
1971	0.0	0.1	0.1	8.3	12.1	2.1	1.5	15.6	4.3	28.3	10.3	38.6
1972	0.0	0.1	0.1	8.5	13.0	1.9	1.6	16.4	4.5	29.5	10.7	40.2
1973	0.0	0.1	0.1	7.7	12.2	1.7	1.4	15.3	4.9	27.9	11.8	39.7
1974	0.0	0.1	0.1	7.5	11.4	1.4	1.4	14.1	4.7	26.4	11.5	37.9
1975	**0.0**	**0.1**	**0.1**	**7.1**	**10.9**	**1.2**	**1.5**	**13.5**	**5.6**	**26.3**	**13.5**	**39.8**
1976	0.0	0.1	0.1	7.5	12.0	1.3	1.6	14.9	5.9	28.4	14.1	42.5
1977	0.0	0.1	0.1	7.4	11.8	0.9	1.4	14.0	6.1	27.6	14.7	42.3
1978	0.0	*	*	7.7	10.4	0.7	1.3	12.4	6.2	26.4	15.2	41.6
1979	0.0	*	*	7.2	8.6	1.5	9.8	19.8	6.2	33.3	15.0	48.2
1980	*****	*****	*****	**7.1**	**7.7**	**1.6**	**1.4**	**10.6**	**6.4**	**24.2**	**15.5**	**39.6**
1981	0.0	*	*	7.0	6.0	1.5	1.7	9.1	4.9	21.1	11.7	32.8
1982	0.1	*	0.1	6.9	5.2	1.8	1.4	8.4	5.0	20.4	12.0	32.4
1983	*	*	0.1	6.3	8.0	1.3	1.6	10.9	5.3	22.6	12.6	35.2
1984	0.0	*	*	7.0	8.2	1.0	2.0	11.2	6.5	24.7	15.1	39.8
1985	*****	*****	**0.1**	**6.3**	**7.8**	**1.7**	**2.2**	**11.6**	**6.6**	**24.6**	**15.4**	**40.0**
1986	*	0.1	0.1	7.0	6.2	0.9	1.6	8.6	7.2	22.9	16.6	39.5
1987	0.3	*	0.4	7.1	7.8	1.1	1.8	10.7	7.9	26.1	18.1	44.2
1988	0.2	0.0	0.2	7.7	8.1	0.8	2.1	11.0	8.6	27.5	19.5	47.0
1989	0.2	*	0.2	7.7	7.7	0.7	2.1	10.6	8.9	27.4	20.1	47.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 59. Commercial Energy Consumption Estimates, 1960–1989, Delaware

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**0**	**8**	**8**	**1**	**572**	**114**	**31**	**13**	**1,812**	**2,542**	**361**	**897**		
1961	0	8	8	1	519	100	38	13	1,489	2,159	396	964		
1962	0	7	7	1	609	111	41	20	1,527	2,309	406	976		
1963	0	6	6	1	701	112	51	13	1,665	2,542	443	1,061		
1964	0	6	6	1	642	75	57	18	1,650	2,442	487	1,160		
1965	**0**	**5**	**5**	**1**	**636**	**85**	**51**	**11**	**2,081**	**2,864**	**536**	**1,279**		
1966	0	4	4	2	623	93	60	18	2,140	2,934	595	1,427		
1967	0	4	4	2	643	73	72	18	1,485	2,291	639	1,527		
1968	0	4	4	2	762	68	73	20	1,318	2,240	755	1,801		
1969	0	3	3	3	757	61	81	25	1,605	2,529	816	1,949		
1970	**0**	**3**	**3**	**3**	**785**	**51**	**73**	**24**	**1,736**	**2,670**	**889**	**2,154**		
1971	0	3	3	3	798	51	69	25	1,723	2,665	965	2,333		
1972	0	2	2	3	858	47	73	19	1,711	2,708	1,094	2,632		
1973	0	2	2	3	806	42	66	20	2,001	2,935	1,211	2,900		
1974	0	2	2	3	753	34	65	24	1,226	2,103	1,128	2,751		
1975	**0**	**2**	**2**	**3**	**719**	**30**	**70**	**32**	**1,204**	**2,054**	**1,333**	**3,214**		
1976	0	2	2	3	796	31	78	38	1,350	2,293	1,357	3,268		
1977	0	2	2	3	779	21	67	35	1,591	2,494	1,413	3,411		
1978	0	1	1	3	691	19	60	36	1,175	1,981	1,435	3,511		
1979	0	1	1	3	569	37	468	38	1,677	2,789	1,492	3,601		
1980	**1**	**1**	**2**	**3**	**634**	**9**	**66**	**45**	**4,265**	**5,020**	**1,514**	**3,682**		
1981	0	1	1	4	632	8	80	52	1,960	2,733	1,427	3,401		
1982	6	1	7	4	414	12	67	60	1,215	1,767	1,461	3,510		
1983	2	1	3	3	302	9	79	40	185	615	1,546	3,703		
1984	0	1	1	4	310	6	100	27	179	622	1,640	3,809		
1985	**3**	**1**	**3**	**3**	**334**	**23**	**108**	**38**	**49**	**552**	**1,698**	**3,981**		
1986	3	2	5	4	245	9	76	39	99	467	1,864	4,275		
1987	24	1	25	4	362	10	85	41	116	614	1,985	4,524		
1988	12	0	12	4	390	12	100	40	130	673	2,156	4,870		
1989	12	*	13	4	298	3	102	39	102	544	2,282	5,119		
	Trillion Btu											Net Energy[4]		Total[4]
1960	**0.0**	**0.2**	**0.2**	**0.6**	**3.3**	**0.6**	**0.1**	**0.1**	**11.4**	**15.6**	**1.2**	**17.6**	**3.1**	**20.6**
1961	0.0	0.2	0.2	0.7	3.0	0.6	0.2	0.1	9.4	13.2	1.3	15.4	3.3	18.7
1962	0.0	0.2	0.2	0.9	3.5	0.6	0.2	0.1	9.6	14.1	1.4	16.5	3.3	19.8
1963	0.0	0.1	0.1	1.0	4.1	0.6	0.2	0.1	10.5	15.5	1.5	18.2	3.6	21.8
1964	0.0	0.1	0.1	1.1	3.7	0.4	0.2	0.1	10.4	14.9	1.7	17.8	4.0	21.8
1965	**0.0**	**0.1**	**0.1**	**1.4**	**3.7**	**0.5**	**0.2**	**0.1**	**13.1**	**17.5**	**1.8**	**20.8**	**4.4**	**25.2**
1966	0.0	0.1	0.1	1.6	3.6	0.5	0.2	0.1	13.5	17.9	2.0	21.7	4.9	26.6
1967	0.0	0.1	0.1	2.1	3.7	0.4	0.3	0.1	9.3	13.9	2.2	18.2	5.2	23.4
1968	0.0	0.1	0.1	2.2	4.4	0.4	0.3	0.1	8.3	13.5	2.6	18.3	6.1	24.5
1969	0.0	0.1	0.1	2.6	4.4	0.3	0.3	0.1	10.1	15.3	2.8	20.8	6.7	27.4
1970	**0.0**	**0.1**	**0.1**	**2.9**	**4.6**	**0.3**	**0.3**	**0.1**	**10.9**	**16.2**	**3.0**	**22.2**	**7.3**	**29.5**
1971	0.0	0.1	0.1	3.1	4.6	0.3	0.3	0.1	10.8	16.2	3.3	22.6	8.0	30.6
1972	0.0	0.1	0.1	3.3	5.0	0.3	0.3	0.1	10.8	16.4	3.7	23.5	9.0	32.4
1973	0.0	0.1	0.1	3.2	4.7	0.2	0.2	0.1	12.6	17.9	4.1	25.2	9.9	35.1
1974	0.0	*	*	3.2	4.4	0.2	0.2	0.1	7.7	12.7	3.9	19.8	9.4	29.2
1975	**0.0**	*	*	**3.0**	**4.2**	**0.2**	**0.3**	**0.2**	**7.6**	**12.4**	**4.5**	**19.9**	**11.0**	**30.9**
1976	0.0	*	*	3.1	4.6	0.2	0.3	0.2	8.5	13.8	4.6	21.6	11.2	32.7
1977	0.0	*	*	2.9	4.5	0.1	0.2	0.2	10.0	15.1	4.8	22.8	11.6	34.5
1978	0.0	*	*	3.1	4.0	0.1	0.2	0.2	7.4	11.9	4.9	19.9	12.0	31.9
1979	0.0	*	*	2.9	3.3	0.2	1.7	0.2	10.5	16.0	5.1	24.0	12.3	36.3
1980	*	*	*	**3.4**	**3.7**	**0.1**	**0.2**	**0.2**	**26.8**	**31.0**	**5.2**	**39.6**	**12.6**	**52.2**
1981	0.0	*	*	3.9	3.7	*	0.3	0.3	12.3	16.6	4.9	25.4	11.6	37.0
1982	0.1	*	0.2	3.7	2.4	0.1	0.2	0.3	7.6	10.7	5.0	19.5	12.0	31.5
1983	*	*	0.1	3.5	1.8	0.1	0.3	0.2	1.2	3.5	5.3	12.3	12.6	24.9
1984	0.0	*	*	3.9	1.8	*	0.4	0.1	1.1	3.5	5.6	13.0	13.0	26.0
1985	**0.1**	*	**0.1**	**3.5**	**1.9**	**0.1**	**0.4**	**0.2**	**0.3**	**3.0**	**5.8**	**12.3**	**13.6**	**25.9**
1986	0.1	*	0.1	3.6	1.4	*	0.3	0.2	0.6	2.6	6.4	12.6	14.6	27.2
1987	0.6	*	0.6	3.8	2.1	0.1	0.3	0.2	0.7	3.4	6.8	14.6	15.4	30.0
1988	0.3	0.0	0.3	4.1	2.3	0.1	0.4	0.2	0.8	3.7	7.4	15.5	16.6	32.1
1989	0.3	*	0.3	4.2	1.7	*	0.4	0.2	0.6	3.0	7.8	15.3	17.5	32.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 60. Industrial Energy Consumption Estimates, 1960–1989, Delaware

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**29**	**4**	**32**	**1**	**239**	**482**	**45**	**798**	**37**	**205**	**2,931**	**2,781**	**7,518**	**0**	**863**	**2,146**		
1961	28	3	31	1	172	487	101	839	36	178	2,493	2,719	7,024	0	806	1,965		
1962	26	3	29	5	198	686	71	944	46	317	2,526	2,779	7,568	0	924	2,221		
1963	38	4	42	7	234	613	29	991	46	277	2,591	2,615	7,397	0	1,106	2,645		
1964	37	4	41	7	431	692	110	1,093	49	155	2,256	2,754	7,539	0	1,248	2,973		
1965	**31**	**4**	**35**	**6**	**571**	**715**	**136**	**1,165**	**40**	**144**	**2,785**	**2,837**	**8,394**	**0**	**1,373**	**3,277**		
1966	30	3	33	7	595	742	74	1,190	42	138	2,873	2,768	8,422	0	1,652	3,964		
1967	24	3	27	8	587	679	46	1,257	40	130	2,002	2,634	7,376	0	1,783	4,261		
1968	33	3	36	11	637	756	44	1,431	44	131	1,856	2,704	7,602	*	2,291	5,466		
1969	39	2	41	12	561	834	25	1,665	41	117	2,350	2,751	8,343	0	2,481	5,926		
1970	**33**	**2**	**35**	**12**	**518**	**794**	**20**	**1,753**	**41**	**92**	**2,643**	**2,657**	**8,519**	**0**	**2,527**	**6,124**		
1971	25	1	26	11	655	863	12	1,806	41	94	2,461	2,910	8,842	0	2,474	5,980		
1972	24	1	25	10	560	874	34	2,120	44	95	2,790	3,066	9,583	0	2,667	6,421		
1973	30	1	31	10	454	902	21	2,299	46	74	3,921	3,160	10,876	0	2,782	6,659		
1974	23	1	23	9	626	865	34	2,278	44	96	2,505	3,058	9,505	0	2,777	6,772		
1975	**26**	**1**	**27**	**7**	**653**	**1,079**	**32**	**2,154**	**31**	**63**	**1,878**	**3,032**	**8,923**	**0**	**2,176**	**5,249**		
1976	23	1	24	6	501	979	35	2,162	34	58	2,056	3,748	9,573	0	2,287	5,510		
1977	26	1	27	4	285	1,127	19	2,193	75	51	2,132	3,979	9,861	0	2,274	5,491		
1978	110	1	111	9	210	871	16	2,361	81	47	1,545	4,149	9,279	0	2,423	5,928		
1979	78	1	78	10	412	685	16	3,997	85	46	2,075	4,481	11,797	0	2,597	6,267		
1980	**183**	**1**	**184**	**13**	**350**	**616**	**17**	**2,744**	**75**	**35**	**1,808**	**4,474**	**10,120**	**0**	**2,439**	**5,931**		
1981	190	0	190	14	419	406	3	332	72	34	1,396	2,855	5,518	0	2,309	5,504		
1982	175	0	175	12	442	413	4	431	66	29	1,404	2,703	5,493	0	2,135	5,129		
1983	153	1	154	20	208	421	23	351	69	25	840	2,935	4,871	0	2,462	5,898		
1984	191	1	192	25	238	431	10	634	74	58	814	3,064	5,323	0	2,685	6,236		
1985	**216**	**1**	**217**	**22**	**827**	**423**	**2**	**290**	**69**	**54**	**451**	**2,928**	**5,045**	**0**	**2,693**	**6,315**		
1986	205	1	206	21	609	420	1	344	67	61	441	3,067	5,011	0	2,839	6,508		
1987	221	0	221	18	573	422	8	395	76	59	656	3,248	5,436	0	2,701	6,156		
1988	247	1	248	15	410	446	5	376	73	56	822	3,700	5,889	0	2,854	6,445		
1989	208	1	209	15	522	451	4	329	75	65	425	3,720	5,591	0	3,160	7,089		
								Trillion Btu										
1960	**0.7**	**0.1**	**0.8**	**1.5**	**1.6**	**2.8**	**0.3**	**3.2**	**0.2**	**1.1**	**18.4**	**16.7**	**44.3**	**0.0**	**2.9**	**49.6**	**7.3**	**56.9**
1961	0.7	0.1	0.8	1.3	1.1	2.8	0.6	3.4	0.2	0.9	15.7	16.3	41.1	0.0	2.8	45.9	6.7	52.7
1962	0.7	0.1	0.7	5.5	1.3	4.0	0.4	3.8	0.3	1.7	15.9	16.7	44.0	0.0	3.2	53.5	7.6	61.0
1963	1.0	0.1	1.1	7.3	1.6	3.6	0.2	4.0	0.3	1.5	16.3	15.7	43.0	0.0	3.8	55.1	9.0	64.1
1964	0.9	0.1	1.0	7.2	2.9	4.0	0.6	4.4	0.3	0.8	14.2	16.5	43.7	0.0	4.3	56.2	10.1	66.3
1965	**0.8**	**0.1**	**0.9**	**6.6**	**3.8**	**4.2**	**0.8**	**4.7**	**0.2**	**0.8**	**17.5**	**17.0**	**49.0**	**0.0**	**4.7**	**61.2**	**11.2**	**72.3**
1966	0.7	0.1	0.8	7.4	4.0	4.3	0.4	4.8	0.3	0.7	18.1	16.6	49.1	0.0	5.6	62.9	13.5	76.5
1967	0.6	0.1	0.7	8.7	3.9	4.0	0.3	4.8	0.2	0.7	12.6	15.8	42.3	0.0	6.1	57.7	14.5	72.3
1968	0.8	0.1	0.9	11.9	4.2	4.4	0.2	5.5	0.3	0.7	11.7	16.2	43.2	*	7.8	63.8	18.6	82.4
1969	0.9	*	1.0	12.5	3.7	4.9	0.1	6.3	0.2	0.6	14.8	16.5	47.2	0.0	8.5	69.1	20.2	89.4
1970	**0.8**	*	**0.8**	**12.3**	**3.4**	**4.6**	**0.1**	**6.6**	**0.3**	**0.5**	**16.6**	**16.0**	**48.1**	**0.0**	**8.6**	**69.8**	**20.9**	**90.7**
1971	0.6	*	0.6	11.5	4.3	5.0	0.1	6.8	0.2	0.5	15.5	17.3	49.8	0.0	8.4	70.3	20.4	90.7
1972	0.6	*	0.6	10.3	3.7	5.1	0.2	8.0	0.3	0.5	17.5	18.2	53.5	0.0	9.1	73.5	21.9	95.4
1973	0.7	*	0.7	10.2	3.0	5.3	0.1	8.6	0.3	0.4	24.6	18.8	61.1	0.0	9.5	81.5	22.7	104.3
1974	0.5	*	0.5	9.1	4.2	5.0	0.2	8.5	0.3	0.5	15.8	18.1	52.5	0.0	9.5	71.7	23.1	94.8
1975	**0.6**	*	**0.6**	**7.1**	**4.3**	**6.3**	**0.2**	**8.0**	**0.2**	**0.3**	**11.8**	**18.0**	**49.1**	**0.0**	**7.4**	**64.3**	**17.9**	**82.2**
1976	0.5	*	0.6	6.5	3.3	5.7	0.2	8.0	0.2	0.3	12.9	21.9	52.6	0.0	7.8	67.6	18.8	86.4
1977	0.6	*	0.6	4.6	1.9	6.6	0.1	8.1	0.5	0.3	13.4	23.3	54.0	0.0	7.8	67.0	18.7	85.7
1978	2.7	*	2.7	8.9	1.4	5.1	0.1	8.7	0.5	0.2	9.7	24.3	49.9	0.0	8.3	69.8	20.2	90.0
1979	1.9	*	1.9	10.3	2.7	4.0	0.1	14.7	0.5	0.2	13.0	26.0	61.3	0.0	8.9	82.4	21.4	103.8
1980	**4.5**	*	**4.5**	**13.1**	**2.3**	**3.6**	**0.1**	**10.1**	**0.5**	**0.2**	**11.4**	**25.8**	**53.9**	**0.0**	**8.3**	**79.8**	**20.2**	**100.0**
1981	4.6	0.0	4.6	14.9	2.8	2.4	*	1.2	0.4	0.2	8.8	16.9	32.7	0.0	7.9	60.0	18.8	78.8
1982	4.3	0.0	4.3	12.8	2.9	2.4	*	1.6	0.4	0.2	8.8	16.1	32.4	0.0	7.3	56.7	17.5	74.2
1983	3.8	*	3.8	20.5	1.4	2.5	0.1	1.3	0.4	0.1	5.3	17.6	28.6	0.0	8.4	61.3	20.1	81.4
1984	4.7	*	4.7	25.7	1.6	2.5	0.1	2.3	0.4	0.3	5.1	18.1	30.4	0.0	9.2	69.9	21.3	91.2
1985	**5.3**	*	**5.4**	**22.1**	**5.5**	**2.5**	*	**1.0**	**0.4**	**0.3**	**2.8**	**17.5**	**30.0**	**0.0**	**9.2**	**66.7**	**21.5**	**88.2**
1986	5.1	*	5.1	21.2	4.0	2.4	*	1.3	0.4	0.3	2.8	18.4	29.6	0.0	9.7	65.6	22.2	87.8
1987	5.5	0.0	5.5	18.2	3.8	2.5	*	1.4	0.5	0.3	4.1	19.2	31.9	0.0	9.2	64.8	21.0	85.8
1988	6.1	*	6.1	15.1	2.7	2.6	*	1.4	0.4	0.3	5.2	21.8	34.5	0.0	9.7	65.4	22.0	87.4
1989	5.1	*	5.2	15.4	3.5	2.6	*	1.2	0.5	0.3	2.7	21.8	32.6	0.0	10.8	63.9	24.2	88.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 61. Transportation Energy Consumption Estimates, 1960–1989, Delaware

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**1**	**0**	**19**	**166**	**2,144**	**2**	**74**	**4,096**	**1,464**	**7,965**	**0**		**0**	
1961	*	0	18	165	2,180	1	72	4,564	1,094	8,093	0		0	
1962	*	0	42	201	2,355	1	63	4,423	690	7,775	0		0	
1963	*	0	69	292	2,427	2	63	4,713	438	8,004	0		0	
1964	*	0	119	222	2,514	2	66	4,712	497	8,131	0		0	
1965	*	**0**	**150**	**256**	**2,086**	**3**	**71**	**4,921**	**589**	**8,076**	**0**		**0**	
1966	*	0	92	286	2,226	3	74	5,147	415	8,243	0		0	
1967	*	0	75	314	2,397	4	62	5,243	371	8,466	0		0	
1968	*	0	58	368	2,782	4	68	5,543	769	9,591	0		0	
1969	*	0	38	358	2,453	8	65	5,841	963	9,725	0		0	
1970	*	**0**	**20**	**385**	**2,062**	**13**	**67**	**6,131**	**671**	**9,350**	**0**		**0**	
1971	*	0	11	452	2,032	20	71	6,407	493	9,486	0		0	
1972	*	0	18	313	1,905	23	76	6,622	922	9,878	0		0	
1973	*	0	11	409	1,729	20	65	7,048	1,229	10,511	0		0	
1974	*	0	59	506	1,756	21	62	6,885	1,208	10,497	0		0	
1975	*	**0**	**15**	**510**	**1,654**	**36**	**52**	**6,973**	**961**	**10,201**	**0**		**0**	
1976	*	0	19	636	1,582	35	57	7,299	1,031	10,659	0		0	
1977	*	0	24	680	1,666	39	64	7,246	843	10,561	0		0	
1978	0	*	18	692	1,416	56	68	7,243	718	10,211	0		0	
1979	0	*	20	770	1,419	13	71	6,915	541	9,750	0		0	
1980	**0**	**0**	**10**	**963**	**1,573**	**14**	**64**	**6,533**	**812**	**9,970**	**0**		**0**	
1981	0	*	9	939	1,482	8	61	6,795	289	9,582	0		0	
1982	0	*	14	950	1,484	10	56	6,531	201	9,247	0		0	
1983	0	*	16	1,160	1,374	11	58	7,151	522	10,294	0		0	
1984	0	*	13	1,263	1,586	5	62	7,355	505	10,790	0		0	
1985	**0**	*	**16**	**1,236**	**1,569**	**4**	**58**	**7,462**	**216**	**10,560**	**0**		**0**	
1986	0	*	20	1,479	1,341	35	57	7,619	416	10,966	0		0	
1987	0	*	16	1,567	1,287	3	64	7,767	704	11,407	0		0	
1988	0	*	18	1,449	1,362	5	62	8,099	605	11,600	0		0	
1989	0	*	18	1,869	1,255	6	63	8,048	662	11,921	0		0	
							Trillion Btu							
1960	*	**0.0**	**0.1**	**1.0**	**11.5**	*	**0.5**	**21.5**	**9.2**	**43.7**	**0.0**	**43.7**	**0.0**	**43.7**
1961	*	0.0	0.1	1.0	11.7	*	0.4	24.0	6.9	44.0	0.0	44.0	0.0	44.0
1962	*	0.0	0.2	1.2	12.6	*	0.4	23.2	4.3	42.0	0.0	42.0	0.0	42.0
1963	*	0.0	0.3	1.7	13.0	*	0.4	24.8	2.8	43.0	0.0	43.0	0.0	43.0
1964	*	0.0	0.6	1.3	13.5	*	0.4	24.8	3.1	43.6	0.0	43.7	0.0	43.7
1965	*	**0.0**	**0.8**	**1.5**	**11.2**	*	**0.4**	**25.8**	**3.7**	**43.4**	**0.0**	**43.4**	**0.0**	**43.4**
1966	*	0.0	0.5	1.7	12.0	*	0.5	27.0	2.6	44.2	0.0	44.2	0.0	44.2
1967	*	0.0	0.4	1.8	12.9	*	0.4	27.5	2.3	45.3	0.0	45.3	0.0	45.3
1968	*	0.0	0.3	2.1	14.9	*	0.4	29.1	4.8	51.8	0.0	51.8	0.0	51.8
1969	*	0.0	0.2	2.1	13.2	*	0.4	30.7	6.1	52.6	0.0	52.6	0.0	52.6
1970	*	**0.0**	**0.1**	**2.2**	**11.1**	**0.1**	**0.4**	**32.2**	**4.2**	**50.3**	**0.0**	**50.3**	**0.0**	**50.3**
1971	*	0.0	0.1	2.6	10.9	0.1	0.4	33.7	3.1	50.8	0.0	50.9	0.0	50.9
1972	*	0.0	0.1	1.8	10.2	0.1	0.5	34.8	5.8	53.3	0.0	53.3	0.0	53.3
1973	*	0.0	0.1	2.4	9.3	0.1	0.4	37.0	7.7	56.9	0.0	56.9	0.0	56.9
1974	*	0.0	0.3	2.9	9.4	0.1	0.4	36.2	7.6	56.9	0.0	56.9	0.0	56.9
1975	*	**0.0**	**0.1**	**3.0**	**8.9**	**0.1**	**0.3**	**36.6**	**6.0**	**55.0**	**0.0**	**55.0**	**0.0**	**55.0**
1976	*	0.0	0.1	3.7	8.5	0.1	0.3	38.3	6.5	57.6	0.0	57.6	0.0	57.6
1977	*	0.0	0.1	4.0	9.0	0.1	0.4	38.1	5.3	56.9	0.0	56.9	0.0	56.9
1978	0.0	*	0.1	4.0	7.6	0.2	0.4	38.0	4.5	54.9	0.0	54.9	0.0	54.9
1979	0.0	*	0.1	4.5	7.6	*	0.4	36.3	3.4	52.4	0.0	52.4	0.0	52.4
1980	**0.0**	**0.0**	**0.1**	**5.6**	**8.4**	**0.1**	**0.4**	**34.3**	**5.1**	**54.0**	**0.0**	**54.0**	**0.0**	**54.0**
1981	0.0	*	*	5.5	8.0	*	0.4	35.7	1.8	51.4	0.0	51.4	0.0	51.4
1982	0.0	*	0.1	5.5	8.0	*	0.3	34.3	1.3	49.5	0.0	49.6	0.0	49.6
1983	0.0	*	0.1	6.8	7.4	*	0.4	37.6	3.3	55.5	0.0	55.5	0.0	55.5
1984	0.0	*	0.1	7.4	8.5	*	0.4	38.6	3.2	58.2	0.0	58.2	0.0	58.2
1985	**0.0**	*	**0.1**	**7.2**	**8.4**	*	**0.4**	**39.2**	**1.4**	**56.6**	**0.0**	**56.6**	**0.0**	**56.6**
1986	0.0	*	0.1	8.6	7.2	0.1	0.3	40.0	2.6	59.0	0.0	59.0	0.0	59.0
1987	0.0	*	0.1	9.1	6.9	*	0.4	40.8	4.4	61.8	0.0	61.8	0.0	61.8
1988	0.0	*	0.1	8.4	7.3	*	0.4	42.5	3.8	62.6	0.0	62.6	0.0	62.6
1989	0.0	*	0.1	10.9	6.8	*	0.4	42.3	4.2	64.6	0.0	64.6	0.0	64.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 62. Estimates of Energy Input at Electric Utilities, 1960-1989, Delaware

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**737**	**0**	**737**	**3**	**40**	**8**	**0**	**48**	**0**	**0**	**0**	**0**	
1961	762	0	762	3	39	8	0	47	0	0	0	0	
1962	832	0	832	4	72	14	0	86	0	0	0	0	
1963	976	0	976	3	85	17	0	102	0	0	0	0	
1964	1,079	0	1,079	4	95	19	0	114	0	0	0	0	
1965	**1,055**	**0**	**1,055**	**5**	**84**	**17**	**0**	**100**	**0**	**0**	**0**	**0**	
1966	1,447	0	1,447	4	108	21	0	129	0	0	0	0	
1967	1,506	0	1,506	4	140	28	0	168	0	0	0	0	
1968	1,646	0	1,646	4	422	84	0	506	0	0	0	0	
1969	1,590	0	1,590	4	945	188	0	1,133	0	0	0	0	
1970	**1,497**	**0**	**1,497**	**4**	**1,537**	**307**	**1,240**	**3,084**	**0**	**0**	**0**	**0**	
1971	1,458	0	1,458	4	1,607	168	1,099	2,874	0	0	0	0	
1972	909	0	909	2	4,063	96	851	5,010	0	0	0	0	
1973	816	0	816	2	5,750	188	621	6,559	0	0	0	0	
1974	849	0	849	1	7,378	314	531	8,223	0	0	0	0	
1975	**905**	**0**	**905**	**2**	**6,176**	**135**	**237**	**6,547**	**0**	**0**	**0**	**0**	
1976	783	0	783	2	6,871	110	324	7,305	0	0	0	0	
1977	703	0	703	1	7,574	188	391	8,154	0	0	0	0	
1978	778	0	778	1	8,052	176	431	8,659	0	0	0	0	
1979	887	0	887	5	6,871	116	434	7,421	0	0	0	0	
1980	**942**	**0**	**942**	**7**	**5,831**	**187**	**470**	**6,488**	**0**	**0**	**0**	**0**	
1981	1,840	0	1,840	6	5,131	119	318	5,568	0	0	0	0	
1982	1,720	0	1,720	5	3,570	84	270	3,923	0	0	0	0	
1983	2,700	0	2,700	5	3,509	133	348	3,990	0	0	0	0	
1984	2,618	0	2,618	7	3,150	137	330	3,618	0	0	0	0	
1985	**2,543**	**0**	**2,543**	**7**	**2,650**	**101**	**351**	**3,102**	**0**	**0**	**0**	**0**	
1986	2,350	0	2,350	2	3,658	111	434	4,204	0	0	0	0	
1987	2,449	0	2,449	8	2,469	133	374	2,969	0	0	0	0	
1988	2,420	0	2,420	3	4,193	172	326	4,691	0	0	0	0	
1989	2,128	0	2,128	8	3,681	277	317	4,275	0	0	0	0	
					Trillion Btu								
1960	**19.1**	**0.0**	**19.1**	**3.3**	**0.2**	*	**0.0**	**0.3**	**0.0**	**0.0**	**0.0**	**0.0**	**22.7**
1961	19.5	0.0	19.5	3.2	0.2	*	0.0	0.3	0.0	0.0	0.0	0.0	23.0
1962	21.4	0.0	21.4	3.8	0.5	0.1	0.0	0.5	0.0	0.0	0.0	0.0	25.7
1963	25.1	0.0	25.1	3.5	0.5	0.1	0.0	0.6	0.0	0.0	0.0	0.0	29.2
1964	27.9	0.0	27.9	4.0	0.6	0.1	0.0	0.7	0.0	0.0	0.0	0.0	32.6
1965	**27.8**	**0.0**	**27.8**	**4.8**	**0.5**	**0.1**	**0.0**	**0.6**	**0.0**	**0.0**	**0.0**	**0.0**	**33.3**
1966	37.6	0.0	37.6	4.4	0.7	0.1	0.0	0.8	0.0	0.0	0.0	0.0	42.8
1967	39.8	0.0	39.8	4.1	0.9	0.2	0.0	1.0	0.0	0.0	0.0	0.0	44.9
1968	43.0	0.0	43.0	3.7	2.7	0.5	0.0	3.1	0.0	0.0	0.0	0.0	49.8
1969	40.5	0.0	40.5	4.1	5.9	1.1	0.0	7.0	0.0	0.0	0.0	0.0	51.6
1970	**36.2**	**0.0**	**36.2**	**3.8**	**9.7**	**1.8**	**7.5**	**18.9**	**0.0**	**0.0**	**0.0**	**0.0**	**59.0**
1971	35.9	0.0	35.9	4.1	10.1	1.0	6.6	17.7	0.0	0.0	0.0	0.0	57.6
1972	22.8	0.0	22.8	2.5	25.5	0.6	5.1	31.2	0.0	0.0	0.0	0.0	56.5
1973	20.2	0.0	20.2	2.4	36.1	1.1	3.7	41.0	0.0	0.0	0.0	0.0	63.5
1974	20.6	0.0	20.6	0.9	46.4	1.8	3.2	51.4	0.0	0.0	0.0	0.0	72.9
1975	**22.2**	**0.0**	**22.2**	**1.8**	**38.8**	**0.8**	**1.4**	**41.0**	**0.0**	**0.0**	**0.0**	**0.0**	**65.1**
1976	19.5	0.0	19.5	2.5	43.2	0.6	2.0	45.8	0.0	0.0	0.0	0.0	67.8
1977	17.0	0.0	17.0	1.4	47.6	1.1	2.4	51.1	0.0	0.0	0.0	0.0	69.5
1978	19.1	0.0	19.1	1.6	50.6	1.0	2.6	54.2	0.0	0.0	0.0	0.0	74.9
1979	21.9	0.0	21.9	5.4	43.2	0.7	2.6	46.5	0.0	0.0	0.0	0.0	73.8
1980	**23.5**	**0.0**	**23.5**	**7.3**	**36.7**	**1.1**	**2.8**	**40.6**	**0.0**	**0.0**	**0.0**	**0.0**	**71.3**
1981	45.9	0.0	45.9	5.9	32.3	0.7	1.9	34.9	0.0	0.0	0.0	0.0	86.7
1982	43.4	0.0	43.4	5.4	22.4	0.5	1.6	24.6	0.0	0.0	0.0	0.0	73.3
1983	69.1	0.0	69.1	5.2	22.1	0.8	2.1	24.9	0.0	0.0	0.0	0.0	99.2
1984	68.0	0.0	68.0	7.3	19.8	0.8	2.0	22.6	0.0	0.0	0.0	0.0	97.9
1985	**65.9**	**0.0**	**65.9**	**7.5**	**16.7**	**0.6**	**2.1**	**19.4**	**0.0**	**0.0**	**0.0**	**0.0**	**92.8**
1986	61.1	0.0	61.1	1.9	23.0	0.6	2.6	26.3	0.0	0.0	0.0	0.0	89.2
1987	64.0	0.0	64.0	8.1	15.5	0.8	2.3	18.5	0.0	0.0	0.0	0.0	90.6
1988	62.4	0.0	62.4	3.0	26.4	1.0	2.0	29.3	0.0	0.0	0.0	0.0	94.8
1989	55.1	0.0	55.1	8.6	23.1	1.6	1.9	26.7	0.0	0.0	0.0	0.0	90.3

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 63. Energy Consumption Estimates by Source, 1960–1989, District of Columbia

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**1,051**	**13**	**11**	**0**	**2,894**	**0**	**161**	**2**	**120**	**4,957**	**2,428**	**0**	**10,573**	**0**	**3**	**0**	**0**	**5,633**	
1961	977	13	14	0	2,730	0	147	2	117	4,983	1,974	0	9,967	0	5	0	0	6,581	
1962	854	14	15	0	2,806	0	144	2	97	5,071	2,239	0	10,375	0	6	0	0	7,196	
1963	708	15	16	0	2,781	0	139	2	97	5,106	2,544	0	10,686	0	4	0	0	7,748	
1964	690	16	17	0	2,879	*	85	3	102	5,269	3,897	0	12,252	0	5	0	0	8,101	
1965	**526**	**17**	**20**	**0**	**3,435**	*	**104**	**2**	**71**	**5,469**	**6,749**	**0**	**15,850**	**0**	**3**	**0**	**0**	**10,436**	
1966	925	17	18	0	3,348	*	59	3	73	5,570	7,041	0	16,112	0	2	0	0	9,956	
1967	873	21	18	0	3,369	1	79	3	76	5,501	8,401	0	17,448	0	2	0	0	10,318	
1968	911	22	16	0	3,944	*	58	3	84	5,611	8,798	0	18,513	0	1	0	0	7,740	
1969	1,264	25	15	0	4,311	10	41	3	55	5,655	10,277	0	20,368	0	*	0	0	5,169	
1970	**1,128**	**26**	**17**	**0**	**4,934**	*	**46**	**4**	**56**	**5,688**	**11,144**	**0**	**21,889**	**0**	**1**	**0**	**0**	**6,335**	
1971	625	27	18	0	3,837	1	89	4	54	5,673	10,854	0	20,531	0	1	0	0	10,239	
1972	510	29	19	0	3,354	3	36	5	58	5,636	10,589	0	19,698	0	1	0	0	9,087	
1973	564	28	23	0	3,569	1	33	5	53	5,976	11,068	0	20,728	0	1	0	0	8,522	
1974	502	27	23	0	3,592	*	69	4	51	5,699	7,421	0	16,858	0	1	0	0	9,762	
1975	**418**	**26**	**20**	**0**	**3,157**	**0**	**110**	**4**	**60**	**5,748**	**4,174**	**0**	**13,273**	**0**	**1**	**0**	**0**	**14,942**	
1976	242	29	20	0	3,418	0	112	5	67	5,500	4,250	0	13,372	0	1	0	0	15,539	
1977	167	26	21	0	3,598	0	272	5	61	5,215	5,358	0	14,528	0	0	0	0	14,483	
1978	83	26	24	0	3,309	*	258	5	65	5,124	5,059	0	13,844	0	0	0	0	15,250	
1979	119	30	21	0	2,773	3	298	3	68	4,544	2,419	0	10,130	0	0	0	0	18,255	
1980	**134**	**28**	**16**	**0**	**2,284**	**329**	**268**	**4**	**61**	**3,881**	**1,612**	**0**	**8,455**	**0**	**0**	**0**	**0**	**21,154**	
1981	99	29	18	0	1,475	566	73	5	58	3,978	1,074	0	7,247	0	0	0	0	22,207	
1982	125	29	19	0	1,999	336	6	5	53	4,018	1,687	0	8,123	0	0	0	0	24,186	
1983	123	29	26	0	2,304	108	14	5	56	3,978	1,310	0	7,801	0	0	0	0	24,826	
1984	100	29	20	0	2,399	39	5	7	60	4,218	1,456	0	8,203	0	0	0	0	25,024	
1985	**140**	**29**	**27**	**0**	**2,229**	**7**	**31**	**4**	**55**	**3,801**	**740**	**0**	**6,894**	**0**	**0**	**0**	**0**	**26,901**	
1986	54	30	31	0	2,395	501	7	3	54	3,877	1,183	0	8,051	0	0	0	0	27,415	
1987	70	31	31	0	1,937	*	8	4	61	4,236	1,110	0	7,386	0	0	0	0	28,411	
1988	31	33	33	0	1,868	5	7	5	59	4,364	1,110	0	7,451	0	0	0	0	28,556	
1989	60	33	27	0	1,841	0	29	5	61	4,198	1,381	0	7,541	0	0	0	0	28,588	
									Trillion Btu										
1960	**27.8**	**13.0**	**0.1**	**0.0**	**16.9**	**0.0**	**0.9**	*	**0.7**	**26.0**	**15.3**	**0.0**	**59.9**	**0.0**	*	**0.0**	**0.0**	**19.2**	**119.9**
1961	25.8	13.7	0.1	0.0	15.9	0.0	0.8	*	0.7	26.2	12.4	0.0	56.1	0.0	0.1	0.0	0.0	22.5	118.1
1962	22.4	14.7	0.1	0.0	16.3	0.0	0.8	*	0.6	26.6	14.1	0.0	58.6	0.0	0.1	0.0	0.0	24.6	120.4
1963	18.6	15.3	0.1	0.0	16.2	0.0	0.8	*	0.6	26.8	16.0	0.0	60.5	0.0	*	0.0	0.0	26.4	120.9
1964	18.1	16.3	0.1	0.0	16.8	*	0.5	*	0.6	27.7	24.5	0.0	70.2	0.0	0.1	0.0	0.0	27.6	132.2
1965	**13.8**	**17.3**	**0.1**	**0.0**	**20.0**	*	**0.6**	*	**0.4**	**28.7**	**42.4**	**0.0**	**92.3**	**0.0**	*	**0.0**	**0.0**	**35.6**	**159.1**
1966	23.9	17.6	0.1	0.0	19.5	*	0.3	*	0.4	29.3	44.3	0.0	93.9	0.0	*	0.0	0.0	34.0	169.5
1967	22.6	21.9	0.1	0.0	19.6	*	0.4	*	0.5	28.9	52.8	0.0	102.4	0.0	*	0.0	0.0	35.2	182.1
1968	23.7	23.0	0.1	0.0	23.0	*	0.3	*	0.5	29.5	55.3	0.0	108.7	0.0	*	0.0	0.0	26.4	181.8
1969	32.5	25.2	0.1	0.0	25.1	0.1	0.2	*	0.3	29.7	64.6	0.0	120.2	0.0	*	0.0	0.0	17.6	195.6
1970	**28.4**	**26.4**	**0.1**	**0.0**	**28.7**	*	**0.3**	*	**0.3**	**29.9**	**70.1**	**0.0**	**129.4**	**0.0**	*	**0.0**	**0.0**	**21.6**	**205.9**
1971	15.4	27.7	0.1	0.0	22.4	*	0.5	*	0.3	29.8	68.2	0.0	121.4	0.0	*	0.0	0.0	34.9	199.4
1972	12.6	29.0	0.1	0.0	19.5	*	0.2	*	0.4	29.6	66.6	0.0	116.4	0.0	*	0.0	0.0	31.0	189.0
1973	14.1	28.2	0.2	0.0	20.8	*	0.2	*	0.3	31.4	69.6	0.0	122.5	0.0	*	0.0	0.0	29.1	193.8
1974	12.3	27.6	0.2	0.0	20.9	*	0.4	*	0.3	29.9	46.7	0.0	98.4	0.0	*	0.0	0.0	33.3	171.5
1975	**10.1**	**26.2**	**0.1**	**0.0**	**18.4**	**0.0**	**0.6**	*	**0.4**	**30.2**	**26.2**	**0.0**	**76.0**	**0.0**	*	**0.0**	**0.0**	**51.0**	**163.3**
1976	5.8	29.0	0.1	0.0	19.9	0.0	0.6	*	0.4	28.9	26.7	0.0	76.7	0.0	*	0.0	0.0	53.0	164.6
1977	4.0	26.2	0.1	0.0	21.0	0.0	1.5	*	0.4	27.4	33.7	0.0	84.1	0.0	0.0	0.0	0.0	49.4	163.7
1978	2.0	26.6	0.2	0.0	19.3	*	1.5	*	0.4	26.9	31.8	0.0	80.0	0.0	0.0	0.0	0.0	52.0	160.6
1979	2.9	30.1	0.1	0.0	16.2	*	1.7	*	0.4	23.9	15.2	0.0	57.5	0.0	0.0	0.0	0.0	62.3	152.8
1980	**3.3**	**28.0**	**0.1**	**0.0**	**13.3**	**1.9**	**1.5**	*	**0.4**	**20.4**	**10.1**	**0.0**	**47.7**	**0.0**	**0.0**	**0.0**	**0.0**	**72.2**	**151.1**
1981	2.4	29.4	0.1	0.0	8.6	3.2	0.4	*	0.4	20.9	6.7	0.0	40.4	0.0	0.0	0.0	0.0	75.8	148.0
1982	3.1	29.8	0.1	0.0	11.6	1.9	*	*	0.3	21.1	10.6	0.0	45.8	0.0	0.0	0.0	0.0	82.5	161.1
1983	3.0	29.6	0.2	0.0	13.4	0.6	0.1	*	0.3	20.9	8.2	0.0	43.8	0.0	0.0	0.0	0.0	84.7	161.2
1984	2.5	29.8	0.1	0.0	14.0	0.2	*	*	0.4	22.2	9.2	0.0	46.1	0.0	0.0	0.0	0.0	85.4	163.7
1985	**3.5**	**29.3**	**0.2**	**0.0**	**13.0**	*	**0.2**	*	**0.3**	**20.0**	**4.6**	**0.0**	**38.3**	**0.0**	**0.0**	**0.0**	**0.0**	**91.8**	**163.0**
1986	1.4	30.0	0.2	0.0	14.0	2.8	*	*	0.3	20.4	7.4	0.0	45.2	0.0	0.0	0.0	0.0	93.5	170.1
1987	1.7	31.4	0.2	0.0	11.3	*	*	*	0.4	22.3	7.0	0.0	41.1	0.0	0.0	0.0	0.0	96.9	171.2
1988	0.8	33.1	0.2	0.0	10.9	*	*	*	0.4	22.9	7.0	0.0	41.4	0.0	0.0	0.0	0.0	97.4	172.7
1989	1.5	33.8	0.2	0.0	10.7	0.0	0.2	*	0.4	22.1	8.7	0.0	42.2	0.0	0.0	0.0	0.0	97.5	175.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 64. Residential Energy Consumption Estimates, 1960–1989, District of Columbia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**47**	**0**	**47**	**9**	**1,314**	**67**	**1**	**1,382**	**429**	**1,068**		
1961	49	0	49	9	1,147	65	1	1,212	465	1,132		
1962	52	0	52	10	1,177	57	1	1,235	474	1,140		
1963	49	0	49	10	1,168	68	1	1,237	499	1,193		
1964	42	0	42	10	1,187	36	1	1,224	537	1,280		
1965	**36**	**0**	**36**	**11**	**1,241**	**43**	**1**	**1,285**	**578**	**1,381**		
1966	35	0	35	11	1,229	19	1	1,249	627	1,504		
1967	29	0	29	12	1,356	35	1	1,392	643	1,536		
1968	26	0	26	13	1,533	23	1	1,557	711	1,696		
1969	27	0	27	14	1,446	18	1	1,464	767	1,831		
1970	**14**	**0**	**14**	**14**	**1,622**	**21**	**1**	**1,644**	**830**	**2,012**		
1971	11	0	11	14	1,260	44	1	1,306	857	2,073		
1972	8	0	8	14	1,285	15	1	1,302	862	2,075		
1973	9	0	9	14	1,350	15	1	1,366	954	2,283		
1974	12	0	12	13	1,265	9	1	1,274	884	2,156		
1975	**5**	**0**	**5**	**13**	**1,161**	**7**	**1**	**1,169**	**909**	**2,193**		
1976	9	0	9	14	1,189	4	2	1,195	930	2,241		
1977	0	0	0	12	1,157	3	1	1,161	955	2,306		
1978	0	0	0	13	1,135	3	1	1,139	975	2,386		
1979	0	0	0	13	845	2	*	847	986	2,380		
1980	**38**	**0**	**38**	**14**	**749**	**5**	**1**	**755**	**1,085**	**2,638**		
1981	33	0	33	14	281	2	1	284	1,090	2,597		
1982	43	1	44	13	509	4	1	513	1,114	2,675		
1983	43	1	43	13	554	*	1	555	1,208	2,893		
1984	35	1	35	17	568	*	1	569	1,227	2,850		
1985	**49**	**0**	**49**	**17**	**495**	**5**	**1**	**501**	**1,233**	**2,891**		
1986	19	0	19	17	398	6	1	405	1,332	3,053		
1987	24	1	25	17	409	6	1	416	1,410	3,214		
1988	11	0	11	17	295	4	1	300	1,465	3,309		
1989	21	0	21	17	146	5	1	152	1,466	3,289		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**1.2**	**0.0**	**1.2**	**9.0**	**7.7**	**0.4**	*	**8.0**	**1.5**	**19.7**	**3.6**	**23.4**
1961	1.2	0.0	1.2	9.4	6.7	0.4	*	7.1	1.6	19.3	3.9	23.2
1962	1.3	0.0	1.3	10.0	6.9	0.3	*	7.2	1.6	20.2	3.9	24.0
1963	1.2	0.0	1.2	10.3	6.8	0.4	*	7.2	1.7	20.4	4.1	24.5
1964	1.0	0.0	1.0	10.7	6.9	0.2	*	7.1	1.8	20.7	4.4	25.1
1965	**0.9**	**0.0**	**0.9**	**11.1**	**7.2**	**0.2**	*	**7.5**	**2.0**	**21.4**	**4.7**	**26.1**
1966	0.9	0.0	0.9	11.1	7.2	0.1	*	7.3	2.1	21.4	5.1	26.6
1967	0.7	0.0	0.7	12.6	7.9	0.2	*	8.1	2.2	23.7	5.2	28.9
1968	0.6	0.0	0.6	12.9	8.9	0.1	*	9.1	2.4	25.1	5.8	30.8
1969	0.7	0.0	0.7	13.8	8.4	0.1	*	8.5	2.6	25.6	6.2	31.9
1970	**0.3**	**0.0**	**0.3**	**14.1**	**9.4**	**0.1**	*	**9.6**	**2.8**	**26.9**	**6.9**	**33.7**
1971	0.3	0.0	0.3	14.2	7.3	0.3	*	7.6	2.9	25.0	7.1	32.1
1972	0.2	0.0	0.2	14.5	7.5	0.1	*	7.6	2.9	25.2	7.1	32.3
1973	0.2	0.0	0.2	14.0	7.9	0.1	*	8.0	3.3	25.5	7.8	33.3
1974	0.3	0.0	0.3	13.4	7.4	*	*	7.4	3.0	24.2	7.4	31.5
1975	**0.1**	**0.0**	**0.1**	**13.3**	**6.8**	*	*	**6.8**	**3.1**	**23.4**	**7.5**	**30.9**
1976	0.2	0.0	0.2	14.2	6.9	*	*	7.0	3.2	24.5	7.6	32.1
1977	0.0	0.0	0.0	12.6	6.7	*	*	6.8	3.3	22.6	7.9	30.5
1978	0.0	0.0	0.0	13.6	6.6	*	*	6.6	3.3	23.5	8.1	31.7
1979	0.0	0.0	0.0	13.5	4.9	*	*	4.9	3.4	21.8	8.1	29.9
1980	**0.9**	**0.0**	**0.9**	**13.8**	**4.4**	*	*	**4.4**	**3.7**	**22.8**	**9.0**	**31.8**
1981	0.8	0.0	0.8	13.9	1.6	*	*	1.7	3.7	20.1	8.9	28.9
1982	1.1	*	1.1	13.3	3.0	*	*	3.0	3.8	21.1	9.1	30.3
1983	1.1	*	1.1	13.1	3.2	*	*	3.2	4.1	21.6	9.9	31.4
1984	0.9	*	0.9	17.6	3.3	*	*	3.3	4.2	26.0	9.7	35.7
1985	**1.2**	**0.0**	**1.2**	**16.9**	**2.9**	*	*	**2.9**	**4.2**	**25.2**	**9.9**	**35.1**
1986	0.5	0.0	0.5	17.5	2.3	*	*	2.4	4.5	24.9	10.4	35.3
1987	0.6	*	0.6	17.0	2.4	*	*	2.4	4.8	24.8	11.0	35.8
1988	0.3	0.0	0.3	17.7	1.7	*	*	1.7	5.0	24.7	11.3	36.0
1989	0.5	0.0	0.5	17.6	0.8	*	*	0.9	5.0	24.0	11.2	35.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 65. Commercial Energy Consumption Estimates, 1960–1989, District of Columbia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**87**	**0**	**87**	**4**	**1,060**	**34**	*	**85**	**1,443**	**2,621**	**954**	**2,373**		
1961	91	0	91	4	925	32	*	87	1,168	2,212	994	2,422		
1962	97	0	97	4	949	29	*	121	1,327	2,425	1,043	2,508		
1963	92	0	92	5	941	34	*	119	1,516	2,610	1,092	2,612		
1964	78	0	78	5	957	18	*	84	2,331	3,391	1,194	2,844		
1965	**67**	**0**	**67**	**6**	**1,001**	**22**	*	**78**	**4,044**	**5,144**	**1,359**	**3,245**		
1966	65	0	65	6	991	9	*	70	4,226	5,296	1,465	3,515		
1967	54	0	54	9	1,093	17	*	69	5,041	6,221	1,544	3,688		
1968	48	0	48	9	1,236	12	*	73	4,703	6,025	1,687	4,025		
1969	51	0	51	11	1,166	9	*	72	4,829	6,075	1,826	4,362		
1970	**26**	**0**	**26**	**12**	**1,308**	**10**	*	**65**	**5,081**	**6,464**	**1,935**	**4,689**		
1971	20	0	20	13	1,016	22	*	77	4,708	5,823	1,979	4,785		
1972	16	0	16	14	1,036	8	*	84	3,504	4,632	2,103	5,063		
1973	17	0	17	13	1,088	8	*	78	3,160	4,333	2,260	5,411		
1974	23	0	23	13	1,020	4	*	78	1,861	2,963	2,035	4,961		
1975	**10**	**0**	**10**	**12**	**936**	**4**	*	**78**	**1,051**	**2,068**	**2,355**	**5,680**		
1976	17	0	17	14	958	2	*	77	700	1,738	2,285	5,504		
1977	0	0	0	13	932	2	*	75	764	1,773	2,232	5,391		
1978	0	0	0	12	915	2	*	72	608	1,597	2,383	5,829		
1979	0	0	0	16	681	1	*	69	81	832	2,329	5,621		
1980	**71**	**0**	**71**	**14**	**647**	**1**	*	**40**	**37**	**725**	**2,461**	**5,984**		
1981	62	0	62	15	280	1	*	45	78	404	2,423	5,775		
1982	81	*	81	16	450	1	*	56	110	616	2,615	6,280		
1983	79	*	79	16	993	6	*	43	491	1,533	2,750	6,588		
1984	64	*	65	12	1,018	2	*	160	476	1,657	4,159	9,657		
1985	**91**	**0**	**91**	**12**	**749**	**25**	*	**27**	**199**	**1,000**	**4,328**	**10,148**		
1986	35	0	35	12	987	*	*	49	632	1,669	4,532	10,391		
1987	45	*	45	14	649	*	*	22	577	1,248	4,777	10,886		
1988	20	0	20	15	547	2	*	22	163	734	4,985	11,258		
1989	39	0	39	16	540	23	*	21	57	641	5,137	11,523		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**2.2**	**0.0**	**2.2**	**3.7**	**6.2**	**0.2**	*	**0.4**	**9.1**	**15.9**	**3.3**	**25.0**	**8.1**	**33.1**
1961	2.3	0.0	2.3	4.1	5.4	0.2	*	0.5	7.3	13.4	3.4	23.1	8.3	31.4
1962	2.4	0.0	2.4	4.5	5.5	0.2	*	0.6	8.3	14.7	3.6	25.1	8.6	33.7
1963	2.3	0.0	2.3	4.8	5.5	0.2	*	0.6	9.5	15.8	3.7	26.7	8.9	35.6
1964	1.9	0.0	1.9	5.3	5.6	0.1	*	0.4	14.7	20.8	4.1	32.1	9.7	41.8
1965	**1.7**	**0.0**	**1.7**	**6.0**	**5.8**	**0.1**	*	**0.4**	**25.4**	**31.8**	**4.6**	**44.1**	**11.1**	**55.2**
1966	1.6	0.0	1.6	6.2	5.8	0.1	*	0.4	26.6	32.8	5.0	45.6	12.0	57.6
1967	1.3	0.0	1.3	8.9	6.4	0.1	*	0.4	31.7	38.5	5.3	54.1	12.6	66.7
1968	1.2	0.0	1.2	9.6	7.2	0.1	*	0.4	29.6	37.2	5.8	53.8	13.7	67.5
1969	1.2	0.0	1.2	11.0	6.8	*	*	0.4	30.4	37.6	6.2	56.0	14.9	70.9
1970	**0.6**	**0.0**	**0.6**	**11.8**	**7.6**	**0.1**	*	**0.3**	**31.9**	**40.0**	**6.6**	**59.0**	**16.0**	**75.0**
1971	0.5	0.0	0.5	12.9	5.9	0.1	*	0.4	29.6	36.0	6.8	56.2	16.3	72.5
1972	0.4	0.0	0.4	13.8	6.0	*	*	0.4	22.0	28.5	7.2	49.9	17.3	67.2
1973	0.4	0.0	0.4	13.5	6.3	*	*	0.4	19.9	26.7	7.7	48.3	18.5	66.7
1974	0.5	0.0	0.5	13.5	5.9	*	*	0.4	11.7	18.1	6.9	39.1	16.9	56.0
1975	**0.2**	**0.0**	**0.2**	**12.4**	**5.5**	*	*	**0.4**	**6.6**	**12.5**	**8.0**	**33.2**	**19.4**	**52.5**
1976	0.4	0.0	0.4	14.4	5.6	*	*	0.4	4.4	10.4	7.8	33.0	18.8	51.8
1977	0.0	0.0	0.0	13.2	5.4	*	*	0.4	4.8	10.6	7.6	31.4	18.4	49.8
1978	0.0	0.0	0.0	12.6	5.3	*	*	0.4	3.8	9.5	8.1	30.3	19.9	50.2
1979	0.0	0.0	0.0	16.0	4.0	*	*	0.4	0.5	4.8	7.9	28.8	19.2	48.0
1980	**1.7**	**0.0**	**1.7**	**13.8**	**3.8**	*	*	**0.2**	**0.2**	**4.2**	**8.4**	**28.1**	**20.4**	**48.6**
1981	1.5	0.0	1.5	15.2	1.6	*	*	0.2	0.5	2.4	8.3	27.3	19.7	47.0
1982	2.0	*	2.0	16.2	2.6	*	*	0.3	0.7	3.6	8.9	30.7	21.4	52.1
1983	2.0	*	2.0	16.1	5.8	*	*	0.2	3.1	9.1	9.4	36.6	22.5	59.1
1984	1.6	*	1.6	11.8	5.9	*	*	0.8	3.0	9.8	14.2	37.4	32.9	70.3
1985	**2.3**	**0.0**	**2.3**	**12.1**	**4.4**	**0.1**	*	**0.1**	**1.3**	**5.9**	**14.8**	**35.0**	**34.6**	**69.7**
1986	0.9	0.0	0.9	12.1	5.8	*	*	0.3	4.0	10.0	15.5	38.4	35.5	73.9
1987	1.1	*	1.1	14.2	3.8	*	*	0.1	3.6	7.5	16.3	39.1	37.1	76.3
1988	0.5	0.0	0.5	15.2	3.2	*	*	0.1	1.0	4.3	17.0	37.0	38.4	75.4
1989	1.0	0.0	1.0	15.9	3.1	0.1	*	0.1	0.4	3.7	17.5	38.1	39.3	77.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 66. Industrial Energy Consumption Estimates, 1960–1989, District of Columbia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**463**	**0**	**463**	*	**11**	**211**	**61**	**1**	**8**	**0**	**949**	**0**	**1,241**	**0**	**1,237**	**3,076**		
1961	444	0	444	*	14	213	50	1	8	0	767	0	1,053	0	1,346	3,282		
1962	360	0	360	*	15	206	59	1	7	0	877	0	1,163	0	1,412	3,394		
1963	219	0	219	*	16	202	37	1	7	0	1,003	0	1,266	0	1,514	3,620		
1964	134	0	134	*	17	189	32	2	7	0	1,536	0	1,782	0	1,687	4,018		
1965	**129**	**0**	**129**	*	**20**	**316**	**39**	**1**	**11**	**0**	**2,689**	**0**	**3,076**	**0**	**1,836**	**4,383**		
1966	330	0	330	*	18	350	31	1	12	0	2,798	0	3,210	0	1,974	4,736		
1967	262	0	262	*	18	319	26	1	9	0	3,332	0	3,706	0	2,079	4,967		
1968	139	0	139	*	16	192	23	2	10	0	3,071	0	3,314	0	2,239	5,343		
1969	409	0	409	*	15	269	15	2	3	0	3,141	0	3,445	0	2,419	5,779		
1970	**414**	**0**	**414**	*	**17**	**377**	**15**	**2**	**3**	**0**	**3,296**	**0**	**3,710**	**0**	**2,627**	**6,367**		
1971	308	0	308	*	18	350	22	2	0	0	3,096	0	3,488	0	2,738	6,621		
1972	310	0	310	1	19	226	13	3	0	0	2,273	0	2,534	0	2,762	6,647		
1973	279	0	279	1	23	180	11	2	1	0	2,051	0	2,268	0	2,912	6,972		
1974	168	0	168	1	23	160	56	2	1	0	1,214	0	1,456	0	2,616	6,378		
1975	**292**	**0**	**292**	*	**20**	**150**	**99**	**2**	**14**	**0**	**686**	**0**	**970**	**0**	**2,532**	**6,108**		
1976	217	0	217	*	20	136	105	2	16	0	463	0	742	0	2,790	6,721		
1977	167	0	167	*	21	159	267	2	7	0	502	0	958	0	3,054	7,374		
1978	83	0	83	*	24	145	253	3	8	0	399	0	831	0	3,087	7,553		
1979	119	0	119	1	21	285	295	3	8	0	52	0	664	0	3,196	7,713		
1980	**25**	**0**	**25**	*	**16**	**192**	**262**	**3**	**7**	**0**	**54**	**0**	**534**	**0**	**3,356**	**8,161**		
1981	4	0	4	*	18	397	70	3	7	0	18	0	513	0	3,396	8,093		
1982	0	0	0	0	19	187	1	4	6	0	40	0	258	0	3,399	8,164		
1983	0	0	0	0	26	25	6	4	7	0	2	0	72	0	3,566	8,544		
1984	0	0	0	0	20	26	3	5	7	0	2	0	63	0	2,458	5,708		
1985	**0**	**0**	**0**	**0**	**27**	**36**	**1**	**2**	**7**	**59**	**1**	**0**	**133**	**0**	**2,534**	**5,943**		
1986	0	0	0	0	31	79	1	2	6	64	0	0	183	0	2,606	5,974		
1987	0	0	0	0	31	12	1	2	7	80	0	0	134	0	2,708	6,172		
1988	0	0	0	0	33	3	1	3	7	62	0	0	108	0	2,809	6,344		
1989	0	0	0	0	27	3	0	3	7	75	*	0	116	0	2,930	6,572		
	Trillion Btu																	
1960	**12.0**	**0.0**	**12.0**	**0.2**	**0.1**	**1.2**	**0.3**	*	*	**0.0**	**6.0**	**0.0**	**7.7**	**0.0**	**4.2**	**24.0**	**10.5**	**34.5**
1961	11.5	0.0	11.5	0.2	0.1	1.2	0.3	*	*	0.0	4.8	0.0	6.5	0.0	4.6	22.7	11.2	33.9
1962	9.3	0.0	9.3	0.2	0.1	1.2	0.3	*	*	0.0	5.5	0.0	7.2	0.0	4.8	21.5	11.6	33.1
1963	5.6	0.0	5.6	0.2	0.1	1.2	0.2	*	*	0.0	6.3	0.0	7.8	0.0	5.2	18.9	12.4	31.2
1964	3.5	0.0	3.5	0.2	0.1	1.1	0.2	*	*	0.0	9.7	0.0	11.1	0.0	5.8	20.6	13.7	34.3
1965	**3.3**	**0.0**	**3.3**	**0.3**	**0.1**	**1.8**	**0.2**	*	**0.1**	**0.0**	**16.9**	**0.0**	**19.2**	**0.0**	**6.3**	**29.0**	**15.0**	**44.0**
1966	8.4	0.0	8.4	0.3	0.1	2.0	0.2	*	0.1	0.0	17.6	0.0	20.0	0.0	6.7	35.4	16.2	51.6
1967	6.6	0.0	6.6	0.3	0.1	1.9	0.2	*	0.1	0.0	20.9	0.0	23.1	0.0	7.1	37.2	16.9	54.1
1968	3.5	0.0	3.5	0.4	0.1	1.1	0.1	*	0.1	0.0	19.3	0.0	20.7	0.0	7.6	32.3	18.2	50.5
1969	10.2	0.0	10.2	0.4	0.1	1.6	0.1	*	*	0.0	19.7	0.0	21.5	0.0	8.3	40.4	19.7	60.1
1970	**10.0**	**0.0**	**10.0**	**0.4**	**0.1**	**2.2**	**0.1**	*	*	**0.0**	**20.7**	**0.0**	**23.1**	**0.0**	**9.0**	**42.6**	**21.7**	**64.3**
1971	7.3	0.0	7.3	0.5	0.1	2.0	0.1	*	0.0	0.0	19.5	0.0	21.8	0.0	9.3	38.9	22.6	61.5
1972	7.3	0.0	7.3	0.6	0.1	1.3	0.1	*	0.0	0.0	14.3	0.0	15.8	0.0	9.4	33.2	22.7	55.9
1973	6.6	0.0	6.6	0.6	0.2	1.0	0.1	*	*	0.0	12.9	0.0	14.2	0.0	9.9	31.3	23.8	55.1
1974	4.0	0.0	4.0	0.6	0.2	0.9	0.3	*	*	0.0	7.6	0.0	9.0	0.0	8.9	22.5	21.8	44.3
1975	**7.0**	**0.0**	**7.0**	**0.4**	**0.1**	**0.9**	**0.6**	*	**0.1**	**0.0**	**4.3**	**0.0**	**6.0**	**0.0**	**8.6**	**22.0**	**20.8**	**42.8**
1976	5.2	0.0	5.2	0.4	0.1	0.8	0.6	*	0.1	0.0	2.9	0.0	4.5	0.0	9.5	19.7	22.9	42.7
1977	4.0	0.0	4.0	0.4	0.1	0.9	1.5	*	*	0.0	3.2	0.0	5.8	0.0	10.4	20.6	25.2	45.7
1978	2.0	0.0	2.0	0.4	0.2	0.8	1.4	*	*	0.0	2.5	0.0	5.0	0.0	10.5	17.9	25.8	43.7
1979	2.9	0.0	2.9	0.6	0.1	1.7	1.7	*	*	0.0	0.3	0.0	3.9	0.0	10.9	18.3	26.3	44.6
1980	**0.6**	**0.0**	**0.6**	**0.4**	**0.1**	**1.1**	**1.5**	*	*	**0.0**	**0.3**	**0.0**	**3.1**	**0.0**	**11.5**	**15.5**	**27.8**	**43.4**
1981	0.1	0.0	0.1	0.3	0.1	2.3	0.4	*	*	0.0	0.1	0.0	3.0	0.0	11.6	15.0	27.6	42.6
1982	0.0	0.0	0.0	0.0	0.1	1.1	*	*	*	0.0	0.3	0.0	1.5	0.0	11.6	13.1	27.9	41.0
1983	0.0	0.0	0.0	0.0	0.2	0.1	*	*	*	0.0	*	0.0	0.4	0.0	12.2	12.6	29.2	41.8
1984	0.0	0.0	0.0	0.0	0.1	0.2	*	*	*	0.0	*	0.0	0.4	0.0	8.4	8.8	19.5	28.2
1985	**0.0**	**0.0**	**0.0**	**0.0**	**0.2**	**0.2**	*	*	*	**0.3**	*	**0.0**	**0.8**	**0.0**	**8.6**	**9.4**	**20.3**	**29.7**
1986	0.0	0.0	0.0	0.0	0.2	0.5	*	*	*	0.3	0.0	0.0	1.1	0.0	8.9	9.9	20.4	30.3
1987	0.0	0.0	0.0	0.0	0.2	0.1	*	*	*	0.4	0.0	0.0	0.8	0.0	9.2	10.0	21.1	31.1
1988	0.0	0.0	0.0	0.0	0.2	*	*	*	*	0.3	0.0	0.0	0.6	0.0	9.6	10.2	21.6	31.8
1989	0.0	0.0	0.0	0.0	0.2	*	0.0	*	*	0.4	*	0.0	0.6	0.0	10.0	10.6	22.4	33.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 67. Transportation Energy Consumption Estimates, 1960–1989, District of Columbia

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	8	*	0	305	0	*	112	4,872	28	5,317	33	82		
1961	2	*	0	443	0	*	109	4,896	33	5,480	34	83		
1962	1	0	0	472	0	*	91	4,950	29	5,542	0	0		
1963	1	0	0	467	0	*	91	4,987	18	5,563	0	0		
1964	1	0	0	541	*	*	95	5,185	18	5,839	0	0		
1965	*	0	0	874	*	*	59	5,391	6	6,331	0	0		
1966	1	0	0	770	*	*	62	5,500	0	6,332	0	0		
1967	1	*	0	592	1	*	67	5,432	5	6,097	0	0		
1968	*	*	0	565	*	*	73	5,537	9	6,185	0	0		
1969	1	*	0	486	10	*	52	5,583	16	6,148	0	0		
1970	1	*	0	492	*	*	53	5,623	13	6,182	0	0		
1971	*	*	0	598	1	*	54	5,596	5	6,255	0	0		
1972	*	*	0	535	3	*	58	5,551	146	6,293	0	0		
1973	*	*	0	708	1	1	52	5,898	509	7,170	0	0		
1974	*	*	0	845	*	1	50	5,621	789	7,306	0	0		
1975	*	*	0	820	0	1	46	5,670	350	6,887	0	0		
1976	*	*	0	1,070	0	1	51	5,423	462	7,007	5	12		
1977	*	*	0	1,224	0	1	54	5,140	462	6,881	22	52		
1978	0	*	0	880	*	1	58	5,052	417	6,408	39	96		
1979	0	*	0	870	3	*	60	4,475	49	5,458	91	219		
1980	0	0	0	587	329	*	54	3,841	59	4,870	102	248		
1981	0	0	0	450	566	1	52	3,934	180	5,182	123	292		
1982	0	*	0	817	336	1	47	3,962	1,321	6,484	117	281		
1983	0	*	0	621	108	1	49	3,935	353	5,068	94	225		
1984	0	*	0	656	39	1	53	4,058	371	5,177	92	214		
1985	0	*	0	882	7	1	49	3,715	290	4,943	119	279		
1986	0	*	0	862	501	*	48	3,764	145	5,320	119	273		
1987	0	*	0	783	*	*	54	4,135	0	4,972	112	256		
1988	0	*	0	858	5	*	52	4,280	12	5,208	120	271		
1989	0	*	0	938	0	1	54	4,102	49	5,142	120	269		
							Trillion Btu							
1960	0.2	*	0.0	1.8	0.0	*	0.7	25.6	0.2	28.2	0.1	28.6	0.3	28.8
1961	0.1	*	0.0	2.6	0.0	*	0.7	25.7	0.2	29.2	0.1	29.3	0.3	29.6
1962	*	0.0	0.0	2.8	0.0	*	0.5	26.0	0.2	29.5	0.0	29.5	0.0	29.5
1963	*	0.0	0.0	2.7	0.0	*	0.5	26.2	0.1	29.6	0.0	29.6	0.0	29.6
1964	*	0.0	0.0	3.1	*	*	0.6	27.2	0.1	31.1	0.0	31.1	0.0	31.1
1965	*	0.0	0.0	5.1	*	*	0.4	28.3	*	33.8	0.0	33.8	0.0	33.8
1966	*	0.0	0.0	4.5	*	*	0.4	28.9	0.0	33.8	0.0	33.8	0.0	33.8
1967	*	*	0.0	3.4	*	*	0.4	28.5	*	32.4	0.0	32.5	0.0	32.5
1968	*	*	0.0	3.3	*	*	0.4	29.1	0.1	32.9	0.0	32.9	0.0	32.9
1969	*	*	0.0	2.8	0.1	*	0.3	29.3	0.1	32.6	0.0	32.7	0.0	32.7
1970	*	*	0.0	2.9	*	*	0.3	29.5	0.1	32.8	0.0	32.8	0.0	32.8
1971	*	*	0.0	3.5	*	*	0.3	29.4	*	33.2	0.0	33.3	0.0	33.3
1972	*	*	0.0	3.1	*	*	0.4	29.2	0.9	33.6	0.0	33.6	0.0	33.6
1973	*	*	0.0	4.1	*	*	0.3	31.0	3.2	38.6	0.0	38.7	0.0	38.7
1974	*	*	0.0	4.9	*	*	0.3	29.5	5.0	39.7	0.0	39.7	0.0	39.7
1975	*	*	0.0	4.8	0.0	*	0.3	29.8	2.2	37.0	0.0	37.1	0.0	37.1
1976	*	*	0.0	6.2	0.0	*	0.3	28.5	2.9	37.9	*	38.0	*	38.0
1977	*	*	0.0	7.1	0.0	*	0.3	27.0	2.9	37.4	0.1	37.5	0.2	37.6
1978	0.0	*	0.0	5.1	*	*	0.4	26.5	2.6	34.6	0.1	34.8	0.3	35.1
1979	0.0	*	0.0	5.1	*	*	0.4	23.5	0.3	29.3	0.3	29.6	0.7	30.3
1980	0.0	0.0	0.0	3.4	1.9	*	0.3	20.2	0.4	26.2	0.3	26.5	0.8	27.4
1981	0.0	0.0	0.0	2.6	3.2	*	0.3	20.7	1.1	27.9	0.4	28.4	1.0	29.4
1982	0.0	0.4	0.0	4.8	1.9	*	0.3	20.8	8.3	36.1	0.4	36.8	1.0	37.8
1983	0.0	0.4	0.0	3.6	0.6	*	0.3	20.7	2.2	27.4	0.3	28.1	0.8	28.9
1984	0.0	0.4	0.0	3.8	0.2	*	0.3	21.3	2.3	28.0	0.3	28.7	0.7	29.5
1985	0.0	0.4	0.0	5.1	*	*	0.3	19.5	1.8	26.8	0.4	27.6	1.0	28.6
1986	0.0	0.4	0.0	5.0	2.8	*	0.3	19.8	0.9	28.8	0.4	29.6	0.9	30.5
1987	0.0	0.3	0.0	4.6	*	*	0.3	21.7	0.0	26.6	0.4	27.3	0.9	28.1
1988	0.0	0.2	0.0	5.0	*	*	0.3	22.5	0.1	27.9	0.4	28.6	0.9	29.5
1989	0.0	0.3	0.0	5.5	0.0	*	0.3	21.5	0.3	27.6	0.4	28.3	0.9	29.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 68. Estimates of Energy Input at Electric Utilities, 1960–1989, District of Columbia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydroelectric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**446**	**0**	**446**	**0**	**9**	**4**	**0**	**12**	**0**	**3**	**0**	**0**	
1961	391	0	391	0	7	3	0	9	0	5	0	0	
1962	343	0	343	0	7	3	0	10	0	6	0	0	
1963	347	0	347	0	7	3	0	10	0	4	0	0	
1964	436	0	436	0	12	5	0	16	0	5	0	0	
1965	**293**	**0**	**293**	**0**	**10**	**4**	**0**	**14**	**0**	**3**	**0**	**0**	
1966	494	0	494	0	17	7	0	24	0	2	0	0	
1967	527	0	527	0	23	10	0	33	0	2	0	0	
1968	698	0	698	0	1,014	418	0	1,432	0	1	0	0	
1969	777	0	777	0	2,291	945	0	3,236	0	*	0	0	
1970	**673**	**0**	**673**	**0**	**2,755**	**1,135**	**0**	**3,889**	**0**	**1**	**0**	**0**	
1971	286	0	286	0	3,045	614	0	3,659	0	1	0	0	
1972	176	0	176	0	4,666	272	0	4,938	0	1	0	0	
1973	260	0	260	0	5,347	243	0	5,591	0	1	0	0	
1974	299	0	299	0	3,557	303	0	3,859	0	1	0	0	
1975	**111**	**0**	**111**	**0**	**2,088**	**90**	**0**	**2,178**	**0**	**1**	**0**	**0**	
1976	*	0	*	0	2,625	65	0	2,690	0	1	0	0	
1977	0	0	0	0	3,630	125	0	3,755	0	0	0	0	
1978	0	0	0	0	3,635	235	0	3,869	0	0	0	0	
1979	0	0	0	0	2,236	93	0	2,329	0	0	0	0	
1980	**0**	**0**	**0**	**0**	**1,462**	**109**	**0**	**1,572**	**0**	**0**	**0**	**0**	
1981	0	0	0	0	797	66	0	863	0	0	0	0	
1982	0	0	0	0	215	37	0	252	0	0	0	0	
1983	0	0	0	0	464	110	0	574	0	0	0	0	
1984	0	0	0	0	607	130	0	737	0	0	0	0	
1985	**0**	**0**	**0**	**0**	**250**	**66**	**0**	**316**	**0**	**0**	**0**	**0**	
1986	0	0	0	0	405	69	0	474	0	0	0	0	
1987	0	0	0	0	533	84	0	616	0	0	0	0	
1988	0	0	0	0	935	165	0	1,100	0	0	0	0	
1989	0	0	0	0	1,276	214	0	1,490	0	0	0	0	
					Trillion Btu								
1960	**12.2**	**0.0**	**12.2**	**0.0**	**0.1**	*****	**0.0**	**0.1**	**0.0**	*****	**0.0**	**0.0**	**12.4**
1961	10.7	0.0	10.7	0.0	*	*	0.0	0.1	0.0	0.1	0.0	0.0	10.8
1962	9.3	0.0	9.3	0.0	*	*	0.0	0.1	0.0	0.1	0.0	0.0	9.5
1963	9.4	0.0	9.4	0.0	*	*	0.0	0.1	0.0	*	0.0	0.0	9.5
1964	11.7	0.0	11.7	0.0	0.1	*	0.0	0.1	0.0	0.1	0.0	0.0	11.8
1965	**7.9**	**0.0**	**7.9**	**0.0**	**0.1**	*****	**0.0**	**0.1**	**0.0**	*****	**0.0**	**0.0**	**8.0**
1966	13.0	0.0	13.0	0.0	0.1	*	0.0	0.1	0.0	*	0.0	0.0	13.2
1967	13.9	0.0	13.9	0.0	0.1	0.1	0.0	0.2	0.0	*	0.0	0.0	14.1
1968	18.3	0.0	18.3	0.0	6.4	2.4	0.0	8.8	0.0	*	0.0	0.0	27.2
1969	20.4	0.0	20.4	0.0	14.4	5.5	0.0	19.9	0.0	*	0.0	0.0	40.3
1970	**17.4**	**0.0**	**17.4**	**0.0**	**17.3**	**6.6**	**0.0**	**23.9**	**0.0**	*****	**0.0**	**0.0**	**41.4**
1971	7.3	0.0	7.3	0.0	19.1	3.6	0.0	22.7	0.0	*	0.0	0.0	30.1
1972	4.6	0.0	4.6	0.0	29.3	1.6	0.0	30.9	0.0	*	0.0	0.0	35.6
1973	6.8	0.0	6.8	0.0	33.6	1.4	0.0	35.0	0.0	*	0.0	0.0	41.9
1974	7.5	0.0	7.5	0.0	22.4	1.8	0.0	24.1	0.0	*	0.0	0.0	31.6
1975	**2.8**	**0.0**	**2.8**	**0.0**	**13.1**	**0.5**	**0.0**	**13.6**	**0.0**	*****	**0.0**	**0.0**	**16.5**
1976	*	0.0	*	0.0	16.5	0.4	0.0	16.9	0.0	*	0.0	0.0	16.9
1977	0.0	0.0	0.0	0.0	22.8	0.7	0.0	23.6	0.0	0.0	0.0	0.0	23.6
1978	0.0	0.0	0.0	0.0	22.9	1.4	0.0	24.2	0.0	0.0	0.0	0.0	24.2
1979	0.0	0.0	0.0	0.0	14.1	0.5	0.0	14.6	0.0	0.0	0.0	0.0	14.6
1980	**0.0**	**0.0**	**0.0**	**0.0**	**9.2**	**0.6**	**0.0**	**9.8**	**0.0**	**0.0**	**0.0**	**0.0**	**9.8**
1981	0.0	0.0	0.0	0.0	5.0	0.4	0.0	5.4	0.0	0.0	0.0	0.0	5.4
1982	0.0	0.0	0.0	0.0	1.4	0.2	0.0	1.6	0.0	0.0	0.0	0.0	1.6
1983	0.0	0.0	0.0	0.0	2.9	0.6	0.0	3.6	0.0	0.0	0.0	0.0	3.6
1984	0.0	0.0	0.0	0.0	3.8	0.8	0.0	4.6	0.0	0.0	0.0	0.0	4.6
1985	**0.0**	**0.0**	**0.0**	**0.0**	**1.6**	**0.4**	**0.0**	**2.0**	**0.0**	**0.0**	**0.0**	**0.0**	**2.0**
1986	0.0	0.0	0.0	0.0	2.5	0.4	0.0	2.9	0.0	0.0	0.0	0.0	2.9
1987	0.0	0.0	0.0	0.0	3.4	0.5	0.0	3.8	0.0	0.0	0.0	0.0	3.8
1988	0.0	0.0	0.0	0.0	5.9	1.0	0.0	6.8	0.0	0.0	0.0	0.0	6.8
1989	0.0	0.0	0.0	0.0	8.0	1.2	0.0	9.3	0.0	0.0	0.0	0.0	9.3

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 69. Energy Consumption Estimates by Source, 1960–1989, Florida

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**1,104**	**138**	**3,304**	**4,517**	**8,621**	**9,482**	**3,962**	**4,936**	**911**	**43,148**	**30,199**	**319**	**109,398**	**0**	**278**	**0**	**0**	**-2,134**	
1961	1,495	144	3,034	3,926	9,089	10,651	3,771	4,949	887	43,997	32,487	352	113,141	0	263	0	0	-1,387	
1962	1,638	157	3,144	5,459	10,431	12,992	4,096	5,405	937	46,755	37,774	394	127,387	0	237	0	0	-1,268	
1963	1,782	175	3,483	5,580	10,716	14,361	4,749	6,017	937	48,600	36,585	741	131,770	0	265	0	0	-572	
1964	1,947	182	3,669	4,716	11,062	15,696	4,430	6,332	984	50,376	39,382	1,322	137,969	0	290	0	0	1,154	
1965	**2,323**	**185**	**3,506**	**4,273**	**12,279**	**17,525**	**4,449**	**5,663**	**1,014**	**53,136**	**43,344**	**1,316**	**146,504**	**0**	**298**	**0**	**0**	**606**	
1966	3,012	212	4,017	3,836	13,957	17,629	4,858	5,623	1,054	56,647	41,707	1,108	150,436	0	290	0	0	985	
1967	4,174	226	4,163	3,600	13,531	21,018	3,297	5,695	913	59,507	38,852	1,126	151,702	0	286	0	0	438	
1968	4,481	274	4,063	3,420	14,939	24,293	3,447	6,358	1,003	65,163	40,529	1,235	164,450	0	242	0	0	-1,879	
1969	4,532	312	4,116	2,608	14,831	25,472	3,490	7,322	1,069	70,459	44,263	1,273	174,902	0	274	0	0	-916	
1970	**5,131**	**337**	**4,076**	**3,138**	**15,639**	**23,840**	**3,657**	**7,828**	**1,089**	**76,254**	**53,642**	**1,317**	**190,481**	**0**	**292**	**0**	**0**	**-1,715**	
1971	5,124	337	4,918	2,597	16,457	26,289	3,517	7,535	1,203	81,178	62,546	1,350	207,591	0	253	0	0	-3,074	
1972	5,464	299	5,114	2,093	19,401	28,689	2,654	7,871	1,288	90,105	76,305	1,514	235,035	66	238	0	0	-3,405	
1973	6,641	311	5,875	2,031	22,815	27,897	2,103	8,390	1,486	99,440	81,667	1,630	253,335	4,681	234	0	0	-4,776	
1974	6,399	290	5,874	2,117	22,482	23,657	1,134	7,400	1,423	98,142	74,855	1,711	238,796	7,877	251	0	0	-672	
1975	**5,779**	**280**	**3,659**	**1,921**	**23,387**	**24,224**	**879**	**7,478**	**1,189**	**100,592**	**79,315**	**1,577**	**244,222**	**8,370**	**234**	**0**	**0**	**-850**	
1976	6,089	289	3,444	1,685	24,507	25,102	1,579	8,109	1,321	103,961	89,695	1,813	261,217	8,648	259	0	0	-1,790	
1977	6,915	302	4,393	1,475	29,091	27,301	1,258	8,881	1,408	107,781	83,086	2,134	266,807	17,557	243	0	0	-822	
1978	7,444	318	4,995	1,510	30,489	28,011	1,202	8,182	1,512	113,292	88,698	2,395	280,286	15,810	228	0	0	1,924	
1979	8,528	344	4,859	1,271	29,113	31,217	1,191	8,678	1,582	111,222	96,290	3,197	288,620	15,391	241	0	0	1,403	
1980	**9,543**	**317**	**4,487**	**1,339**	**29,431**	**35,911**	**952**	**10,718**	**1,409**	**109,279**	**96,756**	**2,987**	**293,268**	**16,737**	**215**	**0**	**0**	**12,500**	
1981	9,969	338	5,014	1,138	29,911	35,598	748	9,924	1,351	111,902	90,409	3,961	289,958	14,448	180	0	0	9,975	
1982	9,990	325	5,007	881	22,927	33,730	1,026	8,886	1,232	114,113	64,481	3,103	255,387	19,319	261	0	*	29,004	
1983	13,080	306	5,724	882	27,963	30,140	997	8,936	1,290	118,342	58,722	2,763	255,759	14,805	220	0	*	46,494	
1984	15,478	303	6,952	704	29,235	24,240	503	8,843	1,376	121,475	40,051	3,254	236,631	24,078	213	0	*	51,746	
1985	**19,305**	**290**	**6,666**	**841**	**30,444**	**23,101**	**1,147**	**10,007**	**1,282**	**125,316**	**34,784**	**3,097**	**236,685**	**23,461**	**244**	**0**	**0**	**73,197**	
1986	18,699	289	8,240	1,023	31,822	25,022	730	10,756	1,254	131,094	52,969	3,459	266,370	22,036	212	0	0	53,680	
1987	23,644	300	7,583	778	32,912	26,502	652	8,456	1,418	137,457	41,249	3,385	260,392	18,773	217	0	0	63,545	
1988	24,595	293	7,931	882	34,425	31,960	533	8,220	1,367	141,915	49,879	3,332	280,444	26,198	209	0	0	49,463	
1989	25,447	324	6,481	976	35,349	33,566	416	8,375	1,402	142,152	48,759	3,265	280,741	20,916	234	0	0	72,170	
									Trillion Btu										
1960	**27.2**	**142.9**	**21.9**	**22.8**	**50.2**	**51.5**	**22.5**	**19.8**	**5.5**	**226.7**	**189.9**	**1.9**	**612.6**	**0.0**	**3.0**	**0.0**	**0.0**	**-7.3**	**778.4**
1961	36.3	148.9	20.1	19.8	52.9	58.1	21.4	19.9	5.4	231.1	204.2	2.0	635.0	0.0	2.8	0.0	0.0	-4.7	818.2
1962	39.6	162.8	20.9	27.6	60.8	71.2	23.2	21.7	5.7	245.6	237.5	2.3	716.3	0.0	2.5	0.0	0.0	-4.3	917.0
1963	43.3	179.4	23.1	28.2	62.4	78.9	26.9	24.1	5.7	255.3	230.0	4.2	738.8	0.0	2.8	0.0	0.0	-2.0	962.3
1964	46.7	189.6	24.3	23.8	64.4	86.4	25.1	25.4	6.0	264.6	247.6	7.2	774.9	0.0	3.0	0.0	0.0	3.9	1,018.2
1965	**55.2**	**191.7**	**23.3**	**21.6**	**71.5**	**97.2**	**25.2**	**22.7**	**6.2**	**279.1**	**272.5**	**7.2**	**826.5**	**0.0**	**3.1**	**0.0**	**0.0**	**2.1**	**1,078.5**
1966	70.1	220.6	26.7	19.4	81.3	97.7	27.5	22.6	6.4	297.6	262.2	6.0	847.3	0.0	3.0	0.0	0.0	3.4	1,144.4
1967	96.2	234.3	27.6	18.2	78.8	116.7	18.7	21.9	5.5	312.6	244.3	6.1	850.4	0.0	3.0	0.0	0.0	1.5	1,185.4
1968	103.2	286.7	27.0	17.3	87.0	134.9	19.5	24.3	6.1	342.3	254.8	6.7	919.9	0.0	2.5	0.0	0.0	-6.4	1,305.8
1969	104.1	326.9	27.3	13.2	86.4	142.0	19.8	27.9	6.5	370.1	278.3	6.9	978.3	0.0	2.9	0.0	0.0	-3.1	1,409.0
1970	**116.7**	**350.6**	**27.0**	**15.8**	**91.1**	**133.2**	**20.7**	**29.6**	**6.6**	**400.6**	**337.2**	**7.2**	**1,069.0**	**0.0**	**3.1**	**0.0**	**0.0**	**-5.9**	**1,533.6**
1971	117.2	350.5	32.6	13.1	95.9	147.0	19.9	28.4	7.3	426.4	393.2	7.3	1,171.2	0.0	2.7	0.0	0.0	-10.5	1,631.1
1972	123.6	311.2	33.9	10.6	113.0	160.7	15.0	29.6	7.8	473.3	479.7	8.3	1,332.0	0.7	2.5	0.0	0.0	-11.6	1,758.4
1973	152.6	324.9	39.0	10.3	132.9	156.4	11.9	31.4	9.0	522.4	513.4	8.9	1,435.7	51.0	2.4	0.0	0.0	-16.3	1,950.3
1974	146.6	302.0	39.0	10.7	131.0	132.3	6.4	27.6	8.6	515.5	470.6	9.4	1,351.2	87.9	2.6	0.0	0.0	-2.3	1,888.0
1975	**133.5**	**292.1**	**24.3**	**9.7**	**136.2**	**135.7**	**5.0**	**27.8**	**7.2**	**528.4**	**498.7**	**8.7**	**1,381.6**	**92.2**	**2.4**	**0.0**	**0.0**	**-2.9**	**1,898.9**
1976	141.8	300.9	22.9	8.5	142.8	140.7	9.0	30.1	8.0	546.1	563.9	10.0	1,481.9	95.5	2.7	0.0	0.0	-6.1	2,016.8
1977	159.9	315.9	29.2	7.4	169.5	153.1	7.1	32.7	8.5	566.2	522.4	11.9	1,507.9	189.1	2.5	0.0	0.0	-2.8	2,172.6
1978	175.5	333.3	33.1	7.6	177.6	157.2	6.8	30.0	9.2	595.1	557.6	13.4	1,587.7	173.0	2.4	0.0	0.0	6.6	2,278.5
1979	202.3	357.0	32.2	6.4	169.6	175.1	6.8	31.9	9.6	584.2	605.4	17.8	1,639.1	167.4	2.5	0.0	0.0	4.8	2,373.1
1980	**225.5**	**329.6**	**29.8**	**6.8**	**171.4**	**201.6**	**5.4**	**39.4**	**8.5**	**574.0**	**608.3**	**16.4**	**1,661.6**	**182.6**	**2.2**	**0.0**	**0.0**	**42.6**	**2,444.1**
1981	236.5	357.5	33.3	5.7	174.2	200.0	4.2	36.2	8.2	587.8	568.4	21.6	1,639.6	159.4	1.9	0.0	0.0	34.0	2,428.8
1982	240.2	339.1	33.2	4.4	133.6	189.3	5.8	32.1	7.5	599.4	405.4	16.8	1,427.6	213.9	2.7	0.0	*	99.0	2,322.5
1983	318.9	321.0	38.0	4.5	162.9	169.2	5.7	32.3	7.8	621.7	369.2	15.2	1,426.3	161.4	2.3	0.0	*	158.6	2,388.7
1984	378.7	318.2	46.1	3.6	170.3	135.6	2.9	31.8	8.3	638.1	251.8	17.4	1,306.0	261.1	2.2	0.0	*	176.6	2,442.6
1985	**472.4**	**305.1**	**44.2**	**4.2**	**177.3**	**129.2**	**6.5**	**36.1**	**7.8**	**658.3**	**218.7**	**16.8**	**1,299.0**	**253.7**	**2.5**	**0.0**	**0.0**	**249.7**	**2,582.4**
1986	459.4	298.9	54.7	5.2	185.4	140.1	4.1	39.2	7.6	688.6	333.0	18.9	1,476.7	238.0	2.2	0.0	0.0	183.2	2,658.4
1987	586.6	313.6	50.3	3.9	191.7	148.4	3.7	30.9	8.6	722.1	259.3	18.2	1,437.2	202.3	2.2	0.0	0.0	216.8	2,758.7
1988	611.5	305.8	52.6	4.5	200.5	179.3	3.0	30.0	8.3	745.5	313.6	18.0	1,555.3	281.4	2.1	0.0	0.0	168.8	2,924.9
1989	630.2	337.2	43.0	4.9	205.9	188.5	2.4	30.8	8.5	746.7	306.6	17.6	1,554.9	224.3	2.4	0.0	0.0	246.2	2,995.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 70. Residential Energy Consumption Estimates, 1960–1989, Florida

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**0**	**0**	**0**	**6**	**541**	**3,150**	**3,458**	**7,149**	**7,258**	**18,052**
1961	0	0	0	8	611	3,108	3,453	7,172	7,984	19,459
1962	0	0	0	7	698	3,290	3,749	7,736	9,141	21,975
1963	0	0	0	7	751	3,954	4,192	8,896	10,129	24,222
1964	0	0	0	11	694	3,193	4,518	8,405	11,340	27,007
1965	**0**	**0**	**0**	**8**	**976**	**3,001**	**4,095**	**8,073**	**12,283**	**29,327**
1966	0	0	0	8	1,148	3,112	3,944	8,204	14,103	33,841
1967	0	0	0	9	1,148	1,884	4,014	7,046	15,382	36,748
1968	0	0	0	11	1,030	2,114	4,562	7,706	18,257	43,559
1969	0	0	0	12	876	2,196	5,345	8,416	21,489	51,331
1970	**0**	**0**	**0**	**15**	**1,010**	**2,414**	**5,698**	**9,121**	**24,610**	**59,638**
1971	0	0	0	13	1,013	2,370	5,503	8,886	27,225	65,821
1972	0	0	0	13	941	1,722	5,654	8,316	30,444	73,279
1973	0	0	0	16	1,129	1,446	6,022	8,596	35,238	84,361
1974	0	0	0	15	1,002	909	5,192	7,102	34,345	83,742
1975	**0**	**0**	**0**	**15**	**1,097**	**724**	**5,157**	**6,977**	**34,756**	**83,836**
1976	0	0	0	17	1,200	1,195	5,566	7,961	36,022	86,770
1977	0	0	0	18	1,254	1,047	6,008	8,309	38,955	94,064
1978	0	0	0	22	1,273	978	5,560	7,811	41,847	102,379
1979	0	0	0	18	1,069	974	4,411	6,455	42,218	101,886
1980	**4**	**0**	**4**	**15**	**1,215**	**774**	**4,434**	**6,422**	**44,746**	**108,807**
1981	*	0	*	16	983	574	4,721	6,278	46,139	109,961
1982	1	0	1	14	724	227	3,852	4,802	45,126	108,387
1983	5	0	5	15	494	309	4,579	5,383	47,260	113,272
1984	24	0	24	15	507	246	5,461	6,214	50,315	116,839
1985	**38**	**0**	**38**	**14**	**568**	**391**	**6,174**	**7,133**	**54,118**	**126,908**
1986	33	0	33	14	463	282	6,656	7,401	57,672	132,229
1987	17	3	20	15	720	361	5,348	6,429	60,406	137,666
1988	1	0	1	15	522	302	5,056	5,881	63,972	144,468
1989	*	0	*	13	363	186	5,135	5,684	68,184	152,941

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu											
1960	**0.0**	**0.0**	**0.0**	**6.6**	**3.2**	**17.9**	**13.9**	**34.9**	**24.8**	**66.2**	**61.6**	**127.8**
1961	0.0	0.0	0.0	8.7	3.6	17.6	13.9	35.0	27.2	71.0	66.4	137.4
1962	0.0	0.0	0.0	6.8	4.1	18.7	15.0	37.8	31.2	75.8	75.0	150.7
1963	0.0	0.0	0.0	7.5	4.4	22.4	16.8	43.6	34.6	85.6	82.6	168.3
1964	0.0	0.0	0.0	11.8	4.0	18.1	18.1	40.3	38.7	90.8	92.1	182.9
1965	**0.0**	**0.0**	**0.0**	**8.4**	**5.7**	**17.0**	**16.4**	**39.1**	**41.9**	**89.5**	**100.1**	**189.5**
1966	0.0	0.0	0.0	8.7	6.7	17.6	15.8	40.2	48.1	97.0	115.5	212.5
1967	0.0	0.0	0.0	9.8	6.7	10.7	15.4	32.8	52.5	95.1	125.4	220.4
1968	0.0	0.0	0.0	11.9	6.0	12.0	17.4	35.4	62.3	109.6	148.6	258.2
1969	0.0	0.0	0.0	12.2	5.1	12.5	20.3	37.9	73.3	123.4	175.1	298.5
1970	**0.0**	**0.0**	**0.0**	**15.3**	**5.9**	**13.7**	**21.5**	**41.1**	**84.0**	**140.4**	**203.5**	**343.9**
1971	0.0	0.0	0.0	13.8	5.9	13.4	20.8	40.1	92.9	146.8	224.6	371.4
1972	0.0	0.0	0.0	13.7	5.5	9.8	21.3	36.5	103.9	154.1	250.0	404.1
1973	0.0	0.0	0.0	17.4	6.6	8.2	22.6	37.3	120.2	174.9	287.8	462.8
1974	0.0	0.0	0.0	15.8	5.8	5.2	19.4	30.4	117.2	163.3	285.7	449.0
1975	**0.0**	**0.0**	**0.0**	**16.4**	**6.4**	**4.1**	**19.2**	**29.6**	**118.6**	**164.6**	**286.0**	**450.7**
1976	0.0	0.0	0.0	17.9	7.0	6.8	20.7	34.4	122.9	175.2	296.1	471.3
1977	0.0	0.0	0.0	19.4	7.3	5.9	22.1	35.3	132.9	187.7	320.9	508.6
1978	0.0	0.0	0.0	23.1	7.4	5.5	20.4	33.4	142.8	199.3	349.3	548.6
1979	0.0	0.0	0.0	18.5	6.2	5.5	16.2	28.0	144.0	190.5	347.6	538.1
1980	**0.1**	**0.0**	**0.1**	**16.2**	**7.1**	**4.4**	**16.3**	**27.8**	**152.7**	**196.7**	**371.2**	**568.0**
1981	*	0.0	*	18.1	5.7	3.3	17.2	26.2	157.4	201.7	375.2	576.9
1982	*	0.0	*	14.7	4.2	1.3	13.9	19.4	154.0	188.2	369.8	558.0
1983	0.1	0.0	0.1	16.9	2.9	1.8	16.5	21.2	161.3	199.5	386.5	586.0
1984	0.6	0.0	0.6	16.4	3.0	1.4	19.7	24.0	171.7	212.6	398.7	611.3
1985	**1.0**	**0.0**	**1.0**	**15.0**	**3.3**	**2.2**	**22.2**	**27.8**	**184.7**	**228.4**	**433.0**	**661.4**
1986	0.8	0.0	0.8	14.9	2.7	1.6	24.2	28.5	196.8	241.0	451.2	692.2
1987	0.4	0.1	0.5	15.9	4.2	2.0	19.6	25.8	206.1	248.4	469.7	718.1
1988	*	0.0	*	16.1	3.0	1.7	18.5	23.2	218.3	257.6	492.9	750.5
1989	*	0.0	*	14.2	2.1	1.1	18.9	22.1	232.6	268.9	521.8	790.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 71. Commercial Energy Consumption Estimates, 1960–1989, Florida

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours	
1960	**0**	**0**	**0**	**7**	**1,097**	**175**	**610**	**685**	**2,126**	**4,693**	**5,586**	**13,894**
1961	0	0	0	7	1,239	172	609	856	2,131	5,008	6,087	14,835
1962	0	0	0	10	1,416	182	662	836	2,306	5,403	6,922	16,641
1963	0	0	0	13	1,523	219	740	664	2,066	5,212	7,529	18,005
1964	0	0	0	18	1,408	177	797	668	1,798	4,848	8,504	20,253
1965	**0**	**0**	**0**	**13**	**1,981**	**166**	**723**	**712**	**1,608**	**5,190**	**9,369**	**22,369**
1966	0	0	0	13	2,330	173	696	746	1,004	4,949	10,229	24,544
1967	0	0	0	23	2,330	104	708	1,113	988	5,244	11,374	27,172
1968	0	0	0	22	2,090	117	805	1,221	1,017	5,251	12,620	30,110
1969	0	0	0	25	1,778	122	943	1,288	1,017	5,148	14,535	34,719
1970	**0**	**0**	**0**	**27**	**2,049**	**134**	**1,005**	**1,382**	**1,467**	**6,038**	**16,244**	**39,364**
1971	0	0	0	25	2,056	131	971	1,468	1,414	6,041	18,195	43,989
1972	0	0	0	23	1,909	95	998	1,100	1,745	5,847	20,383	49,063
1973	0	0	0	24	2,291	80	1,063	974	1,923	6,331	22,613	54,137
1974	0	0	0	23	2,033	50	916	882	1,681	5,563	24,019	58,565
1975	**0**	**0**	**0**	**32**	**2,226**	**40**	**910**	**1,038**	**1,555**	**5,769**	**22,904**	**55,248**
1976	0	0	0	40	2,436	66	982	1,077	2,083	6,644	23,703	57,096
1977	0	0	0	41	2,546	58	1,060	1,141	2,553	7,358	24,742	59,744
1978	0	0	0	35	2,583	54	981	1,191	2,217	7,027	25,590	62,606
1979	0	0	0	37	2,170	54	778	1,305	2,567	6,874	26,384	63,673
1980	**7**	**0**	**7**	**30**	**1,926**	**28**	**782**	**1,340**	**1,476**	**5,552**	**27,422**	**66,681**
1981	1	0	1	34	2,572	64	833	915	817	5,201	30,934	73,724
1982	3	0	3	30	650	221	680	748	383	2,682	32,759	78,681
1983	10	0	10	29	2,165	647	808	1,283	1,001	5,904	34,189	81,910
1984	45	0	45	30	2,220	224	964	1,327	971	5,706	36,994	85,905
1985	**71**	**0**	**71**	**31**	**3,657**	**474**	**1,089**	**1,368**	**1,509**	**8,097**	**41,292**	**96,829**
1986	62	0	62	36	3,419	430	1,175	1,427	1,769	8,220	43,990	100,860
1987	31	2	33	37	3,860	267	944	1,367	1,422	7,859	46,579	106,155
1988	2	0	2	38	3,312	193	892	1,304	1,544	7,245	49,881	112,646
1989	*	0	*	35	2,778	174	906	1,219	868	5,946	53,217	119,371

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**53.1**	**47.4**	**100.5**
1961	56.3	50.6	107.0
1962	65.3	56.8	122.1
1963	69.0	61.4	130.5
1964	75.1	69.1	144.2
1965	**74.4**	**76.3**	**150.7**
1966	76.3	83.7	160.1
1967	91.1	92.7	183.8
1968	94.7	102.7	197.5
1969	103.3	118.5	221.8
1970	**116.4**	**134.3**	**250.7**
1971	121.6	150.1	271.7
1972	126.6	167.4	294.0
1973	138.0	184.7	322.8
1974	136.7	199.8	336.5
1975	**144.2**	**188.5**	**332.7**
1976	160.0	194.8	354.8
1977	169.5	203.8	373.4
1978	164.3	213.6	377.9
1979	167.4	217.3	384.7
1980	**156.6**	**227.5**	**384.1**
1981	171.2	251.5	422.7
1982	157.9	268.5	426.4
1983	181.2	279.5	460.7
1984	191.6	293.1	484.8
1985	**221.3**	**330.4**	**551.7**
1986	235.4	344.1	579.6
1987	244.4	362.2	606.6
1988	251.3	384.3	635.6
1989	252.1	407.3	659.4

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Trillion Btu											
1960	**0.0**	**0.0**	**0.0**	**7.2**	**6.4**	**1.0**	**2.4**	**3.6**	**13.4**	**26.8**	**19.1**	**47.4**
1961	0.0	0.0	0.0	7.0	7.2	1.0	2.4	4.5	13.4	28.5	20.8	50.6
1962	0.0	0.0	0.0	10.8	8.2	1.0	2.7	4.4	14.5	30.8	23.6	56.8
1963	0.0	0.0	0.0	13.8	8.9	1.2	3.0	3.5	13.0	29.6	25.7	61.4
1964	0.0	0.0	0.0	18.9	8.2	1.0	3.2	3.5	11.3	27.2	29.0	69.1
1965	**0.0**	**0.0**	**0.0**	**13.2**	**11.5**	**0.9**	**2.9**	**3.7**	**10.1**	**29.2**	**32.0**	**76.3**
1966	0.0	0.0	0.0	13.8	13.6	1.0	2.8	3.9	6.3	27.6	34.9	83.7
1967	0.0	0.0	0.0	23.4	13.6	0.6	2.7	5.8	6.2	28.9	38.8	92.7
1968	0.0	0.0	0.0	22.9	12.2	0.7	3.1	6.4	6.4	28.7	43.1	102.7
1969	0.0	0.0	0.0	25.9	10.4	0.7	3.6	6.8	6.4	27.8	49.6	118.5
1970	**0.0**	**0.0**	**0.0**	**28.0**	**11.9**	**0.8**	**3.8**	**7.3**	**9.2**	**33.0**	**55.4**	**134.3**
1971	0.0	0.0	0.0	26.5	12.0	0.7	3.7	7.7	8.9	33.0	62.1	150.1
1972	0.0	0.0	0.0	24.9	11.1	0.5	3.8	5.8	11.0	32.2	69.5	167.4
1973	0.0	0.0	0.0	25.9	13.3	0.5	4.0	5.1	12.1	35.0	77.2	184.7
1974	0.0	0.0	0.0	24.0	11.8	0.3	3.4	4.6	10.6	30.7	82.0	199.8
1975	**0.0**	**0.0**	**0.0**	**34.2**	**13.0**	**0.2**	**3.4**	**5.5**	**9.8**	**31.8**	**78.1**	**188.5**
1976	0.0	0.0	0.0	42.1	14.2	0.4	3.6	5.7	13.1	37.0	80.9	194.8
1977	0.0	0.0	0.0	44.0	14.8	0.3	3.9	6.0	16.1	41.1	84.4	203.8
1978	0.0	0.0	0.0	37.9	15.0	0.3	3.6	6.3	13.9	39.2	87.3	213.6
1979	0.0	0.0	0.0	38.6	12.6	0.3	2.9	6.9	16.1	38.8	90.0	217.3
1980	**0.2**	**0.0**	**0.2**	**32.3**	**11.2**	**0.2**	**2.9**	**7.0**	**9.3**	**30.6**	**93.6**	**156.6**	**227.5**
1981	*	0.0	*	37.3	15.0	0.4	3.0	4.8	5.1	28.3	105.5	171.2	251.5
1982	0.1	0.0	0.1	32.2	3.8	1.3	2.5	3.9	2.4	13.8	111.8	157.9	268.5
1983	0.2	0.0	0.2	32.1	12.6	3.7	2.9	6.7	6.3	32.2	116.7	181.2	279.5
1984	1.1	0.0	1.1	33.5	12.9	1.3	3.5	7.0	6.1	30.7	126.2	191.6	293.1
1985	**1.8**	**0.0**	**1.8**	**34.0**	**21.3**	**2.7**	**3.9**	**7.2**	**9.5**	**44.6**	**140.9**	**221.3**	**330.4**
1986	1.5	0.0	1.5	38.5	19.9	2.4	4.3	7.5	11.1	45.3	150.1	235.4	344.1
1987	0.8	0.1	0.8	41.0	22.5	1.5	3.5	7.2	8.9	43.6	158.9	244.4	362.2
1988	*	0.0	*	40.9	19.3	1.1	3.3	6.8	9.7	40.2	170.2	251.3	384.3
1989	*	0.0	*	38.1	16.2	1.0	3.3	6.4	5.5	32.4	181.6	252.1	407.3

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**53.1**	**100.5**
1961	56.3	107.0
1962	65.3	122.1
1963	69.0	130.5
1964	75.1	144.2
1965	**74.4**	**150.7**
1966	76.3	160.1
1967	91.1	183.8
1968	94.7	197.5
1969	103.3	221.8
1970	**116.4**	**250.7**
1971	121.6	271.7
1972	126.6	294.0
1973	138.0	322.8
1974	136.7	336.5
1975	**144.2**	**332.7**
1976	160.0	354.8
1977	169.5	373.4
1978	164.3	377.9
1979	167.4	384.7
1980	**156.6**	**384.1**
1981	171.2	422.7
1982	157.9	426.4
1983	181.2	460.7
1984	191.6	484.8
1985	**221.3**	**551.7**
1986	235.4	579.6
1987	244.4	606.6
1988	251.3	635.6
1989	252.1	659.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 72. Industrial Energy Consumption Estimates, 1960–1989, Florida

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**0**	**0**	**0**	**35**	**3,304**	**2,934**	**638**	**785**	**237**	**182**	**10,883**	**319**	**19,283**	**0**	**3,963**	**9,858**		
1961	0	0	0	43	3,034	3,150	491	782	231	208	11,326	352	19,573	0	4,307	10,498		
1962	0	0	0	50	3,144	3,662	624	856	298	198	12,009	394	21,185	0	4,809	11,562		
1963	0	0	0	56	3,483	3,786	575	932	298	223	11,051	741	21,089	0	5,279	12,624		
1964	0	0	0	58	3,669	3,528	1,060	874	313	223	10,911	1,322	21,900	0	5,659	13,478		
1965	**0**	**0**	**0**	**74**	**3,506**	**4,451**	**1,281**	**711**	**291**	**180**	**9,636**	**1,316**	**21,372**	**0**	**6,449**	**15,397**		
1966	0	0	0	90	4,017	4,966	1,574	799	302	218	6,645	1,108	19,628	0	7,500	17,995		
1967	0	0	0	82	4,163	4,678	1,308	784	306	110	5,041	1,126	17,515	0	8,213	19,621		
1968	0	0	0	88	4,063	4,593	1,216	803	336	108	5,320	1,235	17,675	0	8,839	21,090		
1969	0	0	0	91	4,116	4,546	1,173	869	412	143	5,542	1,273	18,074	0	8,828	21,086		
1970	**0**	**0**	**0**	**92**	**4,076**	**4,494**	**1,109**	**928**	**420**	**202**	**8,148**	**1,317**	**20,694**	**0**	**9,365**	**22,695**		
1971	0	0	0	98	4,918	4,590	1,016	851	522	121	7,942	1,350	21,310	0	9,844	23,800		
1972	0	0	0	88	5,114	4,689	837	1,008	559	112	8,637	1,514	22,469	0	10,622	25,568		
1973	0	0	0	99	5,875	5,681	577	1,105	756	103	9,430	1,630	25,158	0	11,640	27,866		
1974	0	0	0	94	5,874	4,950	175	1,103	724	98	8,142	1,711	22,779	0	10,651	25,971		
1975	**21**	**0**	**21**	**90**	**3,659**	**4,724**	**115**	**1,242**	**567**	**92**	**7,369**	**1,577**	**19,347**	**0**	**13,294**	**32,067**		
1976	21	0	21	105	3,444	4,770	318	1,383	630	92	10,139	1,813	22,588	0	14,252	34,330		
1977	135	0	135	105	4,393	5,517	153	1,622	604	88	12,134	2,134	26,644	0	15,660	37,815		
1978	260	0	260	102	4,995	5,687	170	1,428	648	81	10,560	2,395	25,964	0	17,273	42,258		
1979	374	0	374	119	4,859	5,053	163	3,339	678	69	12,317	3,197	29,675	0	18,019	43,486		
1980	**748**	**0**	**748**	**102**	**4,487**	**7,077**	**150**	**5,341**	**604**	**86**	**13,673**	**2,987**	**34,404**	**0**	**18,598**	**45,224**		
1981	565	1	566	112	5,014	4,804	110	4,056	579	0	7,907	3,961	26,431	0	16,105	38,382		
1982	441	0	441	95	5,007	2,946	578	3,998	528	294	4,442	3,103	20,898	0	14,654	35,197		
1983	630	0	630	83	5,724	4,536	41	3,125	553	284	4,371	2,763	21,396	0	15,019	35,983		
1984	827	2	829	79	6,952	4,652	33	2,017	590	415	4,239	3,254	22,151	0	16,215	37,654		
1985	**907**	**4**	**911**	**76**	**6,666**	**4,639**	**281**	**2,443**	**550**	**1,022**	**4,368**	**3,097**	**23,065**	**0**	**15,742**	**36,914**		
1986	779	3	782	65	8,240	5,115	18	2,584	538	1,024	2,419	3,459	23,397	0	14,976	34,336		
1987	992	1	993	68	7,583	5,054	24	1,998	608	996	1,252	3,385	20,899	0	15,443	35,196		
1988	1,063	2	1,065	83	7,931	4,193	37	2,100	586	942	2,931	3,332	22,052	0	16,356	36,936		
1989	1,150	4	1,154	84	6,481	3,701	56	2,156	601	1,032	1,260	3,265	18,552	0	17,040	38,223		
					Trillion Btu													
1960	**0.0**	**0.0**	**0.0**	**36.4**	**21.9**	**17.1**	**3.6**	**3.2**	**1.4**	**1.0**	**68.4**	**1.9**	**118.5**	**0.0**	**13.5**	**168.4**	**33.6**	**202.0**
1961	0.0	0.0	0.0	44.4	20.1	18.4	2.8	3.1	1.4	1.1	71.2	2.0	120.1	0.0	14.7	179.2	35.8	215.0
1962	0.0	0.0	0.0	51.4	20.9	21.3	3.5	3.4	1.8	1.0	75.5	2.3	129.8	0.0	16.4	197.6	39.5	237.1
1963	0.0	0.0	0.0	57.9	23.1	22.1	3.3	3.7	1.8	1.2	69.5	4.2	128.8	0.0	18.0	204.7	43.1	247.7
1964	0.0	0.0	0.0	60.0	24.3	20.6	6.0	3.5	1.9	1.2	68.6	7.2	133.3	0.0	19.3	212.6	46.0	258.6
1965	**0.0**	**0.0**	**0.0**	**77.2**	**23.3**	**25.9**	**7.3**	**2.9**	**1.8**	**0.9**	**60.6**	**7.2**	**129.8**	**0.0**	**22.0**	**229.0**	**52.5**	**281.5**
1966	0.0	0.0	0.0	93.2	26.7	28.9	8.9	3.2	1.8	1.1	41.8	6.0	118.5	0.0	25.6	237.3	61.4	298.7
1967	0.0	0.0	0.0	85.2	27.6	27.2	7.4	3.0	1.9	0.6	31.7	6.1	105.6	0.0	28.0	218.7	66.9	285.7
1968	0.0	0.0	0.0	92.7	27.0	26.8	6.9	3.1	2.0	0.6	33.4	6.7	106.5	0.0	30.2	229.3	72.0	301.3
1969	0.0	0.0	0.0	95.5	27.3	26.5	6.6	3.3	2.5	0.8	34.8	6.9	108.8	0.0	30.1	234.4	71.9	306.4
1970	**0.0**	**0.0**	**0.0**	**96.3**	**27.0**	**26.2**	**6.3**	**3.5**	**2.5**	**1.1**	**51.2**	**7.2**	**125.0**	**0.0**	**32.0**	**253.2**	**77.4**	**330.7**
1971	0.0	0.0	0.0	102.3	32.6	26.7	5.8	3.2	3.2	0.6	49.9	7.3	129.4	0.0	33.6	265.3	81.2	346.5
1972	0.0	0.0	0.0	94.2	33.9	27.3	4.7	3.8	3.4	0.6	54.3	8.3	136.3	0.0	36.2	266.8	87.2	354.1
1973	0.0	0.0	0.0	105.2	39.0	33.1	3.3	4.1	4.6	0.5	59.3	8.9	152.8	0.0	39.7	297.7	95.1	392.8
1974	0.0	0.0	0.0	100.5	39.0	28.8	1.0	4.1	4.4	0.5	51.2	9.4	138.4	0.0	36.3	275.3	88.6	363.9
1975	**0.5**	**0.0**	**0.5**	**96.8**	**24.3**	**27.5**	**0.7**	**4.6**	**3.4**	**0.5**	**46.3**	**8.7**	**116.0**	**0.0**	**45.4**	**258.5**	**109.4**	**367.9**
1976	0.5	0.0	0.5	111.6	22.9	27.8	1.8	5.1	3.8	0.5	63.7	10.0	135.7	0.0	48.6	296.3	117.1	413.5
1977	3.2	0.0	3.2	111.5	29.2	32.1	0.9	6.0	3.7	0.5	76.3	11.9	160.4	0.0	53.4	328.5	129.0	457.6
1978	6.1	0.0	6.1	109.3	33.1	33.1	1.0	5.2	3.9	0.4	66.4	13.4	156.6	0.0	58.9	330.9	144.2	475.1
1979	8.5	0.0	8.5	125.1	32.2	29.4	0.9	12.3	4.1	0.4	77.4	17.8	174.6	0.0	61.5	369.7	148.4	518.1
1980	**17.1**	**0.0**	**17.1**	**108.6**	**29.8**	**41.2**	**0.9**	**19.6**	**3.7**	**0.5**	**86.0**	**16.4**	**197.9**	**0.0**	**63.5**	**387.1**	**154.3**	**541.4**
1981	13.5	*	13.5	123.8	33.3	28.0	0.6	14.8	3.5	0.0	49.7	21.6	151.4	0.0	54.9	343.8	131.0	474.7
1982	10.8	0.0	10.8	102.6	33.2	17.2	3.3	14.5	3.2	1.5	27.9	16.8	117.6	0.0	50.0	281.1	120.1	401.1
1983	15.6	0.0	15.6	90.8	38.0	26.4	0.2	11.3	3.4	1.5	27.5	15.2	123.5	0.0	51.2	281.0	122.8	403.8
1984	20.3	0.1	20.4	86.8	46.1	27.1	0.2	7.3	3.6	2.2	26.7	17.4	130.5	0.0	55.3	293.1	128.5	421.5
1985	**22.5**	**0.1**	**22.6**	**84.2**	**44.2**	**27.0**	**1.6**	**8.8**	**3.3**	**5.4**	**27.5**	**16.8**	**134.6**	**0.0**	**53.7**	**295.1**	**126.0**	**421.1**
1986	19.4	0.1	19.5	70.3	54.7	29.8	0.1	9.4	3.3	5.4	15.2	18.9	136.7	0.0	51.1	277.6	117.2	394.8
1987	24.8	*	24.9	74.6	50.3	29.4	0.1	7.3	3.7	5.2	7.9	18.2	122.2	0.0	52.7	274.4	120.1	394.4
1988	26.7	0.1	26.8	89.4	52.6	24.4	0.2	7.7	3.6	4.9	18.4	18.0	129.9	0.0	55.8	301.9	126.0	427.9
1989	28.5	0.1	28.6	91.7	43.0	21.6	0.3	7.9	3.6	5.4	7.9	17.6	107.4	0.0	58.1	285.9	130.4	416.3

[1] Includes supplemental gaseous fuels.
[2] *Liquefied petroleum gases (LPG) series estimates since* 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 73. Transportation Energy Consumption Estimates, 1960–1989, Florida

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	0	1	4,517	3,858	9,482	82	674	42,281	3,770	64,663	0	0		
1961	0	1	3,926	3,880	10,651	104	656	42,934	4,332	66,483	0	0		
1962	0	2	5,459	4,404	12,992	138	639	45,721	5,782	75,135	0	0		
1963	0	2	5,580	4,381	14,361	154	639	47,714	4,090	76,919	0	0		
1964	0	2	4,716	5,112	15,696	142	671	49,485	4,032	79,853	0	0		
1965	0	3	4,273	4,482	17,525	134	723	52,244	4,751	84,132	0	0		
1966	0	3	3,836	5,086	17,629	185	752	55,684	4,049	87,220	0	0		
1967	0	4	3,600	4,948	21,018	189	607	58,284	2,728	91,374	0	0		
1968	0	4	3,420	6,769	24,293	188	667	63,833	2,028	101,198	0	0		
1969	0	5	2,608	7,127	25,472	165	657	69,027	2,175	107,231	0	0		
1970	0	4	3,138	7,493	23,840	197	669	74,670	2,244	112,252	0	0		
1971	0	4	2,597	7,472	26,289	209	681	79,589	1,675	118,513	0	0		
1972	0	4	2,093	8,197	28,620	211	730	88,892	1,770	130,513	0	0		
1973	0	4	2,031	10,786	27,847	200	729	98,363	2,664	142,622	0	0		
1974	0	3	2,117	10,716	23,616	188	698	97,162	2,345	136,843	0	0		
1975	*	2	1,921	10,160	24,199	169	622	99,462	2,211	138,744	0	0		
1976	*	2	1,685	10,682	25,102	178	691	102,792	3,024	144,155	0	0		
1977	*	1	1,475	14,399	27,301	191	804	106,552	3,562	154,284	0	0		
1978	0	1	1,510	15,900	28,011	213	864	112,019	3,770	162,287	0	0		
1979	0	4	1,271	15,842	31,217	149	904	109,847	11,330	170,560	0	0		
1980	0	4	1,339	16,014	35,911	161	805	107,853	11,613	173,695	0	0		
1981	0	4	1,138	19,304	35,598	314	772	110,987	6,828	174,941	0	0		
1982	0	4	881	17,751	33,730	357	704	113,070	5,704	172,197	0	0		
1983	0	4	882	19,761	30,140	424	737	116,774	4,056	172,774	0	0		
1984	0	4	704	20,921	24,240	401	786	119,732	3,816	170,600	7	16		
1985	0	4	841	20,335	23,101	301	733	122,926	6,475	174,712	17	39		
1986	0	4	1,023	21,800	25,022	341	716	128,643	5,341	182,886	36	84		
1987	0	4	778	22,232	26,502	166	810	135,094	5,928	191,511	40	91		
1988	0	3	882	25,361	31,960	172	781	139,669	5,781	204,606	33	74		
1989	0	4	976	26,073	33,566	178	801	139,901	6,099	207,593	33	73		
			Trillion Btu											
1960	0.0	1.0	22.8	22.5	51.5	0.3	4.1	222.1	23.7	347.0	0.0	348.0	0.0	348.0
1961	0.0	1.2	19.8	22.6	58.1	0.4	4.0	225.5	27.2	357.7	0.0	358.9	0.0	358.9
1962	0.0	1.8	27.6	25.7	71.2	0.6	3.9	240.2	36.4	405.3	0.0	407.1	0.0	407.1
1963	0.0	2.4	28.2	25.5	78.9	0.6	3.9	250.6	25.7	413.4	0.0	415.9	0.0	415.9
1964	0.0	2.5	23.8	29.8	86.4	0.6	4.1	259.9	25.3	429.9	0.0	432.4	0.0	432.4
1965	0.0	2.6	21.6	26.1	97.2	0.5	4.4	274.4	29.9	454.1	0.0	456.7	0.0	456.7
1966	0.0	3.2	19.4	29.6	97.7	0.7	4.6	292.5	25.5	470.0	0.0	473.2	0.0	473.2
1967	0.0	4.0	18.2	28.8	116.7	0.7	3.7	306.2	17.2	491.4	0.0	495.4	0.0	495.4
1968	0.0	4.5	17.3	39.4	134.9	0.7	4.0	335.3	12.8	544.5	0.0	548.9	0.0	548.9
1969	0.0	4.8	13.2	41.5	142.0	0.6	4.0	362.6	13.7	577.6	0.0	582.4	0.0	582.4
1970	0.0	4.5	15.8	43.6	133.2	0.7	4.1	392.2	14.1	603.8	0.0	608.3	0.0	608.3
1971	0.0	4.4	13.1	43.5	147.0	0.8	4.1	418.1	10.5	637.1	0.0	641.5	0.0	641.5
1972	0.0	4.3	10.6	47.7	160.3	0.8	4.4	467.0	11.1	701.9	0.0	706.2	0.0	706.2
1973	0.0	4.1	10.3	62.8	156.1	0.8	4.4	516.7	16.7	767.8	0.0	772.0	0.0	772.0
1974	0.0	3.3	10.7	62.4	132.1	0.7	4.2	510.4	14.7	735.3	0.0	738.6	0.0	738.6
1975	*	2.5	9.7	59.2	135.5	0.6	3.8	522.5	13.9	745.2	0.0	747.7	0.0	747.7
1976	*	2.0	8.5	62.2	140.7	0.7	4.2	540.0	19.0	775.3	0.0	777.3	0.0	777.3
1977	*	0.9	7.4	83.9	153.1	0.7	4.9	559.7	22.4	832.1	0.0	833.1	0.0	833.1
1978	0.0	1.2	7.6	92.6	157.2	0.8	5.2	588.4	23.7	875.6	0.0	876.8	0.0	876.8
1979	0.0	4.1	6.4	92.3	175.1	0.5	5.5	577.0	71.2	928.1	0.0	932.2	0.0	932.2
1980	0.0	3.9	6.8	93.3	201.6	0.6	4.9	566.6	73.0	946.6	0.0	950.6	0.0	950.6
1981	0.0	4.5	5.7	112.4	200.0	1.1	4.7	583.0	42.9	949.9	0.0	954.5	0.0	954.5
1982	0.0	4.5	4.4	103.4	189.3	1.3	4.3	594.0	35.9	932.5	0.0	937.0	0.0	937.0
1983	0.0	4.6	4.5	115.1	169.2	1.5	4.5	613.4	25.5	933.7	0.0	938.2	0.0	938.2
1984	0.0	4.8	3.6	121.9	135.6	1.4	4.8	629.0	24.0	920.2	*	925.0	0.1	925.1
1985	0.0	4.3	4.2	118.4	129.2	1.1	4.4	645.7	40.7	943.8	0.1	948.2	0.1	948.3
1986	0.0	4.2	5.2	127.0	140.1	1.2	4.3	675.8	33.6	987.2	0.1	991.5	0.3	991.8
1987	0.0	4.9	3.9	129.5	148.4	0.6	4.9	709.6	37.3	1,034.3	0.1	1,039.3	0.3	1,039.6
1988	0.0	3.6	4.5	147.7	179.3	0.6	4.7	733.7	36.3	1,106.9	0.1	1,110.6	0.3	1,110.9
1989	0.0	4.5	4.9	151.9	188.5	0.7	4.9	734.9	38.3	1,124.1	0.1	1,128.7	0.3	1,128.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 74. Estimates of Energy Input at Electric Utilities, 1960–1989, Florida

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**1,104**	**0**	**1,104**	**89**	**13,419**	**191**	**0**	**13,610**	**0**	**278**	**0**	**0**	
1961	1,495	0	1,495	85	14,697	209	0	14,906	0	263	0	0	
1962	1,638	0	1,638	89	17,677	251	0	17,928	0	237	0	0	
1963	1,782	0	1,782	95	19,378	275	0	19,653	0	265	0	0	
1964	1,947	0	1,947	93	22,641	321	0	22,963	0	290	0	0	
1965	**2,323**	**0**	**2,323**	**87**	**27,349**	**388**	**0**	**27,737**	**0**	**298**	**0**	**0**	
1966	3,012	0	3,012	98	30,009	426	0	30,435	0	290	0	0	
1967	4,174	0	4,174	108	30,095	427	0	30,522	0	286	0	0	
1968	4,481	0	4,481	148	32,163	457	0	32,620	0	242	0	0	
1969	4,532	0	4,532	180	35,529	504	0	36,033	0	274	0	0	
1970	**5,131**	**0**	**5,131**	**198**	**41,783**	**593**	**0**	**42,376**	**0**	**292**	**0**	**0**	
1971	5,124	0	5,124	196	51,515	1,326	0	52,841	0	253	0	0	
1972	5,464	0	5,464	171	64,154	3,735	0	67,890	66	238	0	0	
1973	6,641	0	6,641	168	67,650	2,978	0	70,629	4,681	234	0	0	
1974	6,399	0	6,399	155	62,687	3,822	0	66,509	7,877	251	0	0	
1975	**5,758**	**0**	**5,758**	**141**	**68,180**	**5,205**	**0**	**73,385**	**8,370**	**234**	**0**	**0**	
1976	6,068	0	6,068	126	74,450	5,419	0	79,869	8,648	259	0	0	
1977	6,780	0	6,780	137	64,837	5,374	0	70,212	17,557	243	0	0	
1978	7,184	0	7,184	158	72,151	5,047	0	77,197	15,810	228	0	0	
1979	8,155	0	8,155	167	70,076	4,980	0	75,056	15,391	241	0	0	
1980	**8,785**	**0**	**8,785**	**166**	**69,994**	**3,200**	**0**	**73,194**	**16,737**	**215**	**0**	**0**	
1981	9,209	192	9,401	171	74,857	2,249	0	77,107	14,448	180	0	0	
1982	9,545	0	9,545	182	53,953	856	0	54,809	19,319	261	0	*	
1983	12,435	0	12,435	175	49,295	1,007	0	50,302	14,805	220	0	*	
1984	14,579	0	14,579	175	31,026	935	0	31,961	24,078	213	0	*	
1985	**18,283**	**0**	**18,283**	**166**	**22,432**	**1,246**	**0**	**23,678**	**23,461**	**244**	**0**	**0**	
1986	17,822	0	17,822	170	43,440	1,025	0	44,465	22,036	212	0	0	
1987	22,598	0	22,598	176	32,647	1,047	0	33,694	18,773	217	0	0	
1988	23,528	0	23,528	155	39,623	1,037	0	40,660	26,198	209	0	0	
1989	24,292	0	24,292	187	40,532	2,435	0	42,966	20,916	234	0	0	
					Trillion Btu								
1960	**27.2**	**0.0**	**27.2**	**91.6**	**84.4**	**1.1**	**0.0**	**85.5**	**0.0**	**3.0**	**0.0**	**0.0**	**207.3**
1961	36.3	0.0	36.3	87.6	92.4	1.2	0.0	93.6	0.0	2.8	0.0	0.0	220.3
1962	39.6	0.0	39.6	92.0	111.1	1.5	0.0	112.6	0.0	2.5	0.0	0.0	246.8
1963	43.3	0.0	43.3	97.9	121.8	1.6	0.0	123.4	0.0	2.8	0.0	0.0	267.4
1964	46.7	0.0	46.7	96.4	142.3	1.9	0.0	144.2	0.0	3.0	0.0	0.0	290.3
1965	**55.2**	**0.0**	**55.2**	**90.2**	**171.9**	**2.3**	**0.0**	**174.2**	**0.0**	**3.1**	**0.0**	**0.0**	**322.7**
1966	70.1	0.0	70.1	101.5	188.7	2.5	0.0	191.1	0.0	3.0	0.0	0.0	365.9
1967	96.2	0.0	96.2	112.0	189.2	2.5	0.0	191.7	0.0	3.0	0.0	0.0	402.9
1968	103.2	0.0	103.2	154.7	202.2	2.7	0.0	204.9	0.0	2.5	0.0	0.0	465.2
1969	104.1	0.0	104.1	188.4	223.4	2.9	0.0	226.3	0.0	2.9	0.0	0.0	521.7
1970	**116.7**	**0.0**	**116.7**	**206.5**	**262.7**	**3.5**	**0.0**	**266.1**	**0.0**	**3.1**	**0.0**	**0.0**	**592.4**
1971	117.2	0.0	117.2	203.5	323.9	7.7	0.0	331.6	0.0	2.7	0.0	0.0	654.9
1972	123.6	0.0	123.6	174.1	403.3	21.7	0.0	425.1	0.7	2.5	0.0	0.0	726.0
1973	152.6	0.0	152.6	172.3	425.3	17.3	0.0	442.7	51.0	2.4	0.0	0.0	821.0
1974	146.6	0.0	146.6	158.4	394.1	22.3	0.0	416.4	87.9	2.6	0.0	0.0	811.9
1975	**133.0**	**0.0**	**133.0**	**142.4**	**428.6**	**30.3**	**0.0**	**459.0**	**92.2**	**2.4**	**0.0**	**0.0**	**829.0**
1976	141.3	0.0	141.3	127.3	468.1	31.6	0.0	499.6	95.5	2.7	0.0	0.0	866.5
1977	156.8	0.0	156.8	140.1	407.6	31.3	0.0	438.9	189.1	2.5	0.0	0.0	927.4
1978	169.4	0.0	169.4	161.8	453.6	29.4	0.0	483.0	173.0	2.4	0.0	0.0	989.6
1979	193.7	0.0	193.7	170.8	440.6	29.0	0.0	469.6	167.4	2.5	0.0	0.0	1,004.0
1980	**208.1**	**0.0**	**208.1**	**168.5**	**440.1**	**18.6**	**0.0**	**458.7**	**182.6**	**2.2**	**0.0**	**0.0**	**1,020.1**
1981	219.4	3.5	222.9	173.7	470.6	13.1	0.0	483.7	159.4	1.9	0.0	0.0	1,041.6
1982	229.3	0.0	229.3	185.0	339.2	5.0	0.0	344.2	213.9	2.7	0.0	*	975.1
1983	303.0	0.0	303.0	176.7	309.9	5.9	0.0	315.8	161.4	2.3	0.0	*	959.3
1984	356.5	0.0	356.5	176.7	195.1	5.4	0.0	200.5	261.1	2.2	0.0	*	997.0
1985	**447.0**	**0.0**	**447.0**	**167.5**	**141.0**	**7.3**	**0.0**	**148.3**	**253.7**	**2.5**	**0.0**	**0.0**	**1,019.0**
1986	437.6	0.0	437.6	170.9	273.1	6.0	0.0	279.1	238.0	2.2	0.0	0.0	1,127.7
1987	560.4	0.0	560.4	177.1	205.3	6.1	0.0	211.4	202.3	2.2	0.0	0.0	1,153.4
1988	584.6	0.0	584.6	155.8	249.1	6.0	0.0	255.2	281.4	2.1	0.0	0.0	1,279.2
1989	601.6	0.0	601.6	188.7	254.8	14.2	0.0	269.0	224.3	2.4	0.0	0.0	1,286.0

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 75. Energy Consumption Estimates by Source, 1960–1989, Georgia

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**3,548**	**182**	**2,482**	**262**	**5,140**	**2,306**	**1,554**	**4,253**	**819**	**32,079**	**6,551**	**166**	**55,612**	**0**	**2,306**	**0**	**0**	**7,839**	
1961	3,605	180	2,961	221	5,302	2,355	1,503	4,149	798	32,515	5,185	137	55,125	0	2,289	0	0	10,583	
1962	3,445	193	4,502	424	6,249	2,440	1,311	4,778	804	34,444	5,289	154	60,395	0	2,561	0	0	15,813	
1963	4,634	188	4,553	494	6,962	2,482	1,338	5,018	804	35,709	5,703	155	63,219	0	2,935	0	0	13,366	
1964	4,992	207	3,980	461	7,002	2,542	1,239	5,385	844	37,038	7,027	848	66,366	0	4,310	0	0	11,723	
1965	**6,116**	**211**	**4,007**	**928**	**8,531**	**2,158**	**1,297**	**5,424**	**967**	**39,136**	**8,413**	**912**	**71,774**	**0**	**3,234**	**0**	**0**	**13,600**	
1966	7,191	233	3,904	908	9,873	3,716	1,221	5,566	1,005	41,487	7,579	778	76,037	0	3,341	0	0	15,972	
1967	6,786	254	4,050	1,006	11,344	7,235	966	5,197	876	43,377	8,377	665	83,093	0	3,704	0	0	19,942	
1968	7,928	283	3,873	900	11,853	8,839	519	5,695	962	47,477	8,794	709	89,622	0	3,148	0	0	20,156	
1969	8,275	312	3,321	632	12,473	9,968	418	7,164	1,004	51,017	9,200	774	95,969	0	3,116	0	0	21,826	
1970	**8,131**	**333**	**3,916**	**600**	**12,781**	**10,506**	**457**	**7,430**	**1,023**	**54,081**	**10,279**	**808**	**101,882**	**0**	**2,519**	**0**	**0**	**27,394**	
1971	9,429	343	4,002	634	14,650	11,749	542	7,574	1,154	57,794	10,402	1,636	110,137	0	3,302	0	0	20,906	
1972	11,114	331	4,537	522	16,525	11,716	446	8,041	1,236	62,286	13,209	1,779	120,296	0	3,386	0	0	19,324	
1973	11,348	348	4,875	489	20,417	14,174	329	8,340	1,323	65,993	14,216	1,887	132,043	0	4,232	0	0	24,247	
1974	12,006	330	4,577	458	20,081	11,950	296	7,636	1,267	65,032	14,144	1,965	127,406	44	3,654	0	0	17,087	
1975	**13,141**	**327**	**4,198**	**399**	**16,115**	**12,887**	**246**	**8,168**	**1,126**	**65,541**	**10,809**	**1,781**	**121,269**	**3,093**	**4,334**	**0**	**0**	**9,175**	
1976	14,623	261	4,457	387	20,257	13,274	344	9,007	1,250	68,396	14,074	3,384	134,831	4,134	4,432	0	0	9,051	
1977	17,538	265	5,331	396	21,137	14,155	415	9,200	1,249	70,250	14,611	3,832	140,575	3,713	4,032	0	0	3,369	
1978	18,293	278	6,217	396	19,096	15,258	376	8,688	1,341	72,555	12,260	4,301	140,489	4,277	3,755	0	0	7,958	
1979	19,752	312	5,151	377	18,347	17,165	473	7,675	1,403	69,572	13,463	4,857	138,484	5,095	4,431	0	0	-2,094	
1980	**21,892**	**315**	**4,795**	**386**	**19,437**	**16,421**	**552**	**7,444**	**1,250**	**65,506**	**9,036**	**5,096**	**129,922**	**8,436**	**4,423**	**0**	**0**	**-15,441**	
1981	23,073	317	3,757	330	19,276	14,829	272	6,813	1,198	65,602	6,281	4,951	123,311	7,235	2,328	0	0	-9,055	
1982	22,295	295	3,927	244	18,374	15,085	313	6,367	1,093	66,046	5,395	3,995	120,839	6,606	3,652	0	0	-3,589	
1983	24,202	296	5,229	220	21,761	16,495	154	6,402	1,144	67,969	4,635	3,818	127,828	7,774	4,120	0	0	-15,244	
1984	28,072	307	5,639	219	23,693	16,790	86	6,397	1,220	71,471	4,431	4,522	134,468	5,472	4,137	0	0	-17,419	
1985	**29,898**	**282**	**4,580**	**212**	**23,818**	**16,236**	**167**	**6,937**	**1,137**	**72,975**	**8,548**	**4,101**	**138,710**	**10,130**	**2,826**	**0**	**0**	**-29,163**	
1986	28,460	279	5,641	253	24,610	17,742	171	6,528	1,112	76,959	2,464	4,317	139,797	7,238	2,151	0	0	3,872	
1987	29,126	303	5,977	218	26,033	19,691	126	6,167	1,257	79,934	2,233	4,196	145,832	15,259	3,175	0	0	-17,035	
1988	28,654	323	6,048	227	27,922	20,295	156	6,955	1,212	83,630	2,333	4,108	152,886	15,149	2,065	0	0	-2,000	
1989	27,918	317	4,958	210	28,125	17,451	153	7,788	1,243	83,531	1,401	4,024	148,885	24,961	3,929	0	0	-24,335	
													Trillion Btu						
1960	**89.0**	**188.5**	**16.5**	**1.3**	**29.9**	**12.4**	**8.8**	**17.1**	**5.0**	**168.5**	**41.2**	**1.0**	**301.6**	**0.0**	**24.8**	**0.0**	**0.0**	**26.7**	**630.6**
1961	90.8	186.3	19.6	1.1	30.9	12.7	8.5	16.6	4.8	170.8	32.6	0.8	298.5	0.0	24.4	0.0	0.0	36.1	636.0
1962	87.2	199.4	29.9	2.1	36.4	13.1	7.4	19.2	4.9	180.9	33.2	0.9	328.1	0.0	27.0	0.0	0.0	54.0	695.6
1963	115.5	195.7	30.2	2.5	40.6	13.3	7.6	20.1	4.9	187.6	35.9	0.9	343.5	0.0	30.8	0.0	0.0	45.6	731.1
1964	123.8	215.6	26.4	2.3	40.8	13.6	7.0	21.6	5.1	194.6	44.2	4.6	360.2	0.0	45.1	0.0	0.0	40.0	784.7
1965	**152.6**	**219.8**	**26.6**	**4.7**	**49.7**	**11.6**	**7.4**	**21.8**	**5.9**	**205.6**	**52.9**	**4.9**	**390.9**	**0.0**	**33.8**	**0.0**	**0.0**	**46.4**	**843.5**
1966	177.2	243.1	25.9	4.6	57.5	20.4	6.9	22.3	6.1	217.9	47.6	4.2	413.5	0.0	34.8	0.0	0.0	54.5	923.1
1967	165.9	265.3	26.9	5.1	66.1	40.3	5.5	19.9	5.3	227.9	52.7	3.6	453.2	0.0	38.6	0.0	0.0	68.0	991.1
1968	194.9	295.3	25.7	4.5	69.0	49.3	2.9	21.7	5.8	249.4	55.3	3.8	487.6	0.0	32.7	0.0	0.0	68.8	1,079.3
1969	202.7	324.9	22.0	3.2	72.7	55.8	2.4	27.3	6.1	268.0	57.8	4.2	519.4	0.0	32.6	0.0	0.0	74.5	1,154.1
1970	**193.2**	**342.8**	**26.0**	**3.0**	**74.5**	**59.0**	**2.6**	**28.1**	**6.2**	**284.1**	**64.6**	**4.3**	**552.4**	**0.0**	**26.4**	**0.0**	**0.0**	**93.5**	**1,208.3**
1971	219.6	353.2	26.6	3.2	85.3	66.0	3.1	28.6	7.0	303.6	65.4	8.8	597.6	0.0	34.6	0.0	0.0	71.3	1,276.3
1972	261.6	341.4	30.1	2.6	96.3	65.8	2.5	30.2	7.5	327.2	83.0	9.6	655.0	0.0	35.1	0.0	0.0	65.9	1,359.1
1973	271.5	358.5	32.4	2.5	118.9	79.8	1.9	31.2	8.0	346.7	89.4	10.3	721.0	0.0	44.0	0.0	0.0	82.7	1,477.8
1974	283.9	339.6	30.4	2.3	117.0	67.2	1.7	28.5	7.7	341.6	88.9	10.7	696.0	0.5	38.2	0.0	0.0	58.3	1,416.4
1975	**312.0**	**335.4**	**27.9**	**2.0**	**93.9**	**72.6**	**1.4**	**30.3**	**6.8**	**344.3**	**68.0**	**9.7**	**656.8**	**34.1**	**45.1**	**0.0**	**0.0**	**31.3**	**1,414.7**
1976	347.6	268.4	29.6	2.0	118.0	74.8	2.0	33.4	7.6	359.3	88.5	18.6	733.6	45.7	46.0	0.0	0.0	30.9	1,472.1
1977	415.7	271.8	35.4	2.0	123.1	79.8	2.4	33.8	7.6	369.0	91.9	21.2	766.1	40.0	42.1	0.0	0.0	11.5	1,547.2
1978	434.4	286.0	41.3	2.0	111.2	86.0	2.1	31.9	8.1	381.1	77.1	23.8	764.6	46.8	38.9	0.0	0.0	27.2	1,597.9
1979	469.6	324.5	34.2	1.9	106.9	96.8	2.7	28.2	8.5	365.5	84.6	26.6	755.9	55.4	45.9	0.0	0.0	-7.1	1,644.1
1980	**521.5**	**325.3**	**31.8**	**1.9**	**113.2**	**92.6**	**3.1**	**27.3**	**7.6**	**344.1**	**56.8**	**27.8**	**706.4**	**92.0**	**45.9**	**0.0**	**0.0**	**-52.7**	**1,638.4**
1981	552.1	325.2	24.9	1.7	112.3	83.6	1.5	24.8	7.3	344.6	39.5	27.0	667.2	79.8	24.3	0.0	0.0	-30.9	1,617.7
1982	535.4	303.5	26.1	1.2	107.0	85.0	1.8	23.0	6.6	346.9	33.9	21.8	653.4	73.1	38.2	0.0	0.0	-12.2	1,591.4
1983	584.8	303.2	34.7	1.1	126.8	93.0	0.9	23.1	6.9	357.0	29.1	21.1	693.7	84.8	43.3	0.0	0.0	-52.0	1,657.9
1984	681.5	315.3	37.4	1.1	138.0	94.4	0.5	23.0	7.4	375.4	27.9	24.4	729.6	59.3	42.7	0.0	0.0	-59.4	1,769.0
1985	**725.7**	**289.7**	**30.4**	**1.1**	**138.7**	**91.5**	**0.9**	**25.0**	**6.9**	**383.3**	**53.7**	**22.3**	**753.9**	**109.5**	**29.2**	**0.0**	**0.0**	**-99.5**	**1,808.6**
1986	692.5	286.6	37.4	1.3	143.4	100.1	1.0	23.8	6.7	404.3	15.5	23.6	757.0	78.2	22.1	0.0	0.0	13.2	1,849.6
1987	710.6	311.3	39.7	1.1	151.6	111.2	0.7	22.6	7.6	419.9	14.0	22.6	791.0	164.4	32.6	0.0	0.0	-58.1	1,951.8
1988	699.0	331.1	40.1	1.1	162.6	114.6	0.9	25.4	7.4	439.3	14.7	22.3	828.4	162.8	21.1	0.0	0.0	-6.8	2,035.6
1989	676.8	325.3	32.9	1.1	163.8	98.5	0.9	28.7	7.5	438.8	8.8	21.7	802.7	267.7	40.6	0.0	0.0	-83.0	2,030.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 76. Residential Energy Consumption Estimates, 1960–1989, Georgia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**134**	**0**	**134**	**56**	**131**	**633**	**2,279**	**3,042**	**4,469**	**11,116**
1961	107	0	107	57	130	645	2,317	3,092	4,657	11,352
1962	119	0	119	59	153	525	2,507	3,185	5,191	12,480
1963	98	0	98	63	129	575	2,646	3,350	5,620	13,439
1964	88	0	88	70	134	482	2,826	3,442	6,292	14,985
1965	**68**	**0**	**68**	**67**	**211**	**460**	**3,092**	**3,764**	**6,936**	**16,560**
1966	78	0	78	75	243	425	3,257	3,924	7,653	18,363
1967	58	0	58	80	305	335	2,887	3,527	8,202	19,595
1968	64	0	64	84	266	117	3,219	3,601	9,732	23,220
1969	55	0	55	88	253	82	4,075	4,409	11,062	26,424
1970	**44**	**0**	**44**	**87**	**250**	**121**	**4,164**	**4,536**	**12,474**	**30,229**
1971	28	0	28	88	306	150	4,229	4,685	13,099	31,669
1972	21	0	21	85	363	97	4,304	4,764	13,786	33,182
1973	27	0	27	86	375	76	4,122	4,573	15,383	36,827
1974	20	0	20	76	335	48	3,625	4,008	15,098	36,813
1975	**18**	**0**	**18**	**87**	**298**	**34**	**3,896**	**4,229**	**16,457**	**39,696**
1976	9	0	9	86	503	34	4,323	4,860	16,904	40,718
1977	14	0	14	98	422	68	4,416	4,905	18,610	44,938
1978	7	0	7	96	315	47	4,029	4,392	19,218	47,017
1979	9	0	9	91	304	77	2,282	2,663	18,367	44,326
1980	**8**	**0**	**8**	**90**	**578**	**91**	**3,553**	**4,222**	**20,033**	**48,713**
1981	11	0	11	92	184	34	3,313	3,531	20,207	48,159
1982	5	0	5	87	163	62	2,779	3,003	20,147	48,390
1983	1	0	1	91	225	103	3,304	3,631	20,726	49,550
1984	25	0	25	95	231	61	3,799	4,090	22,570	52,412
1985	**13**	**1**	**14**	**84**	**353**	**117**	**4,070**	**4,540**	**23,505**	**55,118**
1986	2	1	3	89	364	103	3,681	4,148	25,808	59,171
1987	13	0	13	101	343	74	3,611	4,028	26,991	61,513
1988	9	0	9	108	258	95	3,866	4,219	27,609	62,350
1989	4	0	4	104	267	87	4,340	4,694	28,349	63,590

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Distillate Fuel	Kerosene	LPG[2]	Petroleum: Total	Electricity: Net Energy[4]	Electricity: Total[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu											
1960	**3.3**	**0.0**	**3.3**	**57.8**	**0.8**	**3.6**	**9.1**	**13.5**	**15.2**	**89.9**	**37.9**	**127.8**
1961	2.6	0.0	2.6	59.0	0.8	3.7	9.3	13.7	15.9	91.2	38.7	130.0
1962	2.9	0.0	2.9	60.8	0.9	3.0	10.1	13.9	17.7	95.4	42.6	138.0
1963	2.4	0.0	2.4	66.2	0.8	3.3	10.6	14.6	19.2	102.4	45.9	148.3
1964	2.2	0.0	2.2	72.9	0.8	2.7	11.3	14.8	21.5	111.4	51.1	162.6
1965	**1.7**	**0.0**	**1.7**	**69.9**	**1.2**	**2.6**	**12.4**	**16.2**	**23.7**	**111.4**	**56.5**	**167.9**
1966	1.9	0.0	1.9	78.6	1.4	2.4	13.1	16.9	26.1	123.5	62.7	186.1
1967	1.4	0.0	1.4	83.8	1.8	1.9	11.1	14.8	28.0	127.9	66.9	194.8
1968	1.6	0.0	1.6	87.7	1.5	0.7	12.3	14.5	33.2	136.9	79.2	216.2
1969	1.3	0.0	1.3	91.7	1.5	0.5	15.5	17.4	37.7	148.2	90.2	238.3
1970	**1.1**	**0.0**	**1.1**	**90.1**	**1.5**	**0.7**	**15.7**	**17.9**	**42.6**	**151.6**	**103.1**	**254.7**
1971	0.7	0.0	0.7	91.1	1.8	0.8	16.0	18.6	44.7	155.0	108.1	263.1
1972	0.5	0.0	0.5	87.9	2.1	0.5	16.2	18.8	47.0	154.3	113.2	267.5
1973	0.6	0.0	0.6	88.8	2.2	0.4	15.4	18.1	52.5	159.9	125.7	285.6
1974	0.5	0.0	0.5	78.3	2.0	0.3	13.5	15.7	51.5	146.1	125.6	271.7
1975	**0.4**	**0.0**	**0.4**	**89.5**	**1.7**	**0.2**	**14.5**	**16.4**	**56.2**	**162.5**	**135.4**	**297.9**
1976	0.2	0.0	0.2	88.7	2.9	0.2	16.0	19.2	57.7	165.7	138.9	304.7
1977	0.3	0.0	0.3	101.0	2.5	0.4	16.2	19.1	63.5	183.9	153.3	337.2
1978	0.2	0.0	0.2	99.1	1.8	0.3	14.8	16.9	65.6	181.7	160.4	342.1
1979	0.2	0.0	0.2	94.5	1.8	0.4	8.4	10.6	62.7	168.0	151.2	319.3
1980	**0.2**	**0.0**	**0.2**	**93.1**	**3.4**	**0.5**	**13.1**	**16.9**	**68.4**	**178.6**	**166.2**	**344.8**
1981	0.3	0.0	0.3	94.4	1.1	0.2	12.1	13.3	68.9	177.0	164.3	341.3
1982	0.1	0.0	0.1	89.4	0.9	0.4	10.0	11.3	68.7	169.6	165.1	334.7
1983	*	0.0	*	93.8	1.3	0.6	11.9	13.8	70.7	178.3	169.4	347.8
1984	0.6	0.0	0.6	97.8	1.3	0.3	13.7	15.4	77.0	190.8	178.8	369.6
1985	**0.3**	*	**0.3**	**86.4**	**2.1**	**0.7**	**14.7**	**17.4**	**80.2**	**184.3**	**188.1**	**372.4**
1986	0.1	*	0.1	91.6	2.1	0.6	13.4	16.1	88.1	195.8	201.9	397.7
1987	0.3	0.0	0.3	103.2	2.0	0.4	13.2	15.6	92.1	211.3	209.9	421.2
1988	0.2	0.0	0.2	110.8	1.5	0.5	14.1	16.2	94.2	221.4	212.7	434.2
1989	0.1	0.0	0.1	106.4	1.6	0.5	16.0	18.0	96.7	221.2	217.0	438.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 77. Commercial Energy Consumption Estimates, 1960–1989, Georgia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours	
1960	**249**	**0**	**249**	**21**	**373**	**206**	**402**	**269**	**59**	**1,308**	**2,764**	**6,875**
1961	199	0	199	22	370	209	409	277	45	1,310	2,960	7,215
1962	220	0	220	25	436	171	442	294	46	1,388	3,357	8,071
1963	182	0	182	26	367	187	467	283	55	1,360	3,648	8,724
1964	163	0	163	27	382	157	499	274	67	1,378	4,040	9,622
1965	**125**	**0**	**125**	**26**	**603**	**149**	**546**	**306**	**83**	**1,687**	**4,560**	**10,887**
1966	145	0	145	27	692	138	575	310	68	1,782	4,972	11,930
1967	108	0	108	30	871	109	509	319	88	1,895	5,426	12,962
1968	119	0	119	36	758	38	568	346	94	1,803	6,314	15,064
1969	103	0	103	39	721	26	719	356	105	1,928	7,237	17,286
1970	**82**	**0**	**82**	**39**	**713**	**39**	**735**	**349**	**108**	**1,945**	**8,174**	**19,807**
1971	53	0	53	42	874	49	746	365	106	2,141	8,814	21,308
1972	39	0	39	45	1,035	31	760	362	114	2,302	9,735	23,432
1973	50	0	50	47	1,069	25	727	382	121	2,324	10,693	25,598
1974	38	0	38	44	955	16	640	357	113	2,081	10,679	26,038
1975	**33**	**0**	**33**	**49**	**851**	**11**	**688**	**372**	**80**	**2,002**	**11,226**	**27,079**
1976	17	0	17	46	1,436	11	763	381	84	2,676	12,340	29,725
1977	26	0	26	55	1,203	22	779	393	101	2,498	13,063	31,544
1978	13	0	13	60	900	15	711	398	82	2,106	11,416	27,929
1979	17	0	17	62	867	25	403	406	96	1,797	11,342	27,372
1980	**14**	**0**	**14**	**59**	**315**	**12**	**627**	**363**	**10**	**1,327**	**11,965**	**29,096**
1981	21	0	21	57	1,227	18	585	410	9	2,249	12,831	30,581
1982	9	0	9	55	1,041	143	490	422	5	2,101	13,476	32,367
1983	2	0	2	56	2,161	28	583	402	518	3,693	13,756	32,956
1984	47	0	47	56	2,217	15	670	370	503	3,775	15,605	36,237
1985	**24**	*	**25**	**52**	**1,546**	**21**	**718**	**309**	**325**	**2,920**	**17,014**	**39,898**
1986	4	*	5	50	992	37	650	360	657	2,696	18,257	41,859
1987	24	0	24	55	1,004	19	637	408	697	2,766	19,411	44,239
1988	18	0	18	56	1,203	10	682	455	562	2,912	20,694	46,734
1989	8	0	8	53	975	36	766	404	113	2,293	22,263	49,938

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu													
1960	**6.2**	**0.0**	**6.2**	**22.1**	**2.2**	**1.2**	**1.6**	**1.4**	**0.4**	**6.7**	**9.4**	**44.5**	**23.5**	**67.9**
1961	4.9	0.0	4.9	22.7	2.2	1.2	1.6	1.5	0.3	6.7	10.1	44.4	24.6	69.0
1962	5.4	0.0	5.4	26.1	2.5	1.0	1.8	1.5	0.3	7.1	11.5	50.1	27.5	77.6
1963	4.5	0.0	4.5	27.2	2.1	1.1	1.9	1.5	0.3	6.9	12.4	51.0	29.8	80.8
1964	4.0	0.0	4.0	27.8	2.2	0.9	2.0	1.4	0.4	7.0	13.8	52.6	32.8	85.4
1965	**3.1**	**0.0**	**3.1**	**27.1**	**3.5**	**0.8**	**2.2**	**1.6**	**0.5**	**8.7**	**15.6**	**54.4**	**37.1**	**91.6**
1966	3.5	0.0	3.5	28.4	4.0	0.8	2.3	1.6	0.4	9.2	17.0	58.1	40.7	98.8
1967	2.6	0.0	2.6	31.5	5.1	0.6	2.0	1.7	0.6	9.9	18.5	62.5	44.2	106.7
1968	2.9	0.0	2.9	37.6	4.4	0.2	2.2	1.8	0.6	9.2	21.5	71.2	51.4	122.6
1969	2.5	0.0	2.5	40.7	4.2	0.2	2.7	1.9	0.7	9.6	24.7	77.5	59.0	136.5
1970	**2.0**	**0.0**	**2.0**	**39.9**	**4.2**	**0.2**	**2.8**	**1.8**	**0.7**	**9.7**	**27.9**	**79.4**	**67.6**	**147.0**
1971	1.2	0.0	1.2	43.2	5.1	0.3	2.8	1.9	0.7	10.8	30.1	85.3	72.7	158.0
1972	0.9	0.0	0.9	46.4	6.0	0.2	2.9	1.9	0.7	11.7	33.2	92.2	79.9	172.1
1973	1.2	0.0	1.2	48.7	6.2	0.1	2.7	2.0	0.8	11.9	36.5	98.2	87.3	185.5
1974	0.9	0.0	0.9	45.6	5.6	0.1	2.4	1.9	0.7	10.6	36.4	93.5	88.8	182.3
1975	**0.8**	**0.0**	**0.8**	**50.8**	**5.0**	**0.1**	**2.6**	**2.0**	**0.5**	**10.0**	**38.3**	**99.9**	**92.4**	**192.3**
1976	0.4	0.0	0.4	47.6	8.4	0.1	2.8	2.0	0.5	13.8	42.1	103.9	101.4	205.3
1977	0.6	0.0	0.6	56.8	7.0	0.1	2.9	2.1	0.6	12.7	44.6	114.6	107.6	222.3
1978	0.3	0.0	0.3	61.9	5.2	0.1	2.6	2.1	0.5	10.5	39.0	111.7	95.3	207.0
1979	0.4	0.0	0.4	64.8	5.1	0.1	1.5	2.1	0.6	9.4	38.7	113.4	93.4	206.7
1980	**0.3**	**0.0**	**0.3**	**60.6**	**1.8**	**0.1**	**2.3**	**1.9**	**0.1**	**6.2**	**40.8**	**108.0**	**99.3**	**207.3**
1981	0.5	0.0	0.5	58.7	7.1	0.1	2.1	2.2	0.1	11.6	43.8	114.6	104.3	218.9
1982	0.2	0.0	0.2	56.4	6.1	0.8	1.8	2.2	*	10.9	46.0	113.5	110.4	223.9
1983	0.1	0.0	0.1	57.7	12.6	0.2	2.1	2.1	3.3	20.2	46.9	125.0	112.4	237.4
1984	1.2	0.0	1.2	57.4	12.9	0.1	2.4	1.9	3.2	20.5	53.2	132.3	123.6	255.9
1985	**0.6**	*	**0.6**	**53.0**	**9.0**	**0.1**	**2.6**	**1.6**	**2.0**	**15.4**	**58.1**	**127.0**	**136.1**	**263.1**
1986	0.1	*	0.1	51.8	5.8	0.2	2.4	1.9	4.1	14.4	62.3	128.6	142.8	271.4
1987	0.6	0.0	0.6	56.0	5.8	0.1	2.3	2.1	4.4	14.8	66.2	137.7	150.9	288.6
1988	0.4	0.0	0.4	57.4	7.0	0.1	2.5	2.4	3.5	15.5	70.6	143.9	159.5	303.3
1989	0.2	0.0	0.2	54.5	5.7	0.2	2.8	2.1	0.7	11.5	76.0	142.2	170.4	312.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 78. Industrial Energy Consumption Estimates, 1960–1989, Georgia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**548**	**0**	**548**	**76**	**2,482**	**2,043**	**715**	**1,507**	**289**	**936**	**4,909**	**166**	**13,046**	**63**	**4,713**	**11,723**		
1961	538	0	538	81	2,961	2,483	648	1,338	281	783	3,801	137	12,432	61	4,858	11,840		
1962	504	0	504	88	4,502	2,637	615	1,712	292	846	3,704	154	14,462	64	5,476	13,165		
1963	551	0	551	91	4,553	2,051	576	1,780	292	689	4,524	155	14,620	64	5,729	13,702		
1964	634	0	634	103	3,980	2,055	601	1,926	307	593	5,517	848	15,826	63	6,052	14,412		
1965	**630**	**0**	**630**	**113**	**4,007**	**3,538**	**687**	**1,716**	**384**	**616**	**7,117**	**912**	**18,978**	**64**	**6,903**	**16,481**		
1966	864	0	864	125	3,904	4,236	659	1,683	399	386	6,371	778	18,415	68	8,012	19,225		
1967	831	0	831	129	4,050	4,951	523	1,735	382	291	7,006	665	19,601	69	8,609	20,567		
1968	608	0	608	140	3,873	4,325	365	1,833	419	237	7,594	709	19,355	60	9,564	22,819		
1969	574	0	574	143	3,321	4,408	310	2,295	465	192	8,472	774	20,237	63	10,292	24,584		
1970	**506**	**0**	**506**	**141**	**3,916**	**4,014**	**296**	**2,430**	**474**	**124**	**8,457**	**808**	**20,519**	**58**	**10,853**	**26,300**		
1971	490	0	490	142	4,002	4,374	344	2,492	562	102	8,299	1,636	21,810	55	11,678	28,234		
1972	429	0	429	155	4,537	4,786	318	2,869	602	96	8,944	1,779	23,931	56	12,694	30,555		
1973	417	0	417	174	4,875	4,815	228	3,374	697	82	9,611	1,887	25,570	55	13,733	32,876		
1974	306	0	306	162	4,577	4,125	232	3,263	667	74	8,842	1,965	23,745	49	13,775	33,586		
1975	**434**	**0**	**434**	**145**	**4,198**	**3,557**	**200**	**3,478**	**610**	**60**	**6,243**	**1,781**	**20,127**	**56**	**13,866**	**33,446**		
1976	554	0	554	120	4,457	5,403	300	3,799	678	45	6,595	3,384	24,661	57	15,060	36,277		
1977	642	0	642	102	5,331	4,995	325	3,866	632	44	7,885	3,832	26,909	49	15,734	37,992		
1978	643	0	643	112	6,217	4,255	313	3,666	678	30	6,397	4,301	25,858	53	18,520	45,309		
1979	555	0	555	152	5,151	3,715	371	4,856	710	35	7,563	4,857	27,258	56	19,107	46,111		
1980	**679**	**0**	**679**	**155**	**4,795**	**3,993**	**449**	**3,188**	**632**	**26**	**5,361**	**5,096**	**23,541**	**54**	**19,195**	**46,676**		
1981	1,099	1	1,100	157	3,757	2,891	220	2,703	606	21	3,141	4,951	18,291	54	19,379	46,185		
1982	1,087	0	1,087	144	3,927	2,367	108	2,895	553	16	2,987	3,995	16,848	54	18,960	45,539		
1983	1,420	0	1,420	140	5,229	3,012	23	2,275	579	20	2,905	3,618	17,660	54	19,737	47,286		
1984	1,543	1	1,544	150	5,639	3,089	11	1,690	617	525	2,818	4,522	18,910	54	22,259	51,688		
1985	**1,574**	**1**	**1,575**	**140**	**4,580**	**3,653**	**29**	**1,985**	**575**	**1,251**	**7,228**	**4,101**	**23,402**	**54**	**23,122**	**54,222**		
1986	1,798	2	1,800	128	5,641	3,984	32	2,051	562	1,160	980	4,317	18,727	54	24,367	55,867		
1987	1,960	0	1,960	141	5,977	3,583	32	1,807	636	1,217	1,026	4,196	18,475	54	25,227	57,492		
1988	2,114	1	2,115	150	6,048	3,401	51	2,299	613	1,154	1,263	4,108	18,938	54	25,984	58,679		
1989	2,067	0	2,067	153	4,958	3,970	31	2,584	629	1,299	747	4,024	18,241	54	26,388	59,191		
					Trillion Btu													
1960	**13.9**	**0.0**	**13.9**	**78.6**	**16.5**	**11.9**	**4.1**	**6.0**	**1.8**	**4.9**	**30.9**	**1.0**	**77.0**	**0.7**	**16.1**	**186.3**	**40.0**	**226.3**
1961	13.6	0.0	13.6	83.9	19.6	14.5	3.7	5.4	1.7	4.1	23.9	0.8	73.7	0.6	16.6	188.4	40.4	228.8
1962	12.8	0.0	12.8	91.5	29.9	15.4	3.5	6.9	1.8	4.4	23.3	0.9	86.0	0.7	18.7	209.6	44.9	254.5
1963	14.0	0.0	14.0	94.6	30.2	11.9	3.3	7.1	1.8	3.6	28.4	0.9	87.3	0.7	19.5	216.1	46.8	262.8
1964	16.1	0.0	16.1	107.3	26.4	12.0	3.4	7.7	1.9	3.1	34.7	4.6	93.7	0.7	20.6	238.3	49.2	287.5
1965	**15.9**	**0.0**	**15.9**	**117.0**	**26.6**	**20.6**	**3.9**	**6.9**	**2.3**	**3.2**	**44.7**	**4.9**	**113.2**	**0.7**	**23.6**	**270.3**	**56.2**	**326.5**
1966	21.6	0.0	21.6	130.5	25.9	24.7	3.7	6.7	2.4	2.0	40.1	4.2	109.7	0.7	27.3	289.9	65.6	355.5
1967	20.6	0.0	20.6	134.3	26.9	28.8	3.0	6.7	2.3	1.5	44.0	3.6	116.8	0.7	29.4	301.9	70.2	372.0
1968	15.1	0.0	15.1	146.1	25.7	25.2	2.1	7.0	2.5	1.2	47.7	3.8	115.3	0.6	32.6	309.8	77.9	387.7
1969	14.1	0.0	14.1	149.1	22.0	25.7	1.8	8.7	2.8	1.0	53.3	4.2	119.5	0.7	35.1	318.4	83.9	402.3
1970	**12.0**	**0.0**	**12.0**	**145.3**	**26.0**	**23.4**	**1.7**	**9.2**	**2.9**	**0.7**	**53.2**	**4.3**	**121.3**	**0.6**	**37.0**	**316.2**	**89.7**	**405.9**
1971	11.5	0.0	11.5	146.6	26.6	25.5	1.9	9.4	3.4	0.5	52.2	8.8	128.3	0.6	39.8	326.9	96.3	423.2
1972	10.0	0.0	10.0	159.3	30.1	27.9	1.8	10.8	3.6	0.5	56.2	9.6	140.6	0.6	43.3	353.8	104.3	458.0
1973	9.7	0.0	9.7	179.3	32.4	28.0	1.3	12.6	4.2	0.4	60.4	10.3	149.7	0.6	46.9	386.2	112.2	498.4
1974	7.1	0.0	7.1	166.4	30.4	24.0	1.3	12.2	4.0	0.4	55.6	10.7	138.6	0.5	47.0	359.6	114.6	474.2
1975	**10.2**	**0.0**	**10.2**	**149.4**	**27.9**	**20.7**	**1.1**	**12.9**	**3.7**	**0.3**	**39.2**	**9.7**	**115.6**	**0.6**	**47.3**	**323.1**	**114.1**	**437.2**
1976	13.2	0.0	13.2	123.7	29.6	31.5	1.7	14.1	4.1	0.2	41.5	18.6	141.3	0.6	51.4	330.2	123.8	453.9
1977	15.1	0.0	15.1	104.8	35.4	29.1	1.8	14.2	3.8	0.2	49.6	21.2	155.4	0.5	53.7	329.5	129.6	459.1
1978	15.2	0.0	15.2	115.5	41.3	24.8	1.8	13.5	4.1	0.2	40.2	23.8	149.5	0.6	63.2	344.0	154.6	498.6
1979	13.4	0.0	13.4	157.5	34.2	21.6	2.1	17.9	4.3	0.2	47.5	26.6	154.5	0.6	65.2	391.1	157.3	548.4
1980	**16.5**	**0.0**	**16.5**	**160.1**	**31.8**	**23.3**	**2.5**	**11.7**	**3.8**	**0.1**	**33.7**	**27.8**	**134.9**	**0.6**	**65.5**	**377.5**	**159.3**	**536.8**
1981	26.7	*	26.7	161.3	24.9	16.8	1.2	9.8	3.7	0.1	19.7	27.0	103.4	0.6	66.1	358.2	157.6	515.8
1982	26.6	0.0	26.6	146.7	26.1	13.8	0.6	10.5	3.4	0.1	18.8	21.8	94.9	0.6	64.7	335.5	155.4	490.9
1983	35.1	0.0	35.1	143.9	34.7	17.5	0.1	8.2	3.5	0.1	18.3	21.1	103.5	0.6	67.3	350.5	161.3	511.8
1984	38.1	*	38.2	153.4	37.4	18.0	0.1	6.1	3.7	2.8	17.7	24.4	110.1	0.6	75.9	378.2	176.4	554.6
1985	**39.1**	*	**39.1**	**143.9**	**30.4**	**21.3**	**0.2**	**7.2**	**3.5**	**6.6**	**45.4**	**22.3**	**136.8**	**0.6**	**78.9**	**399.2**	**185.0**	**584.2**
1986	44.9	*	44.9	131.9	37.4	23.2	0.2	7.5	3.4	6.1	6.2	23.6	107.6	0.6	83.1	368.1	190.6	558.7
1987	49.0	0.0	49.0	144.9	39.7	20.9	0.2	6.6	3.9	6.4	6.5	22.6	106.6	0.6	86.1	387.2	196.2	583.3
1988	52.8	*	52.9	154.2	40.1	19.8	0.3	8.4	3.7	6.1	7.9	22.3	108.6	0.6	88.7	404.9	200.2	605.1
1989	51.2	0.0	51.2	156.5	32.9	23.1	0.2	9.5	3.8	6.8	4.7	21.7	102.8	0.6	90.0	401.1	202.0	603.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 79. Transportation Energy Consumption Estimates, 1960–1989, Georgia

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**10**	**4**	**262**	**2,592**	**2,306**	**66**	**530**	**30,875**	**1,544**	**38,175**	**44**		**109**	
1961	2	4	221	2,316	2,355	85	516	31,456	1,264	38,214	45		109	
1962	2	4	424	3,023	2,440	116	512	33,304	1,507	41,326	43		104	
1963	2	5	494	4,412	2,482	126	512	34,737	1,083	43,846	0		0	
1964	2	5	461	4,428	2,542	135	537	36,172	1,389	45,663	0		0	
1965	**2**	**5**	**928**	**4,177**	**2,158**	**69**	**583**	**38,215**	**1,162**	**47,292**	**0**		**0**	
1966	3	5	908	4,701	3,716	52	606	40,792	1,108	51,882	0		0	
1967	2	6	1,006	5,214	7,235	65	494	42,768	1,174	57,955	0		0	
1968	1	6	900	6,490	8,839	76	543	46,895	715	64,458	0		0	
1969	1	7	632	7,073	9,968	75	539	50,469	146	68,902	0		0	
1970	**1**	**7**	**600**	**7,747**	**10,506**	**100**	**549**	**53,608**	**172**	**73,283**	**0**		**0**	
1971	1	7	634	8,579	11,749	108	592	57,326	136	79,123	0		0	
1972	*	8	522	9,308	11,716	108	634	61,827	236	84,351	0		0	
1973	*	6	489	11,582	14,174	116	626	65,529	592	93,108	0		0	
1974	*	5	458	11,401	11,950	107	600	64,602	626	89,743	0		0	
1975	*****	**4**	**399**	**10,331**	**12,887**	**106**	**516**	**65,110**	**427**	**89,776**	**0**		**0**	
1976	*	3	387	10,880	13,274	122	573	67,969	562	93,766	0		0	
1977	*	3	396	12,104	14,155	139	617	69,814	375	97,600	0		0	
1978	0	3	396	12,344	15,258	282	663	72,127	447	101,517	0		0	
1979	0	4	377	13,243	17,165	134	694	69,131	3,454	104,197	2		5	
1980	**0**	**7**	**386**	**14,135**	**16,421**	**76**	**618**	**65,116**	**2,995**	**99,747**	**16**		**38**	
1981	0	8	330	14,602	14,829	212	592	65,171	2,656	98,392	17		40	
1982	0	7	244	14,544	15,085	203	540	65,608	2,314	98,538	25		60	
1983	0	6	220	16,148	16,495	241	566	67,547	1,146	102,363	24		58	
1984	0	6	219	17,988	16,790	238	603	70,577	1,078	107,492	34		79	
1985	**0**	**5**	**212**	**18,031**	**16,236**	**163**	**562**	**71,415**	**937**	**107,557**	**56**		**130**	
1986	0	5	253	19,101	17,742	147	550	75,439	471	113,702	59		134	
1987	0	6	218	20,949	19,691	111	621	78,309	302	120,203	51		116	
1988	0	7	227	22,746	20,295	107	599	82,021	328	126,323	59		133	
1989	0	7	210	22,595	17,451	98	615	81,829	514	123,310	59		132	
							Trillion Btu					Net Energy[4]		Total[4]
1960	**0.2**	**3.7**	**1.3**	**15.1**	**12.4**	**0.3**	**3.2**	**162.2**	**9.7**	**204.2**	**0.1**	**208.3**	**0.4**	**208.6**
1961	0.1	3.7	1.1	13.5	12.7	0.3	3.1	165.2	7.9	203.9	0.2	207.9	0.4	208.2
1962	0.1	4.1	2.1	17.6	13.1	0.5	3.1	174.9	9.5	220.8	0.1	225.1	0.4	225.5
1963	0.1	4.7	2.5	25.7	13.3	0.5	3.1	182.5	6.8	234.4	0.0	239.2	0.0	239.2
1964	0.1	4.8	2.3	25.8	13.6	0.5	3.3	190.0	8.7	244.3	0.0	249.2	0.0	249.2
1965	**0.1**	**5.0**	**4.7**	**24.3**	**11.6**	**0.3**	**3.5**	**200.7**	**7.3**	**252.5**	**0.0**	**257.5**	**0.0**	**257.5**
1966	0.1	5.2	4.6	27.4	20.4	0.2	3.7	214.3	7.0	277.5	0.0	282.7	0.0	282.7
1967	0.1	6.4	5.1	30.4	40.3	0.3	3.0	224.7	7.4	311.0	0.0	317.5	0.0	317.5
1968	*	6.8	4.5	37.8	49.3	0.3	3.3	246.3	4.5	346.0	0.0	352.8	0.0	352.8
1969	*	7.1	3.2	41.2	55.8	0.3	3.3	265.1	0.9	369.8	0.0	376.9	0.0	376.9
1970	*****	**7.1**	**3.0**	**45.1**	**59.0**	**0.4**	**3.3**	**281.6**	**1.1**	**393.5**	**0.0**	**400.6**	**0.0**	**400.6**
1971	*	6.9	3.2	50.0	66.0	0.4	3.6	301.1	0.9	425.1	0.0	432.1	0.0	432.1
1972	*	8.2	2.6	54.2	65.8	0.4	3.8	324.8	1.5	453.2	0.0	461.4	0.0	461.4
1973	*	6.3	2.5	67.5	79.8	0.4	3.8	344.2	3.7	502.0	0.0	508.3	0.0	508.3
1974	*	5.0	2.3	66.4	67.2	0.4	3.6	339.4	3.9	483.3	0.0	488.3	0.0	488.3
1975	*****	**4.3**	**2.0**	**60.2**	**72.6**	**0.4**	**3.1**	**342.0**	**2.7**	**483.0**	**0.0**	**487.3**	**0.0**	**487.3**
1976	*	3.5	2.0	63.4	74.8	0.5	3.5	357.0	3.5	504.6	0.0	508.2	0.0	508.2
1977	*	3.0	2.0	70.5	79.8	0.5	3.7	366.7	2.4	525.6	0.0	528.6	0.0	528.6
1978	0.0	3.5	2.0	71.9	86.0	1.0	4.0	378.9	2.8	546.7	0.0	550.2	0.0	550.2
1979	0.0	4.3	1.9	77.1	96.8	0.5	4.2	363.1	21.7	565.4	*	569.7	*	569.7
1980	**0.0**	**7.6**	**1.9**	**82.3**	**92.6**	**0.3**	**3.7**	**342.1**	**18.8**	**541.8**	**0.1**	**549.4**	**0.1**	**549.6**
1981	0.0	7.9	1.7	85.1	83.6	0.8	3.6	342.3	16.7	533.7	0.1	541.6	0.1	541.8
1982	0.0	7.4	1.2	84.7	85.0	0.7	3.3	344.6	14.5	534.1	0.1	541.6	0.2	541.8
1983	0.0	6.1	1.1	94.1	93.0	0.9	3.4	354.8	7.2	554.5	0.1	560.7	0.2	560.9
1984	0.0	6.1	1.1	104.8	94.4	0.9	3.7	370.7	6.8	582.4	0.1	588.6	0.3	588.9
1985	**0.0**	**5.5**	**1.1**	**105.0**	**91.5**	**0.6**	**3.4**	**375.1**	**5.9**	**582.7**	**0.2**	**588.4**	**0.4**	**588.8**
1986	0.0	5.4	1.3	111.3	100.1	0.5	3.3	396.3	3.0	615.7	0.2	621.4	0.5	621.8
1987	0.0	6.3	1.1	122.0	111.2	0.4	3.8	411.4	1.9	651.7	0.2	658.2	0.4	658.6
1988	0.0	7.1	1.1	132.5	114.6	0.4	3.6	430.9	2.1	685.2	0.2	692.5	0.5	692.9
1989	0.0	7.2	1.1	131.6	98.5	0.4	3.7	429.8	3.2	668.3	0.2	675.8	0.5	676.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 80. Estimates of Energy Input at Electric Utilities, 1960-1989, Georgia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**2,608**	**0**	**2,608**	**25**	**39**	**1**	**0**	**40**	**0**	**2,243**	**0**	**0**	
1961	2,759	0	2,759	16	75	3	0	77	0	2,228	0	0	
1962	2,600	0	2,600	16	33	1	0	34	0	2,498	0	0	
1963	3,801	0	3,801	3	41	2	0	43	0	2,870	0	0	
1964	4,105	0	4,105	3	54	2	0	57	0	4,246	0	0	
1965	**5,291**	**0**	**5,291**	**1**	**52**	**2**	**0**	**54**	**0**	**3,170**	**0**	**0**	
1966	6,102	0	6,102	*	33	1	0	34	0	3,273	0	0	
1967	5,788	0	5,788	9	110	4	0	114	0	3,636	0	0	
1968	7,135	0	7,135	16	391	15	0	406	0	3,088	0	0	
1969	7,542	0	7,542	35	476	18	0	493	0	3,054	0	0	
1970	**7,498**	**0**	**7,498**	**59**	**1,542**	**58**	**0**	**1,600**	**0**	**2,461**	**0**	**0**	
1971	8,857	0	8,857	63	1,861	518	0	2,378	0	3,247	0	0	
1972	10,625	0	10,625	38	3,916	1,033	0	4,948	0	3,330	0	0	
1973	10,854	0	10,854	34	3,891	2,577	0	6,469	0	4,178	0	0	
1974	11,642	0	11,642	43	4,563	3,266	0	7,829	44	3,605	0	0	
1975	**12,656**	**0**	**12,656**	**40**	**4,059**	**1,077**	**0**	**5,136**	**3,093**	**4,278**	**0**	**0**	
1976	14,043	0	14,043	5	6,833	2,035	0	8,868	4,134	4,374	0	0	
1977	16,857	0	16,857	6	6,250	2,414	0	8,664	3,713	3,983	0	0	
1978	17,631	0	17,631	6	5,334	1,283	0	6,616	4,277	3,702	0	0	
1979	19,171	0	19,171	3	2,350	219	0	2,569	5,095	4,374	0	0	
1980	**21,191**	**0**	**21,191**	**4**	**670**	**415**	**0**	**1,085**	**8,436**	**4,369**	**0**	**0**	
1981	21,941	0	21,941	3	476	372	0	848	7,235	2,274	0	0	
1982	21,195	0	21,195	2	89	259	0	349	6,606	3,598	0	0	
1983	22,778	0	22,778	2	65	215	0	280	7,774	4,065	0	0	
1984	26,455	0	26,455	1	32	169	0	201	5,472	4,083	0	0	
1985	**28,285**	**0**	**28,285**	**1**	**57**	**235**	**0**	**292**	**10,130**	**2,772**	**0**	**0**	
1986	26,652	0	26,652	6	356	169	0	525	7,238	2,097	0	0	
1987	27,130	0	27,130	1	207	154	0	361	15,259	3,121	0	0	
1988	26,513	0	26,513	2	180	315	0	494	15,149	2,011	0	0	
1989	25,839	0	25,839	1	27	318	0	346	24,961	3,874	0	0	
	Trillion Btu												
1960	**65.3**	**0.0**	**65.3**	**26.2**	**0.2**	*	**0.0**	**0.3**	**0.0**	**24.1**	**0.0**	**0.0**	**115.9**
1961	69.5	0.0	69.5	17.0	0.5	*	0.0	0.5	0.0	23.7	0.0	0.0	110.7
1962	66.0	0.0	66.0	16.9	0.2	*	0.0	0.2	0.0	26.4	0.0	0.0	109.4
1963	94.6	0.0	94.6	3.0	0.3	*	0.0	0.3	0.0	30.1	0.0	0.0	127.9
1964	101.5	0.0	101.5	2.7	0.3	*	0.0	0.4	0.0	44.4	0.0	0.0	149.0
1965	**131.9**	**0.0**	**131.9**	**0.9**	**0.3**	*	**0.0**	**0.3**	**0.0**	**33.1**	**0.0**	**0.0**	**166.3**
1966	150.1	0.0	150.1	0.5	0.2	*	0.0	0.2	0.0	34.1	0.0	0.0	184.9
1967	141.2	0.0	141.2	9.2	0.7	*	0.0	0.7	0.0	37.9	0.0	0.0	189.1
1968	175.3	0.0	175.3	17.1	2.5	0.1	0.0	2.5	0.0	32.1	0.0	0.0	227.1
1969	184.8	0.0	184.8	36.3	3.0	0.1	0.0	3.1	0.0	31.9	0.0	0.0	256.1
1970	**178.1**	**0.0**	**178.1**	**60.5**	**9.7**	**0.3**	**0.0**	**10.0**	**0.0**	**25.8**	**0.0**	**0.0**	**274.5**
1971	206.2	0.0	206.2	65.4	11.7	3.0	0.0	14.7	0.0	34.0	0.0	0.0	320.4
1972	250.2	0.0	250.2	39.7	24.6	6.0	0.0	30.6	0.0	34.6	0.0	0.0	355.0
1973	259.9	0.0	259.9	35.4	24.5	15.0	0.0	39.5	0.0	43.4	0.0	0.0	378.3
1974	275.5	0.0	275.5	44.3	28.7	19.0	0.0	47.7	0.5	37.6	0.0	0.0	405.7
1975	**300.6**	**0.0**	**300.6**	**41.5**	**25.5**	**6.3**	**0.0**	**31.8**	**34.1**	**44.5**	**0.0**	**0.0**	**452.4**
1976	333.8	0.0	333.8	4.8	43.0	11.9	0.0	54.8	45.7	45.4	0.0	0.0	484.4
1977	399.7	0.0	399.7	6.2	39.3	14.1	0.0	53.4	40.0	41.6	0.0	0.0	540.8
1978	418.7	0.0	418.7	6.0	33.5	7.5	0.0	41.0	46.8	38.4	0.0	0.0	550.9
1979	455.6	0.0	455.6	3.3	14.8	1.3	0.0	16.0	55.4	45.3	0.0	0.0	575.7
1980	**504.5**	**0.0**	**504.5**	**3.8**	**4.2**	**2.4**	**0.0**	**6.6**	**92.0**	**45.4**	**0.0**	**0.0**	**652.3**
1981	524.6	0.0	524.6	2.9	3.0	2.2	0.0	5.2	79.8	23.8	0.0	0.0	636.2
1982	508.5	0.0	508.5	1.6	0.6	1.5	0.0	2.1	73.1	37.6	0.0	0.0	622.9
1983	549.6	0.0	549.6	1.7	0.4	1.3	0.0	1.7	84.8	42.8	0.0	0.0	680.5
1984	641.6	0.0	641.6	0.6	0.2	1.0	0.0	1.2	59.3	42.2	0.0	0.0	744.8
1985	**685.7**	**0.0**	**685.7**	**0.9**	**0.4**	**1.4**	**0.0**	**1.7**	**109.5**	**28.7**	**0.0**	**0.0**	**826.5**
1986	647.4	0.0	647.4	5.9	2.2	1.0	0.0	3.2	78.2	21.5	0.0	0.0	756.3
1987	660.6	0.0	660.6	0.8	1.3	0.9	0.0	2.2	164.4	32.0	0.0	0.0	860.1
1988	645.5	0.0	645.5	1.6	1.1	1.8	0.0	3.0	162.8	20.6	0.0	0.0	833.4
1989	625.3	0.0	625.3	0.7	0.2	1.9	0.0	2.0	267.7	40.0	0.0	0.0	935.7

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 81. Energy Consumption Estimates by Source, 1960-1989, Hawaii

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**0**	**0**	**29**	**2,640**	**886**	**4,321**	**91**	**112**	**38**	**3,429**	**4,766**	**553**	**16,864**	**0**	**27**	**0**	**0**	**0**	
1961	0	0	210	3,068	1,663	4,856	69	140	37	3,546	5,926	578	20,094	0	24	0	0	0	
1962	0	0	183	1,852	1,637	4,777	55	172	91	3,708	5,974	591	19,040	0	20	0	0	0	
1963	0	0	169	1,100	1,362	6,118	49	232	91	3,756	6,431	638	19,946	0	23	0	0	0	
1964	0	0	221	539	1,761	6,886	50	257	95	3,861	6,965	664	21,298	0	115	0	0	0	
1965	**0**	**0**	**306**	**613**	**1,612**	**7,618**	**49**	**219**	**94**	**4,082**	**7,230**	**684**	**22,507**	**0**	**105**	**0**	**0**	**0**	
1966	0	0	259	889	1,378	9,475	37	242	98	4,294	7,801	668	25,140	0	112	0	2	0	
1967	0	0	211	466	1,208	12,053	33	285	85	4,526	8,818	636	28,321	0	108	0	0	0	
1968	0	0	260	238	1,420	13,873	27	298	94	4,882	9,738	653	31,483	0	94	0	30	0	
1969	0	0	278	162	1,601	14,105	29	912	70	5,176	10,056	666	33,054	0	100	0	29	0	
1970	**0**	**0**	**377**	**133**	**1,695**	**14,273**	**153**	**938**	**71**	**5,691**	**10,154**	**643**	**34,129**	**0**	**108**	**0**	**24**	**0**	
1971	0	0	288	141	1,709	16,302	80	963	79	5,872	10,701	618	36,754	0	89	0	15	0	
1972	0	0	325	143	1,776	16,244	52	945	85	6,202	11,338	645	37,755	0	91	0	18	0	
1973	0	0	332	132	1,837	16,511	41	942	85	6,608	11,575	723	38,785	0	95	0	22	0	
1974	0	0	257	123	1,951	14,887	75	966	81	6,543	11,122	693	36,698	0	92	0	30	0	
1975	**0**	**0**	**379**	**116**	**1,948**	**14,849**	**76**	**872**	**104**	**6,766**	**11,255**	**693**	**37,056**	**0**	**89**	**0**	**25**	**0**	
1976	0	0	400	130	2,337	14,202	129	1,036	116	7,029	11,871	739	37,990	0	93	0	29	0	
1977	0	0	332	147	2,865	14,875	169	877	94	7,406	12,695	789	40,249	0	86	0	26	0	
1978	0	0	292	141	3,567	14,861	146	702	101	7,639	12,556	846	40,851	0	84	0	0	0	
1979	0	0	264	152	6,567	15,276	40	1,583	106	7,506	12,167	824	44,486	0	90	0	0	0	
1980	**0**	**3**	**285**	**199**	**5,987**	**14,116**	**9**	**1,573**	**94**	**7,231**	**13,196**	**815**	**43,505**	**0**	**86**	**0**	**0**	**0**	
1981	0	3	187	183	6,021	10,028	0	1,337	90	7,185	13,160	530	38,721	0	80	0	15	0	
1982	47	3	172	137	4,545	7,472	0	2,104	82	7,261	13,292	572	35,637	0	90	0	26	0	
1983	42	3	259	156	2,326	11,271	1	2,102	86	7,240	12,148	707	36,297	0	84	0	28	0	
1984	38	2	205	146	2,701	12,946	2	137	92	7,528	12,459	716	36,932	0	82	21	28	0	
1985	**46**	**2**	**308**	**155**	**4,611**	**13,260**	**2**	**150**	**86**	**7,592**	**12,515**	**671**	**39,351**	**0**	**86**	**19**	**25**	**0**	
1986	16	2	272	279	4,584	10,176	1	160	84	7,878	14,268	1,203	38,905	0	78	18	0	0	
1987	63	3	397	249	4,059	11,481	1	177	95	8,167	13,377	1,468	39,470	0	82	13	0	0	
1988	50	3	351	281	5,914	11,972	1	190	91	8,487	15,289	1,921	44,500	0	81	16	0	0	
1989	32	3	296	287	5,685	13,239	1	185	94	8,750	19,693	2,004	50,232	0	89	14	11	0	
									Trillion Btu										
1960	**0.0**	**0.0**	**0.2**	**13.3**	**5.2**	**23.5**	**0.5**	**0.4**	**0.2**	**18.0**	**30.0**	**3.3**	**94.7**	**0.0**	**0.3**	**0.0**	**0.0**	**0.0**	**95.0**
1961	0.0	0.0	1.4	15.5	9.7	26.5	0.4	0.6	0.2	18.6	37.3	3.5	113.6	0.0	0.3	0.0	0.0	0.0	113.9
1962	0.0	0.0	1.2	9.4	9.5	26.0	0.3	0.7	0.5	19.5	37.6	3.6	108.3	0.0	0.2	0.0	0.0	0.0	108.5
1963	0.0	0.0	1.1	5.6	7.9	33.6	0.3	0.9	0.5	19.7	40.4	3.8	114.0	0.0	0.2	0.0	0.0	0.0	114.2
1964	0.0	0.0	1.5	2.7	10.3	37.9	0.3	1.0	0.6	20.3	43.8	4.0	122.3	0.0	1.2	0.0	0.0	0.0	123.5
1965	**0.0**	**0.0**	**2.0**	**3.1**	**9.4**	**42.3**	**0.3**	**0.9**	**0.6**	**21.4**	**45.5**	**4.1**	**129.5**	**0.0**	**1.1**	**0.0**	**0.0**	**0.0**	**130.6**
1966	0.0	0.0	1.7	4.5	8.0	52.8	0.2	1.0	0.6	22.6	49.0	4.0	144.4	0.0	1.2	0.0	*	0.0	145.6
1967	0.0	0.0	1.4	2.4	7.0	67.3	0.2	1.1	0.5	23.8	55.4	3.8	162.9	0.0	1.1	0.0	0.0	0.0	164.0
1968	0.0	0.0	1.7	1.2	8.3	77.5	0.2	1.1	0.6	25.6	61.2	3.9	181.3	0.0	1.0	0.0	0.3	0.0	182.6
1969	0.0	0.0	1.8	0.8	9.3	78.9	0.2	3.5	0.4	27.2	63.2	4.0	189.4	0.0	1.0	0.0	0.3	0.0	190.7
1970	**0.0**	**0.0**	**2.5**	**0.7**	**9.9**	**80.1**	**0.9**	**3.5**	**0.4**	**29.9**	**63.8**	**3.9**	**195.5**	**0.0**	**1.1**	**0.0**	**0.3**	**0.0**	**196.9**
1971	0.0	0.0	1.9	0.7	10.0	91.5	0.5	3.6	0.5	30.8	67.3	3.7	210.5	0.0	0.9	0.0	0.2	0.0	211.6
1972	0.0	0.0	2.2	0.7	10.3	91.3	0.3	3.6	0.5	32.6	71.3	3.9	216.6	0.0	0.9	0.0	0.2	0.0	217.7
1973	0.0	0.0	2.2	0.7	10.7	92.9	0.2	3.5	0.5	34.7	72.8	4.3	222.5	0.0	1.0	0.0	0.2	0.0	223.7
1974	0.0	0.0	1.7	0.6	11.4	83.6	0.4	3.6	0.5	34.4	69.9	4.2	210.3	0.0	1.0	0.0	0.3	0.0	211.6
1975	**0.0**	**0.0**	**2.5**	**0.6**	**11.3**	**83.5**	**0.4**	**3.2**	**0.6**	**35.5**	**70.8**	**4.2**	**212.7**	**0.0**	**0.9**	**0.0**	**0.3**	**0.0**	**213.9**
1976	0.0	0.0	2.7	0.7	13.6	79.8	0.7	3.8	0.7	36.9	74.6	4.4	218.0	0.0	1.0	0.0	0.3	0.0	219.3
1977	0.0	0.0	2.2	0.7	16.7	83.6	1.0	3.2	0.6	38.9	79.8	4.7	231.5	0.0	0.9	0.0	0.3	0.0	232.6
1978	0.0	0.0	1.9	0.7	20.8	83.6	0.8	2.6	0.6	40.1	78.9	5.1	235.2	0.0	0.9	0.0	0.0	0.0	236.0
1979	0.0	0.0	1.8	0.8	38.3	85.9	0.2	5.8	0.6	39.4	76.5	5.0	254.3	0.0	0.9	0.0	0.0	0.0	255.2
1980	**0.0**	**3.0**	**1.9**	**1.0**	**34.9**	**79.2**	**0.1**	**5.8**	**0.6**	**38.0**	**83.0**	**4.9**	**249.3**	**0.0**	**0.9**	**0.0**	**0.0**	**0.0**	**253.2**
1981	0.0	2.8	1.2	0.9	35.1	56.2	0.0	4.9	0.5	37.7	82.7	3.3	222.6	0.0	0.8	0.0	0.2	0.0	226.4
1982	1.1	2.8	1.1	0.7	26.5	41.6	0.0	7.6	0.5	38.1	83.6	3.6	203.3	0.0	0.9	0.0	0.3	0.0	208.5
1983	1.0	2.7	1.7	0.8	13.6	62.5	*	7.6	0.5	38.0	76.4	4.3	205.4	0.0	0.9	0.0	0.3	0.0	210.3
1984	0.9	2.4	1.4	0.7	15.7	72.6	*	0.5	0.6	39.5	78.3	4.4	213.8	0.0	0.8	0.4	0.3	0.0	218.7
1985	**1.1**	**2.7**	**2.0**	**0.8**	**26.9**	**74.4**	*****	**0.5**	**0.5**	**39.9**	**78.7**	**4.2**	**227.9**	**0.0**	**0.9**	**0.4**	**0.3**	**0.0**	**233.3**
1986	0.4	2.7	1.8	1.4	26.7	57.0	*	0.6	0.5	41.4	89.7	7.6	226.7	0.0	0.8	0.4	0.0	0.0	230.9
1987	1.6	2.8	2.6	1.3	23.6	64.4	*	0.6	0.6	42.9	84.1	9.0	229.2	0.0	0.8	0.3	0.0	0.0	234.7
1988	1.3	2.8	2.3	1.4	34.5	67.2	*	0.7	0.6	44.6	96.1	11.7	259.0	0.0	0.8	0.3	0.0	0.0	264.3
1989	0.8	2.9	2.0	1.4	33.1	74.4	*	0.7	0.6	46.0	123.8	12.1	294.0	0.0	0.9	0.3	0.1	0.0	299.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 82. Residential Energy Consumption Estimates, 1960-1989, Hawaii

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**0**	**0**	**0**	**0**	*	**0**	**57**	**58**	**514**	**1,550**		
1961	0	0	0	0	*	0	75	76	576	1,536		
1962	0	0	0	0	*	0	101	101	643	1,573		
1963	0	0	0	0	*	0	97	97	732	1,769		
1964	0	0	0	0	1	0	103	103	788	1,909		
1965	**0**	**0**	**0**	**0**	**1**	**0**	**113**	**114**	**861**	**1,976**		
1966	0	0	0	0	1	0	128	129	915	2,098		
1967	0	0	0	0	1	0	172	173	993	2,355		
1968	0	0	0	0	1	0	196	196	1,101	2,504		
1969	0	0	0	0	1	0	414	415	1,187	2,724		
1970	**0**	**0**	**0**	**0**	**1**	**0**	**447**	**449**	**1,285**	**3,021**		
1971	0	0	0	0	1	0	526	527	1,391	3,255		
1972	0	0	0	0	1	0	480	481	1,511	3,710		
1973	0	0	0	0	1	0	496	497	1,599	3,723		
1974	0	0	0	0	1	0	480	481	1,655	3,762		
1975	**0**	**0**	**0**	**0**	**1**	**0**	**320**	**321**	**1,663**	**3,732**		
1976	0	0	0	0	1	0	503	504	1,736	3,954		
1977	0	0	0	0	1	0	529	529	1,760	4,047		
1978	0	0	0	0	1	0	497	498	1,779	4,064		
1979	0	0	0	0	2	0	741	743	1,846	4,064		
1980	**0**	**0**	**0**	**1**	**1**	**0**	**430**	**431**	**1,841**	**4,103**		
1981	0	0	0	1	1	0	406	407	1,924	4,008		
1982	0	0	0	1	0	0	383	383	1,842	3,712		
1983	0	0	0	1	1	0	452	453	1,854	3,808		
1984	0	0	0	1	1	0	88	89	1,836	3,917		
1985	**0**	**0**	**0**	**1**	*	**0**	**98**	**98**	**1,879**	**3,928**		
1986	0	0	0	1	1	0	106	107	1,962	3,998		
1987	0	0	0	1	1	0	134	135	2,073	4,304		
1988	0	0	0	1	2	0	142	144	2,151	4,539		
1989	0	0	0	1	*	0	139	139	2,242	4,833		
	Trillion Btu											
1960	**0.0**	**0.0**	**0.0**	**0.0**	*	**0.0**	**0.2**	**0.2**	**1.8**	**2.0**	**5.3**	**7.3**
1961	0.0	0.0	0.0	0.0	*	0.0	0.3	0.3	2.0	2.3	5.2	7.5
1962	0.0	0.0	0.0	0.0	*	0.0	0.4	0.4	2.2	2.6	5.4	8.0
1963	0.0	0.0	0.0	0.0	*	0.0	0.4	0.4	2.5	2.9	6.0	8.9
1964	0.0	0.0	0.0	0.0	*	0.0	0.4	0.4	2.7	3.1	6.5	9.6
1965	**0.0**	**0.0**	**0.0**	**0.0**	*	**0.0**	**0.5**	**0.5**	**2.9**	**3.4**	**6.7**	**10.1**
1966	0.0	0.0	0.0	0.0	*	0.0	0.5	0.5	3.1	3.6	7.2	10.8
1967	0.0	0.0	0.0	0.0	*	0.0	0.7	0.7	3.4	4.1	8.0	12.1
1968	0.0	0.0	0.0	0.0	*	0.0	0.7	0.8	3.8	4.5	8.5	13.1
1969	0.0	0.0	0.0	0.0	*	0.0	1.6	1.6	4.1	5.6	9.3	14.9
1970	**0.0**	**0.0**	**0.0**	**0.0**	*	**0.0**	**1.7**	**1.7**	**4.4**	**6.1**	**10.3**	**16.4**
1971	0.0	0.0	0.0	0.0	*	0.0	2.0	2.0	4.7	6.7	11.1	17.8
1972	0.0	0.0	0.0	0.0	*	0.0	1.8	1.8	5.2	7.0	12.7	19.6
1973	0.0	0.0	0.0	0.0	*	0.0	1.9	1.9	5.5	7.3	12.7	20.0
1974	0.0	0.0	0.0	0.0	*	0.0	1.8	1.8	5.6	7.4	12.8	20.3
1975	**0.0**	**0.0**	**0.0**	**0.0**	*	**0.0**	**1.2**	**1.2**	**5.7**	**6.9**	**12.7**	**19.6**
1976	0.0	0.0	0.0	0.0	*	0.0	1.9	1.9	5.9	7.8	13.5	21.3
1977	0.0	0.0	0.0	0.0	*	0.0	1.9	1.9	6.0	8.0	13.8	21.8
1978	0.0	0.0	0.0	0.0	*	0.0	1.8	1.8	6.1	7.9	13.9	21.8
1979	0.0	0.0	0.0	0.0	*	0.0	2.7	2.7	6.3	9.0	13.9	22.9
1980	**0.0**	**0.0**	**0.0**	**1.4**	*	**0.0**	**1.6**	**1.6**	**6.3**	**9.2**	**14.0**	**23.2**
1981	0.0	0.0	0.0	1.2	*	0.0	1.5	1.5	6.6	9.3	13.7	23.0
1982	0.0	0.0	0.0	1.2	0.0	0.0	1.4	1.4	6.3	8.9	12.7	21.5
1983	0.0	0.0	0.0	1.1	*	0.0	1.6	1.6	6.3	9.1	13.0	22.1
1984	0.0	0.0	0.0	1.1	*	0.0	0.3	0.3	6.3	7.7	13.4	21.0
1985	**0.0**	**0.0**	**0.0**	**0.7**	*	**0.0**	**0.4**	**0.4**	**6.4**	**7.4**	**13.4**	**20.8**
1986	0.0	0.0	0.0	0.6	*	0.0	0.4	0.4	6.7	7.7	13.6	21.4
1987	0.0	0.0	0.0	0.6	*	0.0	0.5	0.5	7.1	8.2	14.7	22.9
1988	0.0	0.0	0.0	0.6	*	0.0	0.5	0.5	7.3	8.5	15.5	24.0
1989	0.0	0.0	0.0	0.6	*	0.0	0.5	0.5	7.7	8.8	16.5	25.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 83. Commercial Energy Consumption Estimates, 1960–1989, Hawaii

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**0**	**0**	**0**	**0**	**48**	**23**	**10**	**55**	**41**	**177**	**306**	**921**		
1961	0	0	0	0	56	43	13	55	44	211	338	902		
1962	0	0	0	0	52	41	18	57	36	205	374	915		
1963	0	0	0	0	59	35	17	56	35	202	422	1,019		
1964	0	0	0	0	67	46	18	67	34	233	458	1,108		
1965	**0**	**0**	**0**	**0**	**71**	**39**	**20**	**59**	**31**	**220**	**495**	**1,136**		
1966	0	0	0	0	79	34	23	75	34	245	537	1,232		
1967	0	0	0	0	72	33	30	78	30	243	581	1,379		
1968	0	0	0	0	89	21	35	104	37	286	651	1,479		
1969	0	0	0	0	123	24	73	121	39	379	695	1,595		
1970	**0**	**0**	**0**	**0**	**174**	**87**	**79**	**133**	**38**	**511**	**771**	**1,813**		
1971	0	0	0	0	142	47	93	80	32	393	818	1,915		
1972	0	0	0	0	130	35	85	83	32	365	916	2,249		
1973	0	0	0	0	129	25	88	96	32	370	1,017	2,368		
1974	0	0	0	0	94	36	85	63	23	301	1,052	2,392		
1975	**0**	**0**	**0**	**0**	**84**	**45**	**57**	**98**	**15**	**299**	**1,109**	**2,489**		
1976	0	0	0	0	92	93	89	93	22	389	1,187	2,704		
1977	0	0	0	0	122	121	93	96	31	463	1,278	2,938		
1978	0	0	0	0	125	108	88	101	28	449	1,344	3,070		
1979	0	0	0	0	263	6	131	100	16	516	1,413	3,110		
1980	**0**	**0**	**0**	**2**	**398**	**0**	**76**	**54**	**25**	**552**	**1,462**	**3,259**		
1981	0	0	0	2	178	0	72	59	54	363	1,451	3,023		
1982	0	0	0	2	55	0	68	58	106	287	1,408	2,837		
1983	0	0	0	2	99	1	80	49	9	238	1,441	2,958		
1984	0	0	0	1	111	2	15	43	9	181	1,598	3,407		
1985	**0**	**0**	**0**	**2**	**136**	**1**	**17**	**47**	**7**	**208**	**1,612**	**3,371**		
1986	0	0	0	2	181	1	19	46	52	298	1,831	3,730		
1987	0	0	0	2	483	1	24	44	527	1,079	1,942	4,032		
1988	0	0	0	2	604	*	25	53	1,270	1,953	2,072	4,372		
1989	0	0	0	2	495	*	24	52	3,824	4,396	2,152	4,639		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**0.0**	**0.0**	**0.0**	**0.0**	**0.3**	**0.1**	*	**0.3**	**0.3**	**1.0**	**1.0**	**2.0**	**3.1**	**5.2**
1961	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.3	0.3	1.2	1.2	2.3	3.1	5.4
1962	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.3	0.2	1.1	1.3	2.4	3.1	5.5
1963	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.3	0.2	1.1	1.4	2.6	3.5	6.0
1964	0.0	0.0	0.0	0.0	0.4	0.3	0.1	0.4	0.2	1.3	1.6	2.9	3.8	6.6
1965	**0.0**	**0.0**	**0.0**	**0.0**	**0.4**	**0.2**	**0.1**	**0.3**	**0.2**	**1.2**	**1.7**	**2.9**	**3.9**	**6.8**
1966	0.0	0.0	0.0	0.0	0.5	0.2	0.1	0.4	0.2	1.4	1.8	3.2	4.2	7.4
1967	0.0	0.0	0.0	0.0	0.4	0.2	0.1	0.4	0.2	1.3	2.0	3.3	4.7	8.0
1968	0.0	0.0	0.0	0.0	0.5	0.1	0.1	0.5	0.2	1.6	2.2	3.8	5.0	8.8
1969	0.0	0.0	0.0	0.0	0.7	0.1	0.3	0.6	0.2	2.0	2.4	4.4	5.4	9.8
1970	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**0.5**	**0.3**	**0.7**	**0.2**	**2.7**	**2.6**	**5.4**	**6.2**	**11.6**
1971	0.0	0.0	0.0	0.0	0.8	0.3	0.4	0.4	0.2	2.1	2.8	4.9	6.5	11.4
1972	0.0	0.0	0.0	0.0	0.8	0.2	0.3	0.4	0.2	1.9	3.1	5.0	7.7	12.7
1973	0.0	0.0	0.0	0.0	0.7	0.1	0.3	0.5	0.2	1.9	3.5	5.4	8.1	13.5
1974	0.0	0.0	0.0	0.0	0.5	0.2	0.3	0.3	0.1	1.5	3.6	5.1	8.2	13.3
1975	**0.0**	**0.0**	**0.0**	**0.0**	**0.5**	**0.3**	**0.2**	**0.5**	**0.1**	**1.6**	**3.8**	**5.4**	**8.5**	**13.8**
1976	0.0	0.0	0.0	0.0	0.5	0.5	0.3	0.5	0.1	2.0	4.1	6.1	9.2	15.3
1977	0.0	0.0	0.0	0.0	0.7	0.7	0.3	0.5	0.2	2.4	4.4	6.8	10.0	16.8
1978	0.0	0.0	0.0	0.0	0.7	0.6	0.3	0.5	0.2	2.4	4.6	7.0	10.5	17.4
1979	0.0	0.0	0.0	0.0	1.5	*	0.5	0.5	0.1	2.7	4.8	7.5	10.6	18.1
1980	**0.0**	**0.0**	**0.0**	**1.7**	**2.3**	**0.0**	**0.3**	**0.3**	**0.2**	**3.0**	**5.0**	**9.7**	**11.1**	**20.8**
1981	0.0	0.0	0.0	1.5	1.0	0.0	0.3	0.3	0.3	1.9	5.0	8.4	10.3	18.8
1982	0.0	0.0	0.0	1.6	0.3	0.0	0.2	0.3	0.7	1.5	4.8	7.9	9.7	17.6
1983	0.0	0.0	0.0	1.6	0.6	*	0.3	0.3	0.1	1.2	4.9	7.7	10.1	17.8
1984	0.0	0.0	0.0	1.4	0.6	*	0.1	0.2	0.1	1.0	5.5	7.8	11.6	19.4
1985	**0.0**	**0.0**	**0.0**	**2.0**	**0.8**	*	**0.1**	**0.2**	*	**1.2**	**5.5**	**8.7**	**11.5**	**20.2**
1986	0.0	0.0	0.0	2.0	1.1	*	0.1	0.2	0.3	1.7	6.2	10.0	12.7	22.7
1987	0.0	0.0	0.0	2.2	2.8	*	0.1	0.2	3.3	6.5	6.6	15.2	13.8	29.0
1988	0.0	0.0	0.0	2.2	3.5	*	0.1	0.3	8.0	11.9	7.1	21.2	14.9	36.1
1989	0.0	0.0	0.0	2.3	2.9	*	0.1	0.3	24.0	27.3	7.3	36.9	15.8	52.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 84. Industrial Energy Consumption Estimates, 1960–1989, Hawaii

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**0**	**0**	**0**	**0**	**29**	**554**	**68**	**43**	**18**	**83**	**1,038**	**553**	**2,386**	**0**	**465**	**1,403**		
1961	0	0	0	0	210	617	27	49	18	92	1,519	578	3,109	0	639	1,704		
1962	0	0	0	0	183	565	14	53	22	98	1,656	591	3,183	0	803	1,965		
1963	0	0	0	0	169	484	14	117	22	88	1,598	638	3,131	0	926	2,238		
1964	0	0	0	0	221	508	4	133	23	81	1,560	664	3,194	87	1,041	2,521		
1965	**0**	**0**	**0**	**0**	**306**	**635**	**10**	**82**	**21**	**76**	**1,712**	**684**	**3,526**	**83**	**1,096**	**2,516**		
1966	0	0	0	0	259	655	3	85	22	73	1,776	668	3,542	85	1,189	2,727		
1967	0	0	0	0	211	641	0	70	21	76	2,390	636	4,046	85	1,146	2,716		
1968	0	0	0	0	260	624	6	58	23	61	2,001	653	3,686	71	1,380	3,137		
1969	0	0	0	0	278	775	5	407	4	54	1,628	666	3,815	76	1,564	3,589		
1970	**0**	**0**	**0**	**0**	**377**	**701**	**66**	**386**	**4**	**49**	**1,671**	**643**	**3,898**	**86**	**1,720**	**4,044**		
1971	0	0	0	0	288	644	33	325	20	60	1,440	618	3,428	69	1,979	4,631		
1972	0	0	0	0	325	655	17	359	21	77	1,733	645	3,832	69	2,160	5,305		
1973	0	0	0	0	332	718	16	339	21	61	1,627	723	3,837	75	2,277	5,300		
1974	0	0	0	0	257	579	39	379	20	68	1,591	693	3,625	74	2,438	5,541		
1975	**0**	**0**	**0**	**0**	**379**	**603**	**31**	**472**	**30**	**53**	**1,346**	**693**	**3,607**	**71**	**2,538**	**5,696**		
1976	0	0	0	0	400	549	36	424	33	54	1,266	739	3,500	71	2,664	6,067		
1977	0	0	0	0	332	641	48	234	20	53	1,396	789	3,512	66	2,757	6,339		
1978	0	0	0	0	292	865	38	78	21	60	1,081	846	3,280	63	2,835	6,476		
1979	0	0	0	0	264	1,620	34	703	22	48	904	824	4,419	69	2,940	6,472		
1980	**0**	**0**	**0**	**0**	**285**	**1,369**	**9**	**1,041**	**20**	**49**	**1,491**	**815**	**5,078**	**67**	**3,028**	**6,749**		
1981	0	0	0	0	187	1,380	0	804	19	51	1,527	530	4,498	67	3,270	6,811		
1982	47	0	47	0	172	1,296	0	1,612	17	52	2,136	572	5,857	67	3,248	6,547		
1983	42	0	42	0	259	332	*	1,523	18	38	449	707	3,327	67	3,286	6,748		
1984	38	0	38	0	205	375	*	25	19	52	427	716	1,820	67	3,169	6,756		
1985	**46**	**0**	**46**	**0**	**308**	**471**	*	**29**	**18**	**104**	**437**	**671**	**2,038**	**67**	**3,143**	**6,571**		
1986	16	0	16	0	272	541	*	30	18	101	1,502	1,203	3,667	67	3,239	6,600		
1987	63	0	63	0	397	776	*	13	20	108	547	1,468	3,330	67	3 284	6,819		
1988	50	0	50	0	351	768	*	15	19	110	683	1,921	3,869	67	3,495	7,375		
1989	32	0	32	0	296	514	*	15	20	129	1,710	2,004	4,687	67	3,576	7,709		
								Trillion Btu										
1960	**0.0**	**0.0**	**0.0**	**0.0**	**0.2**	**3.2**	**0.4**	**0.2**	**0.1**	**0.4**	**6.5**	**3.3**	**14.4**	**0.0**	**1.6**	**16.0**	**4.8**	**20.7**
1961	0.0	0.0	0.0	0.0	1.4	3.6	0.2	0.2	0.1	0.5	9.5	3.5	18.9	0.0	2.2	21.1	5.8	26.9
1962	0.0	0.0	0.0	0.0	1.2	3.3	0.1	0.2	0.1	0.5	10.4	3.6	19.4	0.0	2.7	22.2	6.7	28.9
1963	0.0	0.0	0.0	0.0	1.1	2.8	0.1	0.5	0.1	0.5	10.0	3.8	19.0	0.0	3.2	22.1	7.6	29.8
1964	0.0	0.0	0.0	0.0	1.5	3.0	*	0.5	0.1	0.4	9.8	4.0	19.3	0.9	3.6	23.8	8.6	32.4
1965	**0.0**	**0.0**	**0.0**	**0.0**	**2.0**	**3.7**	**0.1**	**0.3**	**0.1**	**0.4**	**10.8**	**4.1**	**21.5**	**0.9**	**3.7**	**26.1**	**8.6**	**34.7**
1966	0.0	0.0	0.0	0.0	1.7	3.8	*	0.3	0.1	0.4	11.2	4.0	21.6	0.9	4.1	26.5	9.3	35.8
1967	0.0	0.0	0.0	0.0	1.4	3.7	0.0	0.3	0.1	0.4	15.0	3.8	24.8	0.9	3.9	29.6	9.3	38.8
1968	0.0	0.0	0.0	0.0	1.7	3.6	*	0.2	0.1	0.3	12.6	3.9	22.6	0.7	4.7	28.0	10.7	38.7
1969	0.0	0.0	0.0	0.0	1.8	4.5	*	1.5	*	0.3	10.2	4.0	22.5	0.8	5.3	28.6	12.2	40.8
1970	**0.0**	**0.0**	**0.0**	**0.0**	**2.5**	**4.1**	**0.4**	**1.5**	*	**0.3**	**10.5**	**3.9**	**23.1**	**0.9**	**5.9**	**29.8**	**13.8**	**43.6**
1971	0.0	0.0	0.0	0.0	1.9	3.8	0.2	1.2	0.1	0.3	9.1	3.7	20.3	0.7	6.8	27.7	15.8	43.5
1972	0.0	0.0	0.0	0.0	2.2	3.8	0.1	1.3	0.1	0.4	10.9	3.9	22.7	0.7	7.4	30.8	18.1	48.9
1973	0.0	0.0	0.0	0.0	2.2	4.2	0.1	1.3	0.1	0.3	10.2	4.3	22.8	0.8	7.8	31.3	18.1	49.4
1974	0.0	0.0	0.0	0.0	1.7	3.4	0.2	1.4	0.1	0.4	10.0	4.2	21.4	0.8	8.3	30.4	18.9	49.4
1975	**0.0**	**0.0**	**0.0**	**0.0**	**2.5**	**3.5**	**0.2**	**1.8**	**0.2**	**0.3**	**8.5**	**4.2**	**21.0**	**0.7**	**8.7**	**30.4**	**19.4**	**49.9**
1976	0.0	0.0	0.0	0.0	2.7	3.2	0.2	1.6	0.2	0.3	8.0	4.4	20.5	0.7	9.1	30.3	20.7	51.0
1977	0.0	0.0	0.0	0.0	2.2	3.7	0.3	0.9	0.1	0.3	8.8	4.7	21.0	0.7	9.4	31.1	21.6	52.7
1978	0.0	0.0	0.0	0.0	1.9	5.0	0.2	0.3	0.1	0.3	6.8	5.1	19.8	0.7	9.7	30.1	22.1	52.2
1979	0.0	0.0	0.0	0.0	1.8	9.4	0.2	2.6	0.1	0.3	5.7	5.0	25.0	0.7	10.0	35.7	22.1	57.8
1980	**0.0**	**0.0**	**0.0**	**0.0**	**1.9**	**8.0**	**0.1**	**3.8**	**0.1**	**0.3**	**9.4**	**4.9**	**28.4**	**0.7**	**10.3**	**39.4**	**23.0**	**62.4**
1981	0.0	0.0	0.0	0.0	1.2	8.0	0.0	2.9	0.1	0.3	9.6	3.3	25.5	0.7	11.2	37.4	23.2	60.6
1982	1.1	0.0	1.1	0.0	1.1	7.6	0.0	5.8	0.1	0.3	13.4	3.6	31.9	0.7	11.1	44.8	22.3	67.1
1983	1.0	0.0	1.0	0.0	1.7	1.9	*	5.5	0.1	0.2	2.8	4.3	16.6	0.7	11.2	29.6	23.0	52.6
1984	0.9	0.0	0.9	0.0	1.4	2.2	*	0.1	0.1	0.3	2.7	4.4	11.1	0.7	10.8	23.5	23.1	46.6
1985	**1.1**	**0.0**	**1.1**	**0.0**	**2.0**	**2.7**	*	**0.1**	**0.1**	**0.5**	**2.7**	**4.2**	**12.5**	**0.7**	**10.7**	**25.0**	**22.4**	**47.4**
1986	0.4	0.0	0.4	0.0	1.8	3.1	*	0.1	0.1	0.5	9.4	7.6	22.8	0.7	11.1	34.9	22.5	57.4
1987	1.6	0.0	1.6	0.0	2.6	4.5	*	*	0.1	0.6	3.4	9.0	20.4	0.7	11.2	33.8	23.3	57.1
1988	1.3	0.0	1.3	0.0	2.3	4.5	*	0.1	0.1	0.6	4.3	11.7	23.5	0.7	11.9	37.4	25.2	62.6
1989	0.8	0.0	0.8	0.0	2.0	3.0	*	0.1	0.1	0.7	10.8	12.1	28.6	0.7	12.2	42.3	26.3	68.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates *since 1979 may be affected by the changing* data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and *solar thermal energy (except for small amounts* used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 85. Transportation Energy Consumption Estimates, 1960–1989, Hawaii

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**0**	**0**	**2,640**	**247**	**4,321**	**2**	**19**	**3,290**	**968**	**11,487**	**0**	**0**		
1961	0	0	3,068	948	4,856	2	19	3,400	1,351	13,645	0	0		
1962	0	0	1,852	975	4,777	0	68	3,552	953	12,177	0	0		
1963	0	0	1,100	765	6,118	1	68	3,612	1,030	12,694	0	0		
1964	0	0	539	1,127	6,886	3	72	3,713	1,226	13,564	0	0		
1965	**0**	**0**	**613**	**844**	**7,618**	**4**	**73**	**3,947**	**1,195**	**14,294**	**0**	**0**		
1966	0	0	889	577	9,475	5	76	4,146	1,380	16,548	0	0		
1967	0	0	466	426	12,053	12	64	4,372	1,525	18,918	0	0		
1968	0	0	238	629	13,873	10	71	4,717	2,297	21,834	0	0		
1969	0	0	162	618	14,105	18	66	5,000	2,393	22,363	0	0		
1970	**0**	**0**	**133**	**722**	**14,273**	**26**	**68**	**5,508**	**1,744**	**22,473**	**0**	**0**		
1971	0	0	141	821	16,302	20	60	5,732	1,791	24,867	0	0		
1972	0	0	143	723	16,244	21	64	6,043	1,284	24,522	0	0		
1973	0	0	132	743	16,511	20	64	6,451	1,376	25,296	0	0		
1974	0	0	123	925	14,887	23	61	6,412	775	23,206	0	0		
1975	**0**	**0**	**116**	**831**	**14,849**	**22**	**74**	**6,615**	**1,013**	**23,520**	**0**	**0**		
1976	0	0	130	1,248	14,202	20	83	6,883	1,144	23,710	0	0		
1977	0	0	147	1,552	14,875	22	74	7,257	1,477	25,405	0	0		
1978	0	0	141	1,801	14,861	39	80	7,479	1,580	25,980	0	0		
1979	0	0	152	3,887	15,276	9	84	7,358	1,248	28,013	0	0		
1980	**0**	**0**	**199**	**3,331**	**14,116**	**26**	**74**	**7,129**	**1,441**	**26,317**	**0**	**0**		
1981	0	0	183	3,683	10,028	56	71	7,075	1,231	22,326	0	0		
1982	0	0	137	2,589	7,472	41	65	7,151	1,060	18,516	0	0		
1983	0	0	156	1,248	11,271	47	68	7,153	1,461	21,403	0	0		
1984	0	0	146	1,388	12,946	9	73	7,433	1,703	23,696	0	0		
1985	**0**	**0**	**155**	**3,253**	**13,260**	**5**	**68**	**7,441**	**1,776**	**25,959**	**0**	**0**		
1986	0	0	279	3,038	10,176	5	66	7,730	1,964	23,259	0	0		
1987	0	0	249	1,729	11,481	6	75	8,015	1,176	22,731	0	0		
1988	0	0	281	3,267	11,972	8	72	8,324	1,566	25,489	0	0		
1989	0	0	287	3,279	13,239	8	74	8,569	1,904	27,360	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**0.0**	**0.0**	**13.3**	**1.4**	**23.5**	*****	**0.1**	**17.3**	**6.1**	**61.8**	**0.0**	**61.8**	**0.0**	**61.8**
1961	0.0	0.0	15.5	5.5	26.5	*	0.1	17.9	8.5	74.0	0.0	74.0	0.0	74.0
1962	0.0	0.0	9.4	5.7	26.0	0.0	0.4	18.7	6.0	66.1	0.0	66.1	0.0	66.1
1963	0.0	0.0	5.6	4.5	33.6	*	0.4	19.0	6.5	69.5	0.0	69.5	0.0	69.5
1964	0.0	0.0	2.7	6.6	37.9	*	0.4	19.5	7.7	74.8	0.0	74.8	0.0	74.8
1965	**0.0**	**0.0**	**3.1**	**4.9**	**42.3**	*****	**0.4**	**20.7**	**7.5**	**79.0**	**0.0**	**79.0**	**0.0**	**79.0**
1966	0.0	0.0	4.5	3.4	52.8	*	0.5	21.8	8.7	91.5	0.0	91.5	0.0	91.5
1967	0.0	0.0	2.4	2.5	67.3	*	0.4	23.0	9.6	105.1	0.0	105.1	0.0	105.1
1968	0.0	0.0	1.2	3.7	77.5	*	0.4	24.8	14.4	122.0	0.0	122.0	0.0	122.0
1969	0.0	0.0	0.8	3.6	78.9	0.1	0.4	26.3	15.0	125.1	0.0	125.1	0.0	125.1
1970	**0.0**	**0.0**	**0.7**	**4.2**	**80.1**	**0.1**	**0.4**	**28.9**	**11.0**	**125.3**	**0.0**	**125.3**	**0.0**	**125.3**
1971	0.0	0.0	0.7	4.8	91.5	0.1	0.4	30.1	11.3	138.8	0.0	138.8	0.0	138.8
1972	0.0	0.0	0.7	4.2	91.3	0.1	0.4	31.7	8.1	136.5	0.0	136.5	0.0	136.5
1973	0.0	0.0	0.7	4.3	92.9	0.1	0.4	33.9	8.7	140.9	0.0	140.9	0.0	140.9
1974	0.0	0.0	0.6	5.4	83.6	0.1	0.4	33.7	4.9	128.7	0.0	128.7	0.0	128.7
1975	**0.0**	**0.0**	**0.6**	**4.8**	**83.5**	**0.1**	**0.5**	**34.7**	**6.4**	**130.5**	**0.0**	**130.5**	**0.0**	**130.5**
1976	0.0	0.0	0.7	7.3	79.8	0.1	0.5	36.2	7.2	131.7	0.0	131.7	0.0	131.7
1977	0.0	0.0	0.7	9.0	83.6	0.1	0.5	38.1	9.3	141.3	0.0	141.3	0.0	141.3
1978	0.0	0.0	0.7	10.5	83.6	0.1	0.5	39.3	9.9	144.6	0.0	144.6	0.0	144.6
1979	0.0	0.0	0.8	22.6	85.9	*	0.5	38.6	7.8	156.4	0.0	156.4	0.0	156.4
1980	**0.0**	**0.0**	**1.0**	**19.4**	**79.2**	**0.1**	**0.5**	**37.4**	**9.1**	**146.7**	**0.0**	**146.7**	**0.0**	**146.7**
1981	0.0	0.0	0.9	21.5	56.2	0.2	0.4	37.2	7.7	124.1	0.0	124.1	0.0	124.1
1982	0.0	0.0	0.7	15.1	41.6	0.1	0.4	37.6	6.7	102.2	0.0	102.2	0.0	102.2
1983	0.0	0.0	0.8	7.3	62.5	0.2	0.4	37.6	9.2	117.9	0.0	117.9	0.0	117.9
1984	0.0	0.0	0.7	8.1	72.6	*	0.4	39.0	10.7	131.7	0.0	131.7	0.0	131.7
1985	**0.0**	**0.0**	**0.8**	**18.9**	**74.4**	*****	**0.4**	**39.1**	**11.2**	**144.9**	**0.0**	**144.9**	**0.0**	**144.9**
1986	0.0	0.0	1.4	17.7	57.0	*	0.4	40.6	12.3	129.4	0.0	129.4	0.0	129.4
1987	0.0	0.0	1.3	10.1	64.4	*	0.5	42.1	7.4	125.7	0.0	125.7	0.0	125.7
1988	0.0	0.0	1.4	19.0	67.2	*	0.4	43.7	9.8	141.7	0.0	141.7	0.0	141.7
1989	0.0	0.0	1.4	19.1	74.4	*	0.4	45.0	12.0	152.4	0.0	152.4	0.0	152.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 86. Estimates of Energy Input at Electric Utilities, 1960-1989, Hawaii

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**0**	**2,719**	**37**	**0**	**2,756**	**0**	**27**	**0**	**0**	
1961	0	0	0	0	3,012	41	0	3,053	0	24	0	0	
1962	0	0	0	0	3,329	45	0	3,374	0	20	0	0	
1963	0	0	0	0	3,768	54	0	3,822	0	23	0	0	
1964	0	0	0	0	4,145	59	0	4,204	0	28	0	0	
1965	**0**	**0**	**0**	**0**	**4,292**	**61**	**0**	**4,353**	**0**	**22**	**0**	**0**	
1966	0	0	0	0	4,611	65	0	4,677	0	27	0	2	
1967	0	0	0	0	4,873	69	0	4,942	0	24	0	0	
1968	0	0	0	0	5,404	77	0	5,481	0	23	0	30	
1969	0	0	0	0	5,996	85	0	6,081	0	24	0	29	
1970	**0**	**0**	**0**	**0**	**6,702**	**96**	**0**	**6,798**	**0**	**22**	**0**	**24**	
1971	0	0	0	0	7,438	101	0	7,540	0	21	0	15	
1972	0	0	0	0	8,289	267	0	8,556	0	22	0	18	
1973	0	0	0	0	8,539	246	0	8,786	0	20	0	22	
1974	0	0	0	0	8,733	352	0	9,085	0	18	0	30	
1975	**0**	**0**	**0**	**0**	**8,880**	**429**	**0**	**9,309**	**0**	**18**	**0**	**25**	
1976	0	0	0	0	9,440	447	0	9,887	0	22	0	29	
1977	0	0	0	0	9,791	549	0	10,340	0	20	0	26	
1978	0	0	0	0	9,867	776	0	10,643	0	20	0	0	
1979	0	0	0	0	9,999	795	0	10,795	0	21	0	0	
1980	**0**	**0**	**0**	**0**	**10,239**	**888**	**0**	**11,127**	**0**	**20**	**0**	**0**	
1981	0	0	0	0	10,348	779	0	11,127	0	14	0	15	
1982	0	0	0	0	9,990	605	0	10,595	0	23	0	26	
1983	0	0	0	0	10,229	647	0	10,876	0	17	0	28	
1984	0	0	0	0	10,320	826	0	11,147	0	15	21	28	
1985	**0**	**0**	**0**	**0**	**10,295**	**752**	**0**	**11,047**	**0**	**19**	**19**	**25**	
1986	0	0	0	0	10,751	824	0	11,575	0	12	18	0	
1987	0	0	0	0	11,127	1,069	0	12,196	0	15	13	0	
1988	0	0	0	0	11,771	1,274	0	13,044	0	14	16	0	
1989	0	0	0	0	12,255	1,396	0	13,651	0	22	14	11	
					Trillion Btu								
1960	**0.0**	**0.0**	**0.0**	**0.0**	**17.1**	**0.2**	**0.0**	**17.3**	**0.0**	**0.3**	**0.0**	**0.0**	**17.6**
1961	0.0	0.0	0.0	0.0	18.9	0.2	0.0	19.2	0.0	0.3	0.0	0.0	19.4
1962	0.0	0.0	0.0	0.0	20.9	0.3	0.0	21.2	0.0	0.2	0.0	0.0	21.4
1963	0.0	0.0	0.0	0.0	23.7	0.3	0.0	24.0	0.0	0.2	0.0	0.0	24.2
1964	0.0	0.0	0.0	0.0	26.1	0.3	0.0	26.4	0.0	0.3	0.0	0.0	26.7
1965	**0.0**	**0.0**	**0.0**	**0.0**	**27.0**	**0.4**	**0.0**	**27.3**	**0.0**	**0.2**	**0.0**	**0.0**	**27.6**
1966	0.0	0.0	0.0	0.0	29.0	0.4	0.0	29.4	0.0	0.3	0.0	*	29.7
1967	0.0	0.0	0.0	0.0	30.6	0.4	0.0	31.0	0.0	0.2	0.0	0.0	31.3
1968	0.0	0.0	0.0	0.0	34.0	0.4	0.0	34.4	0.0	0.2	0.0	0.3	35.0
1969	0.0	0.0	0.0	0.0	37.7	0.5	0.0	38.2	0.0	0.2	0.0	0.3	38.7
1970	**0.0**	**0.0**	**0.0**	**0.0**	**42.1**	**0.6**	**0.0**	**42.7**	**0.0**	**0.2**	**0.0**	**0.3**	**43.2**
1971	0.0	0.0	0.0	0.0	46.8	0.6	0.0	47.4	0.0	0.2	0.0	0.2	47.7
1972	0.0	0.0	0.0	0.0	52.1	1.6	0.0	53.7	0.0	0.2	0.0	0.2	54.1
1973	0.0	0.0	0.0	0.0	53.7	1.4	0.0	55.1	0.0	0.2	0.0	0.2	55.6
1974	0.0	0.0	0.0	0.0	54.9	2.1	0.0	57.0	0.0	0.2	0.0	0.3	57.5
1975	**0.0**	**0.0**	**0.0**	**0.0**	**55.8**	**2.5**	**0.0**	**58.3**	**0.0**	**0.2**	**0.0**	**0.3**	**58.8**
1976	0.0	0.0	0.0	0.0	59.3	2.6	0.0	62.0	0.0	0.2	0.0	0.3	62.5
1977	0.0	0.0	0.0	0.0	61.6	3.2	0.0	64.8	0.0	0.2	0.0	0.3	65.2
1978	0.0	0.0	0.0	0.0	62.0	4.5	0.0	66.6	0.0	0.2	0.0	0.0	66.8
1979	0.0	0.0	0.0	0.0	62.9	4.6	0.0	67.5	0.0	0.2	0.0	0.0	67.7
1980	**0.0**	**0.0**	**0.0**	**0.0**	**64.4**	**5.2**	**0.0**	**69.5**	**0.0**	**0.2**	**0.0**	**0.0**	**69.7**
1981	0.0	0.0	0.0	0.0	65.1	4.5	0.0	69.6	0.0	0.1	0.0	0.2	69.9
1982	0.0	0.0	0.0	0.0	62.8	3.5	0.0	66.3	0.0	0.2	0.0	0.3	66.9
1983	0.0	0.0	0.0	0.0	64.3	3.8	0.0	68.1	0.0	0.2	0.0	0.3	68.6
1984	0.0	0.0	0.0	0.0	64.9	4.8	0.0	69.7	0.0	0.2	0.4	0.3	70.6
1985	**0.0**	**0.0**	**0.0**	**0.0**	**64.7**	**4.4**	**0.0**	**69.1**	**0.0**	**0.2**	**0.4**	**0.3**	**70.0**
1986	0.0	0.0	0.0	0.0	67.6	4.8	0.0	72.4	0.0	0.1	0.4	0.0	72.9
1987	0.0	0.0	0.0	0.0	70.0	6.2	0.0	76.2	0.0	0.2	0.3	0.0	76.6
1988	0.0	0.0	0.0	0.0	74.0	7.4	0.0	81.4	0.0	0.1	0.3	0.0	81.9
1989	0.0	0.0	0.0	0.0	77.0	8.1	0.0	85.2	0.0	0.2	0.3	0.1	85.8

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 87. Energy Consumption Estimates by Source, 1960–1989, Idaho

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**699**	**22**	**491**	**133**	**4,072**	**899**	**107**	**455**	**147**	**6,965**	**205**	**0**	**13,475**	**0**	**6,165**	**0**	**0**	**-5**	
1961	715	24	495	124	4,060	906	404	504	143	7,119	430	0	14,186	0	5,595	0	0	3,819	
1962	755	26	865	211	4,225	977	271	526	142	7,341	223	0	14,780	0	5,982	0	0	3,345	
1963	695	27	628	233	4,103	994	275	534	142	7,332	262	0	14,503	0	5,979	0	0	4,660	
1964	772	31	537	241	4,516	1,031	401	648	149	7,427	432	0	15,382	0	6,292	0	0	5,384	
1965	**673**	**34**	**710**	**177**	**4,803**	**870**	**521**	**560**	**160**	**7,654**	**356**	**0**	**15,811**	**0**	**6,640**	**0**	**0**	**4,753**	
1966	631	36	681	174	4,825	929	498	617	166	7,960	215	0	16,065	0	6,827	0	0	6,440	
1967	566	34	640	172	7,293	1,026	469	940	142	8,221	142	0	19,045	0	6,897	0	0	9,026	
1968	492	39	693	151	7,743	1,203	508	1,065	156	8,466	208	0	20,193	0	6,745	0	0	12,840	
1969	421	41	1,214	151	5,811	1,087	390	1,090	149	9,039	411	0	19,342	0	6,279	0	0	15,375	
1970	**353**	**47**	**1,147**	**154**	**5,600**	**960**	**230**	**1,057**	**151**	**9,684**	**277**	**0**	**19,261**	**0**	**7,075**	**0**	**0**	**14,161**	
1971	544	50	1,038	143	5,708	1,007	231	1,171	153	10,020	282	0	19,753	0	7,468	0	0	14,563	
1972	483	57	1,228	152	5,953	985	305	1,406	164	10,565	244	0	21,001	0	7,842	0	0	16,753	
1973	484	56	1,112	161	6,481	943	299	1,195	180	11,043	241	0	21,655	0	8,277	0	0	15,477	
1974	529	53	936	152	7,049	985	224	1,235	173	10,691	587	0	22,032	0	9,685	0	0	14,759	
1975	**647**	**60**	**880**	**120**	**7,560**	**950**	**145**	**1,184**	**163**	**11,288**	**684**	**0**	**22,973**	**0**	**10,274**	**0**	**0**	**11,347**	
1976	772	47	867	131	7,474	978	195	1,274	181	12,035	771	0	23,906	0	10,372	0	0	13,537	
1977	608	46	890	133	8,170	980	197	1,208	182	12,247	690	0	24,696	0	6,749	0	0	25,293	
1978	600	44	955	163	8,575	1,013	191	1,348	195	12,941	906	0	26,286	0	9,871	0	0	14,677	
1979	628	54	833	155	7,758	1,135	125	1,142	204	12,154	1,221	0	24,729	0	9,165	0	0	19,785	
1980	**514**	**49**	**797**	**162**	**5,662**	**1,243**	**0**	**993**	**182**	**11,078**	**613**	**0**	**20,731**	**0**	**9,507**	**0**	**0**	**18,078**	
1981	535	45	537	121	4,764	1,223	17	879	175	10,523	54	0	18,294	0	9,507	0	0	26,974	
1982	575	40	540	83	4,483	1,044	31	1,030	159	10,275	215	0	17,861	0	11,591	0	0	19,310	
1983	516	35	662	73	5,237	959	11	1,067	167	10,385	104	0	18,664	0	12,771	0	0	14,294	
1984	490	39	474	55	5,905	1,089	11	758	178	10,528	106	0	19,103	0	13,195	0	0	13,591	
1985	**486**	**39**	**632**	**80**	**5,584**	**1,122**	**8**	**863**	**166**	**10,669**	**397**	**0**	**19,520**	**0**	**10,919**	**0**	**0**	**21,768**	
1986	466	35	544	87	5,907	1,117	7	731	162	10,894	85	0	19,533	0	12,153	0	0	15,446	
1987	494	37	499	76	6,385	1,154	7	604	183	10,702	387	0	19,999	0	8,146	0	0	28,331	
1988	524	41	402	52	6,507	1,178	8	731	177	11,219	252	0	20,526	0	6,846	0	0	35,394	
1989	533	46	831	55	6,865	1,239	2	808	181	11,297	332	0	21,609	0	8,955	0	0	30,673	
									Trillion Btu										
1960	**16.8**	**22.8**	**3.3**	**0.7**	**23.7**	**4.8**	**0.6**	**1.8**	**0.9**	**36.6**	**1.3**	**0.0**	**73.7**	**0.0**	**66.3**	**0.0**	**0.0**	*	**179.6**
1961	17.1	24.8	3.3	0.6	23.7	4.9	2.3	2.0	0.9	37.4	2.7	0.0	77.7	0.0	59.6	0.0	0.0	13.0	192.2
1962	18.0	26.7	5.7	1.1	24.6	5.2	1.5	2.1	0.9	38.6	1.4	0.0	81.1	0.0	63.2	0.0	0.0	11.4	200.4
1963	16.6	28.4	4.2	1.2	23.9	5.3	1.6	2.1	0.9	38.5	1.6	0.0	79.3	0.0	62.7	0.0	0.0	15.9	202.8
1964	18.2	33.0	3.6	1.2	26.3	5.5	2.3	2.6	0.9	39.0	2.7	0.0	84.1	0.0	65.8	0.0	0.0	18.4	219.6
1965	**15.9**	**36.1**	**4.7**	**0.9**	**28.0**	**4.7**	**3.0**	**2.2**	**1.0**	**40.2**	**2.2**	**0.0**	**86.9**	**0.0**	**69.4**	**0.0**	**0.0**	**16.2**	**224.4**
1966	14.9	39.0	4.5	0.9	28.1	5.0	2.8	2.5	1.0	41.8	1.4	0.0	88.0	0.0	71.1	0.0	0.0	22.0	234.9
1967	13.4	35.9	4.2	0.9	42.5	5.5	2.7	3.6	0.9	43.2	0.9	0.0	104.3	0.0	71.9	0.0	0.0	30.8	256.4
1968	11.6	40.4	4.6	0.8	45.1	6.5	2.9	4.1	0.9	44.5	1.3	0.0	110.6	0.0	70.1	0.0	0.0	43.8	276.5
1969	9.9	42.4	8.1	0.8	33.8	5.9	2.2	4.1	0.9	47.5	2.6	0.0	105.9	0.0	65.6	0.0	0.0	52.5	276.2
1970	**7.9**	**49.4**	**7.6**	**0.8**	**32.6**	**5.2**	**1.3**	**4.0**	**0.9**	**50.9**	**1.7**	**0.0**	**105.0**	**0.0**	**74.2**	**0.0**	**0.0**	**48.3**	**285.0**
1971	12.2	53.2	6.9	0.7	33.2	5.5	1.3	4.4	0.9	52.6	1.8	0.0	107.4	0.0	78.3	0.0	0.0	49.7	300.6
1972	10.5	60.1	8.1	0.8	34.7	5.3	1.7	5.3	1.0	55.5	1.5	0.0	114.0	0.0	81.4	0.0	0.0	57.2	323.1
1973	10.6	59.3	7.4	0.8	37.8	5.1	1.7	4.5	1.1	58.0	1.5	0.0	117.9	0.0	86.0	0.0	0.0	52.8	326.6
1974	11.4	55.3	6.2	0.8	41.1	5.4	1.3	4.6	1.0	56.2	3.7	0.0	120.2	0.0	101.1	0.0	0.0	50.4	338.3
1975	**13.4**	**63.8**	**5.8**	**0.6**	**44.0**	**5.2**	**0.8**	**4.4**	**1.0**	**59.3**	**4.3**	**0.0**	**125.5**	**0.0**	**106.9**	**0.0**	**0.0**	**38.7**	**348.3**
1976	15.2	49.8	5.8	0.7	43.5	5.3	1.1	4.7	1.1	63.2	4.8	0.0	130.3	0.0	107.6	0.0	0.0	46.2	349.1
1977	12.1	48.3	5.9	0.7	47.6	5.4	1.1	4.4	1.1	64.3	4.3	0.0	134.8	0.0	70.4	0.0	0.0	86.3	351.9
1978	11.4	46.6	6.3	0.8	49.9	5.6	1.1	4.9	1.2	68.0	5.7	0.0	143.6	0.0	102.3	0.0	0.0	50.1	353.9
1979	11.9	56.8	5.5	0.8	45.2	6.2	0.7	4.2	1.2	63.8	7.7	0.0	135.4	0.0	94.9	0.0	0.0	67.5	366.4
1980	**9.6**	**51.6**	**5.3**	**0.8**	**33.0**	**6.8**	**0.0**	**3.7**	**1.1**	**58.2**	**3.9**	**0.0**	**112.7**	**0.0**	**98.8**	**0.0**	**0.0**	**61.7**	**334.4**
1981	9.8	48.1	3.6	0.6	27.8	6.7	0.1	3.2	1.1	55.3	0.3	0.0	98.6	0.0	99.4	0.0	0.0	92.0	347.9
1982	10.4	42.8	3.6	0.4	26.1	5.7	0.2	3.7	1.0	54.0	1.4	0.0	96.0	0.0	121.2	0.0	0.0	65.9	336.3
1983	9.5	36.8	4.4	0.4	30.5	5.2	0.1	3.9	1.0	54.6	0.7	0.0	100.6	0.0	134.4	0.0	0.0	48.8	330.0
1984	9.0	40.3	3.1	0.3	34.4	5.9	0.1	2.7	1.1	55.3	0.7	0.0	103.6	0.0	136.2	0.0	0.0	46.4	335.5
1985	**8.9**	**41.1**	**4.2**	**0.4**	**32.5**	**6.1**	*	**3.1**	**1.0**	**56.0**	**2.5**	**0.0**	**105.9**	**0.0**	**112.9**	**0.0**	**0.0**	**74.3**	**343.1**
1986	8.6	35.5	3.6	0.4	34.4	6.1	*	2.7	1.0	57.2	0.5	0.0	106.0	0.0	124.7	0.0	0.0	52.7	327.5
1987	8.9	37.8	3.3	0.4	37.2	6.3	*	2.2	1.1	56.2	2.4	0.0	109.2	0.0	83.5	0.0	0.0	96.7	336.0
1988	9.7	41.6	2.7	0.3	37.9	6.4	*	2.7	1.1	58.9	1.6	0.0	111.6	0.0	70.1	0.0	0.0	120.8	353.7
1989	9.8	46.9	5.5	0.3	40.0	6.8	*	3.0	1.1	59.3	2.1	0.0	118.1	0.0	92.5	0.0	0.0	104.7	371.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 88. Residential Energy Consumption Estimates, 1960–1989, Idaho

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	166	0	166	2	663	0	314	977	1,463	3,639		
1961	152	0	152	3	697	0	320	1,016	1,519	3,702		
1962	159	0	159	3	654	0	322	975	1,597	3,840		
1963	147	0	147	4	663	0	323	987	1,638	3,917		
1964	138	0	138	5	736	0	402	1,138	1,708	4,068		
1965	123	0	123	5	708	0	348	1,056	1,779	4,247		
1966	124	0	124	5	607	0	378	985	1,831	4,394		
1967	131	0	131	6	1,328	0	608	1,936	1,917	4,579		
1968	103	0	103	7	1,452	0	701	2,153	2,049	4,889		
1969	95	0	95	7	900	0	721	1,622	2,186	5,221		
1970	63	0	63	8	837	0	711	1,548	2,354	5,706		
1971	104	0	104	8	839	0	789	1,628	2,602	6,290		
1972	66	0	66	11	834	0	919	1,753	2,845	6,848		
1973	74	0	74	10	871	0	813	1,684	3,100	7,423		
1974	65	0	65	10	881	0	786	1,667	3,346	8,159		
1975	66	0	66	14	972	0	712	1,684	3,870	9,336		
1976	73	0	73	13	944	0	745	1,689	4,169	10,042		
1977	78	0	78	12	966	0	698	1,664	4,456	10,761		
1978	77	0	77	8	1,080	0	724	1,804	4,502	11,014		
1979	55	0	55	9	895	0	371	1,266	5,048	12,182		
1980	40	0	40	7	485	0	316	801	4,936	12,003		
1981	29	0	29	7	423	0	292	715	5,148	12,269		
1982	25	0	25	7	276	0	325	601	5,499	13,208		
1983	29	0	29	7	587	3	398	988	5,212	12,487		
1984	30	0	30	7	599	4	288	892	5,710	13,260		
1985	16	0	16	8	635	2	364	1,000	5,780	13,555		
1986	13	0	13	7	634	4	299	938	5,433	12,456		
1987	8	0	8	7	575	5	244	824	5,209	11,870		
1988	27	0	27	8	615	6	314	936	5,449	12,306		
1989	28	0	28	9	558	1	385	944	5,713	12,815		
	Trillion Btu											
1960	4.1	0.0	4.1	2.3	3.9	0.0	1.3	5.1	5.0	16.5	12.4	28.9
1961	3.8	0.0	3.8	2.7	4.1	0.0	1.3	5.3	5.2	17.1	12.6	29.7
1962	3.9	0.0	3.9	3.3	3.8	0.0	1.3	5.1	5.4	17.8	13.1	30.9
1963	3.7	0.0	3.7	3.8	3.9	0.0	1.3	5.2	5.6	18.2	13.4	31.6
1964	3.4	0.0	3.4	5.1	4.3	0.0	1.6	5.9	5.8	20.3	13.9	34.1
1965	3.0	0.0	3.0	5.2	4.1	0.0	1.4	5.5	6.1	19.8	14.5	34.3
1966	3.0	0.0	3.0	5.9	3.5	0.0	1.5	5.1	6.2	20.3	15.0	35.2
1967	3.2	0.0	3.2	6.5	7.7	0.0	2.3	10.1	6.5	26.3	15.6	41.9
1968	2.5	0.0	2.5	6.7	8.5	0.0	2.7	11.1	7.0	27.3	16.7	44.0
1969	2.3	0.0	2.3	7.1	5.2	0.0	2.7	8.0	7.5	24.9	17.8	42.7
1970	1.5	0.0	1.5	8.2	4.9	0.0	2.7	7.6	8.0	25.3	19.5	44.8
1971	2.5	0.0	2.5	9.0	4.9	0.0	3.0	7.9	8.9	28.2	21.5	49.6
1972	1.6	0.0	1.6	11.6	4.9	0.0	3.5	8.3	9.7	31.1	23.4	54.5
1973	1.7	0.0	1.7	10.5	5.1	0.0	3.0	8.1	10.6	31.0	25.3	56.3
1974	1.5	0.0	1.5	10.1	5.1	0.0	2.9	8.1	11.4	31.0	27.8	58.9
1975	1.5	0.0	1.5	14.9	5.7	0.0	2.6	8.3	13.2	37.9	31.9	69.7
1976	1.6	0.0	1.6	13.2	5.5	0.0	2.8	8.3	14.2	37.3	34.3	71.5
1977	1.7	0.0	1.7	12.5	5.6	0.0	2.6	8.2	15.2	37.6	36.7	74.3
1978	1.6	0.0	1.6	8.2	6.3	0.0	2.7	8.9	15.4	34.1	37.6	71.7
1979	1.1	0.0	1.1	9.2	5.2	0.0	1.4	6.6	17.2	34.0	41.6	75.6
1980	0.9	0.0	0.9	7.8	2.8	0.0	1.2	4.0	16.8	29.5	41.0	70.4
1981	0.6	0.0	0.6	7.2	2.5	0.0	1.1	3.5	17.6	28.9	41.9	70.8
1982	0.5	0.0	0.5	7.4	1.6	0.0	1.2	2.8	18.8	29.5	45.1	74.5
1983	0.6	0.0	0.6	6.8	3.4	*	1.4	4.9	17.8	30.1	42.6	72.7
1984	0.7	0.0	0.7	7.7	3.5	*	1.0	4.6	19.5	32.4	45.2	77.6
1985	0.4	0.0	0.4	8.1	3.7	*	1.3	5.0	19.7	33.3	46.2	79.5
1986	0.3	0.0	0.3	7.4	3.7	*	1.1	4.8	18.5	31.1	42.5	73.6
1987	0.2	0.0	0.2	7.1	3.3	*	0.9	4.3	17.8	29.4	40.5	69.9
1988	0.6	0.0	0.6	7.8	3.6	*	1.1	4.8	18.6	31.8	42.0	73.8
1989	0.6	0.0	0.6	9.0	3.3	*	1.4	4.7	19.5	33.8	43.7	77.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 89. Commercial Energy Consumption Estimates, 1960-1989, Idaho

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**307**	**0**	**307**	**3**	**232**	**102**	**55**	**45**	**0**	**435**	**1,261**	**3,136**		
1961	283	0	283	3	244	401	56	45	0	747	1,472	3,588		
1962	296	0	296	4	229	265	57	50	0	601	1,595	3,836		
1963	274	0	274	4	233	268	57	49	0	607	1,683	4,024		
1964	256	0	256	4	258	378	71	52	0	759	1,764	4,202		
1965	**228**	**0**	**228**	**5**	**248**	**500**	**61**	**52**	**0**	**862**	**1,290**	**3,079**		
1966	229	0	229	5	213	442	67	55	0	776	1,737	4,169		
1967	244	0	244	5	466	78	107	56	0	707	1,772	4,234		
1968	191	0	191	6	509	254	124	59	0	945	1,868	4,456		
1969	176	0	176	7	316	194	127	62	0	699	2,070	4,943		
1970	**118**	**0**	**118**	**6**	**294**	**116**	**125**	**65**	**0**	**600**	**2,088**	**5,059**		
1971	192	0	192	8	294	118	139	68	0	619	2,261	5,467		
1972	122	0	122	11	293	180	162	68	0	702	2,421	5,826		
1973	137	0	137	9	306	207	143	74	0	730	2,640	6,320		
1974	120	0	120	8	309	132	139	82	0	661	2,933	7,151		
1975	**123**	**0**	**123**	**12**	**341**	**81**	**126**	**90**	**0**	**637**	**3,530**	**8,515**		
1976	136	0	136	9	331	110	132	93	0	666	3,761	9,059		
1977	144	0	144	8	339	99	123	93	0	655	4,142	10,001		
1978	144	0	144	6	379	95	128	96	0	698	3,776	9,238		
1979	102	0	102	7	314	17	65	96	0	493	4,337	10,467		
1980	**73**	**0**	**73**	**6**	**218**	**0**	**56**	**100**	**487**	**860**	**3,973**	**9,661**		
1981	54	0	54	5	122	0	51	131	29	333	4,868	11,601		
1982	47	0	47	6	469	8	57	131	17	682	4,638	11,141		
1983	54	0	54	6	397	5	70	118	19	610	4,323	10,357		
1984	55	0	55	8	406	3	51	264	20	744	4,204	9,763		
1985	**30**	**0**	**30**	**9**	**366**	**4**	**64**	**134**	**116**	**684**	**4,592**	**10,769**		
1986	24	0	24	9	285	1	53	136	14	488	4,435	10,169		
1987	15	0	15	8	422	1	43	140	58	666	4,611	10,508		
1988	49	0	49	8	431	1	55	377	30	895	4,909	11,086		
1989	53	0	53	9	348	*	68	356	193	965	4,965	11,136		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**7.6**	**0.0**	**7.6**	**2.9**	**1.4**	**0.6**	**0.2**	**0.2**	**0.0**	**2.4**	**4.3**	**17.2**	**10.7**	**27.9**
1961	7.0	0.0	7.0	3.3	1.4	2.3	0.2	0.2	0.0	4.2	5.0	19.5	12.2	31.8
1962	7.3	0.0	7.3	4.5	1.3	1.5	0.2	0.3	0.0	3.3	5.4	20.6	13.1	33.7
1963	6.8	0.0	6.8	4.1	1.4	1.5	0.2	0.3	0.0	3.4	5.7	20.0	13.7	33.8
1964	6.4	0.0	6.4	4.4	1.5	2.1	0.3	0.3	0.0	4.2	6.0	20.9	14.3	35.3
1965	**5.6**	**0.0**	**5.6**	**5.4**	**1.4**	**2.8**	**0.2**	**0.3**	**0.0**	**4.8**	**4.4**	**20.2**	**10.5**	**30.7**
1966	5.6	0.0	5.6	5.0	1.2	2.5	0.3	0.3	0.0	4.3	5.9	20.9	14.2	35.1
1967	6.0	0.0	6.0	5.2	2.7	0.4	0.4	0.3	0.0	3.9	6.0	21.1	14.4	35.5
1968	4.7	0.0	4.7	6.5	3.0	1.4	0.5	0.3	0.0	5.2	6.4	22.8	15.2	38.0
1969	4.3	0.0	4.3	6.8	1.8	1.1	0.5	0.3	0.0	3.7	7.1	21.8	16.9	38.7
1970	**2.8**	**0.0**	**2.8**	**6.2**	**1.7**	**0.7**	**0.5**	**0.3**	**0.0**	**3.2**	**7.1**	**19.3**	**17.3**	**36.6**
1971	4.6	0.0	4.6	8.7	1.7	0.7	0.5	0.4	0.0	3.3	7.7	24.3	18.7	42.9
1972	2.9	0.0	2.9	11.4	1.7	1.0	0.6	0.4	0.0	3.7	8.3	26.2	19.9	46.1
1973	3.2	0.0	3.2	9.9	1.8	1.2	0.5	0.4	0.0	3.9	9.0	26.1	21.6	47.6
1974	2.8	0.0	2.8	8.4	1.8	0.7	0.5	0.4	0.0	3.5	10.0	24.7	24.4	49.1
1975	**2.8**	**0.0**	**2.8**	**12.8**	**2.0**	**0.5**	**0.5**	**0.5**	**0.0**	**3.4**	**12.0**	**31.1**	**29.1**	**60.1**
1976	2.9	0.0	2.9	9.2	1.9	0.6	0.5	0.5	0.0	3.5	12.8	28.5	30.9	59.4
1977	3.1	0.0	3.1	8.9	2.0	0.6	0.5	0.5	0.0	3.5	14.1	29.6	34.1	63.8
1978	2.9	0.0	2.9	5.8	2.2	0.5	0.5	0.5	0.0	3.7	12.9	25.3	31.5	56.8
1979	2.0	0.0	2.0	7.2	1.8	0.1	0.2	0.5	0.0	2.7	14.8	26.7	35.7	62.4
1980	**1.6**	**0.0**	**1.6**	**6.1**	**1.3**	**0.0**	**0.2**	**0.5**	**3.1**	**5.1**	**13.6**	**26.3**	**33.0**	**59.3**
1981	1.2	0.0	1.2	5.8	0.7	0.0	0.2	0.7	0.2	1.8	16.6	25.3	39.6	64.9
1982	1.0	0.0	1.0	6.1	2.7	*	0.2	0.7	0.1	3.8	15.8	26.8	38.0	64.8
1983	1.2	0.0	1.2	6.0	2.3	*	0.3	0.6	0.1	3.3	14.8	25.3	35.3	60.6
1984	1.2	0.0	1.2	8.9	2.4	*	0.2	1.4	0.1	4.1	14.3	28.5	33.3	61.8
1985	**0.7**	**0.0**	**0.7**	**9.4**	**2.1**	*	**0.2**	**0.7**	**0.7**	**3.8**	**15.7**	**29.6**	**36.7**	**66.4**
1986	0.5	0.0	0.5	8.7	1.7	*	0.2	0.7	0.1	2.7	15.1	27.1	34.7	61.8
1987	0.3	0.0	0.3	7.7	2.5	*	0.2	0.7	0.4	3.7	15.7	27.6	35.9	63.4
1988	1.1	0.0	1.1	8.4	2.5	*	0.2	2.0	0.2	4.9	16.7	31.2	37.8	69.0
1989	1.1	0.0	1.1	9.2	2.0	*	0.3	1.9	1.2	5.4	16.9	32.7	38.0	70.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 90. Industrial Energy Consumption Estimates, 1960–1989, Idaho

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**222**	**0**	**222**	**17**	**491**	**2,529**	**5**	**79**	**19**	**930**	**153**	**0**	**4,207**	*	**2,849**	**7,087**
1961	279	0	279	18	495	2,700	3	119	19	874	427	0	4,637	1	3,201	7,801
1962	299	0	299	18	865	2,716	6	135	26	911	223	0	4,883	1	3,228	7,759
1963	273	0	273	19	628	2,735	7	142	26	879	262	0	4,679	*	3,469	8,295
1964	376	0	376	21	537	3,010	23	163	27	853	432	0	5,044	*	3,825	9,110
1965	**321**	**0**	**321**	**23**	**710**	**2,768**	**21**	**146**	**32**	**859**	**301**	**0**	**4,838**	*	**4,340**	**10,361**
1966	278	0	278	24	681	2,559	56	168	33	887	215	0	4,599	*	4,456	10,693
1967	191	0	191	22	640	4,322	391	217	30	749	142	0	6,492	*	5,196	12,413
1968	197	0	197	25	693	4,819	255	233	33	724	197	0	6,954	*	5,947	14,188
1969	151	0	151	25	1,214	3,357	196	230	32	753	404	0	6,185	0	5,956	14,227
1970	**171**	**0**	**171**	**29**	**1,147**	**3,206**	**114**	**212**	**32**	**626**	**275**	**0**	**5,612**	**0**	**6,052**	**14,665**
1971	248	0	248	28	1,038	3,212	113	230	32	822	282	0	5,729	0	6,110	14,771
1972	294	0	294	30	1,228	3,274	125	304	34	542	244	0	5,751	0	6,654	16,016
1973	273	0	273	32	1,112	3,463	92	222	38	940	241	0	6,108	0	6,246	14,953
1974	344	0	344	31	936	3,604	92	292	37	678	587	0	6,226	0	6,643	16,196
1975	**459**	**0**	**459**	**30**	**880**	**3,935**	**64**	**325**	**44**	**801**	**684**	**0**	**6,734**	**0**	**5,112**	**12,331**
1976	562	0	562	21	867	4,024	85	376	49	541	771	0	6,713	0	5,303	12,773
1977	386	0	386	20	890	4,143	97	359	44	661	690	0	6,884	0	4,916	11,871
1978	379	0	379	26	955	4,271	96	462	47	585	906	0	7,322	0	4,683	11,457
1979	471	0	471	34	833	3,055	108	677	49	454	323	0	5,501	0	4,603	11,109
1980	**401**	**0**	**401**	**32**	**797**	**2,209**	**0**	**598**	**44**	**639**	**126**	**0**	**4,413**	**0**	**4,798**	**11,667**
1981	452	0	452	29	537	2,198	17	492	42	405	26	0	3,717	0	6,567	15,650
1982	502	0	502	24	540	1,438	23	572	38	391	198	0	3,200	0	5,979	14,362
1983	434	0	434	20	662	2,108	3	526	40	298	84	0	3,721	0	6,270	15,023
1984	406	0	406	19	474	2,153	3	343	43	443	86	0	3,546	0	6,195	14,385
1985	**439**	**0**	**439**	**19**	**632**	**1,751**	**3**	**381**	**40**	**511**	**281**	**0**	**3,599**	**0**	**6,029**	**14,139**
1986	429	0	429	16	544	2,133	1	328	39	488	71	0	3,605	0	5,923	13,580
1987	470	0	470	19	499	2,394	*	287	44	432	329	0	3,985	0	6,286	14,327
1988	448	0	448	21	402	2,458	1	327	43	408	222	0	3,861	0	6,807	15,373
1989	451	1	452	23	831	2,673	*	322	44	433	139	0	4,442	0	7,143	16,023

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**56.2**	**24.2**	**80.3**
1961	62.3	26.6	88.9
1962	64.9	26.5	91.4
1963	65.2	28.3	93.5
1964	73.6	31.1	104.7
1965	**74.5**	**35.4**	**109.8**
1966	74.4	36.5	110.9
1967	82.2	42.4	124.5
1968	90.1	48.4	138.5
1969	86.0	48.5	134.5
1970	**87.8**	**50.0**	**137.8**
1971	89.4	50.4	139.8
1972	94.6	54.6	149.2
1973	96.5	51.0	147.5
1974	98.7	55.3	153.9
1975	**97.3**	**42.1**	**139.4**
1976	90.2	43.6	133.8
1977	85.3	40.5	125.8
1978	93.3	39.1	132.4
1979	90.9	37.9	128.8
1980	**81.6**	**39.8**	**121.4**
1981	82.1	53.4	135.5
1982	72.9	49.0	121.9
1983	71.0	51.3	122.3
1984	68.4	49.1	117.4
1985	**69.3**	**48.2**	**117.5**
1986	65.1	46.3	111.4
1987	72.0	48.9	120.9
1988	74.3	52.5	126.8
1989	81.6	54.7	136.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 91. Transportation Energy Consumption Estimates, 1960–1989, Idaho

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	4	*	133	648	899	7	127	5,990	52	7,856	0	0		
1961	1	1	124	418	906	9	124	6,200	3	7,785	0	0		
1962	1	*	211	625	977	12	116	6,379	0	8,320	0	0		
1963	1	*	233	471	994	12	116	6,404	0	8,230	0	0		
1964	1	1	241	512	1,031	12	121	6,523	0	8,440	0	0		
1965	1	1	177	1,079	870	4	128	6,743	55	9,055	0	0		
1966	1	2	174	1,446	929	4	133	7,018	0	9,704	0	0		
1967	*	1	172	1,177	1,026	7	111	7,415	0	9,909	0	0		
1968	*	2	151	962	1,203	8	122	7,682	11	10,139	0	0		
1969	*	2	151	1,237	1,087	12	117	8,224	7	10,836	0	0		
1970	*	4	154	1,263	960	9	119	8,993	2	11,500	0	0		
1971	*	5	143	1,362	1,007	13	121	9,130	0	11,775	0	0		
1972	*	5	152	1,551	985	21	129	9,956	0	12,793	0	0		
1973	*	5	161	1,840	943	17	142	10,029	0	13,131	0	0		
1974	*	4	152	2,248	985	19	136	9,932	0	13,470	0	0		
1975	*	4	120	2,306	950	21	119	10,396	0	13,912	0	0		
1976	*	5	131	2,172	978	21	132	11,402	0	14,835	0	0		
1977	*	5	133	2,721	980	28	138	11,493	0	15,493	0	0		
1978	0	4	163	2,841	1,013	33	148	12,259	0	16,457	0	0		
1979	0	4	155	3,492	1,135	28	155	11,604	898	17,468	0	0		
1980	0	4	162	2,750	1,243	23	138	10,339	0	14,655	0	0		
1981	0	4	121	2,021	1,223	43	132	9,988	0	13,529	0	0		
1982	0	3	83	2,300	1,044	75	121	9,753	0	13,377	0	0		
1983	0	3	73	2,144	959	73	126	9,969	0	13,345	0	0		
1984	0	4	55	2,745	1,089	75	135	9,821	0	13,921	0	0		
1985	0	3	80	2,830	1,122	54	126	10,024	0	14,236	0	0		
1986	0	3	87	2,854	1,117	51	123	10,270	0	14,502	0	0		
1987	0	4	76	2,994	1,154	30	139	10,131	0	14,524	0	0		
1988	0	4	52	3,001	1,178	34	134	10,434	0	14,834	0	0		
1989	0	5	55	3,281	1,239	33	137	10,508	0	15,254	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	0.1	0.5	0.7	3.8	4.8	*	0.8	31.5	0.3	41.9	0.0	42.5	0.0	42.5
1961	*	0.5	0.6	2.4	4.9	*	0.8	32.6	*	41.3	0.0	41.9	0.0	41.9
1962	*	0.2	1.1	3.6	5.2	*	0.7	33.5	0.0	44.2	0.0	44.5	0.0	44.5
1963	*	0.2	1.2	2.7	5.3	*	0.7	33.6	0.0	43.6	0.0	43.9	0.0	43.9
1964	*	0.7	1.2	3.0	5.5	*	0.7	34.3	0.0	44.8	0.0	45.5	0.0	45.5
1965	*	1.1	0.9	6.3	4.7	*	0.8	35.4	0.3	48.4	0.0	49.6	0.0	49.6
1966	*	1.7	0.9	8.4	5.0	*	0.8	36.9	0.0	52.0	0.0	53.7	0.0	53.7
1967	*	1.5	0.9	6.9	5.5	*	0.7	39.0	0.0	52.9	0.0	54.4	0.0	54.4
1968	*	2.0	0.8	5.6	6.5	*	0.7	40.4	0.1	54.0	0.0	56.0	0.0	56.0
1969	*	2.4	0.8	7.2	5.9	*	0.7	43.2	*	57.8	0.0	60.3	0.0	60.3
1970	*	4.5	0.8	7.4	5.2	*	0.7	47.2	*	61.3	0.0	65.8	0.0	65.8
1971	*	5.4	0.7	7.9	5.5	*	0.7	48.0	0.0	62.8	0.0	68.3	0.0	68.3
1972	*	5.0	0.8	9.0	5.3	0.1	0.8	52.3	0.0	68.3	0.0	73.3	0.0	73.3
1973	*	4.9	0.8	10.7	5.1	0.1	0.9	52.7	0.0	70.3	0.0	75.2	0.0	75.2
1974	*	4.1	0.8	13.1	5.4	0.1	0.8	52.2	0.0	72.3	0.0	76.4	0.0	76.4
1975	*	4.5	0.6	13.4	5.2	0.1	0.7	54.6	0.0	74.6	0.0	79.1	0.0	79.1
1976	*	4.9	0.7	12.6	5.3	0.1	0.8	59.9	0.0	79.4	0.0	84.3	0.0	84.3
1977	*	4.9	0.7	15.8	5.4	0.1	0.8	60.4	0.0	83.2	0.0	88.1	0.0	88.1
1978	0.0	4.7	0.8	16.5	5.6	0.1	0.9	64.4	0.0	88.3	0.0	93.0	0.0	93.0
1979	0.0	4.7	0.8	20.3	6.2	0.1	0.9	61.0	5.6	95.0	0.0	99.7	0.0	99.7
1980	0.0	4.4	0.8	16.0	6.8	0.1	0.8	54.3	0.0	78.9	0.0	83.3	0.0	83.3
1981	0.0	4.2	0.6	11.8	6.7	0.2	0.8	52.5	0.0	72.5	0.0	76.7	0.0	76.7
1982	0.0	3.3	0.4	13.4	5.7	0.3	0.7	51.2	0.0	71.8	0.0	75.1	0.0	75.1
1983	0.0	2.9	0.4	12.5	5.2	0.3	0.8	52.4	0.0	71.5	0.0	74.4	0.0	74.4
1984	0.0	3.8	0.3	16.0	5.9	0.3	0.8	51.6	0.0	74.9	0.0	78.7	0.0	78.7
1985	0.0	3.1	0.4	16.5	6.1	0.2	0.8	52.7	0.0	76.6	0.0	79.7	0.0	79.7
1986	0.0	2.7	0.4	16.6	6.1	0.2	0.7	53.9	0.0	78.0	0.0	80.7	0.0	80.7
1987	0.0	3.6	0.4	17.4	6.3	0.1	0.8	53.2	0.0	78.3	0.0	81.9	0.0	81.9
1988	0.0	4.2	0.3	17.5	6.4	0.1	0.8	54.8	0.0	79.9	0.0	84.1	0.0	84.1
1989	0.0	5.1	0.3	19.1	6.8	0.1	0.8	55.2	0.0	82.3	0.0	87.4	0.0	87.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 92. Estimates of Energy Input at Electric Utilities, 1960–1989, Idaho

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**0**	**0**	*****	**0**	*****	**0**	**6,165**	**0**	**0**	
1961	0	0	0	0	0	*	0	*	0	5,595	0	0	
1962	0	0	0	0	0	*	0	*	0	5,981	0	0	
1963	0	0	0	0	0	*	0	*	0	5,978	0	0	
1964	0	0	0	0	0	*	0	*	0	6,292	0	0	
1965	**0**	**0**	**0**	**0**	**0**	*****	**0**	*****	**0**	**6,640**	**0**	**0**	
1966	0	0	0	0	0	1	0	1	0	6,827	0	0	
1967	0	0	0	0	0	*	0	*	0	6,896	0	0	
1968	0	0	0	0	0	1	0	1	0	6,745	0	0	
1969	0	0	0	0	0	1	0	1	0	6,279	0	0	
1970	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**0**	**7,075**	**0**	**0**	
1971	0	0	0	0	0	2	0	2	0	7,468	0	0	
1972	0	0	0	0	0	1	0	1	0	7,842	0	0	
1973	0	0	0	0	0	1	0	1	0	8,277	0	0	
1974	0	0	0	*	0	7	0	7	0	9,685	0	0	
1975	**0**	**0**	**0**	*****	**0**	**5**	**0**	**5**	**0**	**10,274**	**0**	**0**	
1976	0	0	0	*	0	3	0	3	0	10,372	0	0	
1977	0	0	0	1	0	1	0	1	0	6,749	0	0	
1978	0	0	0	*	0	5	0	5	0	9,871	0	0	
1979	0	0	0	*	0	1	0	1	0	9,165	0	0	
1980	**0**	**0**	**0**	*****	**0**	*****	**0**	*****	**0**	**9,507**	**0**	**0**	
1981	0	0	0	*	0	*	0	*	0	9,507	0	0	
1982	0	0	0	*	0	*	0	*	0	11,591	0	0	
1983	0	0	0	*	0	*	0	*	0	12,771	0	0	
1984	0	0	0	*	0	1	0	1	0	13,195	0	0	
1985	**0**	**0**	**0**	*****	**0**	**1**	**0**	**1**	**0**	**10,919**	**0**	**0**	
1986	0	0	0	*	0	1	0	1	0	12,153	0	0	
1987	0	0	0	*	0	*	0	*	0	8,146	0	0	
1988	0	0	0	0	0	1	0	1	0	6,846	0	0	
1989	0	0	0	0	0	4	0	4	0	8,955	0	0	
						Trillion Btu							
1960	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	*****	**0.0**	*****	**0.0**	**66.3**	**0.0**	**0.0**	**66.3**
1961	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	59.6	0.0	0.0	59.6
1962	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	63.2	0.0	0.0	63.2
1963	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	62.7	0.0	0.0	62.7
1964	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	65.8	0.0	0.0	65.8
1965	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	*****	**0.0**	*****	**0.0**	**69.4**	**0.0**	**0.0**	**69.4**
1966	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	71.1	0.0	0.0	71.1
1967	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	71.9	0.0	0.0	71.9
1968	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	70.1	0.0	0.0	70.1
1969	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	65.6	0.0	0.0	65.6
1970	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	*****	**0.0**	*****	**0.0**	**74.2**	**0.0**	**0.0**	**74.3**
1971	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	78.3	0.0	0.0	78.3
1972	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	81.4	0.0	0.0	81.4
1973	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	86.0	0.0	0.0	86.0
1974	0.0	0.0	0.0	0.1	0.0	*	0.0	*	0.0	101.1	0.0	0.0	101.2
1975	**0.0**	**0.0**	**0.0**	*****	**0.0**	*****	**0.0**	*****	**0.0**	**106.9**	**0.0**	**0.0**	**107.0**
1976	0.0	0.0	0.0	0.1	0.0	*	0.0	*	0.0	107.6	0.0	0.0	107.7
1977	0.0	0.0	0.0	0.7	0.0	*	0.0	*	0.0	70.4	0.0	0.0	71.2
1978	0.0	0.0	0.0	*	0.0	*	0.0	*	0.0	102.3	0.0	0.0	102.3
1979	0.0	0.0	0.0	0.5	0.0	*	0.0	*	0.0	94.9	0.0	0.0	95.4
1980	**0.0**	**0.0**	**0.0**	*****	**0.0**	*****	**0.0**	*****	**0.0**	**98.8**	**0.0**	**0.0**	**98.8**
1981	0.0	0.0	0.0	*	0.0	*	0.0	*	0.0	99.4	0.0	0.0	99.4
1982	0.0	0.0	0.0	*	0.0	*	0.0	*	0.0	121.2	0.0	0.0	121.2
1983	0.0	0.0	0.0	*	0.0	*	0.0	*	0.0	134.4	0.0	0.0	134.4
1984	0.0	0.0	0.0	*	0.0	*	0.0	*	0.0	136.2	0.0	0.0	136.2
1985	**0.0**	**0.0**	**0.0**	*****	**0.0**	*****	**0.0**	*****	**0.0**	**112.9**	**0.0**	**0.0**	**112.9**
1986	0.0	0.0	0.0	*	0.0	*	0.0	*	0.0	124.7	0.0	0.0	124.7
1987	0.0	0.0	0.0	*	0.0	*	0.0	*	0.0	83.5	0.0	0.0	83.5
1988	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	70.1	0.0	0.0	70.1
1989	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	92.5	0.0	0.0	92.5

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 93. Energy Consumption Estimates by Source, 1960–1989, Illinois

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**39,674**	**518**	**7,244**	**3,733**	**42,592**	**4,356**	**5,369**	**14,958**	**2,672**	**78,026**	**26,533**	**12,621**	**198,104**	**254**	**185**	**0**	**0**	**-18,487**	
1961	39,219	557	6,891	2,488	42,426	5,638	5,111	14,989	2,601	79,388	26,308	12,438	198,277	528	197	0	0	-16,620	
1962	39,801	603	7,562	819	41,496	7,586	5,012	16,405	2,644	82,379	24,832	13,079	201,813	1,193	189	0	0	-12,677	
1963	39,857	641	7,301	546	41,304	9,315	5,692	17,545	2,643	84,174	25,821	13,358	207,699	934	177	0	0	-11,945	
1964	41,400	716	8,868	389	41,673	10,015	5,255	17,138	2,775	85,228	21,397	18,131	210,869	983	178	0	4	-12,052	
1965	**44,715**	**757**	**9,751**	**383**	**41,011**	**12,176**	**5,337**	**18,763**	**2,616**	**88,769**	**23,091**	**18,960**	**220,858**	**965**	**175**	**0**	**3**	**-8,786**	
1966	47,550	841	11,004	294	39,175	12,534	4,175	21,105	2,718	92,528	21,878	19,778	225,188	1,407	173	0	0	-11,768	
1967	45,988	948	11,004	1,144	39,114	16,882	3,313	23,497	2,766	94,387	24,208	18,815	235,130	807	180	0	2	-7,383	
1968	45,118	994	13,125	727	42,923	20,144	3,388	25,274	3,038	100,706	24,229	19,861	253,415	919	166	0	1	-4,044	
1969	45,286	1,085	12,476	369	43,968	21,371	3,472	28,792	3,195	103,368	26,392	20,415	263,819	825	171	0	*	5,892	
1970	**42,136**	**1,174**	**12,651**	**264**	**44,495**	**22,644**	**3,583**	**28,481**	**3,255**	**107,084**	**27,949**	**23,091**	**273,498**	**2,514**	**166**	**0**	*	**5,391**	
1971	39,175	1,229	11,392	232	49,502	24,037	3,234	29,013	3,221	108,295	23,909	21,939	274,775	4,374	136	0	0	12,053	
1972	39,798	1,207	10,933	174	53,936	27,844	4,317	32,971	3,450	113,860	30,007	26,198	303,690	13,067	150	0	0	5,460	
1973	41,485	1,150	12,456	138	52,984	29,099	4,485	34,254	3,813	119,028	30,034	28,540	314,831	20,051	129	0	0	-1,608	
1974	41,258	1,149	10,735	119	52,683	25,177	3,274	35,429	3,652	115,828	29,441	28,292	304,629	19,592	124	0	0	1,610	
1975	**40,374**	**1,095**	**10,213**	**82**	**51,249**	**24,769**	**2,622**	**35,135**	**3,120**	**118,637**	**28,142**	**27,923**	**301,890**	**22,315**	**122**	**0**	**0**	**-4,391**	
1976	40,901	1,175	9,893	69	57,267	25,516	1,456	39,716	3,466	122,716	24,862	28,162	313,122	26,455	130	0	0	-15,675	
1977	40,772	1,167	11,070	90	57,019	27,132	1,424	39,432	3,470	124,746	27,370	28,922	320,675	28,547	129	0	0	-6,902	
1978	39,969	1,175	11,584	21	59,277	27,136	1,841	39,467	3,727	130,532	29,627	30,612	333,824	32,926	129	0	0	-9,796	
1979	40,204	1,143	10,792	13	48,668	24,334	920	51,784	3,900	119,113	29,176	30,757	319,457	27,463	130	0	0	-179	
1980	**40,147**	**1,090**	**8,094**	**132**	**36,704**	**19,664**	**606**	**38,811**	**3,473**	**109,062**	**28,271**	**29,350**	**274,168**	**27,742**	**138**	**0**	**0**	**4,045**	
1981	37,523	1,062	6,089	272	34,511	16,928	666	34,147	3,330	107,296	20,791	20,715	244,746	29,483	134	0	0	6,167	
1982	36,572	994	4,860	216	32,568	16,642	439	26,872	3,037	105,170	15,466	19,034	224,305	27,625	124	0	0	14,323	
1983	39,881	938	5,365	234	34,788	15,944	638	27,037	3,180	106,955	13,700	20,784	228,624	28,021	134	0	0	15,602	
1984	38,394	1,033	5,727	201	36,415	2,687	642	31,310	3,391	105,079	11,821	21,107	218,378	34,976	141	0	0	7,194	
1985	**37,706**	**962**	**7,502**	**212**	**32,189**	**2,748**	**1,148**	**33,891**	**3,160**	**111,087**	**7,250**	**19,838**	**219,025**	**39,106**	**136**	**0**	**0**	**5,733**	
1986	36,548	924	6,185	209	35,132	2,054	409	36,627	3,090	108,643	9,156	23,476	224,980	42,614	141	0	0	-981	
1987	34,699	873	6,315	159	34,129	1,997	267	42,328	3,493	110,253	7,127	25,314	231,382	50,194	107	0	0	-4,026	
1988	33,073	965	5,604	187	33,662	3,956	315	46,634	3,369	116,201	6,194	28,072	244,193	69,166	65	0	0	-32,059	
1989	32,458	992	8,052	192	34,565	4,497	397	15,984	3,455	115,487	4,723	27,942	215,295	74,820	67	0	0	-48,154	
													Trillion Btu						
1960	**914.7**	**536.1**	**48.1**	**18.8**	**248.1**	**24.4**	**30.4**	**60.0**	**16.2**	**409.9**	**166.8**	**75.5**	**1,098.3**	**3.0**	**2.0**	**0.0**	**0.0**	**-63.1**	**2,491.0**
1961	899.2	576.6	45.7	12.6	247.1	31.7	29.0	60.1	15.8	417.0	165.4	74.4	1,098.9	6.1	2.1	0.0	0.0	-56.7	2,526.1
1962	912.5	624.0	50.2	4.1	241.7	42.7	28.4	65.8	16.0	432.7	156.1	78.3	1,116.2	13.9	2.0	0.0	0.0	-43.3	2,625.3
1963	912.4	655.7	48.4	2.8	240.6	52.5	32.3	70.4	16.0	442.2	162.3	79.6	1,147.1	11.1	1.9	0.0	0.0	-40.8	2,687.4
1964	944.5	737.3	58.9	2.0	242.7	56.5	29.8	68.7	16.8	447.7	134.5	105.2	1,162.9	11.7	1.9	0.0	*	-41.1	2,817.2
1965	**1,014.5**	**778.7**	**64.7**	**1.9**	**238.9**	**68.8**	**30.3**	**75.3**	**15.9**	**466.3**	**145.2**	**110.0**	**1,217.2**	**11.4**	**1.8**	**0.0**	*	**-30.0**	**2,993.6**
1966	1,072.1	868.6	73.0	1.5	228.2	70.8	23.7	84.7	16.5	486.0	137.5	114.5	1,236.4	16.4	1.8	0.0	0.0	-40.2	3,155.1
1967	1,030.7	979.6	73.0	5.8	227.8	95.4	18.8	90.2	16.8	495.8	152.2	109.1	1,284.9	9.3	1.9	0.0	*	-25.2	3,281.3
1968	1,006.2	1,027.2	87.1	3.7	250.0	113.9	19.2	96.5	18.4	529.0	152.3	115.0	1,385.2	10.4	1.7	0.0	*	-13.8	3,416.9
1969	1,012.7	1,121.2	82.8	1.9	256.1	120.9	19.7	109.6	19.4	543.0	165.9	118.0	1,437.2	9.1	1.8	0.0	*	20.1	3,602.2
1970	**920.3**	**1,203.2**	**84.0**	**1.3**	**259.2**	**128.2**	**20.3**	**107.6**	**19.7**	**562.5**	**175.7**	**133.9**	**1,492.5**	**27.6**	**1.7**	**0.0**	*	**18.4**	**3,663.7**
1971	843.8	1,260.0	75.6	1.2	288.4	136.0	18.3	109.4	19.5	568.9	150.3	127.6	1,495.2	47.4	1.4	0.0	0.0	41.1	3,689.0
1972	852.2	1,237.5	72.5	0.9	314.2	157.6	24.5	124.0	20.9	598.1	188.7	152.9	1,654.2	141.0	1.6	0.0	0.0	18.6	3,905.1
1973	884.6	1,176.7	82.7	0.7	308.6	164.8	25.4	128.3	23.1	625.3	188.8	166.8	1,714.5	218.6	1.3	0.0	0.0	-5.5	3,990.3
1974	874.9	1,175.8	71.2	0.6	306.9	142.5	18.6	132.1	22.2	608.4	185.1	165.2	1,652.8	218.7	1.3	0.0	0.0	5.5	3,929.0
1975	**845.6**	**1,123.6**	**67.8**	**0.4**	**298.5**	**140.2**	**14.9**	**130.5**	**18.9**	**623.2**	**176.9**	**163.5**	**1,634.9**	**245.8**	**1.3**	**0.0**	**0.0**	**-15.0**	**3,836.1**
1976	862.2	1,204.6	65.7	0.3	333.6	144.5	8.3	147.4	21.0	644.6	156.3	164.6	1,686.3	292.2	1.3	0.0	0.0	-53.5	3,993.2
1977	860.6	1,199.8	73.5	0.5	332.1	153.6	8.1	145.0	21.0	655.3	172.1	169.0	1,730.1	307.4	1.4	0.0	0.0	-23.5	4,075.7
1978	841.6	1,196.4	76.9	0.1	345.3	153.7	10.4	144.8	22.6	685.7	186.3	178.4	1,804.1	360.2	1.3	0.0	0.0	-33.4	4,170.3
1979	845.4	1,170.6	71.6	0.1	283.5	137.8	5.2	190.6	23.7	625.7	183.4	178.4	1,700.0	298.8	1.3	0.0	0.0	-0.6	4,015.5
1980	**844.5**	**1,113.7**	**53.7**	**0.7**	**213.8**	**111.3**	**3.4**	**142.6**	**21.1**	**572.9**	**177.7**	**169.7**	**1,466.9**	**302.6**	**1.4**	**0.0**	**0.0**	**13.8**	**3,742.9**
1981	796.6	1,083.2	40.4	1.4	201.0	95.8	3.8	124.4	20.2	563.6	130.7	120.8	1,302.1	325.2	1.4	0.0	0.0	21.0	3,529.5
1982	778.5	1,016.1	32.3	1.1	189.7	94.2	2.5	97.1	18.4	552.5	97.2	111.4	1,196.4	305.9	1.3	0.0	0.0	48.9	3,347.0
1983	848.2	976.8	35.6	1.2	202.6	90.2	3.6	97.7	19.3	561.8	86.1	121.9	1,220.1	305.6	1.4	0.0	0.0	53.2	3,405.3
1984	833.2	1,074.1	38.0	1.0	212.1	15.0	3.6	112.7	20.6	552.0	74.3	121.3	1,150.6	379.2	1.5	0.0	0.0	24.5	3,463.1
1985	**811.1**	**1,000.5**	**49.8**	**1.1**	**187.5**	**15.4**	**6.5**	**122.1**	**19.2**	**583.5**	**45.6**	**115.8**	**1,146.4**	**422.9**	**1.4**	**0.0**	**0.0**	**19.6**	**3,401.8**
1986	787.4	943.7	41.0	1.1	204.6	11.5	2.3	133.3	18.7	570.7	57.6	136.8	1,177.6	460.2	1.5	0.0	0.0	-3.3	3,367.0
1987	757.8	886.5	41.9	0.8	198.8	11.1	1.5	154.9	21.2	579.2	44.8	145.9	1,200.1	540.9	1.1	0.0	0.0	-13.7	3,372.7
1988	720.2	982.8	37.2	0.9	196.1	22.2	1.8	170.3	20.4	610.4	38.9	162.4	1,260.7	743.1	0.7	0.0	0.0	-109.4	3,598.0
1989	714.3	1,013.9	53.4	1.0	201.3	25.3	2.3	58.9	21.0	606.7	29.7	160.8	1,160.3	802.4	0.7	0.0	0.0	-164.3	3,527.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 94. Residential Energy Consumption Estimates, 1960–1989, Illinois

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**2,229**	**4**	**2,233**	**232**	**15,330**	**2,052**	**5,192**	**22,574**	**9,969**	**24,797**		
1961	1,934	4	1,937	252	15,420	2,302	4,950	22,672	10,809	26,344		
1962	2,048	3	2,051	277	14,944	2,369	5,410	22,723	11,475	27,586		
1963	1,732	3	1,735	290	13,772	2,548	5,800	22,120	12,267	29,336		
1964	1,479	3	1,482	315	13,544	2,390	5,011	20,945	13,315	31,711		
1965	**1,380**	**3**	**1,383**	**342**	**13,154**	**2,518**	**5,989**	**21,661**	**14,173**	**33,839**		
1966	1,488	2	1,490	354	12,239	1,844	7,120	21,203	15,775	37,851		
1967	1,332	2	1,334	382	12,035	828	8,046	20,910	16,663	39,808		
1968	1,032	2	1,034	392	12,549	1,197	8,093	21,839	18,765	44,773		
1969	1,047	2	1,049	434	12,119	1,275	8,962	22,356	20,546	49,079		
1970	**768**	**2**	**770**	**439**	**11,980**	**1,336**	**8,616**	**21,932**	**22,533**	**54,604**		
1971	690	2	691	463	12,208	1,214	8,732	22,155	23,977	57,969		
1972	473	1	475	488	12,769	1,716	9,675	24,159	25,462	61,287		
1973	348	1	349	446	12,340	1,809	9,346	23,495	27,179	65,067		
1974	364	1	365	462	12,006	1,419	8,933	22,358	26,880	65,540		
1975	**268**	**1**	**268**	**479**	**12,384**	**1,225**	**9,145**	**22,754**	**26,366**	**63,599**		
1976	323	1	324	508	14,727	571	9,828	25,126	26,308	63,372		
1977	278	1	279	520	14,315	464	9,330	24,109	28,157	67,990		
1978	291	1	291	521	15,171	740	9,153	25,064	29,096	71,183		
1979	115	*	116	496	8,361	419	5,151	13,931	29,288	70,682		
1980	**65**	**1**	**65**	**478**	**3,512**	**161**	**4,051**	**7,724**	**29,930**	**72,780**		
1981	89	2	91	467	2,618	149	4,050	6,817	28,380	67,636		
1982	122	1	122	459	2,667	335	3,992	6,994	28,600	68,693		
1983	161	2	163	431	1,927	183	4,749	6,858	30,740	73,646		
1984	158	1	159	480	2,081	328	5,233	7,641	30,431	70,666		
1985	**94**	**1**	**94**	**447**	**2,258**	**864**	**5,818**	**8,940**	**29,976**	**70,293**		
1986	94	0	94	437	2,196	204	4,806	7,206	30,965	70,995		
1987	100	1	101	408	1,907	132	4,624	6,662	31,995	72,918		
1988	93	1	95	462	2,122	195	4,842	7,158	33,980	76,738		
1989	107	1	108	496	1,581	225	5,128	6,933	32,378	72,627		
										Net Energy[4]		Total[4]
					Trillion Btu							
1960	**53.6**	**0.1**	**53.7**	**240.2**	**89.3**	**11.6**	**20.8**	**121.8**	**34.0**	**449.7**	**84.6**	**534.3**
1961	46.4	0.1	46.5	260.5	89.8	13.1	19.9	122.7	36.9	466.7	89.9	556.6
1962	49.2	0.1	49.3	286.3	87.0	13.4	21.7	122.2	39.2	496.9	94.1	591.0
1963	41.5	0.1	41.6	296.2	80.2	14.4	23.3	117.9	41.9	497.6	100.1	597.7
1964	35.5	0.1	35.5	324.4	78.9	13.5	20.1	112.5	45.4	517.9	108.2	626.1
1965	**33.0**	**0.1**	**33.1**	**351.9**	**76.6**	**14.3**	**24.0**	**114.9**	**48.4**	**548.2**	**115.5**	**663.7**
1966	35.4	0.1	35.5	366.0	71.3	10.5	28.6	110.3	53.8	565.6	129.1	694.7
1967	31.6	*	31.7	394.9	70.1	4.7	30.9	105.7	56.9	589.1	135.8	724.9
1968	24.5	*	24.5	405.3	73.1	6.8	30.9	110.8	64.0	604.6	152.8	757.4
1969	24.7	*	24.7	448.4	70.6	7.2	34.1	111.9	70.1	655.1	167.5	822.6
1970	**17.7**	*	**17.8**	**450.1**	**69.8**	**7.6**	**32.6**	**109.9**	**76.9**	**654.7**	**186.3**	**841.0**
1971	15.8	*	15.8	474.2	71.1	6.9	32.9	110.9	81.8	682.8	197.8	880.6
1972	10.8	*	10.8	499.9	74.4	9.7	36.4	120.5	86.9	718.2	209.1	927.3
1973	8.0	*	8.0	455.9	71.9	10.3	35.0	117.1	92.7	673.8	222.0	895.8
1974	8.2	*	8.2	472.2	69.9	8.0	33.3	111.3	91.7	683.5	223.6	907.1
1975	**6.0**	*	**6.0**	**491.0**	**72.1**	**6.9**	**34.0**	**113.1**	**90.0**	**700.1**	**217.0**	**917.1**
1976	7.2	*	7.3	520.6	85.8	3.2	36.5	125.5	89.8	743.1	216.2	959.3
1977	6.2	*	6.2	534.5	83.4	2.6	34.3	120.3	96.1	757.1	232.0	989.1
1978	6.5	*	6.5	530.0	88.4	4.2	33.6	126.1	99.3	761.9	242.9	1,004.7
1979	2.6	*	2.6	507.7	48.7	2.4	19.0	70.0	99.9	680.3	241.2	921.4
1980	**1.4**	*	**1.4**	**489.0**	**20.5**	**0.9**	**14.9**	**36.3**	**102.1**	**628.8**	**248.3**	**877.1**
1981	2.0	0.1	2.0	476.7	15.2	0.8	14.8	30.8	96.8	606.4	230.8	837.2
1982	2.7	*	2.7	468.7	15.5	1.9	14.4	31.9	97.6	600.8	234.4	835.2
1983	3.6	*	3.6	448.3	11.2	1.0	17.2	29.4	104.9	586.3	251.3	837.5
1984	3.5	*	3.5	498.8	12.1	1.9	18.8	32.8	103.8	639.0	241.1	880.1
1985	**2.1**	*	**2.1**	**464.5**	**13.2**	**4.9**	**21.0**	**39.0**	**102.3**	**607.9**	**239.8**	**847.7**
1986	2.1	0.0	2.1	446.2	12.8	1.2	17.5	31.4	105.7	585.4	242.2	827.7
1987	2.3	*	2.3	414.0	11.1	0.7	16.9	28.8	109.2	554.2	248.8	803.0
1988	2.1	*	2.1	470.7	12.4	1.1	17.7	31.1	115.9	619.9	261.8	881.7
1989	2.4	*	2.4	507.4	9.2	1.3	18.9	29.4	110.5	649.7	247.8	897.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 95. Commercial Energy Consumption Estimates, 1960–1989, Illinois

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**4,139**	**3**	**4,142**	**47**	**4,834**	**78**	**916**	**358**	**8,336**	**14,523**	**9,994**	**24,859**		
1961	3,591	3	3,593	58	4,863	88	874	393	8,146	14,364	11,216	27,336		
1962	3,803	2	3,805	68	4,712	90	955	439	7,737	13,934	12,372	29,742		
1963	3,216	2	3,218	75	4,343	97	1,024	454	7,725	13,643	13,138	31,418		
1964	2,747	2	2,749	102	4,271	91	884	439	6,458	12,143	14,054	33,471		
1965	**2,563**	**2**	**2,565**	**129**	**4,148**	**96**	**1,057**	**469**	**7,453**	**13,223**	**15,072**	**35,986**		
1966	2,763	1	2,764	161	3,859	70	1,256	465	6,719	12,370	17,058	40,930		
1967	2,475	1	2,476	175	3,795	32	1,420	483	7,688	13,418	18,418	44,000		
1968	1,917	1	1,918	175	3,957	46	1,428	509	7,586	13,526	19,815	47,278		
1969	1,945	1	1,946	189	3,822	49	1,582	526	7,921	13,899	21,117	50,441		
1970	**1,427**	**1**	**1,428**	**193**	**3,778**	**51**	**1,520**	**533**	**7,627**	**13,509**	**22,463**	**54,436**		
1971	1,281	1	1,282	210	3,850	46	1,541	539	5,001	10,977	23,531	56,889		
1972	879	1	880	224	4,027	66	1,707	543	5,288	11,630	24,731	59,528		
1973	646	1	647	219	3,891	69	1,649	607	5,224	11,441	26,766	64,078		
1974	676	1	677	216	3,786	54	1,576	599	5,456	11,471	26,582	64,813		
1975	**497**	**1**	**498**	**216**	**3,905**	**47**	**1,614**	**678**	**4,960**	**11,203**	**28,094**	**67,767**		
1976	599	1	600	247	4,644	22	1,734	712	4,085	11,197	29,293	70,561		
1977	517	1	518	244	4,514	18	1,646	742	3,949	10,869	30,666	74,050		
1978	540	*	540	252	4,784	28	1,615	788	3,978	11,193	32,286	78,988		
1979	214	*	214	237	2,637	16	909	823	4,144	8,528	32,242	77,812		
1980	**120**	*	**121**	**228**	**2,100**	**16**	**715**	**1,008**	**2,633**	**6,471**	**31,591**	**76,818**		
1981	164	2	166	223	4,060	14	715	1,072	1,248	7,108	32,846	78,280		
1982	226	*	227	219	3,130	7	704	1,077	1,032	5,951	33,061	79,408		
1983	299	1	300	205	4,722	19	838	590	1,048	7,215	33,754	80,867		
1984	294	*	294	232	5,099	15	923	451	965	7,454	34,136	79,268		
1985	**174**	*	**175**	**214**	**3,975**	**145**	**1,027**	**549**	**412**	**6,108**	**32,609**	**76,468**		
1986	174	0	174	205	1,985	99	848	575	1,072	4,580	33,657	77,168		
1987	186	*	187	191	1,648	37	816	552	952	4,004	35,883	81,778		
1988	174	1	174	215	1,956	53	854	546	622	4,033	37,759	85,271		
1989	198	1	199	196	1,409	68	905	469	291	3,142	38,082	85,421		
	Trillion Btu													
1960	**99.5**	**0.1**	**99.6**	**48.9**	**28.2**	**0.4**	**3.7**	**1.9**	**52.4**	**86.6**	**34.1**	**269.1**	**84.8**	**354.0**
1961	86.3	0.1	86.3	59.9	28.3	0.5	3.5	2.1	51.2	85.6	38.3	270.1	93.3	363.4
1962	91.3	0.1	91.4	70.8	27.5	0.5	3.8	2.3	48.6	82.7	42.2	287.1	101.5	388.6
1963	77.2	*	77.2	76.6	25.3	0.6	4.1	2.4	48.6	80.9	44.8	279.6	107.2	386.8
1964	65.8	*	65.9	105.4	24.9	0.5	3.5	2.3	40.6	71.8	48.0	291.1	114.2	405.3
1965	**61.3**	*	**61.3**	**132.7**	**24.2**	**0.5**	**4.2**	**2.5**	**46.9**	**78.3**	**51.4**	**323.8**	**122.8**	**446.5**
1966	65.8	*	65.8	166.4	22.5	0.4	5.0	2.4	42.2	72.6	58.2	363.1	139.7	502.7
1967	58.7	*	58.7	181.1	22.1	0.2	5.4	2.5	48.3	78.6	62.8	381.3	150.1	531.4
1968	45.4	*	45.5	180.3	23.1	0.3	5.5	2.7	47.7	79.1	67.6	372.5	161.3	533.8
1969	45.8	*	45.8	195.2	22.3	0.3	6.0	2.8	49.8	81.1	72.0	394.2	172.1	566.3
1970	**33.0**	*	**33.0**	**198.3**	**22.0**	**0.3**	**5.7**	**2.8**	**47.9**	**78.8**	**76.6**	**386.7**	**185.7**	**572.4**
1971	29.4	*	29.4	215.7	22.4	0.3	5.8	2.8	31.4	62.8	80.3	388.1	194.1	582.2
1972	20.1	*	20.1	230.1	23.5	0.4	6.4	2.9	33.2	66.3	84.4	400.9	203.1	604.0
1973	14.8	*	14.8	223.5	22.7	0.4	6.2	3.2	32.8	65.3	91.3	394.9	218.6	613.6
1974	15.2	*	15.2	221.0	22.1	0.3	5.9	3.1	34.3	65.7	90.7	392.7	221.1	613.8
1975	**11.2**	*	**11.2**	**221.3**	**22.7**	**0.3**	**6.0**	**3.6**	**31.2**	**63.8**	**95.9**	**392.1**	**231.2**	**623.3**
1976	13.5	*	13.5	252.8	27.1	0.1	6.4	3.7	25.7	63.0	99.9	429.3	240.8	670.0
1977	11.5	*	11.5	250.5	26.3	0.1	6.1	3.9	24.8	61.2	104.6	427.8	252.7	680.5
1978	12.0	*	12.0	256.5	27.9	0.2	5.9	4.1	25.0	63.1	110.2	441.7	269.5	711.2
1979	4.8	*	4.8	243.0	15.4	0.1	3.3	4.3	26.1	49.2	110.0	407.0	265.5	672.5
1980	**2.7**	*	**2.7**	**233.2**	**12.2**	**0.1**	**2.6**	**5.3**	**16.6**	**36.8**	**107.8**	**380.4**	**262.1**	**642.5**
1981	3.6	*	3.7	227.9	23.7	0.1	2.6	5.6	7.8	39.8	112.1	383.4	267.1	650.5
1982	5.0	*	5.0	223.6	18.2	*	2.5	5.7	6.5	33.0	112.8	374.3	270.9	645.3
1983	6.6	*	6.7	213.3	27.5	0.1	3.0	3.1	6.6	40.3	115.2	375.4	275.9	651.3
1984	6.5	*	6.5	241.5	29.7	0.1	3.3	2.4	6.1	41.5	116.5	406.0	270.5	676.5
1985	**3.9**	*	**3.9**	**222.1**	**23.2**	**0.8**	**3.7**	**2.9**	**2.6**	**33.2**	**111.3**	**370.4**	**260.9**	**631.3**
1986	3.9	0.0	3.9	209.3	11.6	0.6	3.1	3.0	6.7	25.0	114.8	353.0	263.3	616.3
1987	4.2	*	4.2	193.9	9.6	0.2	3.0	2.9	6.0	21.7	122.4	342.2	279.0	621.2
1988	3.9	*	3.9	219.1	11.4	0.3	3.1	2.9	3.9	21.6	128.8	373.5	290.9	664.4
1989	4.5	*	4.5	200.5	8.2	0.4	3.3	2.5	1.8	16.2	129.9	351.1	291.5	642.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 96. Industrial Energy Consumption Estimates, 1960–1989, Illinois

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**13,596**	**246**	**13,842**	**186**	**7,244**	**13,545**	**3,239**	**8,534**	**1,340**	**6,476**	**16,835**	**12,621**	**69,833**	**19**	**13,722**	**34,131**
1961	13,416	219	13,635	204	6,891	13,418	2,721	8,831	1,304	6,000	16,934	12,438	68,536	20	13,448	32,776
1962	13,634	203	13,837	207	7,562	12,897	2,552	9,679	1,372	6,772	16,264	13,079	70,176	19	14,540	34,955
1963	13,498	225	13,723	218	7,301	12,144	3,047	10,359	1,371	6,338	17,238	13,358	71,155	22	15,689	37,520
1964	14,121	257	14,378	236	8,868	12,131	2,774	10,926	1,440	6,062	14,313	18,131	74,646	22	17,126	40,787
1965	**15,444**	**225**	**15,669**	**238**	**9,751**	**12,074**	**2,723**	**11,399**	**1,321**	**6,512**	**15,064**	**18,960**	**77,803**	**17**	**18,708**	**44,668**
1966	15,458	192	15,650	267	11,004	11,784	2,260	12,323	1,372	4,907	13,953	19,778	77,382	19	19,913	47,781
1967	13,492	191	13,683	326	11,004	11,270	2,453	13,464	1,533	4,669	15,543	18,815	78,752	19	20,376	48,678
1968	12,519	166	12,685	337	13,125	12,102	2,145	15,156	1,684	6,080	15,642	19,861	85,794	20	22,377	53,390
1969	12,186	138	12,323	359	12,476	12,776	2,148	17,653	1,979	5,542	17,164	20,415	90,153	18	24,444	58,391
1970	**10,813**	**115**	**10,928**	**381**	**12,651**	**10,836**	**2,196**	**17,818**	**2,015**	**6,017**	**16,694**	**23,091**	**91,319**	**20**	**25,647**	**62,151**
1971	8,988	89	9,077	407	11,392	11,698	1,973	18,151	1,968	6,416	11,681	21,939	85,219	19	26,854	64,923
1972	8,699	56	8,755	399	10,933	11,818	2,536	21,048	2,108	4,038	16,701	26,198	95,378	17	29,820	71,777
1973	7,676	53	7,729	425	12,456	11,472	2,607	22,767	2,152	5,302	16,627	28,540	101,923	16	32,568	77,969
1974	7,678	58	7,736	410	10,735	10,725	1,801	24,406	2,061	5,179	16,679	28,292	99,877	18	32,272	78,687
1975	**7,184**	**73**	**7,257**	**352**	**10,213**	**11,138**	**1,351**	**23,889**	**1,668**	**4,290**	**15,728**	**27,923**	**96,199**	**19**	**30,330**	**73,160**
1976	6,376	81	6,457	374	9,893	12,641	863	27,590	1,853	4,583	13,635	28,162	99,221	18	32,183	77,522
1977	5,965	67	6,032	370	11,070	12,522	943	27,839	1,957	4,033	13,749	28,922	101,034	21	33,796	81,607
1978	5,588	57	5,645	367	11,584	13,412	1,073	27,976	2,102	3,163	12,467	30,612	102,389	17	35,802	87,590
1979	5,351	36	5,387	360	10,792	8,978	485	45,463	2,200	2,846	11,704	30,757	113,225	18	36,003	86,887
1980	**5,286**	**64**	**5,350**	**349**	**8,094**	**7,842**	**429**	**33,867**	**1,959**	**3,505**	**12,598**	**29,350**	**97,643**	**17**	**35,158**	**85,492**
1981	4,787	67	4,854	346	6,089	6,893	503	29,017	1,878	3,008	9,950	20,715	78,053	17	33,700	80,316
1982	4,682	21	4,703	292	4,860	7,684	97	21,694	1,713	2,287	7,240	19,034	64,610	17	30,434	73,098
1983	5,139	14	5,153	281	5,365	6,638	437	20,878	1,793	2,054	6,771	20,784	64,721	17	32,349	77,500
1984	5,848	39	5,887	304	5,727	7,169	299	24,292	1,912	1,935	6,238	21,107	68,680	17	34,032	79,027
1985	**5,804**	**25**	**5,829**	**285**	**7,502**	**6,373**	**138**	**26,497**	**1,782**	**1,738**	**4,104**	**19,838**	**67,973**	**17**	**36,178**	**84,837**
1986	5,413	23	5,436	268	6,185	9,259	106	30,519	1,743	1,572	3,826	23,476	76,686	17	36,786	84,340
1987	5,500	18	5,518	265	6,315	9,600	98	36,556	1,970	1,566	2,835	25,314	84,256	17	36,575	83,356
1988	6,118	5	6,123	269	5,604	7,841	67	40,533	1,900	1,499	3,198	28,072	88,713	17	37,942	85,685
1989	6,390	4	6,394	279	8,052	6,907	104	9,626	1,949	1,418	2,836	27,942	58,832	17	38,481	86,317

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Million Kilowatthours	
1960	**981.7**	**1,098.1**
1961	985.0	1,096.8
1962	1,004.9	1,124.2
1963	1,018.9	1,146.9
1964	1,077.8	1,216.9
1965	**1,133.5**	**1,285.9**
1966	1,163.7	1,326.7
1967	1,181.6	1,347.7
1968	1,213.9	1,396.1
1969	1,256.0	1,455.2
1970	**1,248.0**	**1,460.0**
1971	1,195.2	1,416.7
1972	1,244.7	1,489.6
1973	1,292.1	1,558.2
1974	1,258.4	1,526.8
1975	**1,162.2**	**1,411.8**
1976	1,179.6	1,444.1
1977	1,182.1	1,460.5
1978	1,179.8	1,478.7
1979	1,195.0	1,491.5
1980	**1,110.2**	**1,401.9**
1981	983.8	1,257.8
1982	851.6	1,101.0
1983	866.8	1,131.2
1984	927.5	1,197.1
1985	**906.9**	**1,196.4**
1986	916.8	1,204.6
1987	942.7	1,227.1
1988	983.5	1,275.9
1989	900.0	1,194.5

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity: Net Energy[4]	Electricity: Total[4]	Electrical System Energy Losses[3]
	Trillion Btu																
1960	**332.7**	**6.1**	**338.8**	**192.7**	**48.1**	**78.9**	**18.4**	**34.2**	**8.1**	**34.0**	**105.8**	**75.5**	**403.1**	**0.2**	**46.8**	**981.7**	**116.5**	**1,098.1**
1961	327.7	5.4	333.1	210.7	45.7	78.2	15.4	35.4	7.9	31.5	106.5	74.4	395.1	0.2	45.9	985.0	111.8	1,096.8
1962	333.2	5.0	338.2	213.8	50.2	75.1	14.5	38.8	8.3	35.6	102.2	78.3	403.0	0.2	49.6	1,004.9	119.3	1,124.2
1963	329.2	5.4	334.7	222.9	48.4	70.7	17.3	41.5	8.3	33.3	108.4	79.6	407.6	0.2	53.5	1,018.9	128.0	1,146.9
1964	345.0	6.2	351.2	243.0	58.9	70.7	15.7	43.8	8.7	31.8	90.0	105.2	424.9	0.2	58.4	1,077.8	139.2	1,216.9
1965	**376.2**	**5.5**	**381.7**	**244.6**	**64.7**	**70.3**	**15.4**	**45.7**	**8.0**	**34.2**	**94.7**	**110.0**	**443.1**	**0.2**	**63.8**	**1,133.5**	**152.4**	**1,285.9**
1966	375.0	4.6	379.6	275.7	73.0	68.6	12.8	49.4	8.3	25.8	87.7	114.5	440.2	0.2	67.9	1,163.7	163.0	1,326.7
1967	326.2	4.5	330.7	336.3	73.0	65.6	13.9	51.7	9.3	24.5	97.7	109.1	444.9	0.2	69.5	1,181.6	166.1	1,347.7
1968	302.3	3.9	306.2	348.0	87.1	70.5	12.2	57.9	10.2	31.9	98.3	115.0	483.2	0.2	76.3	1,213.9	182.2	1,396.1
1969	294.4	3.2	297.6	371.1	82.8	74.4	12.2	67.2	12.0	29.1	107.9	118.0	503.6	0.2	83.4	1,256.0	199.2	1,455.2
1970	**257.5**	**2.7**	**260.2**	**390.5**	**84.0**	**63.1**	**12.5**	**67.3**	**12.2**	**31.6**	**105.0**	**133.9**	**509.6**	**0.2**	**87.5**	**1,248.0**	**212.1**	**1,460.0**
1971	213.9	2.1	216.0	417.3	75.6	68.1	11.2	68.5	11.9	33.7	73.4	127.6	470.0	0.2	91.6	1,195.2	221.5	1,416.7
1972	205.9	1.3	207.2	408.8	72.5	68.8	14.4	79.1	12.8	21.2	105.0	152.9	526.8	0.2	101.7	1,244.7	244.9	1,489.6
1973	183.1	1.2	184.3	434.8	82.7	66.8	14.8	85.3	13.1	27.9	104.5	166.8	561.8	0.2	111.1	1,292.1	266.0	1,558.2
1974	183.1	1.3	184.4	419.0	71.2	62.5	10.2	91.0	12.5	27.2	104.9	165.2	544.7	0.2	110.1	1,258.4	268.5	1,526.8
1975	**171.3**	**1.6**	**172.9**	**361.4**	**67.8**	**64.9**	**7.7**	**88.7**	**10.1**	**22.5**	**98.9**	**163.5**	**524.1**	**0.2**	**103.5**	**1,162.2**	**249.6**	**1,411.8**
1976	152.7	1.8	154.6	382.8	65.7	73.6	4.9	102.4	11.2	24.1	85.7	164.6	532.2	0.2	109.8	1,179.6	264.5	1,444.1
1977	142.1	1.6	143.8	380.2	73.5	72.9	5.3	102.4	11.9	21.2	86.4	169.0	542.6	0.2	115.3	1,182.1	278.4	1,460.5
1978	132.9	1.4	134.3	373.3	76.9	78.1	6.1	102.6	12.7	16.6	78.4	178.4	549.9	0.2	122.2	1,179.8	298.9	1,478.7
1979	128.1	0.9	129.0	368.7	71.6	52.3	2.7	167.3	13.3	14.9	73.6	178.4	574.3	0.2	122.8	1,195.0	296.5	1,491.5
1980	**126.2**	**1.5**	**127.7**	**357.0**	**53.7**	**45.7**	**2.4**	**124.4**	**11.9**	**18.4**	**79.2**	**169.7**	**505.4**	**0.2**	**120.0**	**1,110.2**	**291.7**	**1,401.9**
1981	114.7	1.6	116.3	352.7	40.4	40.1	2.9	105.7	11.4	15.8	62.6	120.8	399.6	0.2	115.0	983.8	274.0	1,257.8
1982	112.9	0.5	113.4	298.8	32.3	44.8	0.6	78.4	10.4	12.0	45.5	111.4	335.3	0.2	103.8	851.6	249.4	1,101.0
1983	124.6	0.3	124.9	293.0	35.6	38.7	2.5	75.5	10.9	10.8	42.6	121.9	338.3	0.2	110.4	866.8	264.4	1,131.2
1984	143.0	1.0	144.0	316.1	38.0	41.8	1.7	87.4	11.6	10.2	39.2	121.3	351.1	0.2	116.1	927.5	269.6	1,197.1
1985	**141.8**	**0.6**	**142.3**	**296.3**	**49.8**	**37.1**	**0.8**	**95.5**	**10.8**	**9.1**	**25.8**	**115.8**	**344.7**	**0.2**	**123.4**	**906.9**	**289.5**	**1,196.4**
1986	130.8	0.6	131.4	273.5	41.0	53.9	0.6	111.1	10.6	8.3	24.1	136.8	386.3	0.2	125.5	916.8	287.8	1,204.6
1987	132.6	0.5	133.1	268.6	41.9	55.9	0.6	133.8	11.9	8.2	17.8	145.9	416.1	0.2	124.8	942.7	284.4	1,227.1
1988	146.5	0.1	146.6	274.1	37.2	45.7	0.4	148.0	11.5	7.9	20.1	162.4	433.2	0.2	129.5	983.5	292.4	1,275.9
1989	155.7	0.1	155.8	285.0	53.4	40.2	0.6	35.5	11.8	7.4	17.8	160.8	327.6	0.2	131.3	900.0	294.5	1,194.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 97. Transportation Energy Consumption Estimates, 1960–1989, Illinois

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**239**	**10**	**3,733**	**8,721**	**4,356**	**316**	**1,333**	**71,193**	**1,168**	**90,819**	**316**	**785**		
1961	62	10	2,488	8,578	5,638	334	1,297	72,995	1,050	92,379	338	825		
1962	56	9	819	8,806	7,586	362	1,272	75,168	667	94,679	341	819		
1963	51	12	546	10,928	9,315	363	1,272	77,381	716	100,521	318	760		
1964	53	12	389	11,592	10,015	316	1,336	78,727	464	102,839	284	676		
1965	**51**	**13**	**383**	**11,509**	**12,176**	**318**	**1,295**	**81,788**	**423**	**107,891**	**290**	**692**		
1966	47	15	294	11,073	12,534	405	1,346	87,157	941	113,750	308	738		
1967	33	19	1,144	11,841	16,882	567	1,232	89,234	769	121,669	272	650		
1968	28	18	727	14,009	20,144	597	1,354	94,117	632	131,581	249	594		
1969	21	22	369	14,648	21,371	595	1,216	97,300	579	136,079	235	562		
1970	**17**	**28**	**264**	**15,234**	**22,644**	**526**	**1,239**	**100,534**	**408**	**140,850**	**238**	**577**		
1971	12	23	232	17,351	24,037	589	1,253	101,340	356	145,159	233	564		
1972	9	23	174	20,788	26,460	542	1,342	109,280	227	158,812	242	583		
1973	6	21	138	22,397	28,103	491	1,661	113,119	271	166,180	229	547		
1974	4	19	119	22,121	24,366	513	1,591	110,050	323	159,082	226	551		
1975	**1**	**14**	**82**	**20,488**	**24,271**	**486**	**1,452**	**113,669**	**215**	**160,662**	**265**	**639**		
1976	1	17	69	21,875	24,985	564	1,612	117,420	261	166,787	275	663		
1977	*	19	90	22,167	26,571	616	1,513	119,971	140	171,069	284	687		
1978	0	13	21	22,443	26,464	723	1,625	126,582	126	177,983	270	660		
1979	0	19	13	26,321	23,770	261	1,700	115,445	299	167,808	313	754		
1980	**0**	**15**	**132**	**22,560**	**19,508**	**178**	**1,514**	**104,550**	**279**	**148,721**	**270**	**658**		
1981	0	12	272	20,388	16,899	365	1,452	103,216	7	142,600	299	712		
1982	0	14	216	18,560	16,596	481	1,324	101,805	26	139,009	293	705		
1983	0	10	234	20,954	15,944	572	1,386	104,312	79	143,481	256	612		
1984	0	11	201	21,653	2,687	862	1,478	102,692	128	129,701	294	683		
1985	**0**	**11**	**212**	**19,147**	**2,748**	**549**	**1,378**	**108,800**	**165**	**132,999**	**348**	**816**		
1986	0	8	209	21,233	2,054	454	1,347	106,495	92	131,884	350	803		
1987	0	7	159	20,549	1,997	332	1,523	108,134	105	132,800	336	765		
1988	0	13	187	21,191	3,956	405	1,469	114,156	366	141,730	359	812		
1989	0	14	192	24,213	4,497	325	1,506	113,601	62	144,397	360	807		
			Trillion Btu											
1960	**5.7**	**10.4**	**18.8**	**50.8**	**24.4**	**1.3**	**8.1**	**374.0**	**7.3**	**484.7**	**1.1**	**501.9**	**2.7**	**504.6**
1961	1.5	10.4	12.6	50.0	31.7	1.3	7.9	383.4	6.6	493.5	1.2	506.5	2.8	509.3
1962	1.3	9.8	4.1	51.3	42.7	1.5	7.7	394.9	4.2	506.4	1.2	518.6	2.8	521.4
1963	1.2	12.0	2.8	63.7	52.5	1.5	7.7	406.5	4.5	539.1	1.1	553.4	2.6	556.0
1964	1.3	12.6	2.0	67.5	56.5	1.3	8.1	413.6	2.9	551.8	1.0	566.6	2.3	568.9
1965	**1.2**	**13.8**	**1.9**	**67.0**	**68.8**	**1.3**	**7.9**	**429.6**	**2.7**	**579.2**	**1.0**	**595.1**	**2.4**	**597.5**
1966	1.1	15.9	1.5	64.5	70.8	1.6	8.2	457.8	5.9	610.3	1.0	628.4	2.5	630.9
1967	0.8	20.0	5.8	69.0	95.4	2.2	7.5	468.7	4.8	653.4	0.9	675.2	2.2	677.4
1968	0.6	18.1	3.7	81.6	113.9	2.3	8.2	494.4	4.0	708.0	0.9	727.6	2.0	729.7
1969	0.5	22.4	1.9	85.3	120.9	2.3	7.4	511.1	3.6	732.5	0.8	756.2	1.9	758.1
1970	**0.4**	**28.7**	**1.3**	**88.7**	**128.2**	**2.0**	**7.5**	**528.1**	**2.6**	**758.4**	**0.8**	**788.3**	**2.0**	**790.3**
1971	0.3	23.8	1.2	101.1	136.0	2.2	7.6	532.3	2.2	782.7	0.8	807.6	1.9	809.5
1972	0.2	23.8	0.9	121.1	149.8	2.0	8.1	574.0	1.4	857.4	0.8	882.2	2.0	884.2
1973	0.1	21.9	0.7	130.5	159.1	1.8	10.1	594.2	1.7	898.1	0.8	920.9	1.9	922.8
1974	0.1	19.5	0.6	128.9	137.9	1.9	9.7	578.1	2.0	859.1	0.8	879.4	1.9	881.3
1975	*****	**14.6**	**0.4**	**119.3**	**137.4**	**1.8**	**8.8**	**597.1**	**1.4**	**866.2**	**0.9**	**881.8**	**2.2**	**883.9**
1976	*	17.0	0.3	127.4	141.5	2.1	9.8	616.8	1.6	899.6	0.9	917.5	2.3	919.8
1977	*	19.7	0.5	129.1	150.5	2.3	9.2	630.2	0.9	922.6	1.0	943.3	2.3	945.6
1978	0.0	13.5	0.1	130.7	149.9	2.7	9.9	664.9	0.8	958.9	0.9	973.4	2.3	975.6
1979	0.0	19.0	0.1	153.3	134.6	1.0	10.3	606.4	1.9	907.6	1.1	927.6	2.6	930.2
1980	**0.0**	**14.9**	**0.7**	**131.4**	**110.4**	**0.7**	**9.2**	**549.2**	**1.8**	**803.3**	**0.9**	**819.1**	**2.2**	**821.3**
1981	0.0	12.4	1.4	118.8	95.6	1.3	8.8	542.2	*	768.1	1.0	781.5	2.4	784.0
1982	0.0	14.4	1.1	108.1	93.9	1.7	8.0	534.8	0.2	747.8	1.0	763.2	2.4	765.6
1983	0.0	9.9	1.2	122.1	90.2	2.1	8.4	548.0	0.5	772.4	0.9	783.2	2.1	785.3
1984	0.0	11.6	1.0	126.1	15.0	3.1	9.0	539.4	0.8	694.5	1.0	707.1	2.3	709.4
1985	**0.0**	**11.6**	**1.1**	**111.5**	**15.4**	**2.0**	**8.4**	**571.5**	**1.0**	**710.9**	**1.2**	**723.7**	**2.8**	**726.5**
1986	0.0	8.5	1.1	123.7	11.5	1.7	8.2	559.4	0.6	706.0	1.2	715.7	2.7	718.4
1987	0.0	6.9	0.8	119.7	11.1	1.2	9.2	568.0	0.7	710.8	1.1	718.8	2.6	721.4
1988	0.0	13.0	0.9	123.4	22.2	1.5	8.9	599.7	2.3	759.0	1.2	773.2	2.8	776.0
1989	0.0	13.9	1.0	141.0	25.3	1.2	9.1	596.7	0.4	774.8	1.2	789.9	2.8	792.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 98. Estimates of Energy Input at Electric Utilities, 1960–1989, Illinois

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**19,218**	**0**	**19,218**	**42**	**194**	**161**	**0**	**355**	**254**	**166**	**0**	**0**	
1961	19,991	0	19,991	34	178	148	0	326	528	177	0	0	
1962	20,052	0	20,052	42	165	136	0	301	1,193	170	0	0	
1963	21,130	0	21,130	47	142	118	0	260	934	155	0	0	
1964	22,739	0	22,739	51	162	134	0	297	983	156	0	4	
1965	**25,047**	**0**	**25,047**	**35**	**152**	**126**	**0**	**278**	**965**	**158**	**0**	**3**	
1966	27,599	0	27,599	43	265	219	0	484	1,407	155	0	0	
1967	28,462	0	28,462	46	208	172	0	380	807	160	0	2	
1968	29,453	0	29,453	73	369	305	0	674	919	147	0	1	
1969	29,947	0	29,947	81	728	603	0	1,331	825	153	0	*	
1970	**28,993**	**0**	**28,993**	**132**	**3,221**	**2,667**	**0**	**5,888**	**2,514**	**146**	**0**	*	
1971	28,113	0	28,113	126	6,871	4,394	0	11,265	4,374	118	0	0	
1972	29,679	0	29,679	73	7,791	5,919	0	13,711	13,067	133	0	0	
1973	32,755	0	32,755	40	7,911	3,880	0	11,791	20,051	113	0	0	
1974	32,475	0	32,475	43	6,984	4,857	0	11,841	19,592	106	0	0	
1975	**32,350**	**0**	**32,350**	**34**	**7,239**	**3,833**	**0**	**11,072**	**22,315**	**104**	**0**	**0**	
1976	33,521	0	33,521	31	6,880	3,911	0	10,791	26,455	112	0	0	
1977	33,943	0	33,943	14	9,533	4,061	0	13,594	28,547	109	0	0	
1978	33,492	0	33,492	23	13,055	4,139	0	17,194	32,926	111	0	0	
1979	34,487	0	34,487	32	13,028	2,936	0	15,964	27,463	112	0	0	
1980	**34,611**	**0**	**34,611**	**19**	**12,762**	**847**	**0**	**13,608**	**27,742**	**121**	**0**	**0**	
1981	32,411	0	32,411	13	9,587	580	0	10,167	29,483	117	0	0	
1982	31,519	0	31,519	10	7,168	573	0	7,742	27,625	107	0	0	
1983	34,265	0	34,265	12	5,802	547	0	6,349	28,021	117	0	0	
1984	32,054	0	32,054	6	4,489	413	0	4,902	34,976	124	0	0	
1985	**31,608**	**0**	**31,608**	**6**	**2,569**	**436**	**0**	**3,005**	**39,106**	**119**	**0**	**0**	
1986	30,844	0	30,844	6	4,165	459	0	4,624	42,014	124	0	0	
1987	28,894	0	28,894	3	3,235	425	0	3,660	50,194	90	0	0	
1988	26,681	0	26,681	6	2,007	552	0	2,559	69,166	48	0	0	
1989	25,758	0	25,758	7	1,535	455	0	1,990	74,820	50	0	0	
	Trillion Btu												
1960	**416.9**	**0.0**	**416.9**	**43.8**	**1.2**	**0.9**	**0.0**	**2.2**	**3.0**	**1.8**	**0.0**	**0.0**	**467.6**
1961	431.7	0.0	431.7	35.0	1.1	0.9	0.0	2.0	6.1	1.9	0.0	0.0	476.7
1962	432.3	0.0	432.3	43.3	1.0	0.8	0.0	1.8	13.9	1.8	0.0	0.0	493.1
1963	457.6	0.0	457.6	48.0	0.9	0.7	0.0	1.6	11.1	1.6	0.0	0.0	520.0
1964	490.6	0.0	490.6	52.0	1.0	0.8	0.0	1.8	11.7	1.6	0.0	*	557.8
1965	**537.2**	**0.0**	**537.2**	**35.6**	**1.0**	**0.7**	**0.0**	**1.7**	**11.4**	**1.7**	**0.0**	*	**587.6**
1966	590.0	0.0	590.0	44.6	1.7	1.3	0.0	2.9	16.4	1.6	0.0	0.0	655.5
1967	608.9	0.0	608.9	47.4	1.3	1.0	0.0	2.3	9.3	1.7	0.0	*	669.6
1968	629.4	0.0	629.4	75.5	2.3	1.8	0.0	4.1	10.4	1.5	0.0	*	720.9
1969	644.1	0.0	644.1	84.1	4.6	3.5	0.0	8.1	9.1	1.6	0.0	*	747.0
1970	**608.9**	**0.0**	**608.9**	**135.7**	**20.3**	**15.5**	**0.0**	**35.8**	**27.6**	**1.5**	**0.0**	*	**809.5**
1971	582.3	0.0	582.3	129.0	43.2	25.6	0.0	68.8	47.4	1.2	0.0	0.0	828.7
1972	613.8	0.0	613.8	74.8	49.0	34.3	0.0	83.3	141.0	1.4	0.0	0.0	914.3
1973	677.4	0.0	677.4	40.6	49.7	22.4	0.0	72.2	218.6	1.2	0.0	0.0	1,010.0
1974	667.0	0.0	667.0	44.1	43.9	28.2	0.0	72.1	218.7	1.1	0.0	0.0	1,002.9
1975	**655.4**	**0.0**	**655.4**	**35.2**	**45.5**	**22.2**	**0.0**	**67.8**	**245.8**	**1.1**	**0.0**	**0.0**	**1,005.2**
1976	686.9	0.0	686.9	31.4	43.3	22.7	0.0	66.0	292.2	1.2	0.0	0.0	1,077.7
1977	699.1	0.0	699.1	14.8	59.9	23.6	0.0	83.5	307.4	1.1	0.0	0.0	1,106.0
1978	688.8	0.0	688.8	23.2	82.1	24.0	0.0	106.1	360.2	1.2	0.0	0.0	1,179.4
1979	709.1	0.0	709.1	32.2	81.9	17.0	0.0	98.9	298.8	1.2	0.0	0.0	1,140.2
1980	**712.7**	**0.0**	**712.7**	**19.6**	**80.2**	**4.9**	**0.0**	**85.1**	**302.6**	**1.3**	**0.0**	**0.0**	**1,121.4**
1981	674.7	0.0	674.7	13.5	60.3	3.4	0.0	63.6	325.2	1.2	0.0	0.0	1,078.2
1982	657.5	0.0	657.5	10.6	45.1	3.3	0.0	48.4	305.9	1.1	0.0	0.0	1,023.5
1983	713.0	0.0	713.0	12.3	36.5	3.2	0.0	39.7	305.6	1.2	0.0	0.0	1,071.8
1984	679.1	0.0	679.1	6.1	28.2	2.4	0.0	30.6	379.2	1.3	0.0	0.0	1,096.4
1985	**662.8**	**0.0**	**662.8**	**6.0**	**16.2**	**2.5**	**0.0**	**18.7**	**422.9**	**1.2**	**0.0**	**0.0**	**1,111.6**
1986	650.0	0.0	650.0	6.2	26.2	2.7	0.0	28.9	460.2	1.3	0.0	0.0	1,146.6
1987	618.2	0.0	618.2	3.3	20.3	2.5	0.0	22.8	540.9	0.9	0.0	0.0	1,186.1
1988	567.5	0.0	567.5	5.8	12.6	3.2	0.0	15.8	743.1	0.5	0.0	0.0	1,332.7
1989	551.5	0.0	551.5	7.1	9.6	2.7	0.0	12.3	802.4	0.5	0.0	0.0	1,373.8

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: *Totals may not equal sum of components due to independent rounding.*
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 99. Energy Consumption Estimates by Source, 1960–1989, Indiana

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**32,599**	**212**	**3,277**	**453**	**25,707**	**1,316**	**3,899**	**5,751**	**1,181**	**43,595**	**13,076**	**9,970**	**108,225**	**0**	**100**	**0**	**0**	**-31,833**	
1961	32,827	240	3,553	427	25,582	1,426	3,752	5,527	1,149	43,433	12,246	9,792	106,888	0	107	0	0	-32,899	
1962	32,469	272	3,578	767	25,863	1,648	4,358	6,047	1,269	44,929	10,723	10,347	109,531	0	75	0	0	-33,159	
1963	33,710	298	4,355	783	25,903	1,804	3,952	6,789	1,269	45,815	10,798	10,527	111,994	0	52	0	0	-34,430	
1964	35,482	334	4,344	793	25,915	1,888	3,751	5,438	1,333	46,168	11,385	11,513	112,528	0	45	0	0	-35,862	
1965	**37,350**	**358**	**4,283**	**1,110**	**25,948**	**1,848**	**3,444**	**6,654**	**1,458**	**48,051**	**13,033**	**11,854**	**117,683**	**0**	**94**	**0**	**0**	**-38,137**	
1966	40,236	400	4,292	903	25,869	1,911	3,058	7,719	1,515	50,218	12,139	12,776	120,400	0	95	0	0	-38,477	
1967	38,911	435	4,585	614	26,095	2,330	2,029	8,493	1,349	50,942	11,472	12,517	120,426	0	469	0	0	-28,738	
1968	40,350	454	5,330	592	27,339	2,717	2,282	9,181	1,482	54,464	11,557	13,798	128,742	0	524	0	0	-30,098	
1969	42,006	531	4,157	451	29,374	2,634	2,429	9,467	1,554	56,693	9,596	14,450	130,804	0	591	0	0	-32,600	
1970	**42,776**	**545**	**6,101**	**367**	**29,379**	**2,558**	**2,130**	**8,978**	**1,583**	**58,905**	**9,769**	**14,339**	**134,108**	**0**	**495**	**0**	**0**	**-27,768**	
1971	40,558	567	7,908	352	30,693	2,699	2,090	9,097	1,627	60,248	12,409	13,769	140,892	0	431	0	0	-21,105	
1972	45,121	577	7,016	287	34,399	2,818	2,184	10,430	1,742	63,465	14,458	14,514	151,316	0	385	0	0	-14,107	
1973	47,256	542	8,613	276	34,928	2,851	1,506	10,679	2,064	66,082	15,652	15,395	158,045	0	480	0	0	-16,239	
1974	44,869	532	8,258	302	33,071	2,585	1,051	11,249	1,976	64,300	18,213	14,887	155,892	0	445	0	0	-4,863	
1975	**46,210**	**477**	**6,067**	**217**	**32,655**	**2,619**	**841**	**12,335**	**1,604**	**64,639**	**15,007**	**14,370**	**150,353**	**0**	**444**	**0**	**0**	**114**	
1976	46,316	425	5,365	254	35,662	2,623	1,324	14,526	1,782	67,324	19,594	13,111	161,566	0	479	0	0	4,673	
1977	48,318	398	6,159	262	37,113	2,676	1,233	16,458	1,787	67,441	20,910	14,205	168,246	0	374	0	0	10,764	
1978	47,205	441	8,428	322	36,984	2,498	1,364	14,148	1,919	70,588	20,410	13,983	170,645	0	361	0	0	15,971	
1979	50,998	504	7,679	257	36,102	2,588	799	9,475	2,008	65,370	18,116	13,515	155,909	0	438	0	0	5,179	
1980	**50,485**	**489**	**5,165**	**260**	**30,795**	**2,151**	**659**	**7,961**	**1,788**	**60,192**	**14,615**	**12,933**	**136,518**	**0**	**474**	**0**	**0**	**-9,357**	
1981	50,038	496	5,803	188	28,944	2,848	709	7,251	1,715	61,155	7,563	12,770	128,946	0	509	0	0	-3,899	
1982	44,243	468	5,400	129	28,851	4,361	591	6,828	1,564	56,476	4,680	11,025	119,904	0	428	0	0	2,438	
1983	48,340	427	5,786	151	27,711	4,395	1,011	6,870	1,637	57,442	3,005	10,963	118,971	0	418	0	0	-8,114	
1984	53,571	452	6,001	250	31,145	15,451	1,014	8,531	1,746	58,057	2,835	11,789	136,819	0	436	0	0	-47,330	
1985	**53,291**	**433**	**5,336**	**393**	**30,776**	**15,445**	**1,111**	**7,940**	**1,627**	**57,923**	**4,525**	**11,099**	**136,176**	**0**	**426**	**0**	**0**	**-28,077**	
1986	51,353	395	6,063	434	31,807	18,611	738	8,890	1,591	59,994	5,186	10,992	144,306	0	506	0	0	-24,336	
1987	52,335	413	7,600	378	31,649	19,141	528	9,452	1,799	63,170	3,751	12,579	150,047	0	507	0	0	-17,111	
1988	56,762	457	6,941	432	28,745	16,546	640	9,872	1,735	64,225	3,363	14,185	146,683	0	441	0	0	-24,420	
1989	58,203	462	6,396	288	33,122	17,557	704	11,273	1,779	61,672	4,103	14,141	151,035	0	450	0	0	-33,331	
													Trillion Btu						
1960	**795.1**	**219.8**	**21.7**	**2.3**	**149.7**	**7.1**	**22.1**	**23.1**	**7.2**	**229.0**	**82.2**	**59.8**	**604.2**	**0.0**	**1.1**	**0.0**	**0.0**	**-108.6**	**1,511.6**
1961	798.1	248.3	23.6	2.2	149.0	7.8	21.3	22.2	7.0	228.2	77.0	58.7	596.8	0.0	1.1	0.0	0.0	-112.2	1,532.0
1962	785.1	281.8	23.7	3.9	150.7	9.0	24.7	24.3	7.7	236.0	67.4	62.0	609.4	0.0	0.8	0.0	0.0	-113.1	1,563.9
1963	815.5	297.8	28.9	4.0	150.9	9.9	22.4	27.2	7.7	240.7	67.9	62.8	622.3	0.0	0.5	0.0	0.0	-117.5	1,618.7
1964	860.4	333.7	28.8	4.0	151.0	10.3	21.3	21.8	8.1	242.5	71.6	68.3	627.6	0.0	0.5	0.0	0.0	-122.4	1,699.9
1965	**900.6**	**357.5**	**28.4**	**5.6**	**151.1**	**10.2**	**19.5**	**26.7**	**8.8**	**252.4**	**81.9**	**70.3**	**655.1**	**0.0**	**1.0**	**0.0**	**0.0**	**-130.1**	**1,784.0**
1966	967.5	399.9	28.5	4.6	150.7	10.5	17.3	31.0	9.2	263.8	76.3	75.7	667.6	0.0	1.0	0.0	0.0	-131.3	1,904.7
1967	930.9	434.6	30.4	3.1	152.0	12.8	11.5	32.6	8.2	267.6	72.1	74.1	664.5	0.0	4.9	0.0	0.0	-98.1	1,936.9
1968	961.5	454.5	35.4	3.0	159.3	15.0	12.9	35.1	9.0	286.1	72.7	81.7	710.1	0.0	5.4	0.0	0.0	-102.7	2,028.8
1969	996.1	531.5	27.6	2.3	171.1	14.6	13.8	36.0	9.4	297.8	60.3	85.6	718.5	0.0	6.2	0.0	0.0	-111.2	2,141.1
1970	**1,006.8**	**548.6**	**40.5**	**1.9**	**171.1**	**14.2**	**12.1**	**33.9**	**9.6**	**309.4**	**61.4**	**84.9**	**739.0**	**0.0**	**5.2**	**0.0**	**0.0**	**-94.7**	**2,204.9**
1971	942.3	570.4	52.5	1.8	178.8	15.0	11.9	34.3	9.9	316.5	78.0	81.6	780.1	0.0	4.5	0.0	0.0	-72.0	2,225.3
1972	1,050.9	580.4	46.6	1.4	200.4	15.7	12.4	39.2	10.6	333.4	90.9	86.0	836.5	0.0	4.0	0.0	0.0	-48.1	2,423.7
1973	1,097.9	541.2	57.2	1.4	203.5	15.9	8.5	40.0	12.5	347.1	98.4	91.2	875.7	0.0	5.0	0.0	0.0	-55.4	2,464.4
1974	1,038.1	530.3	54.8	1.5	192.6	14.4	6.0	42.0	12.0	337.8	114.5	88.1	863.6	0.0	4.6	0.0	0.0	-16.6	2,420.0
1975	**1,061.2**	**472.6**	**40.3**	**1.1**	**190.2**	**14.6**	**4.8**	**45.8**	**9.7**	**339.6**	**94.3**	**85.1**	**825.5**	**0.0**	**4.6**	**0.0**	**0.0**	**0.4**	**2,364.2**
1976	1,062.9	421.0	35.6	1.3	207.7	14.6	7.5	53.9	10.8	353.7	123.2	77.9	886.2	0.0	5.0	0.0	0.0	15.9	2,391.1
1977	1,110.0	394.3	40.9	1.3	216.2	14.9	7.0	60.5	10.8	354.3	131.5	84.4	921.8	0.0	3.9	0.0	0.0	36.7	2,466.7
1978	1,074.6	436.1	55.9	1.6	215.4	14.0	7.7	51.9	11.6	370.8	128.3	83.0	940.3	0.0	3.7	0.0	0.0	54.5	2,509.3
1979	1,171.6	499.3	51.0	1.3	210.3	14.5	4.5	34.9	12.2	343.4	113.9	79.9	865.8	0.0	4.5	0.0	0.0	17.7	2,559.0
1980	**1,157.0**	**483.9**	**34.3**	**1.3**	**179.4**	**12.0**	**3.7**	**29.2**	**10.8**	**316.2**	**91.9**	**76.3**	**755.1**	**0.0**	**4.9**	**0.0**	**0.0**	**-31.9**	**2,369.0**
1981	1,150.6	492.9	38.5	0.9	168.6	15.9	4.0	26.4	10.4	321.2	47.5	74.9	708.6	0.0	5.3	0.0	0.0	-13.3	2,344.1
1982	1,007.2	475.3	35.8	0.6	168.1	24.5	3.4	24.7	9.5	296.7	29.4	65.0	657.6	0.0	4.5	0.0	0.0	8.3	2,152.9
1983	1,105.1	429.3	38.4	0.8	161.4	24.7	5.7	24.8	9.9	301.7	18.9	64.9	651.3	0.0	4.4	0.0	0.0	-27.7	2,162.5
1984	1,209.5	455.5	39.8	1.3	181.4	87.4	5.8	30.7	10.6	305.0	17.8	68.7	748.4	0.0	4.5	0.0	0.0	-161.5	2,256.4
1985	**1,193.3**	**436.4**	**35.4**	**2.0**	**179.3**	**87.4**	**6.3**	**28.6**	**9.9**	**304.3**	**28.4**	**65.3**	**746.9**	**0.0**	**4.4**	**0.0**	**0.0**	**-95.8**	**2,285.2**
1986	1,149.2	398.7	40.2	2.2	185.3	105.3	4.2	32.4	9.7	315.1	32.6	65.2	792.2	0.0	5.2	0.0	0.0	-83.0	2,262.2
1987	1,192.0	416.3	50.4	1.9	184.4	108.3	3.0	34.6	10.9	331.8	23.6	73.9	822.8	0.0	5.2	0.0	0.0	-58.4	2,378.0
1988	1,292.2	463.7	46.1	2.2	167.4	93.6	3.6	36.1	10.5	337.4	21.1	83.4	801.3	0.0	4.5	0.0	0.0	-83.3	2,478.4
1989	1,308.3	469.4	42.4	1.5	192.9	99.3	4.0	41.5	10.8	324.0	25.8	82.7	824.9	0.0	4.7	0.0	0.0	-113.7	2,493.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 100. Residential Energy Consumption Estimates, 1960–1989, Indiana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**740**	**4**	**744**	**76**	**8,536**	**3,370**	**3,389**	**15,296**	**6,371**	**15,847**		
1961	689	4	693	85	8,551	3,005	3,332	14,888	6,748	16,448		
1962	680	3	684	95	8,602	3,134	3,693	15,428	7,160	17,212		
1963	569	3	573	99	8,436	2,785	4,101	15,322	7,537	18,024		
1964	419	3	422	108	8,500	2,684	3,125	14,309	8,042	19,154		
1965	**378**	**3**	**380**	**114**	**8,146**	**2,498**	**3,993**	**14,637**	**8,651**	**20,656**		
1966	406	2	408	122	7,845	2,349	4,623	14,817	9,482	22,752		
1967	350	2	352	140	8,001	1,259	5,105	14,365	10,218	24,412		
1968	311	2	313	146	8,264	1,875	5,352	15,491	11,268	26,884		
1969	223	2	225	157	8,183	2,069	6,339	16,591	12,463	29,770		
1970	**245**	**2**	**247**	**159**	**8,027**	**1,837**	**6,312**	**16,175**	**13,488**	**32,686**		
1971	236	2	237	163	8,544	1,600	6,391	16,735	14,372	34,746		
1972	283	1	285	169	9,231	1,928	7,257	18,415	15,335	36,911		
1973	168	1	169	155	9,295	1,321	7,021	17,637	16,351	39,144		
1974	187	1	188	158	8,773	901	6,719	16,393	16,543	40,336		
1975	**315**	**1**	**315**	**163**	**8,647**	**717**	**6,665**	**16,029**	**16,375**	**39,499**		
1976	218	1	219	153	9,732	1,123	6,881	17,736	16,673	40,163		
1977	141	1	142	152	9,807	1,054	6,856	17,717	18,048	43,580		
1978	62	1	63	168	10,022	1,166	6,463	17,651	18,262	44,678		
1979	54	*	54	173	7,738	535	3,887	12,160	18,316	44,203		
1980	**77**	**1**	**78**	**164**	**5,398**	**492**	**3,351**	**9,241**	**19,262**	**46,839**		
1981	114	1	115	159	4,100	537	3,296	7,933	19,118	45,563		
1982	204	1	205	160	4,222	343	2,873	7,437	19,307	46,371		
1983	246	1	247	145	2,417	406	3,417	6,241	19,931	47,749		
1984	230	1	230	152	2,611	537	4,344	7,491	20,193	46,892		
1985	**183**	**1**	**184**	**146**	**2,558**	**708**	**3,870**	**7,136**	**19,803**	**46,439**		
1986	190	1	192	140	2,882	397	4,131	7,410	20,508	47,020		
1987	189	1	190	139	2,762	355	4,192	7,309	21,171	48,248		
1988	220	1	221	154	2,794	466	5,378	8,638	22,486	50,781		
1989	181	1	182	156	2,314	576	5,973	8,863	22,281	49,979		
	Trillion Btu											
1960	**17.8**	**0.1**	**17.9**	**78.7**	**49.7**	**19.1**	**13.6**	**82.4**	**21.7**	**200.7**	**54.1**	**254.8**
1961	16.6	0.1	16.7	87.5	49.8	17.0	13.4	80.2	23.0	207.4	56.1	263.5
1962	16.4	0.1	16.4	98.4	50.1	17.8	14.8	82.7	24.4	221.9	58.7	280.6
1963	13.7	0.1	13.8	99.0	49.1	15.8	16.4	81.4	25.7	219.8	61.5	281.3
1964	10.0	0.1	10.1	108.0	49.5	15.2	12.5	77.3	27.4	222.8	65.4	288.2
1965	**9.0**	**0.1**	**9.1**	**114.2**	**47.5**	**14.2**	**16.0**	**77.6**	**29.5**	**230.5**	**70.5**	**301.0**
1966	9.7	0.1	9.7	122.5	45.7	13.3	18.5	77.6	32.4	242.1	77.6	319.7
1967	8.3	*	8.4	139.5	46.6	7.1	19.6	73.3	34.9	256.1	83.3	339.4
1968	7.4	*	7.4	146.1	48.1	10.6	20.4	79.2	38.4	271.2	91.7	362.9
1969	5.3	*	5.3	156.9	47.7	11.7	24.1	83.5	42.5	288.2	101.6	389.8
1970	**5.7**	*	**5.7**	**159.7**	**46.8**	**10.4**	**23.9**	**81.0**	**46.0**	**292.4**	**111.5**	**403.9**
1971	5.4	*	5.4	163.7	49.8	10.2	24.1	84.1	49.0	302.3	118.6	420.8
1972	6.5	*	6.5	170.2	53.8	10.9	27.3	92.0	52.3	321.0	125.9	447.0
1973	3.8	*	3.9	154.7	54.1	7.5	26.3	87.9	55.8	302.3	133.6	435.9
1974	4.2	*	4.2	157.6	51.1	5.1	25.1	81.3	56.4	299.6	137.6	437.2
1975	**7.0**	*	**7.0**	**161.2**	**50.4**	**4.1**	**24.8**	**79.2**	**55.9**	**303.2**	**134.8**	**438.0**
1976	4.9	*	4.9	151.3	56.7	6.4	25.5	88.6	56.9	301.7	137.0	438.8
1977	3.2	*	3.2	150.1	57.1	6.0	25.2	88.3	61.6	303.2	148.7	451.9
1978	1.4	*	1.4	166.6	58.4	6.6	23.7	88.7	62.3	319.0	152.4	471.5
1979	1.2	*	1.2	171.5	45.1	3.0	14.3	62.4	62.5	297.6	150.8	448.4
1980	**1.7**	*	**1.7**	**161.9**	**31.4**	**2.8**	**12.3**	**46.5**	**65.7**	**275.8**	**159.8**	**435.6**
1981	2.5	*	2.5	157.9	23.9	3.0	12.0	38.9	65.2	264.6	155.5	420.0
1982	4.5	*	4.5	162.6	24.6	1.9	10.4	36.9	65.9	270.0	158.2	428.2
1983	5.4	*	5.4	146.1	14.1	2.3	12.3	28.7	68.0	248.3	162.9	411.2
1984	5.1	*	5.1	152.6	15.2	3.0	15.6	33.9	68.9	260.5	160.0	420.5
1985	**4.1**	*	**4.1**	**147.4**	**14.9**	**4.0**	**13.9**	**32.9**	**67.6**	**251.9**	**158.4**	**410.4**
1986	4.3	*	4.3	141.4	16.8	2.2	15.0	34.1	70.0	249.7	160.4	410.2
1987	4.3	*	4.3	140.3	16.1	2.0	15.3	33.4	72.2	250.3	164.6	414.9
1988	5.0	*	5.0	155.9	16.3	2.6	19.6	38.6	76.7	276.2	173.3	449.5
1989	4.0	*	4.1	158.4	13.5	3.3	22.0	38.7	76.0	277.2	170.5	447.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 101. Commercial Energy Consumption Estimates, 1960–1989, Indiana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours	
1960	**1,373**	**3**	**1,376**	**20**	**2,968**	**328**	**598**	**168**	**1,394**	**5,456**	**2,900**	**7,213**
1961	1,279	3	1,282	24	2,973	292	588	158	1,096	5,108	3,096	7,545
1962	1,264	2	1,266	28	2,991	305	652	170	949	5,066	3,397	8,167
1963	1,058	2	1,060	32	2,933	271	724	160	1,105	5,192	3,626	8,671
1964	777	2	779	38	2,955	261	551	160	1,276	5,204	3,902	9,293
1965	**702**	**2**	**703**	**42**	**2,832**	**243**	**705**	**171**	**1,520**	**5,472**	**4,243**	**10,132**
1966	754	1	755	48	2,728	228	816	160	1,326	5,257	4,646	11,147
1967	650	1	651	58	2,762	122	901	136	1,067	5,009	4,968	11,869
1968	577	1	579	61	2,874	182	944	146	1,184	5,330	5,481	13,078
1969	415	1	416	72	2,845	201	1,119	200	915	5,280	6,015	14,368
1970	**455**	**1**	**456**	**78**	**2,791**	**179**	**1,114**	**251**	**844**	**5,178**	**6,520**	**15,800**
1971	438	1	439	78	2,971	175	1,128	219	1,522	6,015	6,992	16,903
1972	526	1	527	85	3,210	187	1,281	228	1,501	6,407	7,633	18,373
1973	311	1	312	77	3,232	128	1,239	219	1,655	6,473	8,187	19,599
1974	347	1	348	76	3,051	88	1,186	147	1,770	6,241	8,188	19,964
1975	**584**	**1**	**585**	**71**	**3,007**	**70**	**1,176**	**120**	**1,645**	**6,017**	**9,071**	**21,881**
1976	405	1	406	67	3,384	109	1,214	124	2,509	7,341	9,556	23,018
1977	262	1	262	63	3,410	102	1,210	254	2,633	7,610	10,036	24,233
1978	116	*	116	70	3,485	113	1,141	144	2,562	7,444	9,555	23,376
1979	100	*	100	74	2,690	52	686	139	2,207	5,773	10,163	24,527
1980	**144**	*	**144**	**70**	**1,985**	**31**	**591**	**223**	**2,431**	**5,262**	**10,423**	**25,345**
1981	211	1	212	71	1,139	9	582	221	78	2,030	10,832	25,815
1982	379	1	379	72	1,441	18	507	213	89	2,268	11,290	27,116
1983	458	*	458	65	3,093	374	603	358	1,074	5,501	11,401	27,313
1984	427	*	427	72	3,340	245	767	341	990	5,682	11,916	27,670
1985	**340**	*	**340**	**70**	**2,637**	**203**	**683**	**351**	**468**	**4,342**	**12,257**	**28,743**
1986	353	1	354	65	1,839	138	729	487	293	3,486	12,933	29,651
1987	351	1	351	65	1,396	44	740	464	291	2,933	13,455	30,663
1988	409	1	410	72	1,338	70	949	453	259	3,070	15,715	35,490
1989	336	1	336	74	1,155	43	1,054	429	449	3,130	15,863	35,582

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu													
1960	**33.0**	**0.1**	**33.1**	**20.7**	**17.3**	**1.9**	**2.4**	**0.9**	**8.8**	**31.2**	**9.9**	**94.9**	**24.6**	**119.6**
1961	30.8	0.1	30.8	24.8	17.3	1.7	2.4	0.8	6.9	29.1	10.6	95.2	25.7	121.0
1962	30.4	0.1	30.4	28.7	17.4	1.7	2.6	0.9	6.0	28.6	11.6	99.4	27.9	127.2
1963	25.4	*	25.4	32.5	17.1	1.5	2.9	0.8	6.9	29.3	12.4	99.6	29.6	129.2
1964	18.7	*	18.7	37.5	17.2	1.5	2.2	0.8	8.0	29.8	13.3	99.3	31.7	131.0
1965	**16.8**	*	**16.8**	**42.2**	**16.5**	**1.4**	**2.8**	**0.9**	**9.6**	**31.2**	**14.5**	**104.7**	**34.6**	**139.3**
1966	18.0	*	18.0	47.9	15.9	1.3	3.3	0.8	8.3	29.6	15.9	111.4	38.0	149.4
1967	15.4	*	15.5	58.3	16.2	0.7	3.5	0.7	6.7	27.8	17.0	118.5	40.5	159.0
1968	13.7	*	13.7	60.7	16.7	1.0	3.6	0.8	7.4	29.6	18.7	122.7	44.6	167.4
1969	9.8	*	9.8	72.5	16.6	1.1	4.3	1.0	5.8	28.8	20.5	131.6	49.0	180.6
1970	**10.5**	*	**10.5**	**78.0**	**16.3**	**1.0**	**4.2**	**1.3**	**5.3**	**28.1**	**22.2**	**138.9**	**53.9**	**192.8**
1971	10.1	*	10.1	78.5	17.3	1.0	4.3	1.1	9.6	33.3	23.9	145.7	57.7	203.3
1972	12.0	*	12.1	85.8	18.7	1.1	4.8	1.2	9.4	35.2	26.0	159.1	62.7	221.8
1973	7.1	*	7.1	76.7	18.8	0.7	4.6	1.1	10.4	35.7	27.9	147.5	66.9	214.4
1974	7.8	*	7.8	75.6	17.8	0.5	4.4	0.8	11.1	34.6	27.9	146.0	68.1	214.1
1975	**12.9**	*	**12.9**	**69.8**	**17.5**	**0.4**	**4.4**	**0.6**	**10.3**	**33.3**	**31.0**	**146.9**	**74.7**	**221.6**
1976	9.1	*	9.1	66.8	19.7	0.6	4.5	0.7	15.8	41.3	32.6	149.8	78.5	228.3
1977	6.0	*	6.0	62.6	19.9	0.6	4.4	1.3	16.6	42.8	34.2	145.6	82.7	228.3
1978	2.6	*	2.6	69.3	20.3	0.6	4.2	0.8	16.1	42.0	32.6	146.5	79.8	226.3
1979	2.2	*	2.2	73.5	15.7	0.3	2.5	0.7	13.9	33.1	34.7	143.5	83.7	227.2
1980	**3.1**	*	**3.2**	**69.3**	**11.6**	**0.2**	**2.2**	**1.2**	**15.3**	**30.4**	**35.6**	**138.4**	**86.5**	**224.8**
1981	4.6	*	4.7	70.7	6.6	0.1	2.1	1.2	0.5	10.5	37.0	122.7	88.1	210.8
1982	8.4	*	8.4	73.1	8.4	0.1	1.8	1.1	0.6	12.0	38.5	132.0	92.5	224.5
1983	10.1	*	10.1	65.8	18.0	2.1	2.2	1.9	6.8	30.9	38.9	145.7	93.2	238.9
1984	9.4	*	9.4	72.3	19.5	1.4	2.8	1.8	6.2	31.6	40.7	154.0	94.4	248.4
1985	**7.6**	*	**7.6**	**70.2**	**15.4**	**1.2**	**2.5**	**1.8**	**2.9**	**23.8**	**41.8**	**143.3**	**98.1**	**241.4**
1986	7.9	*	7.9	65.4	10.7	0.8	2.7	2.6	1.8	18.6	44.1	136.0	101.2	237.2
1987	8.0	*	8.0	65.5	8.1	0.2	2.7	2.4	1.8	15.3	45.9	134.7	104.6	239.3
1988	9.2	*	9.3	72.8	7.8	0.4	3.5	2.4	1.6	15.7	53.6	151.3	121.1	272.4
1989	7.5	*	7.5	74.8	6.7	0.2	3.9	2.3	2.8	15.9	54.1	152.4	121.4	273.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 102. Industrial Energy Consumption Estimates, 1960–1989, Indiana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**16,699**	**4**	**16,702**	**102**	**3,277**	**9,976**	**202**	**1,716**	**489**	**2,813**	**11,229**	**9,970**	**39,671**	*	**8,226**	**20,461**
1961	16,689	3	16,692	117	3,553	9,818	455	1,553	476	2,617	10,510	9,792	38,775	1	8,695	21,192
1962	15,678	3	15,681	129	3,578	9,740	920	1,641	604	2,742	8,947	10,347	38,519	0	9,676	23,261
1963	16,495	4	16,499	142	4,355	9,877	896	1,896	604	2,746	8,812	10,527	39,712	0	10,381	24,826
1964	17,674	4	17,678	165	4,344	9,667	806	1,705	634	2,609	9,163	11,513	40,442	0	11,208	26,694
1965	**18,089**	**4**	**18,093**	**180**	**4,283**	**9,766**	**703**	**1,904**	**843**	**2,686**	**10,866**	**11,854**	**42,906**	**0**	**12,360**	**29,510**
1966	19,509	3	19,512	203	4,292	9,698	480	2,203	876	2,423	10,234	12,776	42,983	0	13,876	33,294
1967	18,785	3	18,788	211	4,585	9,477	647	2,395	780	1,919	9,664	12,517	41,984	0	14,870	35,524
1968	18,281	3	18,283	231	5,330	10,371	225	2,771	857	2,235	9,848	13,798	45,435	0	16,347	39,002
1969	18,694	2	18,697	270	4,157	11,092	159	1,893	956	2,771	8,144	14,450	43,622	0	18,022	43,050
1970	**19,392**	**2**	**19,394**	**268**	**6,101**	**10,180**	**115**	**1,455**	**974**	**2,238**	**8,391**	**14,084**	**43,538**	**0**	**17,952**	**43,504**
1971	16,895	1	16,896	282	7,908	10,433	115	1,453	1,019	1,681	10,222	13,594	46,426	0	18,782	45,408
1972	20,066	1	20,067	291	7,016	10,582	69	1,768	1,091	1,622	12,110	14,314	48,573	0	20,555	49,476
1973	19,823	1	19,824	287	8,613	10,605	57	2,284	1,339	1,470	13,080	14,765	52,213	0	23,112	55,332
1974	18,853	1	18,854	271	8,258	9,540	62	3,218	1,282	1,540	13,676	14,272	51,847	0	23,572	57,474
1975	**18,005**	**1**	**18,006**	**223**	**6,067**	**9,324**	**55**	**4,369**	**842**	**1,263**	**11,688**	**14,370**	**47,976**	**0**	**26,675**	**64,343**
1976	16,752	1	16,753	197	5,365	10,081	92	6,284	935	1,149	15,606	13,111	52,623	0	30,102	72,511
1977	18,034	1	18,035	178	6,159	10,021	76	8,235	1,096	835	16,317	14,205	56,943	0	31,751	76,668
1978	18,156	1	18,157	194	8,428	10,150	85	6,360	1,177	1,078	14,414	13,983	55,673	0	31,988	78,259
1979	19,251	1	19,251	244	7,679	7,589	212	4,768	1,231	1,048	14,873	13,515	50,915	0	33,153	80,009
1980	**16,598**	**1**	**16,599**	**245**	**5,165**	**5,053**	**136**	**3,930**	**1,096**	**752**	**11,984**	**12,933**	**41,049**	**0**	**30,730**	**74,725**
1981	17,489	2	17,491	252	5,803	5,827	163	3,195	1,051	810	7,295	12,770	36,915	0	30,601	72,932
1982	13,086	6	13,092	224	5,400	5,343	230	3,297	959	611	4,565	11,025	31,430	0	28,347	68,084
1983	14,109	1	14,110	208	5,786	4,308	231	2,688	1,004	508	1,840	10,963	27,325	0	30,447	72,944
1984	14,514	2	14,516	221	6,001	4,652	233	3,152	1,070	965	1,695	11,789	29,556	0	27,411	63,654
1985	**14,455**	**2**	**14,457**	**211**	**5,336**	**4,502**	**200**	**3,195**	**998**	**901**	**4,030**	**11,099**	**30,261**	**0**	**31,784**	**74,534**
1986	13,496	2	13,498	183	6,063	5,372	203	3,855	975	831	4,839	10,754	32,892	0	30,950	70,961
1987	14,805	2	14,807	201	7,600	5,688	130	4,380	1,103	836	3,344	12,300	35,380	0	32,999	75,205
1988	16,060	11	16,071	219	6,941	4,265	103	3,365	1,063	804	2,943	13,861	33,345	0	33,474	75,594
1989	15,306	1	15,307	220	6,396	4,817	85	4,061	1,091	757	3,426	13,701	34,334	0	34,747	77,939

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Trillion Btu																	
1960	**431.7**	**0.1**	**431.8**	**106.1**	**21.7**	**58.1**	**1.1**	**6.9**	**3.0**	**14.8**	**70.6**	**59.8**	**236.0**	*	**28.1**	**801.9**	**69.8**	**871.7**
1961	430.9	0.1	431.0	120.8	23.6	57.2	2.6	6.2	2.9	13.7	66.1	58.7	231.0	*	29.7	812.5	72.3	884.8
1962	403.9	0.1	404.0	133.8	23.7	56.7	5.2	6.6	3.7	14.4	56.2	62.0	228.6	0.0	33.0	799.4	79.4	878.8
1963	425.9	0.1	426.0	142.3	28.9	57.5	5.1	7.6	3.7	14.4	55.4	62.8	235.4	0.0	35.4	839.1	84.7	923.8
1964	456.5	0.1	456.6	165.3	28.8	56.3	4.6	6.8	3.8	13.7	57.6	68.3	240.0	0.0	38.2	900.2	91.1	991.2
1965	**466.2**	**0.1**	**466.3**	**179.8**	**28.4**	**56.9**	**4.0**	**7.6**	**5.1**	**14.1**	**68.3**	**70.3**	**254.8**	**0.0**	**42.2**	**943.0**	**100.7**	**1,043.7**
1966	500.5	0.1	500.6	203.2	28.5	56.5	2.7	8.8	5.3	12.7	64.3	75.7	254.6	0.0	47.3	1,005.8	113.6	1,119.4
1967	481.2	0.1	481.2	210.7	30.4	55.2	3.7	9.2	4.7	10.1	60.8	74.1	248.2	0.0	50.7	990.9	121.2	1,112.1
1968	467.9	0.1	468.0	231.3	35.4	60.4	1.3	10.6	5.2	11.7	61.9	81.7	268.2	0.0	55.8	1,023.3	133.1	1,156.4
1969	475.6	*	475.6	270.0	27.6	64.6	0.9	7.2	5.8	14.6	51.2	85.6	257.4	0.0	61.5	1,064.6	146.9	1,211.5
1970	**490.9**	*	**490.9**	**270.1**	**40.5**	**59.3**	**0.6**	**5.5**	**5.9**	**11.8**	**52.8**	**83.3**	**259.7**	**0.0**	**61.3**	**1,082.0**	**148.4**	**1,230.4**
1971	427.5	*	427.5	284.2	52.5	60.8	0.7	5.5	6.2	8.8	64.3	80.5	279.2	0.0	64.1	1,054.9	154.9	1,209.8
1972	507.3	*	507.3	292.8	46.6	61.6	0.4	6.6	6.6	8.5	76.1	84.8	291.3	0.0	70.1	1,161.6	168.8	1,330.4
1973	504.4	*	504.4	286.9	57.2	61.8	0.3	8.6	8.1	7.7	82.2	87.4	313.3	0.0	78.9	1,183.4	188.8	1,372.2
1974	482.0	*	482.0	270.5	54.8	55.6	0.4	12.0	7.8	8.1	86.0	84.4	308.9	0.0	80.4	1,141.9	196.1	1,338.0
1975	**461.6**	*	**461.6**	**221.1**	**40.3**	**54.3**	**0.3**	**16.2**	**5.1**	**6.6**	**73.5**	**85.1**	**281.4**	**0.0**	**91.0**	**1,055.2**	**219.5**	**1,274.7**
1976	427.5	*	427.5	194.7	35.6	58.7	0.5	23.3	5.7	6.0	98.1	77.9	305.9	0.0	102.7	1,030.8	247.4	1,278.2
1977	459.4	*	459.4	175.8	40.9	58.4	0.4	30.3	6.6	4.4	102.6	84.4	328.0	0.0	108.3	1,071.6	261.6	1,333.2
1978	453.9	*	453.9	192.3	55.9	59.1	0.5	23.3	7.1	5.7	90.6	83.0	325.3	0.0	109.1	1,080.6	267.0	1,347.6
1979	484.2	*	484.3	241.8	51.0	44.2	1.2	17.5	7.5	5.5	93.5	79.9	300.3	0.0	113.1	1,139.5	273.0	1,412.5
1980	**423.9**	*	**423.9**	**242.0**	**34.3**	**29.4**	**0.8**	**14.4**	**6.6**	**3.9**	**75.3**	**76.3**	**241.1**	**0.0**	**104.9**	**1,011.9**	**255.0**	**1,266.8**
1981	446.1	*	446.1	250.4	38.5	33.9	0.9	11.6	6.4	4.3	45.9	74.9	216.5	0.0	104.4	1,017.4	248.8	1,266.3
1982	328.5	0.1	328.7	228.1	35.8	31.1	1.3	11.9	5.8	3.2	28.7	65.0	182.9	0.0	96.7	836.3	232.3	1,068.6
1983	355.4	*	355.5	209.0	38.4	25.1	1.3	9.7	6.1	2.7	11.6	64.9	159.8	0.0	103.9	828.1	248.9	1,077.0
1984	366.5	0.1	366.6	222.9	39.8	27.1	1.3	11.3	6.5	5.1	10.7	68.7	170.5	0.0	93.5	853.5	217.2	1,070.7
1985	**365.0**	*	**365.1**	**212.8**	**35.4**	**26.2**	**1.1**	**11.5**	**6.1**	**4.7**	**25.3**	**65.3**	**175.7**	**0.0**	**108.4**	**862.1**	**254.3**	**1,116.4**
1986	340.0	*	340.1	184.9	40.2	31.3	1.2	14.0	5.9	4.4	30.4	63.8	191.2	0.0	105.6	821.8	242.1	1,063.9
1987	374.9	0.1	375.0	203.2	50.4	33.1	0.7	16.0	6.7	4.4	21.0	72.3	204.7	0.0	112.6	895.5	256.6	1,152.1
1988	409.7	0.3	409.9	222.1	46.1	24.8	0.6	12.3	6.5	4.2	18.5	81.4	194.4	0.0	114.2	940.6	257.9	1,198.5
1989	389.9	*	389.9	223.5	42.4	28.1	0.5	15.0	6.6	4.0	21.5	80.1	198.1	0.0	118.6	930.1	265.9	1,196.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 103. Transportation Energy Consumption Estimates, 1960–1989, Indiana

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours	
1960	**294**	**5**	**453**	**4,097**	**1,316**	**47**	**692**	**40,615**	**350**	**47,570**	**1**	**2**
1961	77	5	427	4,139	1,426	53	674	40,658	559	47,935	0	0
1962	64	7	767	4,451	1,648	62	665	42,018	764	50,375	0	0
1963	63	7	783	4,582	1,804	68	665	42,910	821	51,633	0	0
1964	67	8	793	4,702	1,888	56	698	43,399	875	52,411	0	0
1965	**60**	**8**	**1,110**	**5,124**	**1,848**	**52**	**615**	**45,194**	**583**	**54,526**	**0**	**0**
1966	59	10	903	5,525	1,911	78	639	47,635	521	57,211	0	0
1967	46	11	614	5,740	2,330	92	568	48,887	666	58,896	0	0
1968	40	10	592	5,685	2,717	113	624	52,083	410	62,226	0	0
1969	32	12	451	7,083	2,634	116	599	53,722	402	65,007	0	0
1970	**31**	**11**	**367**	**8,123**	**2,558**	**97**	**610**	**56,417**	**330**	**68,501**	**0**	**0**
1971	22	12	352	8,483	2,699	125	608	58,348	240	70,855	0	0
1972	21	13	287	11,065	2,818	125	651	61,615	177	76,738	0	0
1973	14	13	276	11,624	2,851	135	725	64,394	128	80,132	0	0
1974	10	13	302	11,442	2,585	127	694	62,613	290	78,053	0	0
1975	**3**	**10**	**217**	**11,200**	**2,619**	**125**	**763**	**63,256**	**331**	**78,510**	**0**	**0**
1976	1	5	254	12,046	2,623	147	847	66,051	312	82,281	0	0
1977	1	5	262	13,252	2,653	158	692	66,353	305	83,675	0	0
1978	0	5	322	12,492	2,498	184	743	69,366	191	85,796	0	0
1979	0	10	257	17,575	2,554	134	777	64,184	131	85,611	0	0
1980	**0**	**9**	**260**	**17,629**	**2,151**	**88**	**692**	**59,217**	**200**	**80,236**	**0**	**0**
1981	0	9	188	17,134	2,848	179	664	60,125	189	81,326	0	0
1982	0	9	129	17,320	4,361	151	605	55,652	26	78,244	0	0
1983	0	6	151	17,538	4,395	163	634	56,576	91	79,547	0	0
1984	0	6	250	20,236	15,451	269	676	56,751	150	93,784	0	0
1985	**0**	**5**	**393**	**20,665**	**15,445**	**192**	**630**	**56,670**	**27**	**94,022**	**0**	**0**
1986	0	6	434	21,390	18,611	176	616	58,676	54	99,957	0	0
1987	0	6	378	21,451	19,141	140	696	61,870	116	103,793	0	0
1988	0	9	432	19,970	16,546	180	671	62,968	161	100,928	0	0
1989	0	8	288	24,466	17,557	185	689	60,486	228	103,899	0	0

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu													
1960	**7.1**	**5.2**	**2.3**	**23.9**	**7.1**	**0.2**	**4.2**	**213.3**	**2.2**	**253.2**	*	**265.5**	*	**265.5**
1961	1.9	5.5	2.2	24.1	7.8	0.2	4.1	213.6	3.5	255.4	0.0	262.8	0.0	262.8
1962	1.5	7.1	3.9	25.9	9.0	0.2	4.0	220.7	4.8	268.6	0.0	277.3	0.0	277.3
1963	1.5	7.5	4.0	26.7	9.9	0.3	4.0	225.4	5.2	275.4	0.0	284.4	0.0	284.4
1964	1.6	8.2	4.0	27.4	10.3	0.2	4.2	228.0	5.5	279.6	0.0	289.4	0.0	289.4
1965	**1.4**	**8.0**	**5.6**	**29.8**	**10.2**	**0.2**	**3.7**	**237.4**	**3.7**	**290.6**	**0.0**	**300.1**	**0.0**	**300.1**
1966	1.4	9.9	4.6	32.2	10.5	0.3	3.9	250.2	3.3	304.9	0.0	316.2	0.0	316.2
1967	1.1	11.2	3.1	33.4	12.8	0.4	3.4	256.8	4.2	314.2	0.0	326.4	0.0	326.4
1968	0.9	9.8	3.0	33.1	15.0	0.4	3.8	273.6	2.6	331.5	0.0	342.2	0.0	342.2
1969	0.7	11.6	2.3	41.3	14.6	0.4	3.6	282.2	2.5	346.9	0.0	359.2	0.0	359.2
1970	**0.7**	**11.2**	**1.9**	**47.3**	**14.2**	**0.4**	**3.7**	**296.4**	**2.1**	**365.9**	**0.0**	**377.8**	**0.0**	**377.8**
1971	0.5	12.4	1.8	49.4	15.0	0.5	3.7	306.5	1.5	378.4	0.0	391.3	0.0	391.3
1972	0.5	13.3	1.4	64.5	15.7	0.5	3.9	323.7	1.1	410.8	0.0	424.5	0.0	424.5
1973	0.3	12.7	1.4	67.7	15.9	0.5	4.4	338.3	0.8	429.0	0.0	442.0	0.0	442.0
1974	0.2	12.5	1.5	66.6	14.4	0.5	4.2	328.9	1.8	418.0	0.0	430.7	0.0	430.7
1975	**0.1**	**9.5**	**1.1**	**65.2**	**14.6**	**0.5**	**4.6**	**332.3**	**2.1**	**420.4**	**0.0**	**430.0**	**0.0**	**430.0**
1976	*	5.0	1.3	70.2	14.6	0.5	5.1	347.0	2.0	440.7	0.0	445.7	0.0	445.7
1977	*	4.7	1.3	77.2	14.8	0.6	4.2	348.6	1.9	448.6	0.0	453.3	0.0	453.3
1978	0.0	4.8	1.6	72.8	14.0	0.7	4.5	364.4	1.2	459.1	0.0	463.9	0.0	463.9
1979	0.0	9.8	1.3	102.4	14.3	0.5	4.7	337.2	0.8	461.1	0.0	470.9	0.0	470.9
1980	**0.0**	**8.8**	**1.3**	**102.7**	**12.0**	**0.3**	**4.2**	**311.1**	**1.3**	**432.8**	**0.0**	**441.6**	**0.0**	**441.6**
1981	0.0	8.6	0.9	99.8	15.9	0.7	4.0	315.8	1.2	438.4	0.0	446.9	0.0	446.9
1982	0.0	8.9	0.6	100.9	24.5	0.5	3.7	292.3	0.2	422.7	0.0	431.6	0.0	431.6
1983	0.0	5.5	0.8	102.2	24.7	0.6	3.8	297.2	0.6	429.8	0.0	435.4	0.0	435.4
1984	0.0	6.1	1.3	117.9	87.4	1.0	4.1	298.1	0.9	510.6	0.0	516.7	0.0	516.7
1985	**0.0**	**4.9**	**2.0**	**120.4**	**87.4**	**0.7**	**3.8**	**297.7**	**0.2**	**512.1**	**0.0**	**517.0**	**0.0**	**517.0**
1986	0.0	5.9	2.2	124.6	105.3	0.6	3.7	308.2	0.3	545.0	0.0	550.9	0.0	550.9
1987	0.0	6.0	1.9	125.0	108.3	0.5	4.2	325.0	0.7	565.6	0.0	571.6	0.0	571.6
1988	0.0	9.4	2.2	116.3	93.6	0.7	4.1	330.8	1.0	548.6	0.0	558.0	0.0	558.0
1989	0.0	8.6	1.5	142.5	99.3	0.7	4.2	317.7	1.4	567.3	0.0	575.9	0.0	575.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 104. Estimates of Energy Input at Electric Utilities, 1960–1989, Indiana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**13,483**	**0**	**13,483**	**9**	**103**	**130**	**0**	**232**	**0**	**100**	**0**	**0**	
1961	14,083	0	14,083	9	80	101	0	181	0	106	0	0	
1962	14,774	0	14,774	13	63	80	0	143	0	75	0	0	
1963	15,516	0	15,516	17	60	75	0	135	0	52	0	0	
1964	16,536	0	16,536	15	72	91	0	162	0	45	0	0	
1965	**18,113**	**0**	**18,113**	**13**	**63**	**80**	**0**	**142**	**0**	**94**	**0**	**0**	
1966	19,502	0	19,502	16	58	74	0	132	0	95	0	0	
1967	19,074	0	19,074	15	76	96	0	172	0	469	0	0	
1968	21,135	0	21,135	7	115	146	0	261	0	524	0	0	
1969	22,637	0	22,637	21	134	170	0	304	0	591	0	0	
1970	**22,648**	**0**	**22,648**	**30**	**204**	**257**	**255**	**716**	**0**	**495**	**0**	**0**	
1971	22,963	0	22,963	31	425	261	175	861	0	431	0	0	
1972	24,222	0	24,222	18	670	311	200	1,182	0	385	0	0	
1973	26,937	0	26,937	10	789	171	630	1,591	0	480	0	0	
1974	25,470	0	25,470	14	2,478	265	615	3,358	0	445	0	0	
1975	**27,301**	**0**	**27,301**	**11**	**1,344**	**477**	**0**	**1,821**	**0**	**444**	**0**	**0**	
1976	28,937	0	28,937	3	1,167	418	0	1,585	0	479	0	0	
1977	29,879	0	29,879	1	1,655	646	0	2,301	0	374	0	0	
1978	28,869	0	28,869	3	3,244	836	0	4,080	0	361	0	0	
1979	31,593	0	31,593	3	906	544	0	1,450	0	438	0	0	
1980	**33,664**	**0**	**33,664**	**2**	**0**	**730**	**0**	**730**	**0**	**474**	**0**	**0**	
1981	32,219	0	32,219	5	0	743	0	743	0	509	0	0	
1982	30,566	0	30,566	3	0	525	0	525	0	428	0	0	
1983	33,525	0	33,525	3	0	356	0	356	0	418	0	0	
1984	38,398	0	38,398	1	0	306	0	306	0	436	0	0	
1985	**38,310**	**0**	**38,310**	**1**	**0**	**414**	**0**	**414**	**0**	**426**	**0**	**0**	
1986	37,309	0	37,309	1	0	323	239	562	0	506	0	0	
1987	36,987	0	36,987	1	0	352	279	632	0	507	0	0	
1988	40,060	0	40,060	3	0	379	324	703	0	441	0	0	
1989	42,378	0	42,378	4	0	370	440	810	0	450	0	0	
	Trillion Btu												
1960	**305.2**	**0.0**	**305.2**	**9.1**	**0.6**	**0.8**	**0.0**	**1.4**	**0.0**	**1.1**	**0.0**	**0.0**	**316.8**
1961	317.9	0.0	317.9	9.6	0.5	0.6	0.0	1.1	0.0	1.1	0.0	0.0	329.7
1962	332.7	0.0	332.7	13.8	0.4	0.5	0.0	0.9	0.0	0.8	0.0	0.0	348.1
1963	348.8	0.0	348.8	16.6	0.4	0.4	0.0	0.8	0.0	0.5	0.0	0.0	366.8
1964	373.4	0.0	373.4	14.6	0.5	0.5	0.0	1.0	0.0	0.5	0.0	0.0	389.5
1965	**406.9**	**0.0**	**406.9**	**13.3**	**0.4**	**0.5**	**0.0**	**0.9**	**0.0**	**1.0**	**0.0**	**0.0**	**422.0**
1966	437.8	0.0	437.8	16.5	0.4	0.4	0.0	0.8	0.0	1.0	0.0	0.0	456.1
1967	424.7	0.0	424.7	14.9	0.5	0.6	0.0	1.0	0.0	4.9	0.0	0.0	445.6
1968	471.5	0.0	471.5	6.5	0.7	0.8	0.0	1.6	0.0	5.4	0.0	0.0	485.0
1969	504.7	0.0	504.7	20.6	0.8	1.0	0.0	1.8	0.0	6.2	0.0	0.0	533.3
1970	**498.9**	**0.0**	**498.9**	**29.7**	**1.3**	**1.5**	**1.5**	**4.3**	**0.0**	**5.2**	**0.0**	**0.0**	**538.1**
1971	498.8	0.0	498.8	31.6	2.7	1.5	1.1	5.2	0.0	4.5	0.0	0.0	540.1
1972	524.6	0.0	524.6	18.3	4.2	1.8	1.2	7.2	0.0	4.0	0.0	0.0	554.1
1973	582.2	0.0	582.2	10.3	5.0	1.0	3.8	9.8	0.0	5.0	0.0	0.0	607.2
1974	543.8	0.0	543.8	14.0	15.6	1.5	3.7	20.8	0.0	4.6	0.0	0.0	583.2
1975	**579.6**	**0.0**	**579.6**	**11.0**	**8.5**	**2.8**	**0.0**	**11.2**	**0.0**	**4.6**	**0.0**	**0.0**	**606.4**
1976	621.3	0.0	621.3	3.2	7.3	2.4	0.0	9.8	0.0	5.0	0.0	0.0	639.2
1977	641.3	0.0	641.3	1.1	10.4	3.8	0.0	14.2	0.0	3.9	0.0	0.0	660.4
1978	616.6	0.0	616.6	3.1	20.4	4.9	0.0	25.3	0.0	3.7	0.0	0.0	648.8
1979	683.9	0.0	683.9	2.8	5.7	3.2	0.0	8.9	0.0	4.5	0.0	0.0	700.1
1980	**728.2**	**0.0**	**728.2**	**1.9**	**0.0**	**4.3**	**0.0**	**4.3**	**0.0**	**4.9**	**0.0**	**0.0**	**739.3**
1981	697.3	0.0	697.3	5.3	0.0	4.3	0.0	4.3	0.0	5.3	0.0	0.0	712.3
1982	665.6	0.0	665.6	2.7	0.0	3.1	0.0	3.1	0.0	4.5	0.0	0.0	675.8
1983	734.1	0.0	734.1	2.9	0.0	2.1	0.0	2.1	0.0	4.4	0.0	0.0	743.5
1984	828.4	0.0	828.4	1.5	0.0	1.8	0.0	1.8	0.0	4.5	0.0	0.0	836.2
1985	**816.5**	**0.0**	**816.5**	**1.1**	**0.0**	**2.4**	**0.0**	**2.4**	**0.0**	**4.4**	**0.0**	**0.0**	**824.5**
1986	796.9	0.0	796.9	1.1	0.0	1.9	1.4	3.3	0.0	5.2	0.0	0.0	806.5
1987	804.7	0.0	804.7	1.3	0.0	2.1	1.7	3.7	0.0	5.2	0.0	0.0	815.0
1988	868.0	0.0	868.0	3.5	0.0	2.2	2.0	4.2	0.0	4.5	0.0	0.0	880.2
1989	906.8	0.0	906.8	4.1	0.0	2.2	2.7	4.8	0.0	4.7	0.0	0.0	920.3

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 105. Energy Consumption Estimates by Source, 1960-1989, Iowa

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**5,257**	**187**	**2,579**	**366**	**11,163**	**195**	**2,587**	**5,017**	**713**	**29,463**	**1,071**	**33**	**53,186**	**0**	**881**	**0**	**25**	**-2,370**	
1961	4,728	205	2,551	225	10,097	200	2,351	4,976	694	29,531	1,081	33	51,737	0	897	0	21	-2,481	
1962	5,194	214	2,523	328	11,066	227	2,090	5,882	720	29,710	895	29	53,469	0	931	0	12	-2,646	
1963	5,264	219	2,322	315	11,086	239	2,306	6,460	720	30,391	948	28	54,815	0	758	0	16	971	
1964	5,068	244	2,526	358	10,991	252	2,142	6,162	756	30,049	1,046	493	54,774	0	690	0	28	2,385	
1965	**5,722**	**248**	**2,569**	**358**	**11,068**	**232**	**1,523**	**7,448**	**698**	**30,792**	**531**	**533**	**55,751**	**0**	**928**	**0**	**30**	**3,241**	
1966	5,686	239	2,638	471	12,362	298	1,262	8,460	725	32,659	878	607	60,360	0	867	0	39	-970	
1967	5,467	273	2,517	370	12,608	471	888	10,517	640	34,552	482	514	63,560	0	806	0	36	860	
1968	5,457	297	2,533	295	14,168	650	609	10,931	703	34,636	409	554	65,489	0	951	0	33	185	
1969	5,862	318	2,719	271	13,749	745	594	12,029	687	35,422	374	605	67,194	0	866	0	31	1,838	
1970	**6,166**	**349**	**2,914**	**256**	**13,677**	**725**	**490**	**11,038**	**700**	**35,701**	**401**	**638**	**66,539**	**0**	**935**	**0**	**38**	**1,618**	
1971	5,896	345	3,120	261	14,257	655	372	11,139	585	37,325	414	894	69,021	0	913	0	46	4,691	
1972	6,945	345	2,970	239	14,941	730	506	12,506	626	38,404	509	979	72,411	0	993	0	45	6,282	
1973	7,026	365	2,608	98	15,531	710	541	12,692	751	42,104	572	1,055	76,661	0	906	0	46	9,954	
1974	6,173	368	2,567	232	14,825	749	357	13,369	719	38,847	697	1,084	73,447	1,330	891	0	34	12,414	
1975	**6,407**	**346**	**2,294**	**191**	**14,553**	**835**	**214**	**13,645**	**655**	**39,042**	**608**	**981**	**73,018**	**2,291**	**879**	**0**	**40**	**13,729**	
1976	8,311	311	2,439	206	15,088	964	215	18,586	728	40,738	931	3,173	83,068	2,479	645	0	35	12,874	
1977	9,175	280	2,553	204	15,977	1,004	203	17,854	713	41,237	1,096	3,788	84,630	2,888	780	0	22	14,644	
1978	10,110	238	2,843	214	16,915	1,127	202	15,698	766	40,927	921	4,113	83,726	1,209	930	0	8	22,524	
1979	11,352	292	3,154	191	20,711	1,039	460	14,686	801	38,501	1,216	5,006	85,765	2,889	898	0	0	15,647	
1980	**12,340**	**270**	**1,699**	**184**	**15,930**	**813**	**171**	**11,167**	**714**	**35,394**	**415**	**5,278**	**71,764**	**2,563**	**946**	**0**	**29**	**13,041**	
1981	13,483	253	1,972	161	14,513	717	374	9,891	684	34,274	98	2,534	65,219	2,204	982	0	17	14,484	
1982	13,033	237	1,915	111	16,235	635	450	11,953	624	33,030	334	1,970	67,257	2,269	918	0	23	17,193	
1983	13,540	221	1,603	109	14,099	591	89	12,026	653	32,386	207	1,753	63,517	2,309	920	0	45	18,752	
1984	13,624	235	1,841	89	15,360	615	180	12,628	697	32,223	188	2,019	65,839	2,700	918	0	45	9,761	
1985	**14,342**	**226**	**2,023**	**83**	**15,490**	**592**	**236**	**14,099**	**649**	**31,458**	**219**	**1,910**	**66,759**	**1,927**	**2,048**	**0**	**60**	**5,975**	
1986	13,862	207	2,038	151	15,962	595	116	14,011	635	31,356	612	1,169	66,645	2,993	953	0	70	8,799	
1987	15,191	203	1,788	110	15,762	779	97	8,938	718	31,614	124	1,207	61,137	2,523	971	0	67	6,651	
1988	16,114	239	2,213	145	15,946	713	96	10,110	692	32,552	277	1,179	63,924	3,163	699	0	57	4,755	
1989	17,126	226	1,710	111	14,961	750	77	10,245	710	32,558	234	1,154	62,509	3,139	673	0	24	3,748	
										Trillion Btu									
1960	**115.9**	**193.7**	**17.1**	**1.8**	**65.0**	**1.0**	**14.7**	**20.1**	**4.3**	**154.8**	**6.7**	**0.2**	**285.8**	**0.0**	**9.5**	**0.0**	**0.3**	**-8.1**	**597.1**
1961	104.5	211.8	16.9	1.1	58.8	1.1	13.3	20.0	4.2	155.1	6.8	0.2	277.5	0.0	9.5	0.0	0.2	-8.5	595.2
1962	114.3	221.0	16.7	1.7	64.5	1.2	11.8	23.6	4.4	156.1	5.6	0.2	285.7	0.0	9.8	0.0	0.1	-9.0	622.0
1963	116.2	220.5	15.4	1.6	64.6	1.3	13.1	25.9	4.4	159.6	6.0	0.2	292.0	0.0	7.9	0.0	0.2	3.3	640.1
1964	112.8	244.6	16.8	1.8	64.0	1.4	12.1	24.7	4.6	157.8	6.6	2.6	292.4	0.0	7.2	0.0	0.3	8.1	665.5
1965	**126.6**	**250.0**	**17.0**	**1.8**	**64.5**	**1.3**	**8.6**	**29.9**	**4.2**	**161.7**	**3.3**	**2.8**	**295.2**	**0.0**	**9.7**	**0.0**	**0.3**	**11.1**	**692.9**
1966	125.4	244.0	17.5	2.4	72.0	1.6	7.2	33.9	4.4	171.6	5.5	3.2	319.3	0.0	9.0	0.0	0.4	-3.3	694.8
1967	120.8	278.6	16.7	1.9	73.4	2.6	5.0	40.4	3.9	181.5	3.0	2.7	331.1	0.0	8.4	0.0	0.4	2.9	742.3
1968	120.0	303.7	16.8	1.5	82.5	3.6	3.5	41.7	4.3	181.9	2.6	2.9	341.3	0.0	9.9	0.0	0.3	0.6	776.0
1969	127.0	325.0	18.0	1.4	80.1	4.2	3.4	45.8	4.2	186.1	2.4	3.2	348.6	0.0	9.0	0.0	0.3	6.3	816.2
1970	**130.9**	**351.8**	**19.3**	**1.3**	**79.7**	**4.1**	**2.8**	**41.7**	**4.2**	**187.5**	**2.5**	**3.4**	**346.5**	**0.0**	**9.8**	**0.0**	**0.4**	**5.5**	**844.9**
1971	124.7	347.7	20.7	1.3	83.0	3.7	2.1	42.0	3.5	196.1	2.6	4.8	359.9	0.0	9.6	0.0	0.5	16.0	858.4
1972	144.9	347.6	19.7	1.2	87.0	4.1	2.9	47.0	3.8	201.7	3.2	5.3	376.0	0.0	10.3	0.0	0.5	21.4	900.6
1973	148.7	369.0	17.3	0.5	90.5	4.0	3.1	47.5	4.6	221.2	3.6	5.7	397.9	0.0	9.4	0.0	0.5	34.0	959.4
1974	128.2	371.6	17.0	1.2	86.4	4.2	2.0	49.9	4.4	204.1	4.4	5.9	379.3	14.8	9.3	0.0	0.4	42.4	946.0
1975	**131.6**	**348.6**	**15.2**	**1.0**	**84.8**	**4.7**	**1.2**	**50.7**	**4.0**	**205.1**	**3.8**	**5.3**	**375.8**	**25.2**	**9.1**	**0.0**	**0.4**	**46.8**	**937.5**
1976	169.5	313.9	16.2	1.0	87.9	5.4	1.2	69.0	4.4	214.0	5.9	17.6	422.6	27.4	6.7	0.0	0.4	43.9	984.4
1977	185.1	281.4	16.9	1.0	93.1	5.6	1.2	65.6	4.3	216.6	6.9	21.2	432.5	31.1	8.1	0.0	0.2	50.0	988.5
1978	201.3	238.8	18.9	1.1	98.5	6.3	1.1	57.6	4.6	215.0	5.8	23.1	432.0	13.2	9.6	0.0	0.1	76.9	971.9
1979	219.4	292.2	20.9	1.0	120.6	5.9	2.6	54.0	4.9	202.2	7.6	27.7	447.5	31.4	9.3	0.0	0.0	53.4	1,053.2
1980	**234.4**	**270.4**	**11.3**	**0.9**	**92.8**	**4.6**	**1.0**	**41.0**	**4.3**	**185.9**	**2.6**	**28.9**	**373.3**	**28.0**	**9.8**	**0.0**	**0.3**	**44.5**	**960.7**
1981	252.1	254.0	13.1	0.8	84.5	4.0	2.1	36.0	4.2	180.0	0.6	13.8	339.3	24.3	10.3	0.0	0.2	49.4	929.5
1982	243.9	239.0	12.7	0.6	94.6	3.6	2.6	43.2	3.8	173.5	2.1	10.7	347.3	25.1	9.6	0.0	0.2	58.7	923.8
1983	253.7	223.6	10.6	0.6	82.1	3.3	0.5	43.5	4.0	170.1	1.3	9.7	325.7	25.2	9.7	0.0	0.5	64.0	902.2
1984	251.5	238.4	12.2	0.4	89.5	3.4	1.0	45.4	4.2	169.3	1.2	10.9	337.6	29.3	9.5	0.0	0.5	33.3	900.0
1985	**268.8**	**228.4**	**13.4**	**0.4**	**90.2**	**3.3**	**1.3**	**50.8**	**3.9**	**165.2**	**1.4**	**10.3**	**340.4**	**20.8**	**21.2**	**0.0**	**0.6**	**20.4**	**900.6**
1986	262.1	209.0	13.5	0.8	93.0	3.3	0.7	51.0	3.9	164.7	3.8	6.3	341.0	32.3	9.8	0.0	0.7	30.0	885.0
1987	287.3	204.7	11.9	0.6	91.8	4.4	0.5	32.7	4.4	166.1	0.8	6.5	319.6	27.2	10.0	0.0	0.7	22.7	872.1
1988	306.1	240.8	14.7	0.7	92.9	4.0	0.5	36.9	4.2	171.0	1.7	6.4	333.1	34.0	7.2	0.0	0.6	16.2	938.0
1989	319.0	228.2	11.3	0.6	87.1	4.2	0.4	37.7	4.3	171.0	1.5	6.2	324.5	33.7	7.0	0.0	0.2	12.8	925.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 106. Residential Energy Consumption Estimates, 1960-1989, Iowa

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**319**	**0**	**319**	**58**	**2,610**	**2,301**	**3,312**	**8,223**	**3,720**	**9,253**
1961	269	0	269	62	2,514	2,117	3,289	7,921	3,937	9,596
1962	283	0	283	68	2,530	1,881	3,884	8,295	4,157	9,993
1963	234	0	234	68	2,319	2,063	4,164	8,547	4,433	10,601
1964	169	0	169	72	2,238	1,906	3,899	8,043	4,742	11,293
1965	**171**	**0**	**171**	**77**	**2,347**	**1,327**	**4,741**	**8,416**	**5,044**	**12,042**
1966	154	0	154	79	2,466	857	5,381	8,705	4,554	10,928
1967	116	0	116	82	2,565	450	6,996	10,011	4,845	11,574
1968	82	0	82	85	2,592	452	6,910	9,954	5,436	12,970
1969	79	0	79	91	2,312	399	7,418	10,129	5,920	14,142
1970	**62**	**0**	**62**	**96**	**2,232**	**325**	**6,826**	**9,383**	**6,480**	**15,703**
1971	42	0	42	92	2,003	247	6,844	9,094	6,854	16,569
1972	26	0	26	96	2,300	344	7,568	10,211	7,276	17,515
1973	26	0	26	91	2,215	369	7,257	9,841	7,651	18,317
1974	40	0	40	92	1,965	213	6,774	8,953	7,798	19,013
1975	**49**	**0**	**49**	**94**	**1,802**	**138**	**6,799**	**8,740**	**8,338**	**20,112**
1976	21	0	21	90	1,843	124	7,129	9,096	8,422	20,288
1977	25	0	25	87	1,935	134	6,664	8,733	8,852	21,374
1978	86	0	86	81	2,160	135	6,078	8,372	9,634	23,570
1979	111	0	111	96	3,328	245	5,040	8,612	9,701	23,412
1980	**32**	**0**	**32**	**85**	**2,388**	**47**	**3,890**	**6,325**	**10,038**	**24,409**
1981	69	1	70	77	2,011	235	3,601	5,848	9,852	23,479
1982	61	3	64	85	2,110	299	3,768	6,177	10,198	24,494
1983	66	0	66	77	1,014	54	4,482	5,550	11,064	26,507
1984	74	1	76	80	1,095	133	4,664	5,892	9,870	22,921
1985	**97**	**1**	**98**	**79**	**1,435**	**175**	**4,955**	**6,565**	**9,851**	**23,100**
1986	89	1	89	74	1,388	75	5,187	6,650	10,008	22,946
1987	117	1	119	65	1,218	51	3,557	4,826	10,045	22,893
1988	129	9	139	76	1,116	70	4,880	6,065	10,677	24,112
1989	60	2	63	77	1,065	45	4,933	6,043	10,394	23,315

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electricity: Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu											
1960	**6.8**	**0.0**	**6.8**	**60.5**	**15.2**	**13.0**	**13.3**	**41.5**	**12.7**	**121.5**	**31.6**	**153.1**
1961	5.7	0.0	5.7	63.7	14.6	12.0	13.2	39.8	13.4	122.7	32.7	155.4
1962	6.0	0.0	6.0	70.1	14.7	10.7	15.6	41.0	14.2	131.3	34.1	165.4
1963	5.0	0.0	5.0	68.6	13.5	11.7	16.7	41.9	15.1	130.6	36.2	166.7
1964	3.6	0.0	3.6	72.0	13.0	10.8	15.6	39.5	16.2	131.3	38.5	169.8
1965	**3.6**	**0.0**	**3.6**	**78.0**	**13.7**	**7.5**	**19.0**	**40.2**	**17.2**	**139.1**	**41.1**	**180.2**
1966	3.3	0.0	3.3	80.0	14.4	4.9	21.6	40.8	15.5	139.6	37.3	176.9
1967	2.4	0.0	2.4	83.3	14.9	2.6	26.9	44.3	16.5	146.6	39.5	186.1
1968	1.7	0.0	1.7	86.7	15.1	2.6	26.4	44.0	18.5	151.0	44.3	195.3
1969	1.6	0.0	1.6	93.1	13.5	2.3	28.2	44.0	20.2	158.9	48.3	207.2
1970	**1.3**	**0.0**	**1.3**	**97.1**	**13.0**	**1.8**	**25.8**	**40.6**	**22.1**	**161.1**	**53.6**	**214.7**
1971	0.8	0.0	0.8	93.1	11.7	1.4	25.8	38.9	23.4	156.2	56.5	212.7
1972	0.5	0.0	0.5	97.4	13.4	2.0	28.5	43.8	24.8	166.5	59.8	226.3
1973	0.5	0.0	0.5	92.6	12.9	2.1	27.2	42.2	26.1	161.4	62.5	223.9
1974	0.8	0.0	0.8	93.0	11.4	1.2	25.3	37.9	26.6	158.3	64.9	223.2
1975	**0.9**	**0.0**	**0.9**	**95.1**	**10.5**	**0.8**	**25.3**	**36.5**	**28.4**	**161.0**	**68.6**	**229.6**
1976	0.4	0.0	0.4	90.4	10.7	0.7	26.5	37.9	28.7	157.4	69.2	226.6
1977	0.5	0.0	0.5	87.3	11.3	0.8	24.5	36.5	30.2	154.6	72.9	227.5
1978	1.7	0.0	1.7	81.0	12.6	0.8	22.3	35.6	32.9	151.2	80.4	231.6
1979	2.4	0.0	2.4	96.1	19.4	1.4	18.5	39.3	33.1	170.9	79.9	250.8
1980	**0.6**	**0.0**	**0.6**	**85.2**	**13.9**	**0.3**	**14.3**	**28.5**	**34.2**	**148.6**	**83.3**	**231.8**
1981	1.4	*	1.4	77.2	11.7	1.3	13.1	26.2	33.6	138.5	80.1	218.6
1982	1.3	0.1	1.3	85.5	12.3	1.7	13.6	27.6	34.8	149.2	83.6	232.8
1983	1.4	0.0	1.4	78.4	5.9	0.3	16.2	22.4	37.8	140.0	90.4	230.4
1984	1.6	*	1.6	80.9	6.4	0.8	16.8	23.9	33.7	140.1	78.2	218.3
1985	**2.1**	*	**2.1**	**79.6**	**8.4**	**1.0**	**17.9**	**27.2**	**33.6**	**142.5**	**78.8**	**221.3**
1986	1.9	*	1.9	74.9	8.1	0.4	18.9	27.4	34.1	138.4	78.3	216.7
1987	2.4	*	2.5	65.8	7.1	0.3	13.0	20.4	34.3	122.9	78.1	201.0
1988	2.6	0.2	2.9	76.6	6.5	0.4	17.8	24.7	36.4	140.7	82.3	222.9
1989	1.4	0.1	1.4	78.3	6.2	0.3	18.2	24.6	35.5	139.8	79.6	219.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 107. Commercial Energy Consumption Estimates, 1960–1989, Iowa

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**592**	**0**	**592**	**28**	**1,046**	**94**	**584**	**178**	**232**	**2,135**	**1,812**	**4,506**		
1961	499	0	499	30	1,008	86	580	184	186	2,045	1,990	4,849		
1962	525	0	525	33	1,014	77	685	187	174	2,137	2,223	5,345		
1963	434	0	434	33	929	84	735	184	191	2,123	2,414	5,772		
1964	313	0	313	36	897	78	688	189	216	2,068	2,580	6,144		
1965	**318**	**0**	**318**	**39**	**941**	**54**	**837**	**194**	**135**	**2,161**	**2,797**	**6,679**		
1966	286	0	286	42	988	35	950	204	231	2,408	2,781	6,674		
1967	216	0	216	45	1,028	18	1,235	225	110	2,617	2,942	7,029		
1968	152	0	152	48	1,039	18	1,219	295	81	2,652	3,209	7,656		
1969	147	0	147	53	927	16	1,309	270	74	2,596	3,418	8,165		
1970	**116**	**0**	**116**	**57**	**895**	**13**	**1,205**	**271**	**65**	**2,449**	**3,655**	**8,857**		
1971	77	0	77	59	803	10	1,208	275	72	2,368	3,911	9,454		
1972	48	0	48	62	922	14	1,335	285	72	2,629	4,175	10,050		
1973	49	0	49	63	888	15	1,281	304	125	2,612	4,401	10,537		
1974	74	0	74	64	788	9	1,195	307	169	2,467	4,490	10,948		
1975	**90**	**0**	**90**	**67**	**722**	**6**	**1,200**	**323**	**115**	**2,366**	**5,121**	**12,353**		
1976	39	0	39	65	739	5	1,258	830	161	2,993	5,291	12,744		
1977	47	0	47	61	775	5	1,176	1,180	203	3,339	5,470	13,209		
1978	159	0	159	49	866	5	1,073	1,190	154	3,288	5,717	13,987		
1979	206	0	206	58	1,334	10	889	1,267	236	3,737	5,852	14,123		
1980	**59**	**0**	**59**	**51**	**751**	**5**	**686**	**350**	**79**	**1,871**	**5,502**	**13,379**		
1981	128	1	129	47	623	14	636	381	28	1,681	6,780	16,158		
1982	113	2	115	52	647	36	665	381	28	1,757	6,850	16,454		
1983	123	0	123	47	1,223	4	791	241	4	2,263	7,182	17,207		
1984	138	1	139	48	1,321	5	823	204	4	2,356	6,285	14,594		
1985	**179**	**1**	**180**	**48**	**1,124**	**11**	**874**	**237**	**1**	**2,248**	**6,306**	**14,788**		
1986	165	*	165	44	681	2	915	273	46	1,918	6,551	15,019		
1987	218	1	219	38	759	5	628	265	19	1,676	6,717	15,307		
1988	240	6	246	45	685	5	861	340	21	1,911	7,136	16,116		
1989	112	2	113	46	490	6	871	233	42	1,642	7,301	16,377		
												Net Energy[4]		Total[4]
							Trillion Btu							
1960	**12.6**	**0.0**	**12.6**	**28.8**	**6.1**	**0.5**	**2.3**	**0.9**	**1.5**	**11.4**	**6.2**	**59.0**	**15.4**	**74.4**
1961	10.6	0.0	10.6	31.2	5.9	0.5	2.3	1.0	1.2	10.8	6.8	59.4	16.5	76.0
1962	11.2	0.0	11.2	34.2	5.9	0.4	2.7	1.0	1.1	11.2	7.6	64.1	18.2	82.4
1963	9.2	0.0	9.2	33.4	5.4	0.5	2.9	1.0	1.2	11.0	8.2	61.9	19.7	81.6
1964	6.7	0.0	6.7	36.5	5.2	0.4	2.8	1.0	1.4	10.8	8.8	62.7	21.0	83.7
1965	**6.7**	**0.0**	**6.7**	**39.1**	**5.5**	**0.3**	**3.4**	**1.0**	**0.9**	**11.0**	**9.5**	**66.4**	**22.8**	**89.2**
1966	6.1	0.0	6.1	42.6	5.8	0.2	3.8	1.1	1.4	12.3	9.5	70.4	22.8	93.2
1967	4.5	0.0	4.5	46.1	6.0	0.1	4.7	1.2	0.7	12.7	10.0	73.3	24.0	97.3
1968	3.2	0.0	3.2	49.0	6.0	0.1	4.7	1.6	0.5	12.9	10.9	76.1	26.1	102.2
1969	3.1	0.0	3.1	53.8	5.4	0.1	5.0	1.4	0.5	12.4	11.7	80.9	27.9	108.7
1970	**2.4**	**0.0**	**2.4**	**57.8**	**5.2**	**0.1**	**4.6**	**1.4**	**0.4**	**11.7**	**12.5**	**84.3**	**30.2**	**114.5**
1971	1.6	0.0	1.6	59.7	4.7	0.1	4.6	1.4	0.5	11.2	13.3	85.8	32.3	118.0
1972	1.0	0.0	1.0	62.2	5.4	0.1	5.0	1.5	0.5	12.4	14.2	89.9	34.3	124.1
1973	1.0	0.0	1.0	64.2	5.2	0.1	4.8	1.6	0.8	12.4	15.0	92.7	36.0	128.6
1974	1.5	0.0	1.5	64.8	4.6	*	4.5	1.6	1.1	11.8	15.3	93.4	37.4	130.7
1975	**1.6**	**0.0**	**1.6**	**67.5**	**4.2**	*	**4.5**	**1.7**	**0.7**	**11.1**	**17.5**	**97.7**	**42.1**	**139.8**
1976	0.7	0.0	0.7	65.2	4.3	*	4.7	4.4	1.0	14.4	18.1	98.4	43.5	141.9
1977	1.0	0.0	1.0	60.7	4.5	*	4.3	6.2	1.3	16.3	18.7	96.8	45.1	141.8
1978	3.2	0.0	3.2	49.3	5.0	*	3.9	6.3	1.0	16.2	19.5	88.2	47.7	135.9
1979	4.4	0.0	4.4	58.4	7.8	0.1	3.3	6.7	1.5	19.2	20.0	102.0	48.2	150.2
1980	**1.2**	**0.0**	**1.2**	**50.7**	**4.4**	*	**2.5**	**1.8**	**0.5**	**9.3**	**18.8**	**79.9**	**45.6**	**125.6**
1981	2.6	*	2.7	46.9	3.6	0.1	2.3	2.0	0.2	8.2	23.1	80.9	55.1	136.1
1982	2.3	*	2.4	51.9	3.8	0.2	2.4	2.0	0.2	8.6	23.4	86.2	56.1	142.4
1983	2.7	0.0	2.7	47.5	7.1	*	2.9	1.3	*	11.3	24.5	86.0	58.7	144.7
1984	2.9	*	2.9	48.8	7.7	*	3.0	1.1	*	11.8	21.4	84.9	49.8	134.7
1985	**3.8**	*	**3.9**	**48.2**	**6.5**	**0.1**	**3.2**	**1.2**	*	**11.0**	**21.5**	**84.6**	**50.5**	**135.0**
1986	3.5	*	3.5	44.1	4.0	*	3.3	1.4	0.3	9.0	22.4	79.0	51.2	130.3
1987	4.5	*	4.5	38.4	4.4	*	2.3	1.4	0.1	8.3	22.9	74.1	52.2	126.3
1988	4.9	0.2	5.1	45.3	4.0	*	3.1	1.8	0.1	9.1	24.3	83.8	55.0	138.8
1989	2.5	*	2.6	46.7	2.9	*	3.2	1.2	0.3	7.6	24.9	81.7	55.9	137.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 108. Industrial Energy Consumption Estimates, 1960–1989, Iowa

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**2,062**	**131**	**2,193**	**43**	**2,579**	**5,536**	**192**	**1,098**	**196**	**5,797**	**573**	**33**	**16,005**	**2**	**2,676**	**6,657**		
1961	1,933	116	2,049	48	2,551	5,122	147	1,089	191	5,770	507	33	15,410	2	2,733	6,660		
1962	1,984	108	2,092	49	2,523	5,486	132	1,285	236	5,522	442	29	15,655	1	2,831	6,805		
1963	2,139	120	2,258	56	2,322	5,141	159	1,516	236	5,985	493	28	15,879	2	3,042	7,276		
1964	2,075	137	2,212	69	2,526	5,088	158	1,537	248	5,485	568	493	16,103	2	3,415	8,133		
1965	**2,344**	**120**	**2,464**	**68**	**2,569**	**5,607**	**142**	**1,815**	**218**	**5,373**	**354**	**533**	**16,610**	**2**	**3,719**	**8,879**		
1966	2,296	102	2,397	46	2,638	6,225	369	2,056	227	6,068	588	607	18,779	2	3,958	9,497		
1967	2,052	101	2,154	72	2,517	6,402	420	2,176	226	6,233	294	514	18,784	1	4,247	10,147		
1968	1,898	88	1,986	83	2,533	6,539	139	2,712	249	5,211	271	554	18,208	2	4,553	10,863		
1969	1,846	73	1,919	90	2,719	6,166	178	3,202	216	5,137	243	605	18,466	2	5,021	11,995		
1970	**1,894**	**61**	**1,955**	**99**	**2,914**	**5,884**	**152**	**2,949**	**220**	**5,391**	**261**	**638**	**18,409**	**1**	**5,338**	**12,936**		
1971	1,413	47	1,460	102	3,120	5,790	115	3,020	188	4,401	220	894	17,748	1	5,658	13,679		
1972	1,563	30	1,592	106	2,970	5,539	148	3,544	202	4,341	172	979	17,895	1	6,361	15,310		
1973	1,570	28	1,598	132	2,608	5,632	157	4,088	245	4,889	300	1,055	18,973	1	7,034	16,840		
1974	1,309	31	1,340	133	2,567	5,083	135	5,340	234	3,825	404	1,084	18,672	1	7,199	17,552		
1975	**1,294**	**39**	**1,333**	**121**	**2,294**	**4,670**	**70**	**5,593**	**155**	**3,791**	**279**	**981**	**17,832**	**1**	**6,626**	**15,984**		
1976	1,511	43	1,554	122	2,439	4,589	86	10,154	172	2,788	386	3,173	23,787	1	7,367	17,745		
1977	1,474	36	1,510	112	2,553	4,768	64	9,966	192	2,423	541	3,788	24,295	1	8,029	19,388		
1978	1,380	30	1,411	95	2,843	5,351	62	8,480	206	1,911	381	4,113	23,346	1	8,603	21,047		
1979	1,668	19	1,687	118	3,154	6,738	205	8,719	215	1,739	650	4,976	26,396	1	8,855	21,370		
1980	**1,471**	**34**	**1,505**	**115**	**1,699**	**4,698**	**119**	**6,557**	**192**	**2,612**	**273**	**5,278**	**21,428**	**1**	**9,318**	**22,659**		
1981	1,428	48	1,476	115	1,972	4,310	125	5,551	184	2,902	57	2,534	17,635	1	9,750	23,238		
1982	1,405	15	1,420	89	1,915	4,589	115	7,417	168	2,162	281	1,970	18,616	1	9,321	22,386		
1983	1,415	15	1,430	85	1,603	3,816	31	6,630	176	928	185	1,753	15,121	1	9,507	22,777		
1984	1,418	25	1,443	93	1,841	4,121	42	6,964	187	1,740	170	2,019	17,085	1	9,527	22,124		
1985	**1,556**	**16**	**1,572**	**87**	**2,023**	**4,788**	**50**	**8,153**	**175**	**1,703**	**215**	**1,910**	**19,016**	**1**	**9,520**	**22,325**		
1986	1,548	15	1,563	80	2,038	5,849	39	7,739	171	1,508	566	1,169	19,079	1	9,797	22,462		
1987	1,835	22	1,857	88	1,788	4,957	41	4,702	193	1,486	96	1,207	14,469	1	10,264	23,392		
1988	1,787	21	1,808	102	2,213	5,136	21	4,314	186	1,409	256	1,179	14,715	1	11,025	24,897		
1989	2,332	19	2,351	89	1,710	4,110	26	4,378	191	1,303	191	1,154	13,063	1	11,017	24,712		
								Trillion Btu										
1960	**48.4**	**3.2**	**51.7**	**44.9**	**17.1**	**32.2**	**1.1**	**4.4**	**1.2**	**30.5**	**3.6**	**0.2**	**90.3**	*	**9.1**	**196.0**	**22.7**	**218.7**
1961	45.3	2.9	48.2	49.2	16.9	29.8	0.8	4.4	1.2	30.3	3.2	0.2	86.8	*	9.3	193.6	22.7	216.3
1962	46.5	2.7	49.2	50.3	16.7	32.0	0.7	5.2	1.4	29.0	2.8	0.2	88.0	*	9.7	197.1	23.2	220.4
1963	50.1	2.9	53.0	56.0	15.4	29.9	0.9	6.1	1.4	31.4	3.1	0.2	88.5	*	10.4	207.9	24.8	232.7
1964	48.5	3.3	51.8	69.4	16.8	29.6	0.9	6.2	1.5	28.8	3.6	2.6	89.9	*	11.7	222.8	27.7	250.6
1965	**54.6**	**2.9**	**57.5**	**68.9**	**17.0**	**32.7**	**0.8**	**7.3**	**1.3**	**28.2**	**2.2**	**2.8**	**92.4**	*	**12.7**	**231.5**	**30.3**	**261.8**
1966	53.1	2.5	55.6	47.3	17.5	36.3	2.1	8.2	1.4	31.9	3.7	3.2	104.3	*	13.5	220.6	32.4	253.0
1967	47.1	2.4	49.5	73.4	16.7	37.3	2.4	8.4	1.4	32.7	1.9	2.7	103.4	*	14.5	240.8	34.6	275.4
1968	43.6	2.1	45.6	84.4	16.8	38.1	0.8	10.4	1.5	27.4	1.7	2.9	99.6	*	15.5	245.1	37.1	282.2
1969	41.8	1.7	43.5	91.6	18.0	35.9	1.0	12.2	1.3	27.0	1.5	3.2	100.2	*	17.1	252.5	40.9	293.4
1970	**41.5**	**1.4**	**43.0**	**99.9**	**19.3**	**34.3**	**0.9**	**11.1**	**1.3**	**28.3**	**1.6**	**3.4**	**100.3**	*	**18.2**	**261.3**	**44.1**	**305.5**
1971	30.6	1.1	31.7	103.0	20.7	33.7	0.7	11.4	1.1	23.1	1.4	4.8	96.9	*	19.3	251.0	46.7	297.6
1972	33.6	0.7	34.3	106.5	19.7	32.3	0.8	13.3	1.2	22.8	1.1	5.3	96.5	*	21.7	259.1	52.2	311.3
1973	33.9	0.6	34.5	133.4	17.3	32.8	0.9	15.3	1.5	25.7	1.9	5.7	101.1	*	24.0	293.0	57.5	350.5
1974	28.0	0.7	28.7	134.8	17.0	29.6	0.8	19.9	1.4	20.1	2.5	5.9	97.3	*	24.6	285.3	59.9	345.2
1975	**27.5**	**0.9**	**28.4**	**122.5**	**15.2**	**27.2**	**0.4**	**20.8**	**0.9**	**19.9**	**1.8**	**5.3**	**91.5**	*	**22.6**	**265.0**	**54.5**	**319.6**
1976	31.7	1.0	32.7	123.3	16.2	26.7	0.5	37.7	1.0	14.6	2.4	17.6	116.8	*	25.1	297.9	60.5	358.5
1977	30.8	0.9	31.7	112.6	16.9	27.8	0.4	36.6	1.2	12.7	3.4	21.2	120.2	*	27.4	291.9	66.2	358.1
1978	29.0	0.7	29.7	95.2	18.9	31.2	0.4	31.1	1.2	10.0	2.4	23.1	118.2	*	29.4	272.5	71.8	344.3
1979	35.6	0.5	36.1	118.4	20.9	39.2	1.2	32.1	1.3	9.1	4.1	27.5	135.5	*	30.2	320.2	72.9	393.1
1980	**31.6**	**0.8**	**32.4**	**114.9**	**11.3**	**27.4**	**0.7**	**24.1**	**1.2**	**13.7**	**1.7**	**28.9**	**108.9**	*	**31.8**	**288.0**	**77.3**	**365.3**
1981	30.9	1.1	32.1	115.5	13.1	25.1	0.7	20.2	1.1	15.2	0.4	13.8	89.7	*	33.3	270.5	79.3	349.8
1982	30.8	0.4	31.2	90.1	12.7	26.7	0.7	26.8	1.0	11.4	1.8	10.7	91.8	*	31.8	244.9	76.4	321.3
1983	31.2	0.4	31.6	86.3	10.6	22.2	0.2	24.0	1.1	4.9	1.2	9.7	73.8	*	32.4	224.1	77.7	301.8
1984	31.7	0.6	32.3	94.7	12.2	24.0	0.2	25.1	1.1	9.1	1.1	10.9	83.7	*	32.5	243.3	75.5	318.8
1985	**35.2**	**0.4**	**35.6**	**88.0**	**13.4**	**27.9**	**0.3**	**29.4**	**1.1**	**8.9**	**1.4**	**10.3**	**92.7**	*	**32.5**	**248.7**	**76.2**	**324.9**
1986	35.1	0.4	35.5	81.2	13.5	34.1	0.2	28.2	1.0	7.9	3.6	6.3	94.8	*	33.4	244.9	76.6	321.5
1987	41.9	0.6	42.5	89.1	11.9	28.9	0.2	17.2	1.2	7.8	0.6	6.5	74.3	*	35.0	240.8	79.8	320.6
1988	41.2	0.5	41.7	102.7	14.7	29.9	0.1	15.8	1.1	7.4	1.6	6.4	77.0	*	37.6	259.1	84.9	344.0
1989	53.4	0.5	54.0	90.3	11.3	23.9	0.1	16.1	1.2	6.8	1.2	6.2	67.0	*	37.6	248.9	84.3	333.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 109. Transportation Energy Consumption Estimates, 1960–1989, Iowa

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity		Electrical System Energy Losses[3]	
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**36**	**9**	**366**	**1,711**	**195**	**23**	**516**	**23,488**	**227**	**26,526**	**0**		**0**	
1961	9	8	225	1,252	200	18	502	23,576	357	26,131	0		0	
1962	8	9	328	1,866	227	28	484	24,000	254	27,187	0		0	
1963	8	10	315	2,506	239	45	484	24,223	236	28,047	0		0	
1964	8	10	358	2,610	252	38	508	24,375	238	28,380	0		0	
1965	**8**	**11**	**358**	**1,991**	**232**	**55**	**480**	**25,224**	**15**	**28,354**	**0**		**0**	
1966	7	11	471	2,477	298	74	498	26,386	29	30,233	0		0	
1967	5	14	370	2,398	471	111	414	28,093	46	31,901	0		0	
1968	4	13	295	3,776	650	90	455	29,130	24	34,419	0		0	
1969	3	16	271	4,122	745	100	471	30,014	24	35,746	0		0	
1970	**3**	**18**	**256**	**4,339**	**725**	**58**	**480**	**30,039**	**26**	**35,923**	**0**		**0**	
1971	2	20	261	5,285	655	67	397	32,649	6	39,318	0		0	
1972	2	20	239	5,640	730	58	425	33,778	0	40,871	0		0	
1973	1	16	98	6,532	710	66	506	36,911	0	44,824	0		0	
1974	1	17	232	6,629	749	59	485	34,716	0	42,870	0		0	
1975	*	**16**	**191**	**6,851**	**835**	**53**	**501**	**34,929**	**0**	**43,359**	**0**		**0**	
1976	*	9	206	7,439	964	45	556	37,119	18	46,348	0		0	
1977	*	7	204	7,945	1,004	48	521	37,633	13	47,369	0		0	
1978	0	5	214	7,776	1,127	68	560	37,826	6	47,577	0		0	
1979	0	11	191	8,816	1,039	39	586	35,494	0	46,165	0		0	
1980	**0**	**13**	**184**	**7,924**	**813**	**34**	**522**	**32,432**	**0**	**41,909**	**0**		**0**	
1981	0	11	161	7,394	717	103	500	30,991	7	39,874	0		0	
1982	0	9	111	8,756	635	103	456	30,487	0	40,549	0		0	
1983	0	8	109	7,907	591	123	478	31,217	3	40,428	0		0	
1984	0	11	89	8,715	615	176	509	30,280	5	40,389	0		0	
1985	**0**	**10**	**83**	**8,042**	**592**	**117**	**475**	**29,518**	**0**	**38,827**	**0**		**0**	
1986	0	7	151	7,940	595	170	464	29,575	0	38,894	0		0	
1987	0	8	110	8,713	779	51	525	29,863	10	40,051	0		0	
1988	0	11	145	8,886	713	55	506	30,803	0	41,109	0		0	
1989	0	10	111	9,184	750	62	519	31,021	*	41,648	0		0	
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**0.9**	**9.2**	**1.8**	**10.0**	**1.0**	**0.1**	**3.1**	**123.4**	**1.4**	**140.9**	**0.0**	**151.0**	**0.0**	**151.0**
1961	0.2	8.6	1.1	7.3	1.1	0.1	3.0	123.8	2.2	138.7	0.0	147.5	0.0	147.5
1962	0.2	9.2	1.7	10.9	1.2	0.1	2.9	126.1	1.6	144.5	0.0	153.9	0.0	153.9
1963	0.2	9.6	1.6	14.6	1.3	0.2	2.9	127.2	1.5	149.3	0.0	159.1	0.0	159.1
1964	0.2	10.0	1.8	15.2	1.4	0.2	3.1	128.0	1.5	151.1	0.0	161.4	0.0	161.4
1965	**0.2**	**11.2**	**1.8**	**11.6**	**1.3**	**0.2**	**2.9**	**132.5**	**0.1**	**150.4**	**0.0**	**161.7**	**0.0**	**161.7**
1966	0.2	11.0	2.4	14.4	1.6	0.3	3.0	138.6	0.2	160.5	0.0	171.7	0.0	171.7
1967	0.1	14.1	1.9	14.0	2.6	0.4	2.5	147.6	0.3	169.2	0.0	183.4	0.0	183.4
1968	0.1	12.9	1.5	22.0	3.6	0.3	2.8	153.0	0.2	183.4	0.0	196.3	0.0	196.3
1969	0.1	16.2	1.4	24.0	4.2	0.4	2.9	157.7	0.1	190.6	0.0	206.9	0.0	206.9
1970	**0.1**	**18.5**	**1.3**	**25.3**	**4.1**	**0.2**	**2.9**	**157.8**	**0.2**	**191.7**	**0.0**	**210.2**	**0.0**	**210.2**
1971	*	20.0	1.3	30.8	3.7	0.3	2.4	171.5	*	210.0	0.0	230.0	0.0	230.0
1972	*	20.5	1.2	32.9	4.1	0.2	2.6	177.4	0.0	218.4	0.0	238.9	0.0	238.9
1973	*	16.7	0.5	38.1	4.0	0.2	3.1	193.9	0.0	239.7	0.0	256.5	0.0	256.5
1974	*	17.4	1.2	38.6	4.2	0.2	2.9	182.4	0.0	229.5	0.0	246.9	0.0	246.9
1975	*	**16.2**	**1.0**	**39.9**	**4.7**	**0.2**	**3.0**	**183.5**	**0.0**	**232.3**	**0.0**	**248.5**	**0.0**	**248.5**
1976	*	8.9	1.0	43.3	5.4	0.2	3.4	195.0	0.1	248.4	0.0	257.4	0.0	257.4
1977	*	7.0	1.0	46.3	5.6	0.2	3.2	197.7	0.1	254.1	0.0	261.1	0.0	261.1
1978	0.0	4.9	1.1	45.3	6.3	0.3	3.4	198.7	*	255.1	0.0	260.0	0.0	260.0
1979	0.0	10.8	1.0	51.4	5.9	0.1	3.6	186.5	0.0	248.3	0.0	259.1	0.0	259.1
1980	**0.0**	**12.7**	**0.9**	**46.2**	**4.6**	**0.1**	**3.2**	**170.4**	**0.0**	**225.3**	**0.0**	**238.0**	**0.0**	**238.0**
1981	0.0	10.9	0.8	43.1	4.0	0.4	3.0	162.8	*	214.2	0.0	225.1	0.0	225.1
1982	0.0	8.9	0.6	51.0	3.6	0.4	2.8	160.1	0.0	218.4	0.0	227.3	0.0	227.3
1983	0.0	8.0	0.6	46.1	3.3	0.4	2.9	164.0	*	217.3	0.0	225.3	0.0	225.3
1984	0.0	10.7	0.4	50.8	3.4	0.6	3.1	159.1	*	217.5	0.0	228.2	0.0	228.2
1985	**0.0**	**10.5**	**0.4**	**46.8**	**3.3**	**0.4**	**2.9**	**155.1**	**0.0**	**208.9**	**0.0**	**219.4**	**0.0**	**219.4**
1986	0.0	7.3	0.8	46.2	3.3	0.6	2.8	155.4	0.0	209.1	0.0	216.5	0.0	216.5
1987	0.0	8.2	0.6	50.8	4.4	0.2	3.2	156.9	0.1	216.0	0.0	224.2	0.0	224.2
1988	0.0	10.7	0.7	51.8	4.0	0.2	3.1	161.8	0.0	221.6	0.0	232.2	0.0	232.2
1989	0.0	10.6	0.6	53.5	4.2	0.2	3.1	163.0	*	224.6	0.0	235.2	0.0	235.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 110. Estimates of Energy Input at Electric Utilities, 1960–1989, Iowa

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**2,118**	**0**	**2,118**	**49**	**39**	**259**	**0**	**298**	**0**	**879**	**0**	**25**	
1961	1,902	0	1,902	57	30	200	0	230	0	895	0	21	
1962	2,286	0	2,286	55	25	169	0	195	0	930	0	12	
1963	2,329	0	2,329	53	28	191	0	219	0	756	0	16	
1964	2,368	0	2,368	56	23	157	0	180	0	688	0	28	
1965	**2,760**	**0**	**2,760**	**52**	**27**	**183**	**0**	**210**	**0**	**926**	**0**	**30**	
1966	2,841	0	2,841	62	31	205	0	235	0	865	0	39	
1967	2,977	0	2,977	61	32	215	0	247	0	805	0	36	
1968	3,233	0	3,233	69	33	223	0	257	0	950	0	33	
1969	3,714	0	3,714	69	33	222	0	256	0	864	0	31	
1970	**4,030**	**0**	**4,030**	**78**	**49**	**327**	**0**	**375**	**0**	**934**	**0**	**38**	
1971	4,316	0	4,316	71	116	376	0	492	0	911	0	46	
1972	5,277	0	5,277	61	264	540	0	804	0	992	0	45	
1973	5,351	0	5,351	62	147	265	0	411	0	905	0	46	
1974	4,720	0	4,720	61	125	360	0	484	1,330	890	0	34	
1975	**4,936**	**0**	**4,936**	**47**	**214**	**507**	**0**	**722**	**2,291**	**877**	**0**	**40**	
1976	6,697	0	6,697	26	366	478	0	845	2,479	644	0	35	
1977	7,593	0	7,593	14	339	554	0	893	2,888	779	0	22	
1978	8,454	0	8,454	8	380	763	0	1,143	1,209	929	0	8	
1979	9,347	0	9,347	8	330	496	30	856	2,889	897	0	0	
1980	**10,745**	**0**	**10,745**	**7**	**63**	**168**	**0**	**231**	**2,563**	**945**	**0**	**29**	
1981	11,808	0	11,808	3	6	175	0	181	2,204	980	0	17	
1982	11,435	0	11,435	3	25	133	0	158	2,269	917	0	23	
1983	11,921	0	11,921	3	16	139	0	155	2,309	918	0	45	
1984	11,966	0	11,966	3	9	108	0	117	2,700	917	0	45	
1985	**12,491**	**0**	**12,491**	**2**	**2**	**101**	**0**	**103**	**1,927**	**2,047**	**0**	**60**	
1986	12,044	0	12,044	1	0	105	0	105	2,993	952	0	70	
1987	12,997	0	12,997	3	0	115	0	115	2,523	970	0	67	
1988	13,921	0	13,921	5	0	123	0	123	3,163	698	0	57	
1989	14,598	0	14,598	2	0	112	0	112	3,139	672	0	24	
	Trillion Btu												
1960	**44.0**	**0.0**	**44.0**	**50.3**	**0.2**	**1.5**	**0.0**	**1.8**	**0.0**	**9.5**	**0.0**	**0.3**	**105.8**
1961	39.7	0.0	39.7	59.2	0.2	1.2	0.0	1.4	0.0	9.5	0.0	0.2	110.0
1962	47.7	0.0	47.7	57.2	0.2	1.0	0.0	1.1	0.0	9.8	0.0	0.1	116.0
1963	48.8	0.0	48.8	52.9	0.2	1.1	0.0	1.3	0.0	7.9	0.0	0.2	111.1
1964	50.5	0.0	50.5	56.6	0.1	0.9	0.0	1.1	0.0	7.2	0.0	0.3	115.7
1965	**58.6**	**0.0**	**58.6**	**52.8**	**0.2**	**1.1**	**0.0**	**1.2**	**0.0**	**9.7**	**0.0**	**0.3**	**122.6**
1966	60.4	0.0	60.4	63.1	0.2	1.2	0.0	1.4	0.0	9.0	0.0	0.4	134.3
1967	64.2	0.0	64.2	61.8	0.2	1.3	0.0	1.5	0.0	8.4	0.0	0.4	136.2
1968	69.4	0.0	69.4	70.7	0.2	1.3	0.0	1.5	0.0	9.9	0.0	0.3	151.8
1969	78.7	0.0	78.7	70.2	0.2	1.3	0.0	1.5	0.0	9.0	0.0	0.3	159.8
1970	**84.2**	**0.0**	**84.2**	**78.6**	**0.3**	**1.9**	**0.0**	**2.2**	**0.0**	**9.8**	**0.0**	**0.4**	**175.2**
1971	90.6	0.0	90.6	72.0	0.7	2.2	0.0	2.9	0.0	9.5	0.0	0.5	175.5
1972	109.0	0.0	109.0	61.1	1.7	3.1	0.0	4.8	0.0	10.3	0.0	0.5	185.6
1973	112.6	0.0	112.6	62.1	0.9	1.5	0.0	2.5	0.0	9.4	0.0	0.5	187.1
1974	97.2	0.0	97.2	61.7	0.8	2.1	0.0	2.9	14.8	9.3	0.0	0.4	186.2
1975	**100.6**	**0.0**	**100.6**	**47.3**	**1.3**	**3.0**	**0.0**	**4.3**	**25.2**	**9.1**	**0.0**	**0.4**	**187.0**
1976	135.6	0.0	135.6	26.1	2.3	2.8	0.0	5.1	27.4	6.7	0.0	0.4	201.3
1977	151.9	0.0	151.9	13.8	2.1	3.2	0.0	5.4	31.1	8.1	0.0	0.2	210.4
1978	166.7	0.0	166.7	8.3	2.4	4.4	0.0	6.8	13.2	9.6	0.0	0.1	204.8
1979	176.6	0.0	176.6	8.4	2.1	2.9	0.2	5.1	31.4	9.3	0.0	0.0	230.9
1980	**200.2**	**0.0**	**200.2**	**6.9**	**0.4**	**1.0**	**0.0**	**1.4**	**28.0**	**9.8**	**0.0**	**0.3**	**246.6**
1981	215.9	0.0	215.9	3.4	*	1.0	0.0	1.1	24.3	10.2	0.0	0.2	255.1
1982	209.0	0.0	209.0	2.5	0.2	0.8	0.0	0.9	25.1	9.6	0.0	0.2	247.4
1983	218.0	0.0	218.0	3.3	0.1	0.8	0.0	0.9	25.2	9.7	0.0	0.5	257.6
1984	214.7	0.0	214.7	3.2	0.1	0.6	0.0	0.7	29.3	9.5	0.0	0.5	257.8
1985	**227.3**	**0.0**	**227.3**	**2.1**	*	**0.6**	**0.0**	**0.6**	**20.8**	**21.2**	**0.0**	**0.6**	**272.7**
1986	221.3	0.0	221.3	1.4	0.0	0.6	0.0	0.6	32.3	9.8	0.0	0.7	266.1
1987	237.9	0.0	237.9	3.3	0.0	0.7	0.0	0.7	27.2	9.9	0.0	0.7	279.7
1988	256.5	0.0	256.5	5.5	0.0	0.7	0.0	0.7	34.0	7.1	0.0	0.6	304.4
1989	261.0	0.0	261.0	2.4	0.0	0.7	0.0	0.7	33.7	6.9	0.0	0.2	304.9

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 111. Energy Consumption Estimates by Source, 1960-1989, Kansas

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**675**	**361**	**2,198**	**170**	**4,739**	**952**	**696**	**5,590**	**737**	**23,712**	**2,403**	**6,489**	**47,686**	**0**	**20**	**0**	**0**	**-4,181**	
1961	577	352	2,718	173	5,170	970	539	5,768	717	24,012	1,511	6,368	47,945	0	16	0	0	-4,814	
1962	625	361	3,034	310	5,223	1,042	431	6,310	690	24,872	1,605	6,551	50,068	0	15	0	0	-4,861	
1963	713	369	2,859	367	5,570	1,072	388	6,705	690	25,148	1,653	6,722	51,174	0	17	0	0	-4,735	
1964	626	394	2,979	426	5,434	1,242	386	5,954	724	24,773	1,169	6,668	49,755	0	13	0	0	-4,467	
1965	**644**	**443**	**3,061**	**493**	**5,257**	**1,053**	**1,813**	**6,521**	**770**	**25,525**	**1,066**	**7,043**	**52,601**	**0**	**13**	**0**	**0**	**-3,746**	
1966	580	484	2,860	455	6,123	1,147	944	6,320	799	25,872	1,070	7,288	52,879	0	13	0	0	-4,114	
1967	516	451	2,349	373	5,824	1,606	528	7,064	711	26,501	1,372	7,252	53,579	0	9	0	0	-6,201	
1968	536	497	1,984	391	6,628	1,745	578	7,838	781	27,901	1,670	7,547	57,064	0	10	0	0	-3,870	
1969	416	547	2,046	316	6,408	1,685	584	8,638	643	28,530	1,523	7,930	58,301	0	6	0	0	-5,669	
1970	**458**	**576**	**2,188**	**326**	**7,550**	**1,561**	**306**	**8,009**	**655**	**28,849**	**1,127**	**7,250**	**57,821**	**0**	**7**	**0**	**0**	**-5,106**	
1971	459	607	2,554	299	8,385	1,525	183	7,769	738	29,136	811	7,112	58,512	0	7	0	0	-5,347	
1972	531	628	2,385	262	9,010	1,452	150	8,293	790	31,075	2,256	7,537	63,209	0	5	0	0	-4,748	
1973	1,185	604	2,628	212	10,303	1,399	137	8,472	933	31,273	2,541	8,168	66,067	0	3	0	0	-3,881	
1974	1,952	587	2,743	236	10,778	1,404	114	8,439	894	31,000	2,791	8,387	66,784	0	7	0	0	-5,094	
1975	**3,117**	**499**	**2,162**	**177**	**11,273**	**1,310**	**100**	**8,857**	**773**	**32,004**	**6,365**	**8,449**	**71,470**	**0**	**5**	**0**	**0**	**-5,045**	
1976	3,597	515	2,343	231	12,071	1,239	238	9,952	859	33,850	6,220	8,096	75,098	0	5	0	0	-4,186	
1977	4,682	507	2,597	253	12,456	1,426	333	10,087	1,011	33,273	6,282	8,511	76,227	0	3	0	0	-5,845	
1978	7,469	519	3,378	211	14,250	1,506	210	9,046	1,085	33,496	6,771	8,606	78,559	0	5	0	0	-10,806	
1979	7,878	584	3,164	244	19,555	1,922	798	9,862	1,136	31,885	4,718	8,867	82,151	0	4	0	0	-9,338	
1980	**10,370**	**488**	**3,019**	**221**	**14,764**	**2,466**	**492**	**8,404**	**1,011**	**29,584**	**1,498**	**8,640**	**70,100**	**0**	**8**	**0**	**0**	**-9,085**	
1981	11,684	428	1,869	214	13,414	2,442	240	7,438	970	29,272	1,037	6,979	63,874	0	8	0	0	-8,386	
1982	11,895	401	1,890	190	13,814	1,834	226	11,948	884	28,588	1,028	5,459	65,860	0	7	0	0	-3,740	
1983	13,103	346	1,450	176	14,009	1,492	182	12,021	926	28,603	1,956	5,999	66,813	0	6	0	0	-3,404	
1984	15,565	364	1,928	154	15,150	3,338	142	25,802	987	28,499	1,605	6,337	83,942	0	7	0	*	-11,064	
1985	**14,715**	**355**	**1,700**	**137**	**15,040**	**4,424**	**87**	**23,156**	**920**	**28,203**	**99**	**5,667**	**79,434**	**3,856**	**9**	**0**	*	**-13,657**	
1986	14,359	313	2,657	162	14,319	7,038	75	17,906	900	28,453	584	6,161	78,255	6,959	8	0	*	-20,283	
1987	15,194	328	2,614	121	16,713	4,285	63	16,894	1,017	29,085	367	6,603	77,761	6,471	9	0	*	-22,046	
1988	14,951	353	4,378	148	16,591	4,176	38	19,499	981	30,859	863	7,767	85,300	6,650	12	0	*	-20,397	
1989	14,963	341	3,109	156	15,785	3,833	60	19,479	1,006	29,838	456	7,842	81,564	9,709	10	0	*	-29,545	
									Trillion Btu										
1960	**15.7**	**373.7**	**14.6**	**0.9**	**27.6**	**5.1**	**3.9**	**22.4**	**4.5**	**124.6**	**15.1**	**39.0**	**257.6**	**0.0**	**0.2**	**0.0**	**0.0**	**-14.3**	**633.0**
1961	13.5	364.0	18.0	0.9	30.1	5.2	3.1	23.1	4.4	126.1	9.5	38.3	258.6	0.0	0.2	0.0	0.0	-16.4	619.9
1962	14.6	373.7	20.1	1.6	30.4	5.6	2.4	25.3	4.2	130.7	10.1	39.4	269.7	0.0	0.2	0.0	0.0	-16.6	641.6
1963	16.7	367.8	19.0	1.9	32.4	5.7	2.2	26.9	4.2	132.1	10.4	40.4	275.2	0.0	0.2	0.0	0.0	-16.2	643.7
1964	14.8	391.3	19.8	2.1	31.7	6.7	2.2	23.9	4.4	130.1	7.4	40.0	268.2	0.0	0.1	0.0	0.0	-15.2	659.2
1965	**15.3**	**440.8**	**20.3**	**2.5**	**30.6**	**5.7**	**10.3**	**26.2**	**4.7**	**134.1**	**6.7**	**42.2**	**283.2**	**0.0**	**0.1**	**0.0**	**0.0**	**-12.8**	**726.7**
1966	13.7	481.1	19.0	2.3	35.7	6.2	5.4	25.4	4.8	135.9	6.7	43.6	284.9	0.0	0.1	0.0	0.0	-14.0	765.8
1967	12.2	446.5	15.6	1.9	33.9	8.8	3.0	27.1	4.3	139.2	8.6	43.4	285.8	0.0	0.1	0.0	0.0	-21.2	723.4
1968	12.7	490.6	13.2	2.0	38.6	9.5	3.3	29.9	4.7	146.6	10.5	45.1	303.4	0.0	0.1	0.0	0.0	-13.2	793.7
1969	9.8	540.7	13.6	1.6	37.3	9.2	3.3	32.9	3.9	149.9	9.6	47.4	308.7	0.0	0.1	0.0	0.0	-19.3	839.8
1970	**10.7**	**574.5**	**14.5**	**1.6**	**44.0**	**8.6**	**1.7**	**30.3**	**4.0**	**151.5**	**7.1**	**43.3**	**306.7**	**0.0**	**0.1**	**0.0**	**0.0**	**-17.4**	**874.5**
1971	10.8	605.8	16.9	1.5	48.8	8.4	1.0	29.3	4.5	153.1	5.1	42.5	311.1	0.0	0.1	0.0	0.0	-18.2	909.6
1972	12.4	626.9	15.8	1.3	52.5	8.0	0.9	31.2	4.8	163.2	14.2	45.0	336.9	0.0	*	0.0	0.0	-16.2	960.0
1973	24.6	597.2	17.4	1.1	60.0	7.7	0.8	31.7	5.7	164.3	16.0	48.8	353.5	0.0	*	0.0	0.0	-13.2	962.1
1974	39.1	578.8	18.2	1.2	62.8	7.7	0.6	31.5	5.4	162.8	17.5	50.1	357.9	0.0	0.1	0.0	0.0	-17.4	958.5
1975	**62.3**	**490.7**	**14.3**	**0.9**	**65.7**	**7.2**	**0.6**	**32.9**	**4.7**	**168.1**	**40.0**	**50.5**	**384.9**	**0.0**	*	**0.0**	**0.0**	**-17.2**	**920.8**
1976	73.4	505.4	15.5	1.2	70.3	6.8	1.4	36.9	5.2	177.8	39.1	48.4	402.6	0.0	0.1	0.0	0.0	-14.3	967.2
1977	89.5	497.3	17.2	1.3	72.6	7.9	1.9	37.1	6.1	174.8	39.5	50.8	409.1	0.0	*	0.0	0.0	-19.9	976.0
1978	136.8	508.0	22.4	1.1	83.0	8.4	1.2	33.2	6.6	176.0	42.6	51.4	425.7	0.0	*	0.0	0.0	-36.9	1,033.7
1979	147.5	571.3	21.0	1.2	113.9	10.7	4.5	36.3	6.9	167.5	29.7	52.8	444.6	0.0	*	0.0	0.0	-31.9	1,131.5
1980	**191.6**	**482.0**	**20.0**	**1.1**	**86.0**	**13.8**	**2.8**	**30.9**	**6.1**	**155.4**	**9.4**	**51.4**	**377.0**	**0.0**	**0.1**	**0.0**	**0.0**	**-31.0**	**1,019.7**
1981	212.9	422.6	12.4	1.1	78.1	13.6	1.4	27.1	5.9	153.8	6.5	42.1	342.0	0.0	0.1	0.0	0.0	-28.6	949.0
1982	212.5	400.5	12.5	1.0	80.5	10.2	1.3	43.2	5.4	150.2	6.5	32.8	343.4	0.0	0.1	0.0	0.0	-12.8	943.8
1983	231.2	345.9	9.6	0.9	81.6	8.2	1.0	43.4	5.6	150.3	12.3	36.0	348.9	0.0	0.1	0.0	0.0	-11.6	914.4
1984	274.8	360.8	12.8	0.8	88.3	18.7	0.8	92.9	6.0	149.7	10.1	37.5	417.5	0.0	0.1	0.0	*	-37.8	1,015.4
1985	**259.5**	**354.8**	**11.3**	**0.7**	**87.6**	**24.8**	**0.5**	**83.4**	**5.6**	**148.1**	**0.6**	**34.0**	**396.7**	**41.7**	**0.1**	**0.0**	*	**-46.6**	**1,006.2**
1986	251.7	308.0	17.6	0.8	83.4	39.7	0.4	65.2	5.5	149.5	3.7	37.2	402.9	75.1	0.1	0.0	*	-69.2	968.6
1987	267.4	343.2	17.3	0.6	97.4	24.1	0.4	61.8	6.2	152.8	2.3	39.2	402.0	69.7	0.1	0.0	*	-75.2	1,007.2
1988	269.3	348.0	29.1	0.7	96.6	23.4	0.2	71.2	5.9	162.1	5.4	46.1	440.8	71.4	0.1	0.0	*	-69.6	1,060.1
1989	266.5	338.6	20.6	0.8	91.9	21.5	0.3	71.7	6.1	156.7	2.9	46.2	418.8	104.1	0.1	0.0	*	-100.8	1,027.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 112. Residential Energy Consumption Estimates, 1960–1989, Kansas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**22**	**0**	**22**	**73**	**53**	**303**	**3,447**	**3,804**	**2,360**	**5,869**		
1961	15	0	15	84	77	341	3,659	4,076	2,464	6,006		
1962	16	0	16	85	76	223	3,964	4,263	2,722	6,545		
1963	11	0	11	82	62	210	4,068	4,340	3,023	7,230		
1964	8	0	8	86	50	180	3,590	3,819	3,178	7,569		
1965	**6**	**0**	**6**	**87**	**50**	**1,285**	**3,991**	**5,327**	**3,251**	**7,762**		
1966	5	0	5	88	68	560	3,696	4,324	3,555	8,530		
1967	3	0	3	85	70	138	4,112	4,320	3,627	8,665		
1968	3	0	3	89	72	177	4,526	4,776	4,214	10,055		
1969	7	0	7	94	60	166	4,850	5,076	4,784	11,429		
1970	**4**	**0**	**4**	**97**	**53**	**116**	**4,825**	**4,994**	**5,348**	**12,960**		
1971	3	0	3	99	51	64	4,632	4,747	5,554	13,427		
1972	4	0	4	101	77	76	4,835	4,989	5,966	14,360		
1973	2	0	2	96	88	77	4,758	4,922	6,469	15,486		
1974	1	0	1	93	88	64	4,423	4,575	6,629	16,164		
1975	**0**	**0**	**0**	**88**	**96**	**60**	**4,563**	**4,719**	**5,695**	**13,736**		
1976	0	0	0	101	161	161	4,695	5,017	5,758	13,870		
1977	0	0	0	95	160	218	4,641	5,018	5,964	14,401		
1978	6	0	6	99	183	119	4,253	4,555	6,571	16,076		
1979	10	0	10	102	379	329	2,461	3,169	6,290	15,180		
1980	**2**	**0**	**2**	**85**	**150**	**5**	**2,083**	**2,237**	**7,189**	**17,481**		
1981	1	0	1	75	19	10	1,631	1,660	7,600	18,113		
1982	4	0	4	82	173	18	1,609	1,800	7,746	18,604		
1983	1	0	1	81	43	29	1,913	1,985	8,368	20,040		
1984	1	0	1	79	46	41	1,598	1,686	8,269	19,203		
1985	*	**0**	*	**78**	**65**	**41**	**2,429**	**2,535**	**8,195**	**19,216**		
1986	*	0	*	71	24	19	1,918	1,962	8,346	19,135		
1987	*	0	*	70	21	16	1,812	1,850	8,617	19,638		
1988	*	0	*	76	30	18	2,279	2,327	9,121	20,598		
1989	2	0	2	76	32	19	2,125	2,176	8,898	19,958		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**0.5**	**0.0**	**0.5**	**76.1**	**0.3**	**1.7**	**13.8**	**15.9**	**8.1**	**100.4**	**20.0**	**120.5**
1961	0.3	0.0	0.3	87.3	0.4	1.9	14.7	17.1	8.4	113.1	20.5	133.6
1962	0.3	0.0	0.3	88.4	0.4	1.3	15.9	17.6	9.3	115.6	22.3	138.0
1963	0.2	0.0	0.2	81.7	0.4	1.2	16.3	17.9	10.3	110.1	24.7	134.8
1964	0.2	0.0	0.2	85.5	0.3	1.0	14.4	15.7	10.8	112.3	25.8	138.1
1965	**0.1**	**0.0**	**0.1**	**86.4**	**0.3**	**7.3**	**16.0**	**23.6**	**11.1**	**121.2**	**26.5**	**147.7**
1966	0.1	0.0	0.1	87.1	0.4	3.2	14.8	18.4	12.1	117.7	29.1	146.8
1967	0.1	0.0	0.1	84.1	0.4	0.8	15.8	17.0	12.4	113.5	29.6	143.0
1968	0.1	0.0	0.1	88.3	0.4	1.0	17.3	18.7	14.4	121.5	34.3	155.8
1969	0.2	0.0	0.2	93.2	0.3	0.9	18.5	19.7	16.3	129.4	39.0	168.4
1970	**0.1**	**0.0**	**0.1**	**97.1**	**0.3**	**0.7**	**18.2**	**19.2**	**18.2**	**134.6**	**44.2**	**178.9**
1971	0.1	0.0	0.1	98.4	0.3	0.4	17.5	18.1	18.9	135.6	45.8	181.4
1972	0.1	0.0	0.1	100.6	0.4	0.4	18.2	19.1	20.4	140.1	49.0	189.1
1973	*	0.0	*	95.0	0.5	0.4	17.8	18.8	22.1	135.9	52.8	188.7
1974	*	0.0	*	91.7	0.5	0.4	16.5	17.4	22.6	131.7	55.2	186.9
1975	**0.0**	**0.0**	**0.0**	**96.6**	**0.6**	**0.3**	**17.0**	**17.9**	**19.4**	**133.8**	**46.9**	**180.7**
1976	0.0	0.0	0.0	99.4	0.9	0.9	17.4	19.3	19.6	138.3	47.3	185.6
1977	0.0	0.0	0.0	92.8	0.9	1.2	17.1	19.2	20.3	132.4	49.1	181.5
1978	0.1	0.0	0.1	97.5	1.1	0.7	15.6	17.3	22.4	137.4	54.9	192.3
1979	0.2	0.0	0.2	100.5	2.2	1.9	9.1	13.1	21.5	135.4	51.8	187.1
1980	*	**0.0**	*	**84.8**	**0.9**	*	**7.7**	**8.6**	**24.5**	**117.9**	**59.6**	**177.5**
1981	*	0.0	*	74.2	0.1	0.1	5.9	6.1	25.9	106.2	61.8	168.0
1982	0.1	0.0	0.1	82.4	1.0	0.1	5.8	6.9	26.4	115.8	63.5	179.3
1983	*	0.0	*	81.0	0.2	0.2	6.9	7.3	28.6	116.9	68.4	185.4
1984	*	0.0	*	78.8	0.3	0.2	5.8	6.3	28.2	113.3	65.5	178.8
1985	*	**0.0**	*	**78.3**	**0.4**	**0.2**	**8.8**	**9.4**	**28.0**	**115.7**	**65.6**	**181.2**
1986	*	0.0	*	69.6	0.1	0.1	7.0	7.2	28.5	105.3	65.3	170.6
1987	*	0.0	*	73.1	0.1	0.1	6.6	6.8	29.4	109.3	67.0	176.3
1988	*	0.0	*	75.3	0.2	0.1	8.3	8.6	31.1	115.0	70.3	185.3
1989	*	0.0	*	75.5	0.2	0.1	7.8	8.1	30.4	114.1	68.1	182.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 113. Commercial Energy Consumption Estimates, 1960–1989, Kansas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**40**	**0**	**40**	**41**	**115**	**87**	**608**	**179**	**47**	**1,036**	**1,727**	**4,296**		
1961	28	0	28	22	167	97	646	180	12	1,102	1,817	4,428		
1962	29	0	29	27	164	64	700	183	22	1,133	2,153	5,176		
1963	20	0	20	27	134	60	718	188	21	1,121	2,346	5,611		
1964	14	0	14	37	108	51	633	184	16	993	2,490	5,929		
1965	**11**	**0**	**11**	**38**	**109**	**367**	**704**	**204**	**19**	**1,403**	**2,597**	**6,200**		
1966	8	0	8	32	147	160	652	198	16	1,174	2,819	6,765		
1967	6	0	6	37	152	39	726	198	18	1,133	2,953	7,054		
1968	6	0	6	46	157	51	799	200	21	1,227	3,285	7,837		
1969	13	0	13	54	130	47	856	201	22	1,256	3,624	8,657		
1970	**7**	**0**	**7**	**53**	**115**	**33**	**851**	**215**	**34**	**1,249**	**3,967**	**9,614**		
1971	6	0	6	56	110	18	817	221	22	1,189	4,207	10,171		
1972	7	0	7	61	167	22	853	236	29	1,306	4,518	10,875		
1973	4	0	4	53	189	22	840	255	31	1,337	4,743	11,354		
1974	3	0	3	53	191	18	781	255	22	1,266	4,728	11,528		
1975	**0**	**0**	**0**	**52**	**209**	**17**	**805**	**268**	**36**	**1,335**	**5,614**	**13,542**		
1976	0	0	0	57	349	46	828	269	32	1,525	5,834	14,053		
1977	0	0	0	52	346	62	819	279	57	1,563	6,116	14,769		
1978	10	0	10	65	397	34	751	282	70	1,532	6,499	15,900		
1979	19	0	19	61	820	94	434	243	50	1,642	6,467	15,607		
1980	**3**	**0**	**3**	**59**	**360**	**10**	**368**	**279**	**0**	**1,016**	**6,806**	**16,550**		
1981	2	0	2	52	296	5	288	256	0	845	7,151	17,043		
1982	7	0	7	55	146	7	284	266	3	706	7,210	17,317		
1983	2	0	2	53	919	10	338	183	5	1,455	7,432	17,805		
1984	2	0	2	58	993	9	282	164	5	1,453	7,928	18,411		
1985	**1**	**0**	**1**	**57**	**698**	**15**	**429**	**177**	**0**	**1,319**	**8,174**	**19,169**		
1986	1	0	1	56	342	9	339	174	10	874	8,361	19,169		
1987	1	0	1	54	271	14	320	189	*	794	8,547	19,479		
1988	*	0	*	61	385	9	402	167	1	964	9,000	20,325		
1989	4	0	4	59	333	18	375	153	13	892	9,127	20,472		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**0.9**	**0.0**	**0.9**	**42.6**	**0.7**	**0.5**	**2.4**	**0.9**	**0.3**	**4.8**	**5.9**	**54.2**	**14.7**	**68.9**
1961	0.6	0.0	0.6	22.5	1.0	0.6	2.6	0.9	0.1	5.1	6.2	34.5	15.1	49.6
1962	0.6	0.0	0.6	28.3	1.0	0.4	2.8	1.0	0.1	5.2	7.3	41.5	17.7	59.2
1963	0.4	0.0	0.4	26.5	0.8	0.3	2.9	1.0	0.1	5.1	8.0	40.1	19.1	59.2
1964	0.3	0.0	0.3	37.2	0.6	0.3	2.5	1.0	0.1	4.5	8.5	50.5	20.2	70.8
1965	**0.2**	**0.0**	**0.2**	**38.3**	**0.6**	**2.1**	**2.8**	**1.1**	**0.1**	**6.7**	**8.9**	**54.1**	**21.2**	**75.3**
1966	0.2	0.0	0.2	32.1	0.9	0.9	2.6	1.0	0.1	5.5	9.6	47.4	23.1	70.5
1967	0.1	0.0	0.1	36.8	0.9	0.2	2.8	1.0	0.1	5.0	10.1	52.0	24.1	76.1
1968	0.1	0.0	0.1	45.7	0.9	0.3	3.0	1.0	0.1	5.4	11.2	62.5	26.7	89.2
1969	0.3	0.0	0.3	53.4	0.8	0.3	3.3	1.1	0.1	5.5	12.4	71.5	29.5	101.1
1970	**0.1**	**0.0**	**0.1**	**52.5**	**0.7**	**0.2**	**3.2**	**1.1**	**0.2**	**5.4**	**13.5**	**71.6**	**32.8**	**104.4**
1971	0.1	0.0	0.1	56.1	0.6	0.1	3.1	1.2	0.1	5.1	14.4	75.7	34.7	110.4
1972	0.2	0.0	0.2	61.2	1.0	0.1	3.2	1.2	0.2	5.7	15.4	82.5	37.1	119.6
1973	0.1	0.0	0.1	51.9	1.1	0.1	3.1	1.3	0.2	5.9	16.2	74.0	38.7	112.8
1974	0.1	0.0	0.1	52.5	1.1	0.1	2.9	1.3	0.1	5.6	16.1	74.3	39.3	113.6
1975	**0.0**	**0.0**	**0.0**	**50.8**	**1.2**	**0.1**	**3.0**	**1.4**	**0.2**	**5.9**	**19.2**	**75.8**	**46.2**	**122.1**
1976	0.0	0.0	0.0	56.2	2.0	0.3	3.1	1.4	0.2	7.0	19.9	83.1	47.9	131.0
1977	0.0	0.0	0.0	50.8	2.0	0.4	3.0	1.5	0.4	7.2	20.9	78.9	50.4	129.3
1978	0.2	0.0	0.2	63.3	2.3	0.2	2.8	1.5	0.4	7.2	22.2	92.9	54.3	147.1
1979	0.4	0.0	0.4	59.8	4.8	0.5	1.6	1.3	0.3	8.5	22.1	90.8	53.3	144.0
1980	**0.1**	**0.0**	**0.1**	**58.5**	**2.1**	**0.1**	**1.4**	**1.5**	**0.0**	**5.0**	**23.2**	**86.8**	**56.5**	**143.3**
1981	*	0.0	*	51.7	1.7	*	1.0	1.3	0.0	4.1	24.4	80.2	58.2	138.4
1982	0.2	0.0	0.2	55.8	0.8	*	1.0	1.4	*	3.3	24.6	83.9	59.1	143.0
1983	*	0.0	*	52.9	5.4	0.1	1.2	1.0	*	7.6	25.4	85.9	60.8	146.6
1984	*	0.0	*	57.2	5.8	0.1	1.0	0.9	*	7.7	27.1	92.0	62.8	154.8
1985	*****	**0.0**	*****	**56.5**	**4.1**	**0.1**	**1.5**	**0.9**	**0.0**	**6.6**	**27.9**	**91.1**	**65.4**	**156.5**
1986	*	0.0	*	54.9	2.0	0.1	1.2	0.9	0.1	4.3	28.5	87.7	65.4	153.1
1987	*	0.0	*	56.2	1.6	0.1	1.2	1.0	*	3.8	29.2	89.2	66.5	155.7
1988	*	0.0	*	60.2	2.2	*	1.5	0.9	*	4.6	30.7	95.6	69.3	164.9
1989	0.1	0.0	0.1	58.2	1.9	0.1	1.4	0.8	0.1	4.3	31.1	93.7	69.9	163.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 114. Industrial Energy Consumption Estimates, 1960–1989, Kansas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**175**	**0**	**175**	**121**	**2,198**	**1,405**	**306**	**1,321**	**230**	**4,557**	**1,924**	**6,489**	**18,430**	**0**	**2,932**	**7,293**
1961	192	0	192	113	2,718	1,416	101	1,239	224	4,139	1,172	6,368	17,377	0	3,099	7,553
1962	200	0	200	118	3,034	1,528	144	1,365	206	3,960	1,203	6,551	17,992	0	3,166	7,612
1963	214	0	214	108	2,859	1,326	117	1,592	206	3,789	1,136	6,722	17,748	0	3,524	8,428
1964	192	0	192	126	2,979	1,340	154	1,470	217	3,478	774	6,668	17,080	0	3,816	9,089
1965	**148**	**0**	**148**	**155**	**3,061**	**1,553**	**160**	**1,530**	**303**	**3,535**	**755**	**7,043**	**17,941**	**0**	**3,902**	**9,318**
1966	169	0	169	182	2,860	2,047	223	1,581	315	3,240	824	7,288	18,377	0	4,128	9,905
1967	109	0	109	135	2,349	2,029	350	1,769	243	3,138	1,137	7,252	18,268	0	4,230	10,106
1968	68	0	68	163	1,984	2,201	351	2,026	267	3,012	1,328	7,547	18,716	0	4,414	10,531
1969	74	0	74	174	2,046	1,888	370	2,498	203	2,781	1,251	7,930	18,966	0	4,529	10,818
1970	**103**	**0**	**103**	**184**	**2,188**	**2,515**	**157**	**1,985**	**207**	**2,777**	**701**	**7,250**	**17,781**	**0**	**4,548**	**11,022**
1971	83	0	83	203	2,554	2,855	101	1,923	230	2,797	471	7,112	18,042	0	4,661	11,269
1972	94	0	94	206	2,385	3,297	52	2,219	246	2,649	1,562	7,537	19,946	0	4,886	11,760
1973	133	0	133	206	2,628	3,806	38	2,496	321	2,753	1,640	8,168	21,851	0	5,254	12,579
1974	143	0	143	200	2,743	3,810	32	2,845	307	2,507	1,342	8,387	21,972	0	5,328	12,991
1975	**134**	**0**	**134**	**152**	**2,162**	**3,532**	**23**	**3,125**	**253**	**2,406**	**2,178**	**8,445**	**22,124**	**0**	**6,214**	**14,990**
1976	90	0	90	171	2,343	4,749	32	4,013	282	2,110	2,050	8,096	23,675	0	6,488	15,629
1977	169	0	169	175	2,597	4,720	53	4,229	408	2,248	2,437	8,511	25,202	0	6,862	16,571
1978	104	0	104	174	3,378	5,316	57	3,590	438	1,762	2,750	8,602	25,893	0	7,418	18,148
1979	218	0	218	250	3,164	7,132	375	6,801	458	1,686	2,574	8,867	31,058	0	7,778	18,771
1980	**331**	**0**	**331**	**191**	**3,019**	**3,476**	**477**	**5,844**	**408**	**1,198**	**1,004**	**8,640**	**24,065**	**0**	**7,845**	**19,076**
1981	354	0	354	175	1,869	3,538	225	5,280	391	1,351	675	6,979	20,307	0	7,484	17,836
1982	370	2	372	160	1,890	3,934	201	9,817	357	1,073	730	5,459	23,460	0	6,872	16,506
1983	286	0	286	134	1,450	3,428	142	9,486	373	842	1,601	5,999	23,321	0	6,780	16,243
1984	310	0	310	158	1,928	3,702	91	23,795	398	1,305	1,475	6,337	39,031	0	7,038	16,342
1985	**363**	**0**	**363**	**161**	**1,700**	**3,908**	**30**	**20,176**	**371**	**1,063**	**79**	**5,667**	**32,995**	**0**	**7,167**	**16,807**
1986	261	0	261	139	2,657	4,575	48	15,527	363	929	559	6,161	30,818	0	7,128	16,342
1987	252	0	252	158	2,614	4,297	33	14,643	410	976	342	6,603	29,918	0	7,266	16,560
1988	208	0	208	154	4,378	4,459	11	16,649	396	847	741	7,767	35,247	0	7,708	17,406
1989	183	0	183	144	3,109	3,924	23	16,754	406	837	389	7,842	33,284	0	7,797	17,490

Year	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu				
1960	**0.0**	**10.0**	**245.8**	**24.9**	**270.7**
1961	0.0	10.6	232.7	25.8	258.5
1962	0.0	10.8	241.9	26.0	267.8
1963	0.0	12.0	226.9	28.8	255.6
1964	0.0	13.0	241.0	31.0	272.0
1965	**0.0**	**13.3**	**274.8**	**31.8**	**306.6**
1966	0.0	14.1	305.1	33.8	338.9
1967	0.0	14.4	255.3	34.5	289.8
1968	0.0	15.1	284.3	35.9	320.2
1969	0.0	15.5	296.6	36.9	333.5
1970	**0.0**	**15.5**	**303.0**	**37.6**	**340.6**
1971	0.0	15.9	322.7	38.4	361.2
1972	0.0	16.7	338.0	40.1	378.1
1973	0.0	17.9	348.6	42.9	391.5
1974	0.0	18.2	342.4	44.3	386.7
1975	**0.0**	**21.2**	**297.8**	**51.1**	**348.9**
1976	0.0	22.1	323.6	53.3	377.0
1977	0.0	23.4	339.9	56.5	396.4
1978	0.0	25.3	345.8	61.9	407.7
1979	0.0	26.5	447.4	64.0	511.4
1980	**0.0**	**26.8**	**354.6**	**65.1**	**419.7**
1981	0.0	25.5	315.9	60.9	376.7
1982	0.0	23.4	310.1	56.3	366.4
1983	0.0	23.1	281.4	55.4	336.8
1984	0.0	24.0	364.6	55.8	420.4
1985	**0.0**	**24.5**	**342.8**	**57.3**	**400.1**
1986	0.0	24.3	315.7	55.8	371.4
1987	0.0	24.8	341.0	56.5	397.5
1988	0.0	26.3	356.2	59.4	415.5
1989	0.0	26.6	334.8	59.7	394.5

[1] Includes supplemental gaseous fuels.

[2] *Liquefied petroleum gases* (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.

[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (*except for small amounts* used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* *Btu value less than 0.05, and physical unit value less than 0.5.*

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 115. Transportation Energy Consumption Estimates, 1960–1989, Kansas

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	3	43	170	3,056	952	215	507	18,976	190	24,065	0	0		
1961	1	42	173	3,428	970	225	493	19,692	146	25,127	0	0		
1962	1	35	310	3,344	1,042	281	484	20,728	136	26,326	0	0		
1963	1	47	367	3,926	1,072	327	484	21,171	229	27,577	0	0		
1964	1	31	426	3,863	1,242	261	508	21,110	220	27,631	0	0		
1965	*	50	493	3,473	1,053	295	467	21,786	137	27,704	0	0		
1966	1	56	455	3,795	1,147	392	485	22,433	85	28,792	0	0		
1967	*	57	373	3,509	1,606	457	468	23,165	76	29,654	0	0		
1968	*	59	391	4,063	1,745	487	514	24,690	25	31,915	0	0		
1969	*	64	316	4,219	1,685	434	439	25,548	6	32,647	0	0		
1970	*	73	326	4,691	1,561	348	448	25,857	8	33,238	0	0		
1971	*	75	299	5,191	1,525	396	508	26,118	13	34,051	0	0		
1972	*	80	262	5,247	1,452	386	544	28,191	62	36,143	0	0		
1973	*	73	212	5,925	1,399	378	612	28,265	66	36,858	0	0		
1974	*	75	236	6,087	1,404	391	586	28,238	50	36,991	0	0		
1975	*	69	177	5,898	1,310	364	520	29,331	17	37,615	0	0		
1976	*	63	231	5,710	1,239	416	578	31,471	20	39,664	0	0		
1977	*	56	253	6,434	1,426	398	603	30,746	40	39,899	0	0		
1978	0	63	211	7,593	1,506	453	647	31,452	24	41,887	0	0		
1979	0	54	244	10,649	1,922	165	677	29,956	26	43,639	0	0		
1980	0	52	221	10,397	2,466	110	603	28,107	2	41,906	0	0		
1981	0	48	214	9,293	2,442	239	579	27,666	1	40,433	0	0		
1982	0	42	190	9,296	1,834	239	528	27,248	0	39,334	0	0		
1983	0	32	176	9,358	1,492	284	552	27,578	82	39,521	0	0		
1984	0	36	154	10,197	3,338	127	589	27,030	86	41,519	0	0		
1985	0	38	137	10,173	4,424	124	549	26,962	0	42,369	0	0		
1986	0	32	162	9,204	7,038	121	537	27,350	1	44,413	0	0		
1987	0	31	121	11,992	4,285	120	607	27,920	0	45,043	0	0		
1988	0	42	148	11,556	4,176	169	585	29,846	0	46,480	0	0		
1989	0	43	156	11,304	3,833	225	600	28,848	0	44,966	0	0		
							Trillion Btu					Net Energy[4]		Total[4]
1960	0.1	44.3	0.9	17.8	5.1	0.9	3.1	99.7	1.2	128.6	0.0	172.9	0.0	172.9
1961	*	44.0	0.9	20.0	5.2	0.9	3.0	103.4	0.9	134.3	0.0	178.3	0.0	178.3
1962	*	36.2	1.6	19.5	5.6	1.1	2.9	108.9	0.9	140.4	0.0	176.6	0.0	176.6
1963	*	46.6	1.9	22.9	5.7	1.3	2.9	111.2	1.4	147.4	0.0	194.0	0.0	194.0
1964	*	30.6	2.1	22.5	6.7	1.0	3.1	110.9	1.4	147.8	0.0	178.4	0.0	178.4
1965	*	49.5	2.5	20.2	5.7	1.2	2.8	114.4	0.9	147.7	0.0	197.2	0.0	197.2
1966	*	56.0	2.3	22.1	6.2	1.6	2.9	117.8	0.5	153.5	0.0	209.5	0.0	209.5
1967	*	56.6	1.9	20.4	8.8	1.8	2.8	121.7	0.5	157.9	0.0	214.5	0.0	214.5
1968	*	58.5	2.0	23.7	9.5	1.9	3.1	129.7	0.2	170.0	0.0	228.5	0.0	228.5
1969	*	62.9	1.6	24.6	9.2	1.7	2.7	134.2	*	174.0	0.0	236.9	0.0	236.9
1970	*	73.2	1.6	27.3	8.6	1.3	2.7	135.8	0.1	177.5	0.0	250.7	0.0	250.7
1971	*	74.5	1.5	30.2	8.4	1.5	3.1	137.2	0.1	182.0	0.0	256.5	0.0	256.5
1972	*	80.0	1.3	30.6	8.0	1.4	3.3	148.1	0.4	193.1	0.0	273.1	0.0	273.1
1973	*	71.8	1.1	34.5	7.7	1.4	3.7	148.5	0.4	197.3	0.0	269.1	0.0	269.1
1974	*	73.3	1.2	35.5	7.7	1.5	3.6	148.3	0.3	198.0	0.0	271.3	0.0	271.3
1975	*	68.0	0.9	34.4	7.2	1.4	3.2	154.1	0.1	201.1	0.0	269.1	0.0	269.1
1976	*	61.8	1.2	33.3	6.8	1.5	3.5	165.3	0.1	211.7	0.0	273.5	0.0	273.5
1977	*	55.3	1.3	37.5	7.9	1.5	3.7	161.5	0.2	213.5	0.0	268.8	0.0	268.8
1978	0.0	62.0	1.1	44.2	8.4	1.7	3.9	165.2	0.2	224.6	0.0	286.6	0.0	286.6
1979	0.0	52.6	1.2	62.0	10.7	0.6	4.1	157.4	0.2	236.2	0.0	288.9	0.0	288.9
1980	0.0	52.0	1.1	60.6	13.8	0.4	3.7	147.6	*	227.2	0.0	279.2	0.0	279.2
1981	0.0	47.3	1.1	54.1	13.6	0.9	3.5	145.3	*	218.6	0.0	265.9	0.0	265.9
1982	0.0	42.6	1.0	54.1	10.2	0.9	3.2	143.1	0.0	212.5	0.0	255.0	0.0	255.0
1983	0.0	32.2	0.9	54.5	8.2	1.0	3.4	144.9	0.5	213.4	0.0	245.6	0.0	245.6
1984	0.0	36.0	0.8	59.4	18.7	0.5	3.6	142.0	0.5	225.4	0.0	261.4	0.0	261.4
1985	0.0	38.1	0.7	59.3	24.8	0.4	3.3	141.6	0.0	230.2	0.0	268.3	0.0	268.3
1986	0.0	32.0	0.8	53.6	39.7	0.4	3.3	143.7	*	241.5	0.0	273.5	0.0	273.5
1987	0.0	32.3	0.6	69.9	24.1	0.4	3.7	146.7	0.0	245.3	0.0	277.7	0.0	277.7
1988	0.0	41.8	0.7	67.3	23.4	0.6	3.5	156.8	0.0	252.4	0.0	294.3	0.0	294.3
1989	0.0	43.0	0.8	65.8	21.5	0.8	3.6	151.5	0.0	244.1	0.0	287.1	0.0	287.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 116. Estimates of Energy Input at Electric Utilities, 1960–1989, Kansas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydroelectric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**435**	**0**	**435**	**82**	**241**	**110**	**0**	**351**	**0**	**20**	**0**	**0**	
1961	341	0	341	90	181	82	0	263	0	16	0	0	
1962	380	0	380	95	244	111	0	354	0	15	0	0	
1963	467	0	467	106	267	122	0	389	0	17	0	0	
1964	412	0	412	114	159	72	0	231	0	13	0	0	
1965	**478**	**0**	**478**	**113**	**156**	**71**	**0**	**226**	**0**	**13**	**0**	**0**	
1966	398	0	398	126	146	66	0	212	0	13	0	0	
1967	398	0	398	137	141	64	0	205	0	9	0	0	
1968	458	0	458	139	295	135	0	430	0	10	0	0	
1969	322	0	322	161	244	111	0	356	0	6	0	0	
1970	**344**	**0**	**344**	**168**	**385**	**175**	**0**	**560**	**0**	**7**	**0**	**0**	
1971	367	0	367	175	305	178	0	483	0	7	0	0	
1972	425	0	425	180	603	222	0	825	0	5	0	0	
1973	1,045	0	1,045	176	804	295	0	1,099	0	3	0	0	
1974	1,805	0	1,805	165	1,376	603	0	1,979	0	7	0	0	
1975	**2,983**	**0**	**2,983**	**128**	**4,134**	**1,539**	**4**	**5,676**	**0**	**5**	**0**	**0**	
1976	3,507	0	3,507	123	4,118	1,100	0	5,218	0	5	0	0	
1977	4,513	0	4,513	129	3,748	797	0	4,545	0	3	0	0	
1978	7,349	0	7,349	118	3,927	761	4	4,692	0	5	0	0	
1979	7,630	0	7,630	117	2,068	575	0	2,643	0	4	0	0	
1980	**10,034**	**0**	**10,034**	**101**	**492**	**382**	**0**	**875**	**0**	**8**	**0**	**0**	
1981	11,327	0	11,327	79	360	268	0	628	0	8	0	0	
1982	11,512	0	11,512	61	295	264	0	559	0	7	0	0	
1983	12,814	0	12,814	47	268	262	0	530	0	6	0	0	
1984	15,252	0	15,252	32	39	213	0	253	0	7	0	*	
1985	**14,351**	**0**	**14,351**	**21**	**20**	**195**	**0**	**215**	**3,856**	**9**	**0**	*	
1986	14,097	0	14,097	15	15	174	0	188	6,959	8	0	*	
1987	14,942	0	14,942	16	25	131	0	156	6,471	9	0	*	
1988	14,742	0	14,742	19	121	161	0	283	6,650	12	0	*	
1989	14,774	0	14,774	19	54	191	0	246	9,709	10	0	*	
					Trillion Btu								
1960	**10.3**	**0.0**	**10.3**	**85.1**	**1.5**	**0.6**	**0.0**	**2.2**	**0.0**	**0.2**	**0.0**	**0.0**	**97.8**
1961	8.2	0.0	8.2	93.0	1.1	0.5	0.0	1.6	0.0	0.2	0.0	0.0	103.0
1962	9.1	0.0	9.1	98.6	1.5	0.6	0.0	2.2	0.0	0.2	0.0	0.0	110.0
1963	11.2	0.0	11.2	105.3	1.7	0.7	0.0	2.4	0.0	0.2	0.0	0.0	119.1
1964	10.0	0.0	10.0	113.1	1.0	0.4	0.0	1.4	0.0	0.1	0.0	0.0	124.7
1965	**11.6**	**0.0**	**11.6**	**112.4**	**1.0**	**0.4**	**0.0**	**1.4**	**0.0**	**0.1**	**0.0**	**0.0**	**125.5**
1966	9.6	0.0	9.6	124.8	0.9	0.4	0.0	1.3	0.0	0.1	0.0	0.0	135.9
1967	9.6	0.0	9.6	135.2	0.9	0.4	0.0	1.3	0.0	0.1	0.0	0.0	146.2
1968	11.0	0.0	11.0	137.1	1.9	0.8	0.0	2.6	0.0	0.1	0.0	0.0	150.8
1969	7.7	0.0	7.7	159.0	1.5	0.6	0.0	2.2	0.0	0.1	0.0	0.0	168.9
1970	**8.3**	**0.0**	**8.3**	**167.5**	**2.4**	**1.0**	**0.0**	**3.4**	**0.0**	**0.1**	**0.0**	**0.0**	**179.4**
1971	8.9	0.0	8.9	174.5	1.9	1.0	0.0	3.0	0.0	0.1	0.0	0.0	186.4
1972	10.2	0.0	10.2	179.5	3.8	1.3	0.0	5.1	0.0	*	0.0	0.0	194.9
1973	21.7	0.0	21.7	175.4	5.1	1.7	0.0	6.8	0.0	*	0.0	0.0	203.9
1974	36.1	0.0	36.1	164.8	8.7	3.5	0.0	12.2	0.0	0.1	0.0	0.0	213.1
1975	**59.5**	**0.0**	**59.5**	**126.7**	**26.0**	**9.0**	*	**35.0**	**0.0**	*	**0.0**	**0.0**	**221.2**
1976	71.5	0.0	71.5	120.7	25.9	6.4	0.0	32.3	0.0	0.1	0.0	0.0	224.6
1977	85.9	0.0	85.9	126.5	23.6	4.6	0.0	28.2	0.0	*	0.0	0.0	240.6
1978	134.3	0.0	134.3	114.3	24.7	4.4	*	29.1	0.0	*	0.0	0.0	277.8
1979	142.2	0.0	142.2	112.4	13.0	3.4	0.0	16.3	0.0	*	0.0	0.0	271.0
1980	**184.3**	**0.0**	**184.3**	**97.0**	**3.1**	**2.2**	**0.0**	**5.3**	**0.0**	**0.1**	**0.0**	**0.0**	**286.7**
1981	205.3	0.0	205.3	76.1	2.3	1.6	0.0	3.8	0.0	0.1	0.0	0.0	285.3
1982	204.3	0.0	204.3	58.4	1.9	1.5	0.0	3.4	0.0	0.1	0.0	0.0	266.1
1983	225.0	0.0	225.0	45.0	1.7	1.5	0.0	3.2	0.0	0.1	0.0	0.0	273.2
1984	268.1	0.0	268.1	31.4	0.2	1.2	0.0	1.5	0.0	0.1	0.0	*	301.1
1985	**251.7**	**0.0**	**251.7**	**20.5**	**0.1**	**1.1**	**0.0**	**1.3**	**41.7**	**0.1**	**0.0**	*	**315.2**
1986	246.1	0.0	246.1	14.6	0.1	1.0	0.0	1.1	75.1	0.1	0.0	*	337.0
1987	261.9	0.0	261.9	15.9	0.2	0.8	0.0	0.9	69.7	0.1	0.0	*	348.5
1988	264.7	0.0	264.7	18.8	0.8	0.9	0.0	1.7	71.4	0.1	0.0	*	356.7
1989	262.3	0.0	262.3	18.6	0.3	1.1	0.0	1.5	104.1	0.1	0.0	*	386.5

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 117. Energy Consumption Estimates by Source, 1960–1989, Kentucky

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**12,006**	**149**	**1,482**	**652**	**4,850**	**497**	**1,585**	**4,152**	**544**	**21,535**	**337**	**2,500**	**38,132**	**0**	**2,633**	**0**	**0**	**38,952**	
1961	12,040	151	1,557	708	4,450	574	1,240	4,276	529	21,844	290	2,533	38,002	0	2,545	0	0	37,299	
1962	12,009	158	1,759	1,698	5,847	822	1,326	4,730	669	22,771	398	2,404	42,425	0	2,775	0	0	32,567	
1963	15,290	166	2,099	1,144	5,521	911	1,276	5,343	669	24,056	468	2,960	44,448	0	2,328	0	0	20,845	
1964	16,838	175	1,532	1,220	5,712	1,014	1,224	5,592	702	24,312	561	4,102	45,971	0	2,415	0	0	8,169	
1965	**17,584**	**172**	**2,112**	**1,052**	**5,567**	**1,284**	**2,375**	**5,869**	**755**	**25,780**	**600**	**4,334**	**49,728**	**0**	**2,464**	**0**	**0**	**1,224**	
1966	18,127	149	2,169	920	6,930	1,666	3,069	6,269	785	26,986	727	5,560	55,082	0	2,565	0	0	-998	
1967	18,650	192	2,376	602	6,766	2,349	2,904	6,783	729	28,528	926	5,543	57,507	0	3,697	0	0	-9,122	
1968	19,119	197	2,778	328	7,186	2,768	3,779	8,051	801	30,405	859	5,949	62,903	0	2,927	0	0	-1,120	
1969	20,517	235	3,112	328	7,841	3,035	3,497	9,366	827	31,809	1,066	6,442	67,321	0	2,678	0	0	-8,724	
1970	**23,558**	**248**	**3,090**	**330**	**8,211**	**3,089**	**3,094**	**9,564**	**842**	**33,581**	**1,063**	**7,660**	**70,524**	**0**	**3,174**	**0**	**0**	**-26,029**	
1971	24,833	244	3,115	179	7,785	2,674	2,781	9,864	911	35,715	659	7,765	71,447	0	3,536	0	0	-30,316	
1972	26,469	255	3,018	161	9,569	2,207	2,257	11,412	975	37,567	1,192	8,452	76,810	0	3,770	0	0	-27,297	
1973	25,978	245	3,626	144	10,740	2,367	2,152	12,277	1,161	39,362	1,110	9,453	82,391	0	3,823	0	0	-20,141	
1974	27,236	228	2,576	148	10,416	2,035	1,878	11,929	1,112	39,541	2,060	9,260	80,954	0	3,398	0	0	-20,390	
1975	**25,556**	**208**	**2,622**	**129**	**10,924**	**2,150**	**1,577**	**10,977**	**1,048**	**40,816**	**2,169**	**9,058**	**81,470**	**0**	**3,463**	**0**	**0**	**8,996**	
1976	27,898	246	2,671	128	13,649	2,159	1,529	11,330	1,164	42,834	2,457	9,835	87,755	0	3,159	0	0	6,707	
1977	27,597	220	2,799	110	17,049	2,224	1,416	11,616	1,056	43,935	2,831	11,249	94,285	0	3,313	0	0	11,980	
1978	27,652	213	2,958	106	19,099	2,558	1,378	12,254	1,134	44,928	2,436	11,647	98,500	0	3,182	0	0	1,132	
1979	26,737	219	2,956	136	21,290	2,569	3,545	10,761	1,187	42,570	1,365	13,646	100,026	0	3,940	0	0	6,538	
1980	**27,728**	**202**	**2,021**	**112**	**22,906**	**2,897**	**2,912**	**10,223**	**1,057**	**39,829**	**1,012**	**13,728**	**96,697**	**0**	**2,940**	**0**	**0**	**-2,827**	
1981	28,811	199	1,933	92	18,192	3,230	1,164	7,924	1,014	40,181	1,139	8,051	82,919	0	2,598	0	0	-14,610	
1982	27,279	189	2,896	89	17,482	3,702	1,140	7,112	924	40,066	1,154	6,963	81,530	0	3,343	0	0	-14,443	
1983	27,461	174	2,101	95	20,433	4,009	1,549	7,156	968	40,272	1,175	7,057	84,815	0	3,244	0	0	-13,810	
1984	28,933	189	2,170	73	22,171	3,261	1,378	7,161	1,032	40,786	1,084	8,112	87,228	0	3,514	0	0	-4,752	
1985	**31,066**	**173**	**1,872**	**66**	**21,768**	**3,434**	**2,292**	**7,341**	**962**	**39,915**	**748**	**7,583**	**85,981**	**0**	**2,941**	**0**	**0**	**-21,306**	
1986	32,185	167	2,285	85	20,417	3,549	1,098	6,558	940	42,519	891	7,404	85,747	0	2,734	0	0	-37,863	
1987	32,086	172	2,701	62	20,534	4,827	571	7,673	1,063	42,886	890	8,978	90,185	0	2,948	0	0	-35,329	
1988	35,264	184	2,616	62	24,693	4,985	878	8,054	1,025	44,191	612	9,424	96,539	0	2,423	0	0	-46,552	
1989	32,888	189	2,764	53	28,135	5,071	1,021	7,730	1,052	43,408	603	9,246	99,083	0	4,404	0	0	-20,251	
									Trillion Btu										
1960	**286.6**	**153.8**	**9.8**	**3.3**	**28.2**	**2.7**	**9.0**	**16.7**	**3.3**	**113.1**	**2.1**	**14.9**	**203.1**	**0.0**	**28.3**	**0.0**	**0.0**	**132.9**	**804.8**
1961	288.1	156.3	10.3	3.6	25.9	3.1	7.0	17.2	3.2	114.7	1.8	15.1	202.0	0.0	27.1	0.0	0.0	127.3	800.8
1962	287.4	163.8	11.7	8.6	34.1	4.5	7.5	19.0	4.1	119.6	2.5	14.3	225.8	0.0	29.3	0.0	0.0	111.1	817.4
1963	368.0	173.5	13.9	5.8	32.2	5.0	7.2	21.4	4.1	126.4	2.9	17.3	236.2	0.0	24.4	0.0	0.0	71.1	873.2
1964	401.7	179.7	10.2	6.2	33.3	5.6	6.9	22.4	4.3	127.7	3.5	23.4	243.5	0.0	25.3	0.0	0.0	27.9	878.0
1965	**415.5**	**176.7**	**14.0**	**5.3**	**32.4**	**7.2**	**13.5**	**23.5**	**4.6**	**135.4**	**3.8**	**24.8**	**264.5**	**0.0**	**25.8**	**0.0**	**0.0**	**4.2**	**886.6**
1966	426.3	152.2	14.4	4.6	40.4	9.3	17.4	25.1	4.8	141.8	4.6	31.5	293.9	0.0	26.7	0.0	0.0	-3.4	895.7
1967	434.2	197.1	15.8	3.0	39.4	13.2	16.5	26.0	4.4	149.9	5.8	31.4	305.4	0.0	38.6	0.0	0.0	-31.1	944.1
1968	444.1	201.1	18.4	1.7	41.9	15.5	21.4	30.7	4.9	159.7	5.4	33.7	333.3	0.0	30.4	0.0	0.0	-3.8	1,005.2
1969	470.8	240.0	20.6	1.7	45.7	17.1	19.8	35.6	5.0	167.1	6.7	36.5	355.8	0.0	28.0	0.0	0.0	-29.8	1,064.9
1970	**527.0**	**252.3**	**20.5**	**1.7**	**47.8**	**17.4**	**17.5**	**36.1**	**5.1**	**176.4**	**6.7**	**43.8**	**373.1**	**0.0**	**33.3**	**0.0**	**0.0**	**-88.8**	**1,096.9**
1971	550.4	248.5	20.7	0.9	45.3	15.0	15.8	37.2	5.5	187.6	4.1	44.4	376.6	0.0	37.1	0.0	0.0	-103.4	1,109.1
1972	583.8	259.5	20.0	0.8	55.7	12.4	12.8	42.9	5.9	197.3	7.5	48.4	403.8	0.0	39.1	0.0	0.0	-93.1	1,193.2
1973	573.4	250.1	24.1	0.7	62.6	13.3	12.2	46.0	7.0	206.8	7.0	54.3	434.0	0.0	39.7	0.0	0.0	-68.7	1,228.5
1974	593.8	231.4	17.1	0.7	60.7	11.4	10.6	44.5	6.7	207.7	13.0	53.0	425.5	0.0	35.5	0.0	0.0	-69.6	1,216.7
1975	**558.3**	**209.2**	**17.4**	**0.6**	**63.6**	**12.1**	**8.9**	**40.8**	**6.4**	**214.4**	**13.6**	**52.1**	**430.0**	**0.0**	**36.0**	**0.0**	**0.0**	**30.7**	**1,264.2**
1976	617.5	248.7	17.7	0.6	79.5	12.2	8.7	42.0	7.1	225.0	15.4	56.3	464.6	0.0	32.8	0.0	0.0	22.9	1,386.3
1977	613.5	221.9	18.6	0.6	99.3	12.5	8.0	42.7	6.4	230.8	17.8	64.6	501.3	0.0	34.6	0.0	0.0	40.9	1,412.1
1978	617.2	215.0	19.6	0.5	111.3	14.4	7.8	45.0	6.9	236.0	15.3	66.7	523.5	0.0	33.0	0.0	0.0	3.9	1,392.6
1979	609.3	220.9	19.6	0.7	124.0	14.5	20.1	39.6	7.2	223.6	8.6	77.6	535.5	0.0	40.8	0.0	0.0	22.3	1,428.7
1980	**641.7**	**204.1**	**13.4**	**0.6**	**133.4**	**16.3**	**16.5**	**37.6**	**6.4**	**209.2**	**6.4**	**77.5**	**517.3**	**0.0**	**30.5**	**0.0**	**0.0**	**-9.6**	**1,384.0**
1981	663.9	202.2	12.8	0.5	106.0	18.2	6.6	28.9	6.1	211.1	7.2	47.0	444.3	0.0	27.2	0.0	0.0	-49.8	1,287.8
1982	627.0	191.2	19.2	0.4	101.8	20.9	6.5	25.7	5.6	210.5	7.3	40.7	438.5	0.0	34.9	0.0	0.0	-49.3	1,242.4
1983	637.8	177.8	13.9	0.5	119.0	22.6	8.8	25.9	5.9	211.5	7.4	41.2	456.7	0.0	34.1	0.0	0.0	-47.1	1,259.4
1984	671.0	193.4	14.4	0.4	129.1	18.4	7.8	25.8	6.3	214.2	6.8	46.8	470.0	0.0	36.3	0.0	0.0	-16.2	1,354.4
1985	**716.9**	**177.7**	**12.4**	**0.3**	**126.8**	**19.3**	**13.0**	**26.5**	**5.8**	**209.7**	**4.7**	**44.2**	**462.8**	**0.0**	**30.4**	**0.0**	**0.0**	**-72.7**	**1,315.1**
1986	749.9	173.5	15.2	0.4	118.9	20.0	6.2	23.9	5.7	223.4	5.6	43.6	462.9	0.0	28.1	0.0	0.0	-129.2	1,285.2
1987	746.7	178.3	17.9	0.3	119.6	27.3	3.2	28.1	6.4	225.3	5.6	52.6	486.3	0.0	30.2	0.0	0.0	-120.5	1,321.0
1988	821.8	190.9	17.4	0.3	143.8	28.2	5.0	29.4	6.2	232.1	3.8	55.3	521.6	0.0	24.8	0.0	0.0	-158.8	1,400.2
1989	765.0	195.9	18.3	0.3	163.9	28.7	5.8	28.5	6.4	228.0	3.8	54.1	537.7	0.0	45.5	0.0	0.0	-69.1	1,475.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 118. Residential Energy Consumption Estimates, 1960–1989, Kentucky

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**237**	**29**	**266**	**63**	**242**	**897**	**1,396**	**2,534**	**2,760**	**6,866**		
1961	282	26	308	59	257	708	1,309	2,273	2,878	7,014		
1962	227	23	250	62	276	716	1,434	2,426	3,015	7,248		
1963	260	22	282	65	216	780	1,699	2,695	3,166	7,570		
1964	198	21	219	66	178	782	1,433	2,393	3,485	8,300		
1965	**157**	**18**	**176**	**64**	**278**	**1,653**	**1,594**	**3,526**	**3,763**	**8,984**		
1966	193	15	208	54	324	1,938	1,856	4,117	4,184	10,039		
1967	163	14	177	70	345	1,843	2,125	4,313	4,473	10,686		
1968	174	13	188	76	354	2,418	2,645	5,416	5,520	13,170		
1969	184	12	195	84	354	2,280	3,230	5,864	6,318	15,091		
1970	**179**	**11**	**190**	**86**	**403**	**2,077**	**3,356**	**5,836**	**6,987**	**16,932**		
1971	126	11	136	84	356	1,884	3,432	5,672	7,547	18,246		
1972	107	8	115	86	338	1,387	3,719	5,444	7,079	17,040		
1973	117	8	125	80	389	1,314	4,085	5,787	7,982	19,110		
1974	126	7	133	76	394	1,279	3,767	5,440	8,109	19,771		
1975	**99**	**6**	**105**	**79**	**442**	**1,073**	**3,740**	**5,255**	**9,586**	**23,122**		
1976	102	6	107	96	669	836	3,890	5,396	10,034	24,171		
1977	175	5	180	95	949	797	3,918	5,663	11,479	27,718		
1978	185	4	190	84	873	733	3,921	5,527	12,027	29,424		
1979	259	3	262	77	830	2,075	2,316	5,221	11,974	28,897		
1980	**98**	**4**	**102**	**74**	**820**	**1,751**	**2,063**	**4,633**	**13,075**	**31,794**		
1981	172	5	178	71	572	474	1,871	2,917	13,700	32,651		
1982	143	1	144	68	647	527	1,522	2,696	13,697	32,897		
1983	127	3	130	63	679	911	1,810	3,400	14,461	34,645		
1984	125	5	130	67	733	852	2,134	3,719	14,675	34,077		
1985	**87**	**0**	**87**	**60**	**824**	**1,268**	**2,623**	**4,715**	**14,539**	**34,095**		
1986	102	0	102	59	682	678	2,618	3,978	15,307	35,095		
1987	100	2	102	59	760	392	3,326	4,478	16,080	36,647		
1988	127	0	127	64	887	579	3,408	4,875	16,811	37,964		
1989	83	0	83	65	745	631	3,252	4,628	16,922	37,958		
						Trillion Btu						
1960	**5.8**	**0.7**	**6.5**	**65.2**	**1.4**	**5.1**	**5.6**	**12.1**	**9.4**	**93.2**	**23.4**	**116.7**
1961	6.9	0.7	7.5	61.0	1.5	4.0	5.2	10.8	9.8	89.1	23.9	113.0
1962	5.5	0.6	6.1	64.1	1.6	4.1	5.8	11.4	10.3	91.9	24.7	116.7
1963	6.3	0.5	6.9	67.6	1.3	4.4	6.8	12.5	10.8	97.8	25.8	123.6
1964	4.8	0.5	5.3	68.0	1.0	4.4	5.7	11.2	11.9	96.5	28.3	124.8
1965	**3.8**	**0.4**	**4.3**	**65.9**	**1.6**	**9.4**	**6.4**	**17.4**	**12.8**	**100.4**	**30.7**	**131.0**
1966	4.7	0.4	5.0	55.6	1.9	11.0	7.4	20.3	14.3	95.2	34.3	129.5
1967	3.9	0.3	4.2	71.2	2.0	10.4	8.2	20.6	15.3	111.3	36.5	147.8
1968	4.2	0.3	4.5	77.5	2.1	13.7	10.1	25.9	18.8	126.7	44.9	171.6
1969	4.4	0.3	4.7	85.7	2.1	12.9	12.3	27.3	21.6	139.2	51.5	190.6
1970	**4.2**	**0.3**	**4.4**	**87.9**	**2.3**	**11.8**	**12.7**	**26.8**	**23.8**	**143.0**	**57.8**	**200.8**
1971	2.9	0.2	3.2	85.6	2.1	10.7	12.9	25.7	25.8	140.3	62.3	202.5
1972	2.5	0.2	2.7	87.3	2.0	7.9	14.0	23.8	24.2	138.0	58.1	196.1
1973	2.7	0.2	2.9	81.7	2.3	7.5	15.3	25.0	27.2	136.9	65.2	202.1
1974	2.9	0.2	3.0	77.3	2.3	7.3	14.0	23.6	27.7	131.6	67.5	199.0
1975	**2.3**	**0.1**	**2.4**	**79.8**	**2.6**	**6.1**	**13.9**	**22.6**	**32.7**	**137.5**	**78.9**	**218.4**
1976	2.4	0.1	2.5	97.4	3.9	4.7	14.4	23.1	34.2	157.3	82.5	239.7
1977	4.1	0.1	4.2	95.7	5.5	4.5	14.4	24.5	39.2	163.5	94.6	258.1
1978	4.3	0.1	4.4	85.3	5.1	4.2	14.4	23.6	41.0	154.4	100.4	254.8
1979	6.2	0.1	6.3	78.2	4.8	11.8	8.5	25.1	40.9	150.5	98.6	249.1
1980	**2.3**	**0.1**	**2.4**	**74.9**	**4.8**	**9.9**	**7.6**	**22.3**	**44.6**	**144.2**	**108.5**	**252.7**
1981	4.1	0.1	4.3	71.5	3.3	2.7	6.8	12.8	46.7	135.3	111.4	246.8
1982	3.4	*	3.5	68.5	3.8	3.0	5.5	12.3	46.7	131.0	112.2	243.2
1983	3.0	0.1	3.1	64.3	4.0	5.2	6.5	15.7	49.3	132.4	118.2	250.6
1984	3.0	0.1	3.2	68.4	4.3	4.8	7.7	16.8	50.1	138.4	116.3	254.7
1985	**2.1**	**0.0**	**2.1**	**61.9**	**4.8**	**7.2**	**9.5**	**21.4**	**49.6**	**135.1**	**116.3**	**251.4**
1986	2.5	0.0	2.5	61.6	4.0	3.8	9.5	17.3	52.2	133.7	119.7	253.5
1987	2.5	*	2.5	61.3	4.4	2.2	12.2	18.8	54.9	137.5	125.0	262.5
1988	3.1	0.0	3.1	66.4	5.2	3.3	12.4	20.9	57.4	147.7	129.5	277.3
1989	1.9	0.0	1.9	67.6	4.3	3.6	12.0	19.9	57.7	147.2	129.5	276.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 119. Commercial Energy Consumption Estimates, 1960–1989, Kentucky

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**440**	**19**	**460**	**18**	**501**	**176**	**246**	**336**	**4**	**1,263**	**1,590**	**3,955**		
1961	524	18	541	23	532	139	231	281	1	1,184	1,651	4,025		
1962	422	15	437	24	572	141	253	381	4	1,351	1,759	4,229		
1963	483	14	498	25	447	153	300	308	5	1,212	1,850	4,424		
1964	368	14	382	21	369	154	253	257	7	1,040	1,998	4,759		
1965	**292**	**12**	**305**	**21**	**576**	**325**	**281**	**268**	**8**	**1,459**	**2,166**	**5,171**		
1966	358	10	368	19	671	381	327	272	10	1,661	2,348	5,634		
1967	302	9	312	32	715	362	375	273	10	1,735	2,525	6,032		
1968	324	9	333	36	733	475	467	286	10	1,971	2,829	6,750		
1969	341	8	349	42	734	448	570	300	13	2,065	3,117	7,447		
1970	**332**	**7**	**339**	**42**	**835**	**408**	**592**	**263**	**11**	**2,110**	**3,465**	**8,396**		
1971	233	7	241	42	737	371	606	236	5	1,955	3,701	8,948		
1972	198	5	204	43	701	273	656	224	3	1,857	4,224	10,167		
1973	217	5	222	46	805	258	721	241	4	2,029	4,638	11,104		
1974	234	5	239	42	816	252	665	249	13	1,995	5,301	12,925		
1975	**183**	**4**	**187**	**38**	**915**	**211**	**660**	**275**	**7**	**2,069**	**6,489**	**15,652**		
1976	189	4	192	57	1,387	164	687	247	15	2,501	6,887	16,589		
1977	325	4	328	50	1,967	157	691	261	19	3,095	7,533	18,190		
1978	344	3	347	47	1,810	144	692	280	12	2,938	7,702	18,843		
1979	481	2	483	41	1,721	408	409	257	12	2,806	7,954	19,196		
1980	**182**	**3**	**185**	**39**	**2,632**	**622**	**364**	**250**	**19**	**3,887**	**8,432**	**20,504**		
1981	320	4	323	36	602	125	330	258	18	1,332	8,755	20,865		
1982	266	*	267	35	491	83	269	264	4	1,110	9,017	21,657		
1983	235	2	237	34	1,584	191	319	319	45	2,458	9,377	22,466		
1984	231	4	235	36	1,711	172	377	295	41	2,596	9,288	21,568		
1985	**162**	**0**	**162**	**34**	**1,521**	**139**	**463**	**377**	**1**	**2,502**	**9,465**	**22,196**		
1986	190	0	190	33	1,024	151	462	404	38	2,079	9,913	22,728		
1987	185	1	186	33	533	59	587	418	1	1,598	10,248	23,355		
1988	235	0	235	36	976	129	601	404	41	2,152	10,821	24,437		
1989	154	0	154	36	649	177	574	393	*	1,793	11,392	25,554		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**10.7**	**0.5**	**11.2**	**18.9**	**2.9**	**1.0**	**1.0**	**1.8**	*	**6.7**	**5.4**	**42.2**	**13.5**	**55.7**
1961	12.8	0.4	13.2	23.8	3.1	0.8	0.9	1.5	*	6.3	5.6	48.9	13.7	62.6
1962	10.3	0.4	10.7	25.2	3.3	0.8	1.0	2.0	*	7.2	6.0	49.1	14.4	63.5
1963	11.8	0.3	12.1	26.5	2.6	0.9	1.2	1.6	*	6.3	6.3	51.3	15.1	66.4
1964	9.0	0.3	9.3	21.5	2.2	0.9	1.0	1.4	*	5.4	6.8	43.1	16.2	59.3
1965	**7.1**	**0.3**	**7.4**	**21.9**	**3.4**	**1.8**	**1.1**	**1.4**	*	**7.8**	**7.4**	**44.5**	**17.6**	**62.2**
1966	8.7	0.2	8.9	19.5	3.9	2.2	1.3	1.4	0.1	8.9	8.0	45.3	19.2	64.5
1967	7.3	0.2	7.5	33.1	4.2	2.1	1.4	1.4	0.1	9.2	8.6	58.4	20.6	78.9
1968	7.8	0.2	8.0	36.9	4.3	2.7	1.8	1.5	0.1	10.3	9.7	64.9	23.0	87.9
1969	8.2	0.2	8.3	42.9	4.3	2.5	2.2	1.6	0.1	10.6	10.6	72.5	25.4	97.9
1970	**7.8**	**0.2**	**8.0**	**43.2**	**4.9**	**2.3**	**2.2**	**1.4**	**0.1**	**10.9**	**11.8**	**73.8**	**28.6**	**102.5**
1971	5.4	0.2	5.6	43.1	4.3	2.1	2.3	1.2	*	10.0	12.6	71.3	30.5	101.8
1972	4.6	0.1	4.7	43.6	4.1	1.5	2.5	1.2	*	9.3	14.4	72.0	34.7	106.7
1973	5.0	0.1	5.2	46.7	4.7	1.5	2.7	1.3	*	10.1	15.8	77.8	37.9	115.7
1974	5.3	0.1	5.5	42.9	4.8	1.4	2.5	1.3	0.1	10.1	18.1	76.5	44.1	120.6
1975	**4.3**	**0.1**	**4.3**	**38.8**	**5.3**	**1.2**	**2.5**	**1.4**	*	**10.5**	**22.1**	**75.8**	**53.4**	**129.2**
1976	4.5	0.1	4.6	57.8	8.1	0.9	2.5	1.3	0.1	13.0	23.5	98.8	56.6	155.4
1977	7.6	0.1	7.7	50.7	11.5	0.9	2.5	1.4	0.1	16.4	25.7	100.5	62.1	162.6
1978	8.1	0.1	8.1	47.1	10.5	0.8	2.5	1.5	0.1	15.4	26.3	97.0	64.3	161.3
1979	11.5	0.1	11.6	40.9	10.0	2.3	1.5	1.4	0.1	15.3	27.1	94.9	65.5	160.4
1980	**4.3**	**0.1**	**4.4**	**39.7**	**15.3**	**3.5**	**1.3**	**1.3**	**0.1**	**21.6**	**28.8**	**94.5**	**70.0**	**164.5**
1981	7.7	0.1	7.7	36.9	3.5	0.7	1.2	1.4	0.1	6.9	29.9	81.4	71.2	152.6
1982	6.4	*	6.4	35.8	2.9	0.5	1.0	1.4	*	5.7	30.8	78.6	73.9	152.5
1983	5.6	*	5.7	34.8	9.2	1.1	1.2	1.7	0.3	13.4	32.0	85.9	76.7	162.6
1984	5.6	0.1	5.7	36.9	10.0	1.0	1.4	1.6	0.3	14.1	31.7	88.4	73.6	162.0
1985	**3.9**	**0.0**	**3.9**	**34.8**	**8.9**	**0.8**	**1.7**	**2.0**	*	**13.3**	**32.3**	**84.3**	**75.7**	**160.0**
1986	4.7	0.0	4.7	33.9	6.0	0.9	1.7	2.1	0.2	10.9	33.8	83.3	77.5	160.8
1987	4.6	*	4.6	34.5	3.1	0.3	2.1	2.2	*	7.8	35.0	81.9	79.7	161.6
1988	5.7	0.0	5.7	37.0	5.7	0.7	2.2	2.1	0.3	11.0	36.9	90.7	83.4	174.1
1989	3.6	0.0	3.6	37.6	3.8	1.0	2.1	2.1	*	9.0	38.9	89.0	87.2	176.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 120. Industrial Energy Consumption Estimates, 1960–1989, Kentucky

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**3,405**	**349**	**3,754**	**46**	**1,482**	**1,558**	**512**	**2,476**	**138**	**485**	**289**	**2,500**	**9,439**	**0**	**23,818**	**59,243**
1961	3,352	311	3,663	47	1,557	1,630	393	2,702	135	453	238	2,533	9,642	0	23,574	57,457
1962	3,404	289	3,693	50	1,759	1,836	469	3,006	277	712	341	2,404	10,805	0	22,620	54,380
1963	4,386	320	4,706	51	2,099	1,519	343	3,299	277	415	386	2,960	11,297	0	23,125	55,302
1964	4,422	366	4,788	61	1,532	1,282	288	3,856	290	454	486	4,102	12,291	0	22,188	52,842
1965	**4,558**	**320**	**4,879**	**58**	**2,112**	**1,987**	**397**	**3,957**	**346**	**430**	**538**	**4,334**	**14,099**	**0**	**20,893**	**49,884**
1966	4,697	273	4,969	46	2,169	2,381	750	4,035	360	344	657	5,560	16,255	0	20,283	48,669
1967	4,531	271	4,802	61	2,376	2,553	699	4,215	384	355	728	5,543	16,855	0	19,735	47,146
1968	4,325	237	4,562	54	2,778	2,053	885	4,848	422	345	675	5,949	17,956	0	21,386	51,027
1969	4,245	196	4,441	68	3,112	2,199	770	5,481	465	272	877	6,442	19,616	0	21,007	50,179
1970	**4,162**	**163**	**4,325**	**75**	**3,090**	**2,078**	**608**	**5,562**	**474**	**209**	**786**	**7,660**	**20,466**	**0**	**20,586**	**49,887**
1971	3,842	126	3,968	74	3,115	2,286	526	5,762	517	260	356	7,765	20,588	0	22,062	53,338
1972	3,756	80	3,836	80	3,018	2,415	598	6,972	554	210	811	8,452	23,029	0	26,662	64,177
1973	3,220	75	3,295	77	3,626	2,719	579	7,399	623	224	959	9,453	25,582	0	27,594	66,061
1974	3,576	82	3,659	75	2,576	2,973	347	7,424	597	201	1,850	9,260	25,229	0	26,606	64,872
1975	**2,794**	**104**	**2,898**	**66**	**2,622**	**3,346**	**293**	**6,511**	**518**	**195**	**2,059**	**9,058**	**24,602**	**0**	**31,006**	**74,790**
1976	2,388	115	2,502	72	2,671	4,174	529	6,682	576	159	2,314	9,835	26,938	0	35,242	84,893
1977	2,267	95	2,362	55	2,799	6,302	462	6,928	538	153	2,659	11,249	31,092	0	34,347	82,938
1978	2,561	82	2,643	58	2,958	6,412	500	7,550	578	114	2,250	11,647	32,010	0	29,528	72,240
1979	2,753	51	2,804	74	2,956	5,813	1,062	8,009	605	96	1,153	13,646	33,340	0	30,500	73,607
1980	**2,967**	**91**	**3,058**	**66**	**2,021**	**6,433**	**539**	**7,784**	**539**	**89**	**857**	**13,728**	**31,989**	**0**	**28,280**	**68,767**
1981	2,354	46	2,400	66	1,933	5,347	565	5,638	517	72	871	8,051	22,994	0	27,364	65,216
1982	2,366	47	2,413	65	2,896	4,918	530	5,045	471	61	1,140	6,963	22,025	0	24,377	58,549
1983	2,819	39	2,858	61	2,101	4,185	447	4,698	493	50	1,119	7,057	20,150	0	23,323	55,877
1984	3,516	38	3,554	67	2,170	4,520	354	4,292	526	640	1,031	8,112	21,643	0	28,594	66,400
1985	**3,709**	**23**	**3,732**	**63**	**1,872**	**5,622**	**885**	**4,127**	**490**	**842**	**747**	**7,583**	**22,170**	**0**	**26,564**	**62,292**
1986	3,325	33	3,358	55	2,285	4,987	269	3,382	479	822	852	7,404	20,481	0	24,476	56,117
1987	3,200	29	3,229	58	2,701	5,456	120	3,684	542	843	889	8,978	23,214	0	24,459	55,742
1988	3,062	22	3,084	63	2,616	5,221	170	3,956	523	785	570	9,424	23,265	0	26,446	59,724
1989	3,508	34	3,542	66	2,764	4,787	213	3,816	536	839	602	9,246	22,804	0	30,173	67,680

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu																	
1960	**87.3**	**8.6**	**95.9**	**47.7**	**9.8**	**9.1**	**2.9**	**9.9**	**0.8**	**2.5**	**1.8**	**14.9**	**51.8**	**0.0**	**81.3**	**276.7**	**202.1**	**478.9**
1961	86.0	7.7	93.8	48.8	10.3	9.5	2.2	10.8	0.8	2.4	1.5	15.1	52.7	0.0	80.4	275.7	196.0	471.7
1962	87.1	7.1	94.3	51.6	11.7	10.7	2.7	12.1	1.7	3.7	2.1	14.3	58.9	0.0	77.2	282.0	185.5	467.5
1963	112.2	7.7	119.9	53.4	13.9	8.8	1.9	13.2	1.7	2.2	2.4	17.3	61.5	0.0	78.9	313.7	188.7	502.4
1964	112.9	8.8	121.7	63.0	10.2	7.5	1.6	15.5	1.8	2.4	3.1	23.4	65.4	0.0	75.7	325.8	180.3	506.1
1965	**116.1**	**7.8**	**123.9**	**60.0**	**14.0**	**11.6**	**2.3**	**15.9**	**2.1**	**2.3**	**3.4**	**24.8**	**76.2**	**0.0**	**71.3**	**331.5**	**170.2**	**501.7**
1966	118.7	6.6	125.3	47.4	14.4	13.9	4.3	16.2	2.2	1.8	4.1	31.5	88.4	0.0	69.2	330.3	166.1	496.3
1967	114.6	6.4	121.0	62.7	15.8	14.9	4.0	16.2	2.3	1.9	4.6	31.4	91.0	0.0	67.3	342.0	160.9	502.9
1968	109.4	5.5	114.9	55.1	18.4	12.0	5.0	18.5	2.6	1.8	4.2	33.7	96.2	0.0	73.0	339.2	174.1	513.3
1969	106.7	4.5	111.3	69.4	20.6	12.8	4.4	20.9	2.8	1.4	5.5	36.5	105.0	0.0	71.7	357.3	171.2	528.5
1970	**102.1**	**3.8**	**105.9**	**76.1**	**20.5**	**12.1**	**3.4**	**21.0**	**2.9**	**1.1**	**4.9**	**43.8**	**109.8**	**0.0**	**70.2**	**362.0**	**170.2**	**532.3**
1971	94.4	3.0	97.4	74.9	20.7	13.3	3.0	21.7	3.1	1.4	2.2	44.4	109.8	0.0	75.3	357.4	182.0	539.4
1972	91.8	1.9	93.7	80.8	20.0	14.1	3.4	26.2	3.4	1.1	5.1	48.4	121.6	0.0	91.0	387.1	219.0	606.1
1973	78.1	1.7	79.8	78.1	24.1	15.8	3.3	27.7	3.8	1.2	6.0	54.3	136.2	0.0	94.2	388.3	225.4	613.7
1974	86.8	1.8	88.6	75.8	17.1	17.3	2.0	27.7	3.6	1.1	11.6	53.0	133.4	0.0	90.8	388.6	221.3	610.0
1975	**68.8**	**2.3**	**71.1**	**66.6**	**17.4**	**19.5**	**1.7**	**24.2**	**3.1**	**1.0**	**12.9**	**52.1**	**131.9**	**0.0**	**105.8**	**375.4**	**255.2**	**630.6**
1976	58.3	2.6	60.9	72.5	17.7	24.3	3.0	24.8	3.5	0.8	14.5	56.3	145.0	0.0	120.2	398.7	289.7	688.3
1977	55.2	2.3	57.5	55.5	18.6	36.7	2.6	25.5	3.3	0.8	16.7	64.6	168.8	0.0	117.2	398.9	283.0	681.9
1978	62.9	2.0	64.9	58.1	19.6	37.4	2.8	27.7	3.5	0.6	14.1	66.7	172.5	0.0	100.7	396.2	246.5	642.7
1979	67.9	1.2	69.2	74.7	19.6	33.9	6.0	29.5	3.7	0.5	7.3	77.6	178.0	0.0	104.1	426.0	251.1	677.1
1980	**74.0**	**2.1**	**76.1**	**66.4**	**13.4**	**37.5**	**3.1**	**28.6**	**3.3**	**0.5**	**5.4**	**77.5**	**169.2**	**0.0**	**96.5**	**408.2**	**234.6**	**642.8**
1981	57.6	1.1	58.7	67.0	12.8	31.1	3.2	20.5	3.1	0.4	5.5	47.0	123.7	0.0	93.4	342.7	222.5	565.2
1982	58.3	1.2	59.5	65.7	19.2	28.6	3.0	18.2	2.9	0.3	7.2	40.7	120.1	0.0	83.2	328.5	199.8	528.3
1983	71.3	1.0	72.3	62.4	13.9	24.4	2.5	17.0	3.0	0.3	7.0	41.2	109.3	0.0	79.6	323.6	190.7	514.2
1984	89.0	1.0	90.0	68.7	14.4	26.3	2.0	15.4	3.2	3.4	6.5	46.8	118.0	0.0	97.6	374.3	226.6	600.8
1985	**93.6**	**0.5**	**94.2**	**65.1**	**12.4**	**32.8**	**5.0**	**14.9**	**3.0**	**4.4**	**4.7**	**44.2**	**121.4**	**0.0**	**90.6**	**371.3**	**212.5**	**583.9**
1986	84.3	0.8	85.1	56.6	15.2	29.0	1.5	12.3	2.9	4.3	5.4	43.6	114.2	0.0	83.5	339.5	191.5	530.9
1987	82.0	0.8	82.8	59.9	17.9	31.8	0.7	13.5	3.3	4.4	5.6	52.6	129.7	0.0	83.5	355.9	190.2	546.1
1988	78.8	0.6	79.4	65.4	17.4	30.4	1.0	14.4	3.2	4.1	3.6	55.3	129.4	0.0	90.2	364.4	203.8	568.2
1989	89.4	0.9	90.4	68.9	18.3	27.9	1.2	14.1	3.3	4.4	3.8	54.1	127.0	0.0	102.9	389.2	230.9	620.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 121. Transportation Energy Consumption Estimates, 1960–1989, Kentucky

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**60**	**19**	**652**	**2,549**	**497**	**34**	**405**	**20,715**	**35**	**24,886**	**0**		**0**	
1961	16	20	708	2,031	574	34	394	21,110	44	24,896	0		0	
1962	14	20	1,698	3,163	822	38	392	21,677	41	27,832	0		0	
1963	17	24	1,144	3,340	911	45	392	23,333	64	29,229	0		0	
1964	17	25	1,220	3,882	1,014	50	412	23,600	58	30,235	0		0	
1965	**15**	**28**	**1,052**	**2,725**	**1,284**	**36**	**409**	**25,082**	**42**	**30,630**	**0**		**0**	
1966	14	28	920	3,554	1,666	51	425	26,370	46	33,033	0		0	
1967	11	29	602	3,152	2,349	68	345	27,901	173	34,589	0		0	
1968	10	31	328	4,046	2,768	91	379	29,774	162	37,547	0		0	
1969	7	34	328	4,553	3,035	85	362	31,237	141	39,741	0		0	
1970	**7**	**36**	**330**	**4,891**	**3,089**	**54**	**368**	**33,109**	**145**	**41,986**	**0**		**0**	
1971	5	35	179	4,399	2,674	64	394	35,218	50	42,978	0		0	
1972	4	37	161	6,099	2,207	64	422	37,133	4	46,089	0		0	
1973	2	35	144	6,822	2,367	73	538	38,897	3	48,843	0		0	
1974	2	29	148	6,227	2,035	73	515	39,091	2	48,090	0		0	
1975	*****	**24**	**129**	**6,215**	**2,150**	**66**	**530**	**40,346**	**2**	**49,436**	**0**		**0**	
1976	*	21	128	7,298	2,159	71	588	42,427	1	52,672	0		0	
1977	*	19	110	7,740	2,224	78	518	43,520	1	54,192	0		0	
1978	0	23	106	9,937	2,558	92	556	44,535	1	57,784	0		0	
1979	0	26	136	12,916	2,569	28	582	42,217	51	58,500	0		0	
1980	**0**	**21**	**112**	**12,795**	**2,897**	**13**	**518**	**39,490**	**136**	**55,961**	**0**		**0**	
1981	0	24	92	11,348	3,230	85	497	39,852	250	55,353	0		0	
1982	0	19	89	11,131	3,702	277	453	39,742	10	55,404	0		0	
1983	0	15	95	13,738	4,009	329	474	39,904	12	58,562	0		0	
1984	0	17	73	14,905	3,261	359	506	39,851	12	58,967	0		0	
1985	**0**	**14**	**66**	**13,530**	**3,434**	**128**	**471**	**38,695**	**0**	**56,324**	**0**		**0**	
1986	0	20	85	13,488	3,549	97	461	41,292	0	58,972	0		0	
1987	0	21	62	13,559	4,827	76	521	41,625	0	60,671	0		0	
1988	0	21	62	17,407	4,985	88	503	43,001	0	66,045	0		0	
1989	0	21	53	21,724	5,071	89	516	42,176	0	69,628	0		0	
							Trillion Btu							
1960	**1.5**	**19.6**	**3.3**	**14.8**	**2.7**	**0.1**	**2.5**	**108.8**	**0.2**	**132.5**	**0.0**	**153.5**	**0.0**	**153.5**
1961	0.4	20.8	3.6	11.8	3.1	0.1	2.4	110.9	0.3	132.2	0.0	153.4	0.0	153.4
1962	0.3	21.1	8.6	18.4	4.5	0.2	2.4	113.9	0.3	148.2	0.0	169.7	0.0	169.7
1963	0.4	24.7	5.8	19.5	5.0	0.2	2.4	122.6	0.4	155.8	0.0	180.9	0.0	180.9
1964	0.4	26.0	6.2	22.6	5.6	0.2	2.5	124.0	0.4	161.4	0.0	187.8	0.0	187.8
1965	**0.4**	**28.4**	**5.3**	**15.9**	**7.2**	**0.1**	**2.5**	**131.8**	**0.3**	**163.0**	**0.0**	**191.8**	**0.0**	**191.8**
1966	0.3	28.8	4.6	20.7	9.3	0.2	2.6	138.5	0.3	176.3	0.0	205.4	0.0	205.4
1967	0.3	29.7	3.0	18.4	13.2	0.3	2.1	146.6	1.1	184.6	0.0	214.5	0.0	214.5
1968	0.2	31.3	1.7	23.6	15.5	0.3	2.3	156.4	1.0	200.8	0.0	232.3	0.0	232.3
1969	0.2	35.0	1.7	26.5	17.1	0.3	2.2	164.1	0.9	212.7	0.0	247.9	0.0	247.9
1970	**0.2**	**36.3**	**1.7**	**28.5**	**17.4**	**0.2**	**2.2**	**173.9**	**0.9**	**224.8**	**0.0**	**261.3**	**0.0**	**261.3**
1971	0.1	35.8	0.9	25.6	15.0	0.2	2.4	185.0	0.3	229.5	0.0	265.4	0.0	265.4
1972	0.1	37.6	0.8	35.5	12.4	0.2	2.6	195.1	*	246.6	0.0	284.3	0.0	284.3
1973	0.1	35.3	0.7	39.7	13.3	0.3	3.3	204.3	*	261.7	0.0	297.0	0.0	297.0
1974	*	29.8	0.7	36.3	11.4	0.3	3.1	205.3	*	257.2	0.0	287.1	0.0	287.1
1975	*****	**23.7**	**0.6**	**36.2**	**12.1**	**0.2**	**3.2**	**211.9**	*****	**264.4**	**0.0**	**288.1**	**0.0**	**288.1**
1976	*	20.8	0.6	42.5	12.2	0.3	3.6	222.9	*	282.0	0.0	302.8	0.0	302.8
1977	*	19.3	0.6	45.1	12.5	0.3	3.1	228.6	*	290.2	0.0	309.6	0.0	309.6
1978	0.0	23.3	0.5	57.9	14.4	0.3	3.4	233.9	*	310.5	0.0	333.8	0.0	333.8
1979	0.0	26.1	0.7	75.2	14.5	0.1	3.5	221.8	0.3	316.1	0.0	342.2	0.0	342.2
1980	**0.0**	**21.1**	**0.6**	**74.5**	**16.3**	*****	**3.1**	**207.4**	**0.9**	**302.9**	**0.0**	**324.0**	**0.0**	**324.0**
1981	0.0	24.2	0.5	66.1	18.2	0.3	3.0	209.3	1.6	299.0	0.0	323.2	0.0	323.2
1982	0.0	19.6	0.4	64.8	20.9	1.0	2.7	208.8	0.1	298.7	0.0	318.3	0.0	318.3
1983	0.0	15.1	0.5	80.0	22.6	1.2	2.9	209.6	0.1	316.9	0.0	331.9	0.0	331.9
1984	0.0	17.6	0.4	86.8	18.4	1.3	3.1	209.3	0.1	319.3	0.0	337.0	0.0	337.0
1985	**0.0**	**14.7**	**0.3**	**78.8**	**19.3**	**0.5**	**2.9**	**203.3**	**0.0**	**305.1**	**0.0**	**319.8**	**0.0**	**319.8**
1986	0.0	20.9	0.4	78.6	20.0	0.4	2.8	216.9	0.0	319.1	0.0	340.0	0.0	340.0
1987	0.0	22.2	0.3	79.0	27.3	0.3	3.2	218.7	0.0	328.7	0.0	350.8	0.0	350.8
1988	0.0	21.6	0.3	101.4	28.2	0.3	3.0	225.9	0.0	359.1	0.0	380.7	0.0	380.7
1989	0.0	21.4	0.3	126.5	28.7	0.3	3.1	221.6	0.0	380.5	0.0	401.9	0.0	401.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 122. Estimates of Energy Input at Electric Utilities, 1960-1989, Kentucky

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**7,466**	**0**	**7,466**	**2**	**9**	*	**0**	**10**	**0**	**2,633**	**0**	**0**	
1961	7,512	0	7,512	2	7	*	0	7	0	2,545	0	0	
1962	7,615	0	7,615	2	12	*	0	12	0	2,775	0	0	
1963	9,787	0	9,787	1	13	*	0	13	0	2,328	0	0	
1964	11,433	0	11,433	1	10	*	0	11	0	2,415	0	0	
1965	**12,210**	**0**	**12,210**	*	**14**	*	**0**	**14**	**0**	**2,464**	**0**	**0**	
1966	12,567	0	12,567	1	15	*	0	15	0	2,565	0	0	
1967	13,348	0	13,348	*	15	*	0	15	0	3,697	0	0	
1968	14,027	0	14,027	*	13	*	0	13	0	2,927	0	0	
1969	15,525	0	15,525	7	34	1	0	35	0	2,678	0	0	
1970	**18,698**	**0**	**18,698**	**9**	**121**	**4**	**0**	**124**	**0**	**3,174**	**0**	**0**	
1971	20,483	0	20,483	9	247	7	0	255	0	3,536	0	0	
1972	22,311	0	22,311	10	375	16	0	391	0	3,770	0	0	
1973	22,333	0	22,333	8	144	6	0	150	0	3,823	0	0	
1974	23,203	0	23,203	5	195	6	0	200	0	3,398	0	0	
1975	**22,366**	**0**	**22,366**	*	**100**	**7**	**0**	**108**	**0**	**3,463**	**0**	**0**	
1976	25,095	0	25,095	*	127	121	0	248	0	3,159	0	0	
1977	24,726	0	24,726	1	152	90	0	242	0	3,313	0	0	
1978	24,473	0	24,473	1	172	68	0	240	0	3,182	0	0	
1979	23,187	0	23,187	1	148	10	0	158	0	3,940	0	0	
1980	**24,383**	**0**	**24,383**	**2**	**0**	**227**	**0**	**227**	**0**	**2,940**	**0**	**0**	
1981	25,910	0	25,910	3	0	323	0	323	0	2,598	0	0	
1982	24,455	0	24,455	2	0	295	0	295	0	3,343	0	0	
1983	24,236	0	24,236	1	0	246	0	246	0	3,244	0	0	
1984	25,014	0	25,014	2	0	302	0	302	0	3,514	0	0	
1985	**27,085**	**0**	**27,085**	**1**	**0**	**270**	**0**	**270**	**0**	**2,941**	**0**	**0**	
1986	28,535	0	28,535	*	0	236	0	236	0	2,734	0	0	
1987	28,569	0	28,569	*	0	225	0	225	0	2,948	0	0	
1988	31,818	0	31,818	*	0	202	0	202	0	2,423	0	0	
1989	29,109	0	29,109	*	0	230	0	230	0	4,404	0	0	
					Trillion Btu								
1960	**171.5**	**0.0**	**171.5**	**2.4**	**0.1**	*	**0.0**	**0.1**	**0.0**	**28.3**	**0.0**	**0.0**	**202.3**
1961	173.2	0.0	173.2	2.0	*	*	0.0	*	0.0	27.1	0.0	0.0	202.3
1962	176.0	0.0	176.0	1.7	0.1	*	0.0	0.1	0.0	29.3	0.0	0.0	207.1
1963	228.7	0.0	228.7	1.3	0.1	*	0.0	0.1	0.0	24.4	0.0	0.0	254.5
1964	264.9	0.0	264.9	1.2	0.1	*	0.0	0.1	0.0	25.3	0.0	0.0	291.4
1965	**279.5**	**0.0**	**279.5**	**0.5**	**0.1**	*	**0.0**	**0.1**	**0.0**	**25.8**	**0.0**	**0.0**	**305.8**
1966	286.7	0.0	286.7	1.0	0.1	*	0.0	0.1	0.0	26.7	0.0	0.0	314.4
1967	301.2	0.0	301.2	0.4	0.1	*	0.0	0.1	0.0	38.6	0.0	0.0	340.2
1968	316.5	0.0	316.5	0.4	0.1	*	0.0	0.1	0.0	30.4	0.0	0.0	347.3
1969	346.4	0.0	346.4	7.2	0.2	*	0.0	0.2	0.0	28.0	0.0	0.0	381.7
1970	**408.6**	**0.0**	**408.6**	**8.7**	**0.8**	*	**0.0**	**0.8**	**0.0**	**33.3**	**0.0**	**0.0**	**451.3**
1971	444.2	0.0	444.2	9.1	1.6	*	0.0	1.6	0.0	37.1	0.0	0.0	491.9
1972	482.6	0.0	482.6	10.3	2.4	0.1	0.0	2.5	0.0	39.1	0.0	0.0	534.5
1973	485.5	0.0	485.5	8.3	0.9	*	0.0	0.9	0.0	39.7	0.0	0.0	534.4
1974	496.7	0.0	496.7	5.6	1.2	*	0.0	1.3	0.0	35.5	0.0	0.0	539.0
1975	**480.4**	**0.0**	**480.4**	**0.3**	**0.6**	*	**0.0**	**0.7**	**0.0**	**36.0**	**0.0**	**0.0**	**517.4**
1976	549.4	0.0	549.4	0.1	0.8	0.7	0.0	1.5	0.0	32.8	0.0	0.0	583.8
1977	544.0	0.0	544.0	0.7	1.0	0.5	0.0	1.5	0.0	34.6	0.0	0.0	580.8
1978	539.7	0.0	539.7	1.2	1.1	0.4	0.0	1.5	0.0	33.0	0.0	0.0	575.4
1979	522.3	0.0	522.3	1.0	0.9	0.1	0.0	1.0	0.0	40.8	0.0	0.0	565.0
1980	**558.8**	**0.0**	**558.8**	**1.9**	**0.0**	**1.3**	**0.0**	**1.3**	**0.0**	**30.5**	**0.0**	**0.0**	**592.6**
1981	593.2	0.0	593.2	2.7	0.0	1.9	0.0	1.9	0.0	27.2	0.0	0.0	624.9
1982	557.6	0.0	557.6	1.6	0.0	1.7	0.0	1.7	0.0	34.9	0.0	0.0	595.9
1983	556.8	0.0	556.8	1.2	0.0	1.4	0.0	1.4	0.0	34.1	0.0	0.0	593.5
1984	572.1	0.0	572.1	1.8	0.0	1.8	0.0	1.8	0.0	36.3	0.0	0.0	612.0
1985	**616.7**	**0.0**	**616.7**	**1.1**	**0.0**	**1.6**	**0.0**	**1.6**	**0.0**	**30.4**	**0.0**	**0.0**	**649.8**
1986	657.6	0.0	657.6	0.4	0.0	1.4	0.0	1.4	0.0	28.1	0.0	0.0	687.5
1987	656.9	0.0	656.9	0.3	0.0	1.3	0.0	1.3	0.0	30.2	0.0	0.0	688.7
1988	733.6	0.0	733.6	0.5	0.0	1.2	0.0	1.2	0.0	24.8	0.0	0.0	760.0
1989	669.1	0.0	669.1	0.3	0.0	1.3	0.0	1.3	0.0	45.5	0.0	0.0	716.3

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 123. Energy Consumption Estimates by Source, 1960-1989, Louisiana

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours				
1960	**0**	**970**	**2,201**	**847**	**10,710**	**3,207**	**927**	**21,646**	**1,259**	**22,550**	**8,769**	**16,761**	**88,877**	**0**	**0**	**0**	**0**	**-2,067**
1961	*	1,029	1,893	676	9,053	3,650	396	23,144	1,226	22,980	8,712	18,184	89,913	0	0	0	0	-1,902
1962	*	1,015	2,162	987	9,642	4,591	289	25,353	1,522	23,926	6,591	19,010	94,073	0	0	0	0	1,030
1963	*	1,091	2,246	990	9,718	5,141	512	27,107	1,521	24,588	6,675	20,948	99,448	0	0	0	0	110
1964	*	1,144	2,190	986	9,709	5,455	750	30,552	1,598	25,597	7,277	22,166	106,280	0	0	0	0	-293
1965	*	**1,110**	**2,539**	**1,055**	**8,357**	**6,097**	**803**	**31,150**	**1,483**	**27,404**	**7,889**	**22,569**	**109,347**	**0**	**0**	**0**	**0**	**362**
1966	0	1,202	2,305	876	9,084	6,335	1,866	32,569	1,540	29,025	7,007	25,330	115,938	0	0	0	0	-1,928
1967	*	1,394	2,355	737	7,681	5,464	1,799	34,337	1,340	30,139	10,615	28,650	123,116	0	0	0	0	2,309
1968	0	1,521	2,128	672	9,840	6,074	1,833	39,583	1,472	32,176	10,215	30,876	134,869	0	0	0	0	6,077
1969	*	1,763	2,142	548	10,645	6,211	2,561	46,712	1,561	33,310	11,797	32,614	148,101	0	0	0	0	-2,596
1970	**0**	**1,841**	**2,210**	**447**	**11,799**	**5,879**	**2,509**	**47,555**	**1,590**	**34,850**	**11,118**	**32,217**	**150,174**	**0**	**0**	**0**	**0**	**321**
1971	0	1,884	2,273	454	13,395	5,917	1,928	49,128	1,414	35,858	8,036	44,921	163,324	0	0	0	0	-1,265
1972	0	1,940	2,318	416	17,821	5,841	2,090	59,395	1,514	38,974	8,659	49,445	186,471	0	0	0	0	981
1973	0	2,010	2,489	368	21,079	5,881	3,364	61,454	1,785	41,112	20,812	54,352	212,696	0	0	0	0	3,027
1974	0	2,008	3,269	367	21,652	7,888	2,870	59,725	1,709	41,354	28,453	55,358	222,644	0	0	0	0	11,309
1975	**0**	**1,789**	**2,812**	**295**	**21,502**	**6,082**	**2,418**	**52,953**	**1,826**	**43,192**	**28,410**	**54,605**	**214,094**	**0**	**0**	**0**	**0**	**2,064**
1976	0	2,044	2,266	261	22,077	5,126	2,242	53,547	2,029	46,286	39,047	64,272	237,153	0	0	0	0	-2,151
1977	79	2,191	2,167	277	29,781	5,437	2,975	53,666	1,998	48,322	54,033	72,286	270,942	0	0	0	0	3,455
1978	172	2,249	2,656	219	31,035	5,595	3,264	54,505	2,145	50,064	53,986	75,966	279,435	0	0	0	0	6,364
1979	118	1,978	2,725	243	31,509	7,356	3,187	64,340	2,245	49,078	60,431	86,738	307,850	0	0	0	0	22,011
1980	**111**	**1,794**	**1,946**	**255**	**22,579**	**8,644**	**5,711**	**52,872**	**1,999**	**47,157**	**64,084**	**91,056**	**296,302**	**0**	**0**	**0**	**0**	**36,712**
1981	1,363	1,782	2,746	379	37,923	7,812	6,865	73,786	1,917	48,933	55,459	59,716	295,536	0	0	0	0	54,778
1982	3,724	1,556	2,970	255	30,871	8,195	5,751	88,462	1,748	50,411	46,714	52,430	287,807	0	0	0	0	58,955
1983	6,154	1,413	2,616	224	31,116	10,935	1,185	88,979	1,830	50,471	37,223	51,627	276,207	0	0	0	0	66,130
1984	6,855	1,594	2,019	187	31,365	12,705	1,270	57,477	1,952	50,391	45,553	55,698	258,617	0	0	0	0	77,953
1985	**9,217**	**1,386**	**1,835**	**171**	**33,602**	**12,803**	**1,754**	**65,056**	**1,819**	**49,291**	**41,080**	**53,458**	**260,869**	**2,457**	**0**	**0**	**0**	**63,948**
1986	10,459	1,439	1,792	166	34,958	17,838	3,039	54,916	1,779	49,923	33,769	66,720	264,899	10,637	0	0	0	29,782
1987	10,391	1,501	2,275	132	36,641	18,874	1,133	51,530	2,011	48,106	43,582	71,881	276,165	12,324	0	0	0	31,397
1988	12,848	1,446	2,398	122	38,908	21,424	4,687	49,943	1,939	48,882	45,192	78,493	291,987	13,785	0	0	0	15,412
1989	12,471	1,533	2,315	115	37,049	22,321	1,715	39,098	1,989	46,863	42,030	78,660	272,154	12,391	0	0	0	29,250

Year	Coal	Natural Gas[1]	Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
			Trillion Btu																
1960	**0.0**	**1,003.8**	**14.6**	**4.3**	**62.4**	**17.4**	**5.3**	**86.8**	**7.6**	**118.5**	**55.1**	**100.4**	**472.3**	**0.0**	**0.0**	**0.0**	**0.0**	**-7.1**	**1,469.0**
1961	*	1,064.6	12.6	3.4	52.7	19.9	2.2	92.8	7.4	120.7	54.8	108.9	475.5	0.0	0.0	0.0	0.0	-6.5	1,533.6
1962	*	1,050.3	14.3	5.0	56.2	25.1	1.6	101.7	9.2	125.7	41.4	113.9	494.2	0.0	0.0	0.0	0.0	3.5	1,548.0
1963	*	1,128.8	14.9	5.0	56.6	28.2	2.9	108.7	9.2	129.2	42.0	124.6	521.4	0.0	0.0	0.0	0.0	0.4	1,650.5
1964	*	1,201.4	14.5	5.0	56.6	30.0	4.3	122.5	9.7	134.5	45.7	131.7	554.5	0.0	0.0	0.0	0.0	-1.0	1,754.9
1965	*	**1,156.4**	**16.8**	**5.3**	**48.7**	**33.8**	**4.6**	**124.9**	**9.0**	**144.0**	**49.6**	**134.2**	**570.9**	**0.0**	**0.0**	**0.0**	**0.0**	**1.2**	**1,728.6**
1966	0.0	1,245.6	15.3	4.4	52.9	35.1	10.6	130.6	9.3	152.5	44.1	149.6	604.4	0.0	0.0	0.0	0.0	-6.6	1,843.4
1967	*	1,440.4	15.6	3.7	44.7	30.1	10.2	131.8	8.1	158.3	66.7	169.0	638.3	0.0	0.0	0.0	0.0	7.9	2,086.6
1968	0.0	1,539.7	14.1	3.4	57.3	33.4	10.4	151.1	8.9	169.0	64.2	182.0	694.0	0.0	0.0	0.0	0.0	20.7	2,254.5
1969	*	1,784.1	14.2	2.8	62.0	34.3	14.5	177.7	9.5	175.0	74.2	192.4	756.6	0.0	0.0	0.0	0.0	-8.9	2,531.8
1970	**0.0**	**1,894.2**	**14.7**	**2.3**	**68.7**	**32.6**	**14.2**	**179.7**	**9.6**	**183.1**	**69.9**	**190.0**	**764.8**	**0.0**	**0.0**	**0.0**	**0.0**	**1.1**	**2,660.1**
1971	0.0	1,938.6	15.1	2.3	78.0	32.8	10.9	185.3	8.6	188.4	50.5	261.4	833.3	0.0	0.0	0.0	0.0	-4.3	2,767.5
1972	0.0	1,996.0	15.4	2.1	103.8	32.4	11.9	223.3	9.2	204.7	54.4	288.0	945.2	0.0	0.0	0.0	0.0	3.3	2,944.6
1973	0.0	2,072.2	16.5	1.9	122.8	32.7	19.1	230.2	10.8	216.0	130.8	317.1	1,097.9	0.0	0.0	0.0	0.0	10.3	3,180.4
1974	0.0	2,068.6	21.7	1.9	126.1	44.1	16.3	222.8	10.4	217.2	178.9	322.1	1,161.4	0.0	0.0	0.0	0.0	38.6	3,268.6
1975	**0.0**	**1,854.8**	**18.7**	**1.5**	**125.2**	**33.9**	**13.7**	**196.7**	**11.1**	**226.9**	**178.6**	**318.5**	**1,124.7**	**0.0**	**0.0**	**0.0**	**0.0**	**7.0**	**2,986.6**
1976	0.0	2,121.4	15.0	1.3	128.6	28.5	12.7	198.7	12.3	243.1	245.5	373.8	1,259.6	0.0	0.0	0.0	0.0	-7.3	3,373.7
1977	1.8	2,274.1	14.4	1.4	173.5	30.2	16.9	197.3	12.1	253.8	339.7	420.7	1,460.0	0.0	0.0	0.0	0.0	11.8	3,747.7
1978	3.7	2,349.7	17.6	1.1	180.8	31.2	18.5	200.0	13.0	263.0	339.4	442.2	1,506.8	0.0	0.0	0.0	0.0	21.7	3,882.0
1979	2.5	2,051.4	18.1	1.2	183.5	41.2	18.1	236.8	13.6	257.8	379.9	499.3	1,649.5	0.0	0.0	0.0	0.0	75.1	3,778.5
1980	**2.5**	**1,862.2**	**12.9**	**1.3**	**131.5**	**48.4**	**32.4**	**194.3**	**12.1**	**247.7**	**402.9**	**520.9**	**1,604.4**	**0.0**	**0.0**	**0.0**	**0.0**	**125.3**	**3,594.3**
1981	23.7	1,847.6	18.2	1.9	220.9	43.7	38.9	268.8	11.6	257.0	348.7	346.6	1,556.5	0.0	0.0	0.0	0.0	186.9	3,614.7
1982	64.3	1,629.2	19.7	1.3	179.8	45.8	32.6	319.8	10.6	264.8	293.7	306.1	1,474.2	0.0	0.0	0.0	0.0	201.2	3,368.8
1983	106.7	1,472.3	17.4	1.1	181.3	61.4	6.7	321.6	11.1	265.1	234.0	304.5	1,404.2	0.0	0.0	0.0	0.0	225.6	3,208.8
1984	119.1	1,661.3	13.4	0.9	182.7	71.4	7.2	206.9	11.8	264.7	286.4	322.4	1,367.8	0.0	0.0	0.0	0.0	266.0	3,414.1
1985	**159.1**	**1,441.8**	**12.2**	**0.9**	**195.7**	**72.0**	**9.9**	**234.4**	**11.0**	**258.9**	**258.3**	**312.9**	**1,366.2**	**26.6**	**0.0**	**0.0**	**0.0**	**218.2**	**3,211.9**
1986	171.9	1,496.1	11.9	0.8	203.6	100.5	17.2	199.9	10.8	262.2	212.3	387.7	1,407.1	114.9	0.0	0.0	0.0	101.6	3,291.6
1987	172.4	1,560.7	15.1	0.7	213.4	106.3	6.4	188.5	12.2	252.7	274.0	413.9	1,483.3	132.8	0.0	0.0	0.0	107.1	3,456.3
1988	212.1	1,506.4	15.9	0.6	226.6	120.7	26.6	182.4	11.8	256.8	284.1	452.3	1,577.8	148.1	0.0	0.0	0.0	52.6	3,497.0
1989	207.0	1,598.9	15.4	0.6	215.8	125.8	9.7	144.0	12.1	246.2	264.2	451.0	1,484.7	132.9	0.0	0.0	0.0	99.8	3,523.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 124. Residential Energy Consumption Estimates, 1960–1989, Louisiana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**0**	**0**	**0**	**56**	**11**	**7**	**1,567**	**1,585**	**3,014**	**7,498**
1961	0	0	0	57	10	3	1,751	1,764	3,080	7,507
1962	0	0	0	58	10	3	1,888	1,900	3,885	9,339
1963	0	0	0	63	10	8	1,855	1,873	4,219	10,089
1964	0	0	0	71	8	10	1,798	1,816	4,712	11,221
1965	**0**	**0**	**0**	**61**	**6**	**14**	**2,159**	**2,178**	**5,161**	**12,323**
1966	0	0	0	67	5	28	2,069	2,102	5,890	14,134
1967	0	0	0	74	3	9	1,924	1,937	6,407	15,307
1968	0	0	0	78	4	14	2,379	2,398	7,494	17,880
1969	0	0	0	83	5	18	3,029	3,052	8,519	20,350
1970	**0**	**0**	**0**	**86**	**6**	**20**	**2,709**	**2,735**	**9,334**	**22,620**
1971	0	0	0	80	5	10	2,908	2,924	10,119	24,463
1972	0	0	0	83	7	11	3,028	3,046	11,662	28,072
1973	0	0	0	93	9	31	2,740	2,779	12,298	29,442
1974	0	0	0	92	10	24	2,534	2,569	12,121	29,555
1975	**0**	**0**	**0**	**96**	**10**	**21**	**2,086**	**2,117**	**11,923**	**28,761**
1976	0	0	0	95	16	15	1,940	1,972	12,473	30,045
1977	0	0	0	94	26	27	2,149	2,202	14,272	34,462
1978	0	0	0	82	24	30	1,785	1,840	15,448	37,794
1979	0	0	0	88	42	31	1,276	1,349	15,504	37,416
1980	**1**	**0**	**1**	**73**	**5**	**0**	**1,147**	**1,152**	**16,832**	**40,930**
1981	0	0	0	81	0	28	1,146	1,174	17,601	41,949
1982	1	0	1	68	84	76	855	1,015	17,989	43,206
1983	0	0	0	68	3	92	1,017	1,112	17,351	41,570
1984	3	0	3	70	3	147	1,196	1,347	19,298	44,813
1985	**0**	**0**	**0**	**61**	**8**	**166**	**1,138**	**1,312**	**20,168**	**47,294**
1986	0	0	0	58	9	211	1,130	1,349	20,263	46,459
1987	0	0	0	61	2	154	1,067	1,222	19,986	45,549
1988	0	*	*	60	2	210	1,087	1,300	20,134	45,468
1989	0	0	0	58	8	329	1,178	1,515	20,515	46,017

Year	Natural Gas[1]	Distillate Fuel	Kerosene	LPG[2]	Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu								
1960	**57.8**	**0.1**	*****	**6.3**	**6.4**	**10.3**	**74.4**	**25.6**	**100.0**
1961	59.1	0.1	*	7.0	7.1	10.5	76.8	25.6	102.4
1962	60.1	0.1	*	7.6	7.6	13.3	81.0	31.9	112.9
1963	64.8	0.1	*	7.4	7.5	14.4	86.8	34.4	121.2
1964	74.2	*	0.1	7.2	7.3	16.1	97.6	38.3	135.9
1965	**63.6**	*****	**0.1**	**8.7**	**8.8**	**17.6**	**90.0**	**42.0**	**132.0**
1966	69.4	*	0.2	8.3	8.5	20.1	97.9	48.2	146.2
1967	76.8	*	0.1	7.4	7.5	21.9	106.2	52.2	158.4
1968	78.7	*	0.1	9.1	9.2	25.6	113.5	61.0	174.5
1969	84.0	*	0.1	11.5	11.7	29.1	124.7	69.4	194.1
1970	**88.6**	*****	**0.1**	**10.2**	**10.4**	**31.8**	**130.9**	**77.2**	**208.1**
1971	82.2	*	0.1	11.0	11.1	34.5	127.8	83.5	211.3
1972	84.6	*	0.1	11.4	11.5	39.8	135.9	95.8	231.7
1973	95.4	0.1	0.2	10.3	10.5	42.0	147.8	100.5	248.3
1974	94.0	0.1	0.1	9.5	9.7	41.4	145.0	100.8	245.8
1975	**99.3**	**0.1**	**0.1**	**7.7**	**7.9**	**40.7**	**147.9**	**98.1**	**246.0**
1976	98.6	0.1	0.1	7.2	7.4	42.6	148.5	102.5	251.1
1977	97.7	0.1	0.2	7.9	8.2	48.7	154.6	117.6	272.2
1978	85.5	0.1	0.2	6.5	6.9	52.7	145.0	129.0	274.0
1979	90.8	0.2	0.2	4.7	5.1	52.9	148.8	127.7	276.5
1980	**75.8**	*****	**0.0**	**4.2**	**4.2**	**57.4**	**137.5**	**139.7**	**277.2**
1981	84.4	0.0	0.2	4.2	4.3	60.1	148.8	143.1	291.9
1982	71.7	0.5	0.4	3.1	4.0	61.4	137.1	147.4	284.6
1983	71.0	*	0.5	3.7	4.2	59.2	134.5	141.8	276.3
1984	72.4	*	0.8	4.3	5.2	65.8	143.4	152.9	296.3
1985	**63.0**	*****	**0.9**	**4.1**	**5.1**	**68.8**	**136.9**	**161.4**	**298.3**
1986	60.4	0.1	1.2	4.1	5.4	69.1	134.9	158.5	293.4
1987	63.8	*	0.9	3.9	4.8	68.2	136.8	155.4	292.2
1988	62.2	*	1.2	4.0	5.2	68.7	136.0	155.1	291.2
1989	60.2	*	1.9	4.3	6.3	70.0	136.4	157.0	293.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 125. Commercial Energy Consumption Estimates, 1960-1989, Louisiana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**0**	**0**	**0**	**23**	**1,604**	**156**	**276**	**259**	**304**	**2,599**	**2,493**	**6,200**		
1961	0	0	0	26	1,415	76	309	265	282	2,347	3,238	7,891		
1962	0	0	0	20	1,386	56	333	292	164	2,231	3,679	8,846		
1963	0	0	0	22	1,385	185	327	281	148	2,327	4,128	9,871		
1964	0	0	0	26	1,104	227	317	279	284	2,211	4,400	10,480		
1965	**0**	**0**	**0**	**23**	**815**	**305**	**381**	**299**	**206**	**2,006**	**4,890**	**11,676**		
1966	0	0	0	25	668	627	365	322	135	2,117	5,384	12,920		
1967	0	0	0	51	449	200	340	336	246	1,571	6,210	14,836		
1968	0	0	0	57	575	321	420	350	251	1,916	7,016	16,739		
1969	0	0	0	54	754	402	534	365	525	2,581	7,855	18,764		
1970	**0**	**0**	**0**	**70**	**838**	**445**	**478**	**381**	**502**	**2,645**	**8,427**	**20,422**		
1971	0	0	0	68	748	231	513	393	488	2,373	9,210	22,267		
1972	0	0	0	66	1,024	249	534	420	516	2,743	10,191	24,531		
1973	0	0	0	60	1,238	682	483	441	1,050	3,895	11,153	26,701		
1974	0	0	0	58	1,452	546	447	446	1,451	4,342	11,340	27,649		
1975	**0**	**0**	**0**	**51**	**1,458**	**467**	**368**	**465**	**1,830**	**4,588**	**9,225**	**22,253**		
1976	0	0	0	44	2,281	341	342	495	2,204	5,664	10,020	24,135		
1977	0	0	0	45	3,599	612	379	514	3,429	8,533	11,213	27,076		
1978	0	0	0	65	3,390	679	315	538	3,312	8,235	12,078	29,549		
1979	0	0	0	116	5,835	692	225	541	8,770	16,063	12,325	29,744		
1980	**3**	**0**	**3**	**40**	**399**	**549**	**202**	**168**	**13,466**	**14,784**	**12,809**	**31,147**		
1981	0	0	0	40	517	2,530	202	178	15,376	18,802	13,707	32,667		
1982	2	0	2	34	347	331	151	184	16,622	17,635	14,008	33,644		
1983	0	0	0	35	2,115	79	180	235	1,245	3,854	14,078	33,727		
1984	6	0	6	33	2,077	199	211	207	1,807	4,502	16,011	37,180		
1985	**0**	**0**	**0**	**30**	**3,743**	**612**	**201**	**235**	**1,937**	**6,727**	**16,548**	**38,805**		
1986	0	0	0	28	4,029	283	199	239	1,684	6,434	16,553	37,951		
1987	0	0	0	28	1,880	333	188	248	2,686	5,335	16,181	36,877		
1988	0	*	*	27	1,296	2,008	192	237	1,715	5,448	16,316	36,845		
1989	0	0	0	27	845	358	208	222	3,375	5,008	16,562	37,149		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**0.0**	**0.0**	**0.0**	**24.3**	**9.3**	**0.9**	**1.1**	**1.4**	**1.9**	**14.6**	**8.5**	**47.4**	**21.2**	**68.6**
1961	0.0	0.0	0.0	27.3	8.2	0.4	1.2	1.4	1.8	13.1	11.0	51.4	26.9	78.4
1962	0.0	0.0	0.0	20.6	8.1	0.3	1.3	1.5	1.0	12.3	12.6	45.4	30.2	75.6
1963	0.0	0.0	0.0	23.2	8.1	1.1	1.3	1.5	0.9	12.8	14.1	50.1	33.7	83.8
1964	0.0	0.0	0.0	27.6	6.4	1.3	1.3	1.5	1.8	12.2	15.0	54.9	35.8	90.6
1965	**0.0**	**0.0**	**0.0**	**23.5**	**4.7**	**1.7**	**1.5**	**1.6**	**1.3**	**10.9**	**16.7**	**51.1**	**39.8**	**90.9**
1966	0.0	0.0	0.0	25.6	3.9	3.6	1.5	1.7	0.8	11.4	18.4	55.4	44.1	99.5
1967	0.0	0.0	0.0	52.7	2.6	1.1	1.3	1.8	1.5	8.4	21.2	82.3	50.6	132.9
1968	0.0	0.0	0.0	57.6	3.3	1.8	1.6	1.8	1.6	10.2	23.9	91.7	57.1	148.9
1969	0.0	0.0	0.0	54.7	4.4	2.3	2.0	1.9	3.3	13.9	26.8	95.4	64.0	159.4
1970	**0.0**	**0.0**	**0.0**	**72.4**	**4.9**	**2.5**	**1.8**	**2.0**	**3.2**	**14.4**	**28.8**	**115.5**	**69.7**	**185.2**
1971	0.0	0.0	0.0	69.5	4.4	1.3	1.9	2.1	3.1	12.7	31.4	113.6	76.0	189.6
1972	0.0	0.0	0.0	67.7	6.0	1.4	2.0	2.2	3.2	14.8	34.8	117.4	83.7	201.1
1973	0.0	0.0	0.0	61.0	7.2	3.9	1.8	2.3	6.6	21.8	38.1	120.8	91.1	211.9
1974	0.0	0.0	0.0	59.4	8.5	3.1	1.7	2.3	9.1	24.7	38.7	122.8	94.3	217.2
1975	**0.0**	**0.0**	**0.0**	**52.3**	**8.5**	**2.6**	**1.4**	**2.4**	**11.5**	**26.5**	**31.5**	**110.2**	**75.9**	**186.1**
1976	0.0	0.0	0.0	45.0	13.3	1.9	1.3	2.6	13.9	33.0	34.2	112.1	82.3	194.5
1977	0.0	0.0	0.0	46.1	21.0	3.5	1.4	2.7	21.6	50.1	38.3	134.5	92.4	226.9
1978	0.0	0.0	0.0	68.1	19.7	3.9	1.2	2.8	20.8	48.4	41.2	157.7	100.8	258.5
1979	0.0	0.0	0.0	119.7	34.0	3.9	0.8	2.8	55.1	96.7	42.1	258.5	101.5	360.0
1980	**0.1**	**0.0**	**0.1**	**41.5**	**2.3**	**3.1**	**0.7**	**0.9**	**84.7**	**91.7**	**43.7**	**177.0**	**106.3**	**283.2**
1981	0.0	0.0	0.0	40.9	3.0	14.3	0.7	0.9	96.7	115.7	46.8	203.4	111.5	314.8
1982	*	0.0	*	35.3	2.0	1.9	0.5	1.0	104.5	109.9	47.8	193.1	114.8	307.9
1983	0.0	0.0	0.0	36.3	12.3	0.4	0.6	1.2	7.8	22.5	48.0	106.8	115.1	221.9
1984	0.1	0.0	0.1	34.4	12.1	1.1	0.8	1.1	11.4	26.4	54.6	115.6	126.9	242.5
1985	**0.0**	**0.0**	**0.0**	**31.4**	**21.8**	**3.5**	**0.7**	**1.2**	**12.2**	**39.4**	**56.5**	**127.2**	**132.4**	**259.7**
1986	0.0	0.0	0.0	29.1	23.5	1.6	0.7	1.3	10.6	37.6	56.5	123.2	129.5	252.7
1987	0.0	0.0	0.0	28.9	10.9	1.9	0.7	1.3	16.9	31.7	55.2	115.9	125.8	241.7
1988	0.0	*	*	28.6	7.6	11.4	0.7	1.2	10.8	31.7	55.7	115.9	125.7	241.7
1989	0.0	0.0	0.0	27.8	4.9	2.0	0.8	1.2	21.2	30.1	56.5	114.4	126.8	241.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 126. Industrial Energy Consumption Estimates, 1960–1989, Louisiana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**0**	**0**	**0**	**739**	**2,201**	**3,383**	**764**	**19,606**	**559**	**562**	**485**	**16,761**	**44,320**	**0**	**4,326**	**10,761**
1961	0	0	0	785	1,893	3,449	317	20,786	544	584	495	18,184	46,251	0	4,256	10,373
1962	0	0	0	767	2,162	3,658	231	22,825	764	607	438	19,010	49,695	0	4,862	11,690
1963	0	0	0	820	2,246	3,635	319	24,575	764	553	811	20,948	53,851	0	4,823	11,534
1964	0	0	0	846	2,190	3,622	514	28,039	802	507	902	22,166	58,743	0	5,277	12,567
1965	**0**	**0**	**0**	**797**	**2,539**	**3,129**	**484**	**28,451**	**821**	**548**	**353**	**22,569**	**58,895**	**0**	**5,905**	**14,100**
1966	0	0	0	846	2,305	3,638	1,211	29,907	853	411	266	25,330	63,923	0	6,951	16,679
1967	0	0	0	989	2,355	2,638	1,590	31,818	841	378	346	28,650	68,616	0	8,030	19,183
1968	0	0	0	1,077	2,128	3,365	1,498	36,493	924	354	382	30,876	76,020	0	9,502	22,671
1969	0	0	0	1,237	2,142	4,047	2,141	42,788	1,033	308	759	32,614	85,831	0	10,603	25,328
1970	**0**	**0**	**0**	**1,281**	**2,210**	**4,241**	**2,044**	**44,017**	**1,052**	**302**	**819**	**32,217**	**86,902**	**0**	**11,637**	**28,201**
1971	0	0	0	1,299	2,273	4,429	1,687	45,306	892	274	751	44,921	100,534	0	12,460	30,123
1972	0	0	0	1,328	2,318	5,555	1,830	55,432	955	253	863	49,445	116,651	0	14,046	33,810
1973	0	0	0	1,413	2,489	6,630	2,651	57,873	1,264	221	1,902	54,352	127,381	0	15,000	35,909
1974	0	0	0	1,439	3,269	6,889	2,300	56,427	1,210	211	3,875	55,358	129,538	0	15,699	38,279
1975	**0**	**0**	**0**	**1,224**	**2,812**	**6,391**	**1,931**	**50,191**	**1,299**	**173**	**4,046**	**54,605**	**121,448**	**0**	**14,969**	**36,108**
1976	0	0	0	1,458	2,266	7,181	1,886	50,881	1,444	146	5,375	64,272	133,451	0	17,325	41,733
1977	79	0	79	1,619	2,167	12,170	2,336	50,746	1,277	131	7,560	72,286	148,673	0	19,236	46,450
1978	172	0	172	1,652	2,656	12,594	2,554	51,924	1,372	104	7,004	75,966	154,174	0	20,753	50,772
1979	118	0	118	1,316	2,725	11,330	2,464	62,281	1,436	82	15,758	86,738	182,813	0	22,536	54,387
1980	**107**	**0**	**107**	**1,182**	**1,946**	**8,543**	**5,162**	**51,364**	**1,278**	**62**	**12,363**	**91,056**	**171,774**	**0**	**23,233**	**56,495**
1981	285	1	286	1,166	2,746	14,541	4,307	72,226	1,226	89	13,265	59,716	168,116	0	26,318	62,723
1982	322	1	323	1,019	2,970	14,994	5,344	87,206	1,118	786	10,352	52,430	175,199	0	24,694	59,311
1983	314	0	314	966	2,616	9,274	1,015	87,486	1,170	525	18,333	51,627	172,046	0	23,835	57,103
1984	382	0	382	1,142	2,019	9,108	923	55,750	1,248	346	26,596	55,698	151,689	0	25,816	59,948
1985	**457**	**0**	**457**	**968**	**1,835**	**9,540**	**975**	**63,615**	**1,163**	**486**	**22,902**	**53,458**	**153,975**	**0**	**23,952**	**56,168**
1986	263	0	263	1,039	1,792	11,931	2,545	53,506	1,137	393	12,740	66,720	150,764	0	22,474	51,527
1987	362	0	362	1,113	2,275	13,422	647	50,187	1,286	373	21,936	71,881	162,007	0	22,986	52,386
1988	547	0	547	1,052	2,398	14,068	2,469	48,580	1,240	345	22,950	78,493	170,544	0	23,559	53,202
1989	701	0	701	1,154	2,315	11,903	1,028	37,637	1,272	292	18,952	78,660	152,058	0	24,762	55,544

Year	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses	Total[4]
	Trillion Btu				
1960	**0.0**	**14.8**	**1,006.8**	**36.7**	**1,043.5**
1961	0.0	14.5	1,063.7	35.4	1,099.1
1962	0.0	16.6	1,063.8	39.9	1,103.6
1963	0.0	16.5	1,139.0	39.4	1,178.4
1964	0.0	18.0	1,201.8	42.9	1,244.7
1965	**0.0**	**20.1**	**1,146.4**	**48.1**	**1,194.5**
1966	0.0	23.7	1,221.9	56.9	1,278.8
1967	0.0	27.4	1,389.1	65.5	1,454.6
1968	0.0	32.4	1,495.3	77.4	1,572.7
1969	0.0	36.2	1,706.2	86.4	1,792.6
1970	**0.0**	**39.7**	**1,778.5**	**96.2**	**1,874.7**
1971	0.0	42.5	1,873.3	102.8	1,976.0
1972	0.0	47.9	1,971.1	115.4	2,086.4
1973	0.0	51.2	2,123.2	122.5	2,245.7
1974	0.0	53.6	2,165.7	130.6	2,296.3
1975	**0.0**	**51.1**	**1,920.2**	**123.2**	**2,043.4**
1976	0.0	59.1	2,239.1	142.4	2,381.5
1977	0.0	65.6	2,505.0	158.5	2,663.4
1978	0.0	70.8	2,587.8	173.2	2,761.1
1979	0.0	76.9	2,375.1	185.6	2,560.7
1980	**0.0**	**79.3**	**2,194.5**	**192.8**	**2,387.2**
1981	0.0	89.8	2,132.3	214.0	2,346.3
1982	0.0	84.3	1,993.4	202.4	2,195.8
1983	0.0	81.3	1,916.2	194.8	2,111.1
1984	0.0	88.1	2,056.3	204.5	2,260.8
1985	**0.0**	**81.7**	**1,866.8**	**191.6**	**2,058.4**
1986	0.0	76.7	1,929.5	175.8	2,105.3
1987	0.0	78.4	2,086.2	178.7	2,264.9
1988	0.0	80.4	2,081.3	181.5	2,262.8
1989	0.0	84.5	2,110.5	189.5	2,300.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 127. Transportation Energy Consumption Estimates, 1960–1989, Louisiana

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**0**	**32**	**847**	**5,690**	**3,207**	**197**	**700**	**21,729**	**7,944**	**40,314**	**26**	**64**		
1961	0	34	676	4,162	3,650	298	682	22,131	7,905	39,502	25	61		
1962	0	34	987	4,563	4,591	307	758	23,028	5,945	40,178	22	54		
1963	0	39	990	4,669	5,141	350	757	23,754	5,683	41,344	18	43		
1964	0	43	986	4,938	5,455	398	795	24,811	6,029	43,412	12	30		
1965	**0**	**54**	**1,055**	**4,387**	**6,097**	**159**	**661**	**26,557**	**7,297**	**46,213**	**7**	**17**		
1966	0	55	876	4,755	6,335	228	687	28,292	6,576	47,749	7	18		
1967	0	57	737	4,573	5,464	255	498	29,425	9,995	50,947	4	9		
1968	0	57	672	5,872	6,074	291	547	31,472	9,543	54,470	3	7		
1969	0	72	548	5,818	6,211	360	529	32,636	10,477	56,581	3	7		
1970	**0**	**71**	**447**	**6,655**	**5,879**	**350**	**539**	**34,167**	**9,699**	**57,736**	**3**	**7**		
1971	0	76	454	8,146	5,917	401	522	35,191	6,394	57,024	3	6		
1972	0	80	416	11,037	5,841	400	559	38,301	6,251	62,805	3	7		
1973	0	80	368	13,126	5,881	358	521	40,450	10,211	70,915	3	7		
1974	0	76	367	13,213	7,888	316	499	40,697	14,365	77,346	3	7		
1975	**0**	**61**	**295**	**13,554**	**6,082**	**307**	**527**	**42,554**	**16,835**	**80,154**	**3**	**7**		
1976	0	80	261	12,511	5,126	383	585	45,645	18,453	82,965	3	8		
1977	*	83	277	13,902	5,437	391	720	47,677	20,733	89,139	3	8		
1978	0	81	219	14,963	5,595	481	773	49,421	18,883	90,337	3	7		
1979	0	58	243	14,262	7,356	557	809	48,455	21,428	93,111	3	8		
1980	**0**	**74**	**255**	**12,457**	**8,644**	**159**	**721**	**46,927**	**31,159**	**100,321**	**3**	**7**		
1981	0	79	379	21,432	7,812	211	691	48,667	23,700	102,892	3	8		
1982	0	62	255	15,056	8,195	250	630	49,442	18,460	92,287	3	7		
1983	0	47	224	19,374	10,935	297	660	49,711	17,322	98,523	2	5		
1984	0	49	187	20,036	12,705	320	704	49,837	17,019	100,807	2	6		
1985	**0**	**42**	**171**	**20,179**	**12,803**	**102**	**656**	**48,570**	**16,182**	**98,664**	**3**	**6**		
1986	0	46	166	18,913	17,838	82	641	49,291	18,713	105,644	3	6		
1987	0	51	132	21,269	18,874	88	725	47,484	18,911	107,483	2	6		
1988	0	57	122	23,395	21,424	83	699	48,300	20,130	114,152	3	6		
1989	0	50	115	23,997	22,321	74	717	46,350	19,478	113,052	3	6		
			Trillion Btu											
1960	**0.0**	**32.8**	**4.3**	**33.1**	**17.4**	**0.8**	**4.2**	**114.1**	**49.9**	**223.9**	**0.1**	**256.8**	**0.2**	**257.0**
1961	0.0	34.7	3.4	24.2	19.9	1.2	4.1	116.3	49.7	218.8	0.1	253.6	0.2	253.8
1962	0.0	34.7	5.0	26.6	25.1	1.2	4.6	121.0	37.4	220.9	0.1	255.7	0.2	255.9
1963	0.0	40.0	5.0	27.2	28.2	1.4	4.6	124.8	35.7	226.9	0.1	267.0	0.1	267.2
1964	0.0	45.2	5.0	28.8	30.0	1.6	4.8	130.3	37.9	238.4	*	283.6	0.1	283.7
1965	**0.0**	**56.4**	**5.3**	**25.6**	**33.8**	**0.6**	**4.0**	**139.5**	**45.9**	**254.7**	*	**311.1**	**0.1**	**311.1**
1966	0.0	56.6	4.4	27.7	35.1	0.9	4.2	148.6	41.3	262.3	*	318.8	0.1	318.9
1967	0.0	58.8	3.7	26.6	30.1	1.0	3.0	154.6	62.8	281.8	*	340.7	*	340.7
1968	0.0	57.7	3.4	34.2	33.4	1.1	3.3	165.3	60.0	300.8	*	358.4	*	358.5
1969	0.0	72.8	2.8	33.9	34.3	1.4	3.2	171.4	65.9	312.9	*	385.7	*	385.7
1970	**0.0**	**73.4**	**2.3**	**38.8**	**32.6**	**1.3**	**3.3**	**179.5**	**61.0**	**318.7**	*	**392.1**	*	**392.1**
1971	0.0	78.3	2.3	47.5	32.8	1.5	3.2	184.9	40.2	312.3	*	390.6	*	390.6
1972	0.0	81.2	2.1	64.3	32.4	1.5	3.4	201.2	39.3	344.2	*	425.4	*	425.5
1973	0.0	82.2	1.9	76.5	32.7	1.3	3.2	212.5	64.2	392.2	*	474.4	*	474.4
1974	0.0	78.0	1.9	77.0	44.1	1.2	3.0	213.8	90.3	431.2	*	509.2	*	509.2
1975	**0.0**	**63.0**	**1.5**	**78.9**	**33.9**	**1.1**	**3.2**	**223.5**	**105.8**	**448.0**	*	**511.0**	*	**511.1**
1976	0.0	83.1	1.3	72.9	28.5	1.4	3.6	239.8	116.0	463.4	*	546.6	*	546.6
1977	*	86.0	1.4	81.0	30.2	1.4	4.4	250.4	130.4	499.2	*	585.2	*	585.2
1978	0.0	84.2	1.1	87.2	31.2	1.8	4.7	259.6	118.7	504.2	*	588.4	*	588.4
1979	0.0	59.6	1.2	83.1	41.2	2.1	4.9	254.5	134.7	521.7	*	581.3	*	581.3
1980	**0.0**	**77.0**	**1.3**	**72.6**	**48.4**	**0.6**	**4.4**	**246.5**	**195.9**	**569.6**	*	**646.6**	*	**646.7**
1981	0.0	81.6	1.9	124.8	43.7	0.8	4.2	255.6	149.0	580.1	*	661.7	*	661.7
1982	0.0	65.2	1.3	87.7	45.8	0.9	3.8	259.7	116.1	515.3	*	580.6	*	580.6
1983	0.0	49.1	1.1	112.9	61.4	1.1	4.0	261.1	108.9	550.5	*	599.5	*	599.6
1984	0.0	51.2	0.9	116.7	71.4	1.2	4.3	261.8	107.0	563.2	*	614.4	*	614.5
1985	**0.0**	**43.9**	**0.9**	**117.5**	**72.0**	**0.4**	**4.0**	**255.1**	**101.7**	**551.6**	*	**595.5**	*	**595.5**
1986	0.0	47.8	0.8	110.2	100.5	0.3	3.9	258.9	117.7	592.3	*	640.2	*	640.2
1987	0.0	53.5	0.7	123.9	106.3	0.3	4.4	249.4	118.9	604.0	*	657.4	*	657.4
1988	0.0	58.9	0.6	136.3	120.7	0.3	4.2	253.7	126.6	642.4	*	701.4	*	701.4
1989	0.0	52.0	0.6	139.8	125.8	0.3	4.3	243.5	122.5	636.7	*	688.7	*	688.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 128. Estimates of Energy Input at Electric Utilities, 1960–1989, Louisiana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**120**	**36**	**22**	**0**	**58**	**0**	**0**	**0**	**0**	
1961	*	0	*	126	30	18	0	48	0	0	0	0	
1962	*	0	*	136	43	26	0	69	0	0	0	0	
1963	*	0	*	147	33	20	0	52	0	0	0	0	
1964	*	0	*	159	61	36	0	98	0	0	0	0	
1965	*	**0**	*	**176**	**34**	**20**	**0**	**54**	**0**	**0**	**0**	**0**	
1966	0	0	0	210	30	18	0	48	0	0	0	0	
1967	*	0	*	223	28	17	0	45	0	0	0	0	
1968	0	0	0	253	41	24	0	65	0	0	0	0	
1969	*	0	*	317	35	21	0	56	0	0	0	0	
1970	**0**	**0**	**0**	**332**	**98**	**58**	**0**	**156**	**0**	**0**	**0**	**0**	
1971	0	0	0	362	402	67	0	469	0	0	0	0	
1972	0	0	0	383	1,029	197	0	1,226	0	0	0	0	
1973	0	0	0	365	7,649	77	0	7,726	0	0	0	0	
1974	0	0	0	344	8,762	87	0	8,849	0	0	0	0	
1975	**0**	**0**	**0**	**356**	**5,699**	**88**	**0**	**5,787**	**0**	**0**	**0**	**0**	
1976	0	0	0	366	13,015	86	0	13,102	0	0	0	0	
1977	0	0	0	350	22,310	84	0	22,394	0	0	0	0	
1978	0	0	0	369	24,786	63	0	24,849	0	0	0	0	
1979	0	0	0	401	14,475	40	0	14,514	0	0	0	0	
1980	**0**	**0**	**0**	**425**	**7,096**	**1,174**	**0**	**8,270**	**0**	**0**	**0**	**0**	
1981	1,077	0	1,077	416	3,119	1,433	0	4,552	0	0	0	0	
1982	3,398	0	3,398	373	1,280	391	0	1,670	0	0	0	0	
1983	5,840	0	5,840	296	323	349	0	672	0	0	0	0	
1984	6,463	0	6,463	301	131	141	0	272	0	0	0	0	
1985	**8,760**	**0**	**8,760**	**285**	**59**	**132**	**0**	**191**	**2,457**	**0**	**0**	**0**	
1986	10,196	0	10,196	268	631	77	0	709	10,637	0	0	0	
1987	10,029	0	10,029	247	49	69	0	118	12,324	0	0	0	
1988	12,301	0	12,301	250	396	147	0	543	13,785	0	0	0	
1989	11,770	0	11,770	245	225	297	0	521	12,391	0	0	0	
					Trillion Btu								
1960	**0.0**	**0.0**	**0.0**	**124.0**	**0.2**	**0.1**	**0.0**	**0.4**	**0.0**	**0.0**	**0.0**	**0.0**	**124.4**
1961	*	0.0	*	130.5	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	130.8
1962	*	0.0	*	140.7	0.3	0.2	0.0	0.4	0.0	0.0	0.0	0.0	141.1
1963	*	0.0	*	151.9	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	152.2
1964	*	0.0	*	166.6	0.4	0.2	0.0	0.6	0.0	0.0	0.0	0.0	167.2
1965	*	**0.0**	*	**182.9**	**0.2**	**0.1**	**0.0**	**0.3**	**0.0**	**0.0**	**0.0**	**0.0**	**183.3**
1966	0.0	0.0	0.0	217.8	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	218.1
1967	*	0.0	*	230.6	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	230.9
1968	0.0	0.0	0.0	256.3	0.3	0.1	0.0	0.4	0.0	0.0	0.0	0.0	256.7
1969	*	0.0	*	320.5	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	320.8
1970	**0.0**	**0.0**	**0.0**	**341.4**	**0.6**	**0.3**	**0.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**342.3**
1971	0.0	0.0	0.0	372.1	2.5	0.4	0.0	2.9	0.0	0.0	0.0	0.0	375.0
1972	0.0	0.0	0.0	406.4	6.5	1.1	0.0	7.6	0.0	0.0	0.0	0.0	414.0
1973	0.0	0.0	0.0	386.4	48.1	0.4	0.0	48.5	0.0	0.0	0.0	0.0	435.0
1974	0.0	0.0	0.0	365.3	55.1	0.5	0.0	55.6	0.0	0.0	0.0	0.0	420.9
1975	**0.0**	**0.0**	**0.0**	**377.1**	**35.8**	**0.5**	**0.0**	**36.3**	**0.0**	**0.0**	**0.0**	**0.0**	**413.5**
1976	0.0	0.0	0.0	388.2	81.8	0.5	0.0	82.3	0.0	0.0	0.0	0.0	470.5
1977	0.0	0.0	0.0	368.5	140.3	0.5	0.0	140.8	0.0	0.0	0.0	0.0	509.3
1978	0.0	0.0	0.0	389.9	155.8	0.4	0.0	156.2	0.0	0.0	0.0	0.0	546.1
1979	0.0	0.0	0.0	420.3	91.0	0.2	0.0	91.2	0.0	0.0	0.0	0.0	511.5
1980	**0.0**	**0.0**	**0.0**	**442.4**	**44.6**	**6.8**	**0.0**	**51.5**	**0.0**	**0.0**	**0.0**	**0.0**	**493.9**
1981	17.4	0.0	17.4	433.0	19.6	8.3	0.0	28.0	0.0	0.0	0.0	0.0	478.4
1982	56.8	0.0	56.8	389.8	8.0	2.3	0.0	10.3	0.0	0.0	0.0	0.0	456.9
1983	99.6	0.0	99.6	311.0	2.0	2.0	0.0	4.1	0.0	0.0	0.0	0.0	414.7
1984	110.0	0.0	110.0	315.3	0.8	0.8	0.0	1.6	0.0	0.0	0.0	0.0	426.9
1985	**148.1**	**0.0**	**148.1**	**298.4**	**0.4**	**0.8**	**0.0**	**1.1**	**26.6**	**0.0**	**0.0**	**0.0**	**474.3**
1986	165.6	0.0	165.6	279.6	4.0	0.5	0.0	4.4	114.9	0.0	0.0	0.0	564.5
1987	163.7	0.0	163.7	257.5	0.3	0.4	0.0	0.7	132.8	0.0	0.0	0.0	554.7
1988	201.5	0.0	201.5	261.6	2.5	0.9	0.0	3.3	148.1	0.0	0.0	0.0	614.6
1989	192.7	0.0	192.7	255.8	1.4	1.7	0.0	3.1	132.9	0.0	0.0	0.0	584.5

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 129. Energy Consumption Estimates by Source, 1960-1989, Maine

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**794**	**0**	**729**	**57**	**7,415**	**1,904**	**2,294**	**442**	**175**	**8,378**	**5,408**	**10**	**26,811**	**0**	**2,993**	**0**	**0**	**-489**	
1961	761	0	889	53	8,292	1,937	2,852	485	170	8,481	6,332	11	29,504	0	2,789	0	0	-416	
1962	695	0	704	87	8,633	2,089	2,526	545	166	8,564	5,516	12	28,842	0	2,748	0	0	-481	
1963	493	0	737	64	9,405	2,140	2,710	630	166	8,699	5,234	25	29,812	0	3,090	0	0	-411	
1964	319	0	820	112	8,777	2,196	2,151	690	174	8,796	7,319	27	31,063	0	2,711	0	0	-230	
1965	**316**	**0**	**745**	**89**	**9,220**	**1,812**	**2,052**	**550**	**169**	**9,131**	**6,340**	**25**	**30,132**	**0**	**2,290**	**0**	**0**	**-360**	
1966	294	1	827	149	8,848	1,885	1,753	601	176	9,420	7,858	57	31,573	0	2,720	0	0	-791	
1967	226	1	755	104	9,914	2,074	2,364	607	155	9,614	8,249	63	33,900	0	2,886	0	0	-1,411	
1968	185	1	718	79	10,635	2,419	2,281	611	171	10,170	8,641	71	35,795	0	2,976	0	0	-604	
1969	174	1	740	42	11,381	2,424	2,254	674	166	10,443	9,577	71	37,773	0	3,225	0	0	125	
1970	**91**	**1**	**701**	**93**	**11,822**	**2,300**	**1,783**	**635**	**169**	**11,025**	**11,605**	**72**	**40,206**	**0**	**3,369**	**0**	**0**	**928**	
1971	97	1	797	89	12,134	2,472	1,802	634	180	11,499	18,738	0	48,344	0	3,693	0	0	-56	
1972	59	2	774	92	12,911	2,357	1,796	770	192	12,104	21,098	0	52,094	54	4,536	0	0	-1,876	
1973	61	2	1,003	87	12,493	2,417	1,314	784	192	12,495	19,727	0	50,511	3,351	5,895	0	0	-14,157	
1974	84	2	926	80	12,014	2,150	1,116	794	183	12,388	15,099	0	44,750	3,574	5,349	0	0	-10,854	
1975	**56**	**2**	**696**	**71**	**11,505**	**1,988**	**1,036**	**963**	**167**	**12,645**	**9,929**	**0**	**39,001**	**4,502**	**4,100**	**0**	**0**	**-7,464**	
1976	44	2	838	63	13,602	1,941	1,341	1,148	185	13,290	12,701	0	45,109	5,929	5,437	0	0	-11,857	
1977	25	2	704	66	14,805	2,316	1,066	1,205	196	13,488	12,166	0	46,013	5,143	6,496	0	0	-9,490	
1978	30	2	635	64	13,670	2,344	789	1,099	211	13,666	10,452	0	42,929	5,354	4,975	0	0	-5,185	
1979	32	2	339	72	11,437	2,211	603	1,711	220	12,440	10,368	0	39,401	4,497	6,010	0	0	-6,119	
1980	**124**	**2**	**435**	**82**	**10,628**	**1,875**	**504**	**874**	**196**	**11,768**	**8,557**	**0**	**34,919**	**4,404**	**6,176**	**0**	**0**	**-8,605**	
1981	130	2	478	47	9,248	1,547	290	714	188	11,569	9,978	0	34,060	5,212	5,864	0	0	-10,884	
1982	283	3	466	37	9,164	1,595	316	837	172	11,807	15,448	0	39,843	4,524	5,895	0	0	-5,958	
1983	239	2	585	45	7,351	1,505	354	842	180	12,089	8,419	0	31,370	5,730	8,013	0	0	-14,443	
1984	200	2	1,114	43	8,391	1,520	327	546	192	12,281	8,372	0	32,786	5,123	8,666	0	0	-14,212	
1985	**206**	**3**	**2,185**	**41**	**9,581**	**1,639**	**472**	**632**	**179**	**12,545**	**6,543**	**0**	**33,817**	**5,354**	**3,379**	**0**	**0**	**2,233**	
1986	375	2	734	58	11,495	1,615	339	1,011	175	13,437	9,707	0	38,570	6,242	5,582	0	0	-8,105	
1987	273	3	852	53	11,961	1,813	407	1,220	197	14,072	7,800	0	38,376	4,043	6,421	0	0	-2,006	
1988	277	3	1,586	66	13,714	2,103	462	1,625	190	15,388	10,172	0	45,307	5,017	5,930	0	0	-2,997	
1989	271	4	1,000	68	12,269	2,249	462	1,619	195	14,187	8,123	0	40,173	6,942	4,736	0	0	-5,459	
									Trillion Btu										
1960	**20.4**	**0.0**	**4.8**	**0.3**	**43.2**	**10.2**	**13.0**	**1.8**	**1.1**	**44.0**	**34.0**	**0.1**	**152.4**	**0.0**	**32.2**	**0.0**	**0.0**	**-1.7**	**203.4**
1961	19.5	0.0	5.9	0.3	48.3	10.4	16.2	1.9	1.0	44.6	39.8	0.1	168.4	0.0	29.7	0.0	0.0	-1.4	216.2
1962	17.8	0.0	4.7	0.4	50.3	11.2	14.3	2.2	1.0	45.0	34.7	0.1	163.8	0.0	29.0	0.0	0.0	-1.6	209.0
1963	12.5	0.0	4.9	0.3	54.8	11.5	15.4	2.5	1.0	45.7	32.9	0.1	169.1	0.0	32.4	0.0	0.0	-1.4	212.6
1964	8.1	0.0	5.4	0.6	51.1	11.8	12.2	2.8	1.1	46.2	46.0	0.1	177.3	0.0	28.4	0.0	0.0	-0.8	212.9
1965	**8.0**	**0.0**	**4.9**	**0.4**	**53.7**	**9.7**	**11.6**	**2.2**	**1.0**	**48.0**	**39.9**	**0.1**	**171.6**	**0.0**	**23.9**	**0.0**	**0.0**	**-1.2**	**202.3**
1966	7.4	0.5	5.5	0.8	51.5	10.1	9.9	2.4	1.1	49.5	49.4	0.3	180.5	0.0	28.3	0.0	0.0	-2.7	214.0
1967	5.6	0.8	5.0	0.5	57.8	11.1	13.4	2.3	0.9	50.5	51.9	0.3	193.8	0.0	30.1	0.0	0.0	-4.8	225.5
1968	4.6	0.8	4.8	0.4	62.0	13.0	12.9	2.3	1.0	53.4	54.3	0.4	204.5	0.0	30.9	0.0	0.0	-2.1	238.8
1969	4.3	1.1	4.9	0.2	66.3	13.1	12.8	2.6	1.0	54.9	60.2	0.4	216.3	0.0	33.7	0.0	0.0	0.4	255.9
1970	**2.2**	**1.3**	**4.7**	**0.5**	**68.9**	**12.5**	**10.1**	**2.4**	**1.0**	**57.9**	**73.0**	**0.4**	**231.3**	**0.0**	**35.4**	**0.0**	**0.0**	**3.2**	**273.3**
1971	2.3	1.5	5.3	0.5	70.7	13.5	10.2	2.4	1.1	60.4	117.8	0.0	281.8	0.0	38.7	0.0	0.0	-0.2	324.1
1972	1.4	1.6	5.1	0.5	75.2	12.8	10.2	2.9	1.2	63.6	132.6	0.0	304.1	0.6	47.1	0.0	0.0	-6.4	348.3
1973	1.4	1.7	6.7	0.4	72.8	13.2	7.5	2.9	1.2	65.6	124.0	0.0	294.3	36.5	61.2	0.0	0.0	-48.3	346.9
1974	2.0	1.6	6.1	0.4	70.0	11.7	6.3	3.0	1.1	65.1	94.9	0.0	258.6	39.9	55.9	0.0	0.0	-37.0	321.0
1975	**1.3**	**2.0**	**4.6**	**0.4**	**67.0**	**10.8**	**5.9**	**3.6**	**1.0**	**66.4**	**62.4**	**0.0**	**222.1**	**49.6**	**42.7**	**0.0**	**0.0**	**-25.5**	**292.2**
1976	1.0	2.1	5.6	0.3	79.2	10.6	7.6	4.3	1.1	69.8	79.9	0.0	258.3	65.5	56.4	0.0	0.0	-40.5	342.9
1977	0.6	2.0	4.7	0.3	86.2	12.7	6.0	4.4	1.2	70.9	76.5	0.0	262.9	55.4	67.8	0.0	0.0	-32.4	356.4
1978	0.7	2.2	4.2	0.3	79.6	12.9	4.5	4.0	1.3	71.8	65.7	0.0	244.3	58.6	51.5	0.0	0.0	-17.7	339.6
1979	0.8	2.2	2.2	0.4	66.6	12.2	3.4	6.3	1.3	65.3	65.2	0.0	223.0	48.9	62.2	0.0	0.0	-20.9	316.2
1980	**3.0**	**2.3**	**2.9**	**0.4**	**61.9**	**10.2**	**2.9**	**3.2**	**1.2**	**61.8**	**53.8**	**0.0**	**198.3**	**48.0**	**64.2**	**0.0**	**0.0**	**-29.4**	**286.5**
1981	3.1	2.4	3.2	0.2	53.9	8.4	1.6	2.6	1.1	60.8	62.7	0.0	194.6	57.5	61.3	0.0	0.0	-37.1	281.8
1982	6.9	2.8	3.1	0.2	53.4	8.7	1.8	3.0	1.0	62.0	97.1	0.0	230.3	50.1	61.6	0.0	0.0	-20.3	331.4
1983	5.9	2.5	3.9	0.2	42.8	8.2	2.0	3.0	1.1	63.5	52.9	0.0	177.7	62.5	84.3	0.0	0.0	-49.3	283.6
1984	5.0	2.5	7.4	0.2	48.9	8.3	1.9	2.0	1.2	64.5	52.6	0.0	186.9	55.6	89.5	0.0	0.0	-48.5	290.9
1985	**5.1**	**2.6**	**14.5**	**0.2**	**55.8**	**8.9**	**2.7**	**2.3**	**1.1**	**65.9**	**41.1**	**0.0**	**192.5**	**57.9**	**34.9**	**0.0**	**0.0**	**7.6**	**300.7**
1986	9.3	2.5	4.9	0.3	67.0	8.8	1.9	3.7	1.1	70.6	61.0	0.0	219.2	67.4	57.3	0.0	0.0	-27.7	328.1
1987	6.8	2.7	5.7	0.3	69.7	9.9	2.3	4.5	1.2	73.9	49.0	0.0	216.4	43.6	65.8	0.0	0.0	-6.8	328.6
1988	6.9	3.3	10.5	0.3	79.9	11.6	2.6	5.9	1.2	80.8	64.0	0.0	256.8	53.9	60.7	0.0	0.0	-10.2	371.3
1989	6.8	3.7	6.6	0.3	71.5	12.4	2.6	6.0	1.2	74.5	51.1	0.0	226.2	74.4	48.9	0.0	0.0	-18.6	341.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 130. Residential Energy Consumption Estimates, 1960–1989, Maine

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**41**	**54**	**95**	**0**	**4,727**	**2,091**	**342**	**7,160**	**993**	**2,471**		
1961	39	49	88	0	5,593	2,614	377	8,585	1,047	2,552		
1962	34	43	76	0	5,902	2,297	427	8,626	1,097	2,637		
1963	29	40	70	0	6,380	2,456	481	9,318	1,131	2,704		
1964	18	39	57	0	5,743	1,830	524	8,097	1,172	2,792		
1965	**24**	**34**	**58**	**0**	**6,139**	**1,691**	**381**	**8,210**	**1,224**	**2,922**		
1966	23	29	51	*	5,688	1,507	401	7,596	1,294	3,104		
1967	14	26	39	*	6,765	1,750	395	8,910	1,347	3,217		
1968	7	24	31	*	7,028	2,100	419	9,548	1,455	3,472		
1969	5	21	27	*	7,456	2,096	418	9,970	1,569	3,749		
1970	**3**	**21**	**24**	**1**	**7,877**	**1,649**	**383**	**9,909**	**1,723**	**4,175**		
1971	3	20	22	1	7,919	1,666	375	9,961	1,888	4,564		
1972	3	15	18	1	8,422	1,659	441	10,522	2,129	5,125		
1973	3	15	17	1	8,168	1,214	455	9,837	2,263	5,419		
1974	3	13	16	1	7,938	1,026	501	9,465	2,408	5,872		
1975	**2**	**11**	**13**	**1**	**7,646**	**932**	**604**	**9,182**	**2,487**	**5,999**		
1976	1	10	11	1	9,067	1,215	754	11,036	2,771	6,674		
1977	2	10	11	1	9,947	952	800	11,699	2,859	6,905		
1978	0	8	8	1	9,060	692	709	10,461	2,996	7,330		
1979	0	6	6	1	7,284	541	927	8,751	3,016	7,279		
1980	**4**	**8**	**12**	**1**	**6,372**	**405**	**395**	**7,173**	**2,998**	**7,290**		
1981	2	20	22	1	5,222	233	345	5,800	3,033	7,229		
1982	10	15	25	1	4,941	272	404	5,617	3,182	7,642		
1983	8	11	19	1	3,241	266	460	3,966	3,218	7,709		
1984	10	13	23	1	3,324	273	244	3,840	3,369	7,823		
1985	**12**	**10**	**21**	**1**	**4,881**	**412**	**359**	**5,652**	**3,419**	**8,018**		
1986	17	8	25	1	5,683	317	529	6,528	3,578	8,203		
1987	12	8	21	1	5,462	361	785	6,609	3,726	8,491		
1988	10	5	16	1	5,970	362	939	7,271	3,904	8,816		
1989	6	5	11	1	5,678	393	976	7,047	4,009	8,993		
										Net Energy[4]		Total[4]
					Trillion Btu							
1960	**1.0**	**1.3**	**2.4**	**0.0**	**27.5**	**11.9**	**1.4**	**40.8**	**3.4**	**46.5**	**8.4**	**54.9**
1961	1.0	1.2	2.2	0.0	32.6	14.8	1.5	48.9	3.6	54.7	8.7	63.4
1962	0.9	1.0	1.9	0.0	34.4	13.0	1.7	49.1	3.7	54.8	9.0	63.8
1963	0.7	1.0	1.7	0.0	37.2	13.9	1.9	53.0	3.9	58.6	9.2	67.8
1964	0.5	0.9	1.4	0.0	33.5	10.4	2.1	45.9	4.0	51.3	9.5	60.9
1965	**0.6**	**0.8**	**1.4**	**0.0**	**35.8**	**9.6**	**1.5**	**46.9**	**4.2**	**52.5**	**10.0**	**62.4**
1966	0.6	0.7	1.3	0.3	33.1	8.5	1.6	43.3	4.4	49.3	10.6	59.9
1967	0.3	0.6	0.9	0.4	39.4	9.9	1.5	50.8	4.6	56.8	11.0	67.8
1968	0.2	0.6	0.7	0.4	40.9	11.9	1.6	54.4	5.0	60.5	11.8	72.4
1969	0.1	0.5	0.6	0.5	43.4	11.9	1.6	56.9	5.4	63.4	12.8	76.2
1970	**0.1**	**0.5**	**0.6**	**0.5**	**45.9**	**9.4**	**1.4**	**56.7**	**5.9**	**63.6**	**14.2**	**77.9**
1971	0.1	0.5	0.5	0.6	46.1	9.4	1.4	57.0	6.4	64.5	15.6	80.1
1972	0.1	0.4	0.4	0.6	49.1	9.4	1.7	60.1	7.3	68.4	17.5	85.9
1973	0.1	0.3	0.4	0.6	47.6	6.9	1.7	56.2	7.7	64.9	18.5	83.4
1974	0.1	0.3	0.4	0.6	46.2	5.8	1.9	53.9	8.2	63.1	20.0	83.2
1975	*	**0.2**	**0.3**	**0.7**	**44.5**	**5.3**	**2.2**	**52.1**	**8.5**	**61.6**	**20.5**	**82.1**
1976	*	0.2	0.2	0.8	52.8	6.9	2.8	62.5	9.5	73.0	22.8	95.8
1977	*	0.2	0.3	0.8	57.9	5.4	2.9	66.3	9.8	77.1	23.6	100.6
1978	0.0	0.2	0.2	0.8	52.8	3.9	2.6	59.3	10.2	70.5	25.0	95.5
1979	0.0	0.2	0.2	0.7	42.4	3.1	3.4	48.9	10.3	60.1	24.8	84.9
1980	**0.1**	**0.2**	**0.3**	**0.6**	**37.1**	**2.3**	**1.5**	**40.9**	**10.2**	**51.9**	**24.9**	**76.8**
1981	*	0.5	0.5	0.6	30.4	1.3	1.3	33.0	10.3	44.4	24.7	69.1
1982	0.2	0.4	0.6	0.6	28.8	1.5	1.5	31.8	10.9	43.9	26.1	69.9
1983	0.2	0.3	0.5	0.6	18.9	1.5	1.7	22.1	11.0	34.1	26.3	60.4
1984	0.3	0.3	0.6	0.6	19.4	1.5	0.9	21.8	11.5	34.4	26.7	61.1
1985	**0.3**	**0.2**	**0.5**	**0.5**	**28.4**	**2.3**	**1.3**	**32.1**	**11.7**	**44.8**	**27.4**	**72.1**
1986	0.4	0.2	0.6	0.6	33.1	1.8	1.9	36.8	12.2	50.2	28.0	78.2
1987	0.3	0.2	0.5	0.5	31.8	2.0	2.9	36.7	12.7	50.5	29.0	79.5
1988	0.3	0.1	0.4	0.6	34.8	2.1	3.4	40.3	13.3	54.6	30.1	84.6
1989	0.1	0.1	0.3	0.6	33.1	2.2	3.6	38.9	13.7	53.5	30.7	84.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 131. Commercial Energy Consumption Estimates, 1960-1989, Maine

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours	
1960	**76**	**36**	**111**	**0**	**996**	**100**	**60**	**29**	**145**	**1,331**	**542**	**1,349**
1961	72	33	104	0	1,179	126	67	31	135	1,536	596	1,452
1962	63	28	91	0	1,244	110	75	31	74	1,534	651	1,564
1963	55	27	82	0	1,344	118	85	33	76	1,656	696	1,664
1964	34	26	60	0	1,210	88	92	33	176	1,600	760	1,809
1965	**44**	**23**	**67**	**0**	**1,294**	**81**	**67**	**34**	**72**	**1,549**	**819**	**1,956**
1966	42	19	61	*	1,199	72	71	36	121	1,499	801	1,923
1967	26	17	43	*	1,425	84	70	37	120	1,736	738	1,763
1968	13	16	29	*	1,481	101	74	37	141	1,834	785	1,873
1969	10	14	24	*	1,571	101	74	38	220	2,003	874	2,087
1970	**6**	**14**	**19**	*	**1,660**	**79**	**68**	**40**	**292**	**2,139**	**975**	**2,364**
1971	5	13	18	*	1,669	80	66	41	659	2,514	1,054	2,548
1972	5	10	15	*	1,775	80	78	41	657	2,630	1,173	2,823
1973	5	10	15	*	1,721	58	80	32	609	2,501	1,257	3,008
1974	5	9	14	*	1,673	49	88	29	512	2,351	1,240	3,022
1975	**4**	**7**	**11**	**1**	**1,611**	**45**	**107**	**40**	**334**	**2,136**	**1,568**	**3,781**
1976	1	7	8	*	1,911	58	133	41	534	2,677	1,698	4,091
1977	3	7	10	1	2,096	46	141	42	552	2,877	1,750	4,227
1978	0	5	5	1	1,909	33	125	43	454	2,565	1,817	4,445
1979	0	4	4	1	1,535	26	164	45	397	2,166	1,721	4,153
1980	**8**	**5**	**13**	**1**	**1,840**	**70**	**70**	**48**	**682**	**2,710**	**1,717**	**4,175**
1981	3	13	16	1	1,741	45	61	53	360	2,260	1,787	4,259
1982	19	10	29	1	1,417	22	71	55	641	2,206	1,831	4,398
1983	15	8	23	1	1,401	68	85	99	742	2,394	1,917	4,592
1984	19	8	27	1	1,436	43	43	114	720	2,356	2,276	5,285
1985	**21**	**6**	**28**	**1**	**969**	**45**	**63**	**104**	**723**	**1,904**	**2,338**	**5,483**
1986	32	5	38	1	1,562	13	93	105	924	2,696	2,490	5,709
1987	23	6	28	1	1,484	24	139	93	496	2,234	2,642	6,020
1988	19	4	22	1	1,788	74	166	104	1,379	3,510	2,744	6,197
1989	11	3	14	2	1,621	46	172	115	837	2,792	2,826	6,339

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Total[4]
	Trillion Btu												
1960	**1.9**	**0.9**	**2.8**	**0.0**	**5.8**	**0.6**	**0.2**	**0.2**	**0.9**	**7.7**	**1.9**	**12.3**	**4.6**	**16.9**
1961	1.8	0.8	2.6	0.0	6.9	0.7	0.3	0.2	0.8	8.9	2.0	13.5	5.0	18.5
1962	1.6	0.7	2.3	0.0	7.2	0.6	0.3	0.2	0.5	8.8	2.2	13.3	5.3	18.6
1963	1.4	0.6	2.0	0.0	7.8	0.7	0.3	0.2	0.5	9.5	2.4	13.9	5.7	19.6
1964	0.9	0.6	1.5	0.0	7.0	0.5	0.4	0.2	1.1	9.2	2.6	13.3	6.2	19.4
1965	**1.1**	**0.5**	**1.7**	**0.0**	**7.5**	**0.5**	**0.3**	**0.2**	**0.5**	**8.9**	**2.8**	**13.4**	**6.7**	**20.0**
1966	1.0	0.5	1.5	0.2	7.0	0.4	0.3	0.2	0.8	8.6	2.7	13.1	6.6	19.6
1967	0.6	0.4	1.0	0.3	8.3	0.5	0.3	0.2	0.8	10.0	2.5	13.8	6.0	19.8
1968	0.3	0.4	0.7	0.2	8.6	0.6	0.3	0.2	0.9	10.6	2.7	14.2	6.4	20.5
1969	0.2	0.3	0.6	0.3	9.2	0.6	0.3	0.2	1.4	11.6	3.0	15.5	7.1	22.6
1970	**0.1**	**0.3**	**0.5**	**0.4**	**9.7**	**0.4**	**0.3**	**0.2**	**1.8**	**12.4**	**3.3**	**16.6**	**8.1**	**24.7**
1971	0.1	0.3	0.4	0.5	9.7	0.5	0.2	0.2	4.1	14.8	3.6	19.3	8.7	28.0
1972	0.1	0.2	0.4	0.5	10.3	0.5	0.3	0.2	4.1	15.4	4.0	20.3	9.6	29.9
1973	0.1	0.2	0.3	0.4	10.0	0.3	0.3	0.2	3.8	14.7	4.3	19.7	10.3	30.0
1974	0.1	0.2	0.3	0.5	9.7	0.3	0.3	0.2	3.2	13.7	4.2	18.7	10.3	29.0
1975	**0.1**	**0.2**	**0.3**	**0.5**	**9.4**	**0.3**	**0.4**	**0.2**	**2.1**	**12.3**	**5.3**	**18.5**	**12.9**	**31.4**
1976	*	0.2	0.2	0.5	11.1	0.3	0.5	0.2	3.4	15.5	5.8	22.0	14.0	36.0
1977	0.1	0.2	0.2	0.5	12.2	0.3	0.5	0.2	3.5	16.7	6.0	23.4	14.4	37.8
1978	0.0	0.1	0.1	0.6	11.1	0.2	0.5	0.2	2.9	14.9	6.2	21.8	15.2	36.9
1979	0.0	0.1	0.1	0.7	8.9	0.1	0.6	0.2	2.5	12.4	5.9	19.1	14.2	33.2
1980	**0.2**	**0.1**	**0.3**	**0.9**	**10.7**	**0.4**	**0.3**	**0.3**	**4.3**	**15.9**	**5.9**	**23.0**	**14.2**	**37.2**
1981	0.1	0.3	0.4	1.1	10.1	0.3	0.2	0.3	2.3	13.2	6.1	20.7	14.5	35.3
1982	0.5	0.2	0.7	1.2	8.3	0.1	0.3	0.3	4.0	13.0	6.2	21.1	15.0	36.1
1983	0.4	0.2	0.6	1.2	8.2	0.4	0.3	0.5	4.7	14.0	6.5	22.3	15.7	38.0
1984	0.5	0.2	0.7	1.2	8.4	0.2	0.2	0.6	4.5	13.9	7.8	23.5	18.0	41.5
1985	**0.5**	**0.1**	**0.7**	**1.2**	**5.6**	**0.3**	**0.2**	**0.5**	**4.5**	**11.2**	**8.0**	**21.1**	**18.7**	**39.8**
1986	0.8	0.1	0.9	1.3	9.1	0.1	0.3	0.6	5.8	15.9	8.5	26.6	19.5	46.0
1987	0.6	0.1	0.7	1.3	8.6	0.1	0.5	0.5	3.1	12.9	9.0	23.9	20.5	44.5
1988	0.5	0.1	0.6	1.5	10.4	0.4	0.6	0.5	8.7	20.7	9.4	32.1	21.1	53.2
1989	0.3	0.1	0.4	1.7	9.4	0.3	0.6	0.6	5.3	16.2	9.6	27.9	21.6	49.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 132. Industrial Energy Consumption Estimates, 1960–1989, Maine

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**554**	**8**	**562**	**0**	**729**	**402**	**103**	**38**	**42**	**166**	**2,639**	**10**	**4,130**	**906**	**1,246**	**3,100**		
1961	559	7	566	0	889	413	112	40	41	155	2,406	11	4,068	854	1,295	3,155		
1962	519	6	525	0	704	466	119	41	44	196	1,349	12	2,932	816	1,374	3,303		
1963	333	7	340	0	737	481	136	62	44	175	1,327	25	2,987	934	1,403	3,355		
1964	194	8	202	0	820	500	233	71	47	160	3,075	27	4,933	821	1,493	3,555		
1965	**184**	**7**	**191**	**0**	**745**	**500**	**280**	**100**	**54**	**145**	**1,270**	**25**	**3,117**	**697**	**1,715**	**4,094**		
1966	175	6	181	0	827	576	174	128	56	151	2,129	57	4,097	743	1,841	4,417		
1967	138	6	144	*	755	666	530	141	52	151	2,467	63	4,824	846	1,920	4,586		
1968	120	5	125	*	718	773	80	115	57	150	2,511	71	4,474	903	2,220	5,296		
1969	118	4	122	*	740	827	57	180	54	127	3,856	71	5,912	846	2,363	5,644		
1970	**44**	**4**	**48**	*	**701**	**805**	**54**	**182**	**55**	**137**	**5,128**	**72**	**7,134**	**940**	**2,370**	**5,743**		
1971	54	3	57	*	797	830	56	190	63	110	11,564	0	13,610	812	2,376	5,744		
1972	25	2	27	*	774	808	58	247	68	97	11,592	0	13,643	887	2,525	6,077		
1973	27	2	29	1	1,003	803	42	243	71	86	10,734	0	12,982	956	2,612	6,254		
1974	52	2	54	1	926	732	40	200	68	87	8,980	0	11,033	870	2,767	6,746		
1975	**30**	**2**	**32**	**1**	**696**	**682**	**59**	**250**	**59**	**79**	**5,848**	**0**	**7,674**	**832**	**2,477**	**5,976**		
1976	23	3	26	1	838	768	67	257	65	65	9,402	0	11,463	1,013	2,652	6,389		
1977	2	2	4	1	704	814	69	258	65	68	9,771	0	11,749	1,048	2,961	7,151		
1978	15	2	16	1	635	699	63	257	69	61	7,945	0	9,730	940	3,164	7,741		
1979	20	1	21	1	339	755	36	614	72	72	6,989	0	8,877	1,014	3,335	8,048		
1980	**97**	**2**	**99**	**1**	**435**	**762**	**29**	**400**	**65**	**76**	**4,047**	**0**	**5,812**	**974**	**3,470**	**8,438**		
1981	91	1	92	1	478	745	12	304	62	40	5,260	0	6,901	974	3,419	8,149		
1982	227	2	229	1	466	915	22	350	56	59	11,027	0	12,897	974	3,714	8,920		
1983	196	1	197	1	585	636	19	263	59	41	4,206	0	5,809	974	4,302	10,307		
1984	150	0	150	1	1,114	652	11	243	63	91	4,079	0	6,255	974	3,978	9,239		
1985	**155**	**2**	**157**	**1**	**2,185**	**456**	**15**	**198**	**59**	**124**	**2,369**	**0**	**5,405**	**974**	**4,067**	**9,537**		
1986	310	2	312	1	734	555	9	371	57	131	4,376	0	6,234	974	4,135	9,481		
1987	223	1	224	1	852	918	22	283	65	137	2,928	0	5,204	974	4,351	9,916		
1988	237	2	239	1	1,586	1,236	26	496	63	132	3,649	0	7,187	974	4,616	10,424		
1989	245	1	246	1	1,000	1,077	24	445	64	140	2,078	0	4,827	974	4,599	10,316		
					Trillion Btu													
1960	**14.3**	**0.2**	**14.5**	**0.0**	**4.8**	**2.3**	**0.6**	**0.2**	**0.3**	**0.9**	**16.6**	**0.1**	**25.7**	**9.7**	**4.3**	**54.2**	**10.6**	**64.8**
1961	14.5	0.2	14.6	0.0	5.9	2.4	0.6	0.2	0.2	0.8	15.1	0.1	25.4	9.1	4.4	53.5	10.8	64.3
1962	13.4	0.2	13.6	0.0	4.7	2.7	0.7	0.2	0.3	1.0	8.5	0.1	18.1	8.6	4.7	45.0	11.3	56.2
1963	8.6	0.2	8.8	0.0	4.9	2.8	0.8	0.3	0.3	0.9	8.3	0.1	18.4	9.8	4.8	41.7	11.4	53.2
1964	5.0	0.2	5.2	0.0	5.4	2.9	1.3	0.3	0.3	0.8	19.3	0.1	30.6	8.6	5.1	49.4	12.1	61.6
1965	**4.7**	**0.2**	**4.9**	**0.0**	**4.9**	**2.9**	**1.6**	**0.4**	**0.3**	**0.8**	**8.0**	**0.1**	**19.0**	**7.3**	**5.9**	**37.1**	**14.0**	**51.0**
1966	4.5	0.1	4.6	0.0	5.5	3.4	1.0	0.5	0.3	0.8	13.4	0.3	25.2	7.7	6.3	43.8	15.1	58.9
1967	3.5	0.1	3.6	0.1	5.0	3.9	3.0	0.5	0.3	0.8	15.5	0.3	29.4	8.8	6.5	48.5	15.6	64.2
1968	3.0	0.1	3.2	0.2	4.8	4.5	0.5	0.4	0.3	0.8	15.8	0.4	27.5	9.4	7.6	47.8	18.1	65.9
1969	3.0	0.1	3.1	0.3	4.9	4.8	0.3	0.7	0.3	0.7	24.2	0.4	36.4	8.8	8.1	56.6	19.3	75.9
1970	**1.1**	**0.1**	**1.2**	**0.4**	**4.7**	**4.7**	**0.3**	**0.7**	**0.3**	**0.7**	**32.2**	**0.4**	**44.0**	**9.9**	**8.1**	**63.5**	**19.6**	**83.1**
1971	1.3	0.1	1.4	0.4	5.3	4.8	0.3	0.7	0.4	0.6	72.7	0.0	84.8	8.5	8.1	103.2	19.6	122.8
1972	0.6	*	0.6	0.5	5.1	4.7	0.3	0.9	0.4	0.5	72.9	0.0	84.9	9.2	8.6	103.8	20.7	124.5
1973	0.6	*	0.7	0.6	6.7	4.7	0.2	0.9	0.4	0.5	67.5	0.0	80.8	9.9	8.9	101.0	21.3	122.3
1974	1.2	*	1.3	0.6	6.1	4.3	0.2	0.7	0.4	0.5	56.5	0.0	68.7	9.1	9.4	89.1	23.0	112.1
1975	**0.7**	**0.1**	**0.8**	**0.7**	**4.6**	**4.0**	**0.3**	**0.9**	**0.4**	**0.4**	**36.8**	**0.0**	**47.4**	**8.7**	**8.5**	**66.0**	**20.4**	**86.4**
1976	0.6	0.1	0.6	0.8	5.6	4.5	0.4	1.0	0.4	0.3	59.1	0.0	71.2	10.5	9.0	92.2	21.8	114.0
1977	*	0.1	0.1	0.8	4.7	4.7	0.4	0.9	0.4	0.4	61.4	0.0	72.9	10.9	10.1	94.8	24.4	119.2
1978	0.3	*	0.4	0.8	4.2	4.1	0.4	0.9	0.4	0.3	50.0	0.0	60.3	9.7	10.8	82.0	26.4	108.4
1979	0.5	*	0.5	0.8	2.2	4.4	0.2	2.3	0.4	0.4	43.9	0.0	53.9	10.5	11.4	77.0	27.5	104.5
1980	**2.4**	*	**2.4**	**0.8**	**2.9**	**4.4**	**0.2**	**1.5**	**0.4**	**0.4**	**25.4**	**0.0**	**35.2**	**10.1**	**11.8**	**60.3**	**28.8**	**89.1**
1981	2.2	*	2.2	0.7	3.2	4.3	0.1	1.1	0.4	0.2	33.1	0.0	42.3	10.2	11.7	67.1	27.8	94.9
1982	5.6	*	5.6	0.9	3.1	5.3	0.1	1.3	0.3	0.3	69.3	0.0	79.8	10.2	12.7	109.1	30.4	139.6
1983	4.8	*	4.9	0.8	3.9	3.7	0.1	0.9	0.4	0.2	26.4	0.0	35.7	10.2	14.7	66.2	35.2	101.4
1984	3.7	0.0	3.7	0.8	7.4	3.8	0.1	0.9	0.4	0.5	25.6	0.0	38.6	10.1	13.6	66.8	31.5	98.3
1985	**3.9**	*	**3.9**	**0.9**	**14.5**	**2.7**	**0.1**	**0.7**	**0.4**	**0.7**	**14.9**	**0.0**	**33.9**	**10.1**	**13.9**	**62.6**	**32.5**	**95.1**
1986	7.7	*	7.7	0.7	4.9	3.2	0.1	1.4	0.3	0.7	27.5	0.0	38.1	10.0	14.1	70.6	32.4	103.0
1987	5.6	*	5.6	0.9	5.7	5.3	0.1	1.0	0.4	0.7	18.4	0.0	31.7	10.0	14.8	63.0	33.8	96.8
1988	5.9	0.1	5.9	1.2	10.5	7.2	0.1	1.8	0.4	0.7	22.9	0.0	43.7	10.0	15.7	76.5	35.6	112.1
1989	6.1	*	6.1	1.4	6.6	6.3	0.1	1.6	0.4	0.7	13.1	0.0	28.9	10.1	15.7	62.1	35.2	97.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 133. Transportation Energy Consumption Estimates, 1960–1989, Maine

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**10**	**0**	**57**	**1,251**	**1,904**	**1**	**133**	**8,183**	**776**	**12,305**	**0**	**0**		
1961	3	0	53	1,059	1,937	1	130	8,295	1,409	12,885	0	0		
1962	2	0	87	966	2,089	1	121	8,337	1,362	12,962	0	0		
1963	1	0	64	1,149	2,140	2	121	8,492	1,308	13,275	0	0		
1964	1	0	112	1,259	2,196	2	127	8,603	864	13,163	0	0		
1965	**1**	**0**	**89**	**1,199**	**1,812**	**2**	**116**	**8,952**	**625**	**12,794**	**0**	**0**		
1966	1	0	149	1,296	1,885	2	120	9,233	1,274	13,959	0	0		
1967	*	*	104	963	2,074	2	104	9,426	1,004	13,678	0	0		
1968	*	0	79	1,251	2,419	2	114	9,982	989	14,837	0	0		
1969	*	0	42	1,430	2,424	2	112	10,279	773	15,063	0	0		
1970	*	**0**	**93**	**1,385**	**2,300**	**3**	**114**	**10,848**	**1,415**	**16,158**	**0**	**0**		
1971	*	0	89	1,499	2,472	3	116	11,348	1,625	17,152	0	0		
1972	*	0	92	1,648	2,357	4	124	11,967	3,414	19,606	0	0		
1973	*	0	87	1,659	2,417	5	121	12,377	3,510	20,176	0	0		
1974	*	0	80	1,584	2,150	5	116	12,271	1,614	17,820	0	0		
1975	*	**0**	**71**	**1,524**	**1,988**	**3**	**108**	**12,526**	**934**	**17,155**	**0**	**0**		
1976	*	0	63	1,817	1,941	4	120	13,183	909	18,038	0	0		
1977	*	0	66	1,920	2,316	5	132	13,378	538	18,355	0	0		
1978	0	0	64	1,974	2,344	8	141	13,562	311	18,405	0	0		
1979	0	0	72	1,825	2,211	7	148	12,323	753	17,339	0	0		
1980	**0**	*	**82**	**1,593**	**1,875**	**9**	**132**	**11,644**	**209**	**15,544**	**0**	**0**		
1981	0	*	47	1,500	1,547	4	126	11,476	634	15,336	0	0		
1982	0	*	37	1,835	1,595	12	115	11,693	638	15,925	0	0		
1983	0	*	45	2,011	1,505	15	121	11,949	17	15,663	0	0		
1984	0	*	43	2,936	1,520	16	129	12,075	16	16,736	0	0		
1985	**0**	*	**41**	**3,247**	**1,639**	**12**	**120**	**12,317**	**19**	**17,395**	**0**	**0**		
1986	0	*	58	3,662	1,615	18	117	13,201	49	18,720	0	0		
1987	0	*	53	4,063	1,813	13	133	13,843	60	19,977	0	0		
1988	0	*	66	4,670	2,103	23	128	15,152	290	22,432	0	0		
1989	0	*	68	3,848	2,249	25	131	13,932	185	20,439	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**0.3**	**0.0**	**0.3**	**7.3**	**10.2**	*	**0.8**	**43.0**	**4.9**	**66.4**	**0.0**	**66.7**	**0.0**	**66.7**
1961	0.1	0.0	0.3	6.2	10.4	*	0.8	43.6	8.9	70.0	0.0	70.1	0.0	70.1
1962	0.1	0.0	0.4	5.6	11.2	*	0.7	43.8	8.6	70.3	0.0	70.4	0.0	70.4
1963	*	0.0	0.3	6.7	11.5	*	0.7	44.6	8.2	72.0	0.0	72.1	0.0	72.1
1964	*	0.0	0.6	7.3	11.8	*	0.8	45.2	5.4	71.1	0.0	71.1	0.0	71.1
1965	*	**0.0**	**0.4**	**7.0**	**9.7**	*	**0.7**	**47.0**	**3.9**	**68.8**	**0.0**	**68.8**	**0.0**	**68.8**
1966	*	0.0	0.8	7.6	10.1	*	0.7	48.5	8.0	75.6	0.0	75.7	0.0	75.7
1967	*	*	0.5	5.6	11.1	*	0.6	49.5	6.3	73.7	0.0	73.7	0.0	73.7
1968	*	0.0	0.4	7.3	13.0	*	0.7	52.4	6.2	80.0	0.0	80.0	0.0	80.0
1969	*	0.0	0.2	8.3	13.1	*	0.7	54.0	4.9	81.2	0.0	81.2	0.0	81.2
1970	*	**0.0**	**0.5**	**8.1**	**12.5**	*	**0.7**	**57.0**	**8.9**	**87.6**	**0.0**	**87.6**	**0.0**	**87.6**
1971	*	0.0	0.5	8.7	13.5	*	0.7	59.6	10.2	93.2	0.0	93.2	0.0	93.2
1972	*	0.0	0.5	9.6	12.8	*	0.8	62.9	21.5	108.0	0.0	108.0	0.0	108.0
1973	*	0.0	0.4	9.7	13.2	*	0.7	65.0	22.1	111.2	0.0	111.2	0.0	111.2
1974	*	0.0	0.4	9.2	11.7	*	0.7	64.5	10.1	96.7	0.0	96.7	0.0	96.7
1975	*	**0.0**	**0.4**	**8.9**	**10.8**	*	**0.7**	**65.8**	**5.9**	**92.4**	**0.0**	**92.4**	**0.0**	**92.4**
1976	*	0.0	0.3	10.6	10.6	*	0.7	69.3	5.7	97.2	0.0	97.2	0.0	97.2
1977	*	0.0	0.3	11.2	12.7	*	0.8	70.3	3.4	98.7	0.0	98.7	0.0	98.7
1978	0.0	0.0	0.3	11.5	12.9	*	0.9	71.2	2.0	98.8	0.0	98.8	0.0	98.8
1979	0.0	0.0	0.4	10.6	12.2	*	0.9	64.7	4.7	93.6	0.0	93.6	0.0	93.6
1980	**0.0**	**0.1**	**0.4**	**9.3**	**10.2**	*	**0.8**	**61.2**	**1.3**	**83.2**	**0.0**	**83.3**	**0.0**	**83.3**
1981	0.0	*	0.2	8.7	8.4	*	0.8	60.3	4.0	82.5	0.0	82.5	0.0	82.5
1982	0.0	0.1	0.2	10.7	8.7	*	0.7	61.4	4.0	85.7	0.0	85.8	0.0	85.8
1983	0.0	*	0.2	11.7	8.2	0.1	0.7	62.8	0.1	83.8	0.0	83.8	0.0	83.8
1984	0.0	*	0.2	17.1	8.3	0.1	0.8	63.4	0.1	90.0	0.0	90.0	0.0	90.0
1985	**0.0**	*	**0.2**	**18.9**	**8.9**	*	**0.7**	**64.7**	**0.1**	**93.6**	**0.0**	**93.7**	**0.0**	**93.7**
1986	0.0	*	0.3	21.3	8.8	0.1	0.7	69.3	0.3	100.9	0.0	100.9	0.0	100.9
1987	0.0	*	0.3	23.7	9.9	*	0.8	72.7	0.4	107.8	0.0	107.8	0.0	107.8
1988	0.0	*	0.3	27.2	11.6	0.1	0.8	79.6	1.8	121.4	0.0	121.4	0.0	121.4
1989	0.0	*	0.3	22.4	12.4	0.1	0.8	73.2	1.2	110.4	0.0	110.4	0.0	110.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 134. Estimates of Energy Input at Electric Utilities, 1960-1989, Maine

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**17**	**0**	**17**	**0**	**1,847**	**38**	**0**	**1,885**	**0**	**2,087**	**0**	**0**	
1961	0	0	0	0	2,382	49	0	2,431	0	1,935	0	0	
1962	0	0	0	0	2,732	56	0	2,788	0	1,932	0	0	
1963	0	0	0	0	2,525	52	0	2,576	0	2,156	0	0	
1964	0	0	0	0	3,204	65	0	3,270	0	1,889	0	0	
1965	**0**	**0**	**0**	**0**	**4,373**	**89**	**0**	**4,462**	**0**	**1,593**	**0**	**0**	
1966	0	0	0	0	4,334	88	0	4,422	0	1,977	0	0	
1967	0	0	0	0	4,658	95	0	4,753	0	2,040	0	0	
1968	0	0	0	0	5,000	102	0	5,102	0	2,073	0	0	
1969	0	0	0	0	4,728	96	0	4,824	0	2,379	0	0	
1970	**0**	**0**	**0**	**0**	**4,770**	**95**	**0**	**4,865**	**0**	**2,429**	**0**	**0**	
1971	0	0	0	0	4,890	217	0	5,108	0	2,881	0	0	
1972	0	0	0	0	5,435	258	0	5,693	54	3,649	0	0	
1973	0	0	0	0	4,874	142	0	5,016	3,351	4,939	0	0	
1974	0	0	0	0	3,993	88	0	4,081	3,574	4,480	0	0	
1975	**0**	**0**	**0**	**0**	**2,812**	**42**	**0**	**2,854**	**4,502**	**3,268**	**0**	**0**	
1976	0	0	0	0	1,856	39	0	1,894	5,929	4,425	0	0	
1977	0	0	0	0	1,305	27	0	1,332	5,143	5,447	0	0	
1978	0	0	0	0	1,742	27	0	1,769	5,354	4,035	0	0	
1979	0	0	0	0	2,230	38	0	2,268	4,497	4,995	0	0	
1980	**0**	**0**	**0**	**0**	**3,620**	**61**	**0**	**3,680**	**4,404**	**5,203**	**0**	**0**	
1981	0	0	0	0	3,724	40	0	3,764	5,212	4,890	0	0	
1982	0	0	0	0	3,142	56	0	3,198	4,524	4,921	0	0	
1983	0	0	0	0	3,454	62	0	3,516	5,730	7,039	0	0	
1984	0	0	0	0	3,556	43	0	3,599	5,123	7,692	0	0	
1985	**0**	**0**	**0**	**0**	**3,432**	**28**	**0**	**3,461**	**5,354**	**2,405**	**0**	**0**	
1986	0	0	0	0	4,359	33	0	4,392	6,242	4,608	0	0	
1987	0	0	0	0	4,317	35	0	4,351	4,043	5,448	0	0	
1988	0	0	0	0	4,855	51	0	4,906	5,017	4,956	0	0	
1989	0	0	0	0	5,023	46	0	5,069	6,942	3,762	0	0	
					Trillion Btu								
1960	**0.5**	**0.0**	**0.5**	**0.0**	**11.6**	**0.2**	**0.0**	**11.8**	**0.0**	**22.5**	**0.0**	**0.0**	**34.8**
1961	0.0	0.0	0.0	0.0	15.0	0.3	0.0	15.3	0.0	20.6	0.0	0.0	35.9
1962	0.0	0.0	0.0	0.0	17.2	0.3	0.0	17.5	0.0	20.4	0.0	0.0	37.9
1963	0.0	0.0	0.0	0.0	15.9	0.3	0.0	16.2	0.0	22.6	0.0	0.0	38.8
1964	0.0	0.0	0.0	0.0	20.1	0.4	0.0	20.5	0.0	19.8	0.0	0.0	40.3
1965	**0.0**	**0.0**	**0.0**	**0.0**	**27.5**	**0.5**	**0.0**	**28.0**	**0.0**	**16.7**	**0.0**	**0.0**	**44.7**
1966	0.0	0.0	0.0	0.0	27.2	0.5	0.0	27.8	0.0	20.6	0.0	0.0	48.4
1967	0.0	0.0	0.0	0.0	29.3	0.6	0.0	29.8	0.0	21.3	0.0	0.0	51.1
1968	0.0	0.0	0.0	0.0	31.4	0.6	0.0	32.0	0.0	21.5	0.0	0.0	53.6
1969	0.0	0.0	0.0	0.0	29.7	0.6	0.0	30.3	0.0	24.9	0.0	0.0	55.1
1970	**0.0**	**0.0**	**0.0**	**0.0**	**30.0**	**0.6**	**0.0**	**30.5**	**0.0**	**25.5**	**0.0**	**0.0**	**56.0**
1971	0.0	0.0	0.0	0.0	30.7	1.3	0.0	32.0	0.0	30.2	0.0	0.0	62.2
1972	0.0	0.0	0.0	0.0	34.2	1.5	0.0	35.7	0.6	37.9	0.0	0.0	74.1
1973	0.0	0.0	0.0	0.0	30.6	0.8	0.0	31.5	36.5	51.3	0.0	0.0	119.3
1974	0.0	0.0	0.0	0.0	25.1	0.5	0.0	25.6	39.9	46.8	0.0	0.0	112.3
1975	**0.0**	**0.0**	**0.0**	**0.0**	**17.7**	**0.2**	**0.0**	**17.9**	**49.6**	**34.0**	**0.0**	**0.0**	**101.5**
1976	0.0	0.0	0.0	0.0	11.7	0.2	0.0	11.9	65.5	45.9	0.0	0.0	123.3
1977	0.0	0.0	0.0	0.0	8.2	0.2	0.0	8.4	55.4	56.8	0.0	0.0	120.6
1978	0.0	0.0	0.0	0.0	10.9	0.2	0.0	11.1	58.6	41.8	0.0	0.0	111.5
1979	0.0	0.0	0.0	0.0	14.0	0.2	0.0	14.2	48.9	51.7	0.0	0.0	114.9
1980	**0.0**	**0.0**	**0.0**	**0.0**	**22.8**	**0.4**	**0.0**	**23.1**	**48.0**	**54.0**	**0.0**	**0.0**	**125.2**
1981	0.0	0.0	0.0	0.0	23.4	0.2	0.0	23.6	57.5	51.1	0.0	0.0	132.3
1982	0.0	0.0	0.0	0.0	19.8	0.3	0.0	20.1	50.1	51.4	0.0	0.0	121.6
1983	0.0	0.0	0.0	0.0	21.7	0.4	0.0	22.1	62.5	74.1	0.0	0.0	158.6
1984	0.0	0.0	0.0	0.0	22.4	0.2	0.0	22.6	55.6	79.4	0.0	0.0	157.6
1985	**0.0**	**0.0**	**0.0**	**0.0**	**21.6**	**0.2**	**0.0**	**21.7**	**57.9**	**24.9**	**0.0**	**0.0**	**104.5**
1986	0.0	0.0	0.0	0.0	27.4	0.2	0.0	27.6	67.4	47.3	0.0	0.0	142.3
1987	0.0	0.0	0.0	0.0	27.1	0.2	0.0	27.3	43.6	55.9	0.0	0.0	126.8
1988	0.0	0.0	0.0	0.0	30.5	0.3	0.0	30.8	53.9	50.7	0.0	0.0	135.4
1989	0.0	0.0	0.0	0.0	31.6	0.3	0.0	31.8	74.4	38.9	0.0	0.0	145.2

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 135. Energy Consumption Estimates by Source, 1960-1989, Maryland

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**8,530**	**71**	**1,813**	**279**	**12,870**	**2,457**	**2,445**	**1,051**	**565**	**22,552**	**16,835**	**730**	**61,596**	**0**	**1,358**	**0**	**0**	**1,813**	
1961	8,666	74	2,369	268	14,235	2,905	2,870	1,078	550	23,048	12,980	749	61,053	0	1,139	0	0	2,788	
1962	9,501	82	2,421	451	15,116	3,343	2,867	1,258	645	24,489	13,567	796	64,954	0	1,148	0	0	1,659	
1963	10,373	86	2,676	559	15,889	2,554	2,564	1,469	645	25,753	13,181	1,096	66,386	0	971	0	0	456	
1964	11,321	92	2,802	505	16,807	2,710	2,435	1,469	677	26,386	14,211	1,485	69,486	0	1,112	0	0	21	
1965	**12,372**	**99**	**3,289**	**474**	**16,967**	**2,856**	**2,371**	**1,473**	**627**	**27,510**	**15,510**	**1,484**	**72,560**	**0**	**1,141**	**0**	**0**	**-5,190**	
1966	12,869	100	2,944	485	17,579	3,241	2,472	1,640	651	29,305	16,603	1,780	76,699	0	1,322	0	0	-4,714	
1967	13,347	118	2,975	464	17,500	3,966	2,362	1,417	526	30,555	12,313	1,782	73,859	0	1,923	0	0	-5,538	
1968	13,846	127	2,705	473	18,655	4,741	2,612	1,599	578	32,741	12,694	1,945	78,742	0	1,609	0	0	-3,037	
1969	13,609	144	2,565	362	18,520	4,632	2,419	1,699	613	34,787	15,605	1,994	83,196	0	1,359	0	0	3,066	
1970	**12,216**	**156**	**2,798**	**309**	**19,817**	**4,477**	**2,331**	**1,841**	**624**	**37,159**	**22,046**	**2,499**	**93,901**	**0**	**1,907**	**0**	**0**	**4,900**	
1971	10,765	161	2,955	291	20,003	4,104	2,575	1,923	612	38,914	29,863	1,355	102,597	0	1,773	0	0	8,580	
1972	8,821	176	3,090	266	21,350	3,845	1,804	2,279	655	41,424	36,955	1,499	113,167	0	2,282	0	0	2,978	
1973	9,974	174	3,844	259	22,919	3,658	1,084	2,506	618	42,872	41,442	1,228	120,429	0	2,165	0	0	9,340	
1974	8,795	172	3,796	270	22,469	3,247	1,185	2,360	592	42,375	39,025	1,169	116,488	0	1,969	0	0	2,286	
1975	**7,761**	**140**	**3,246**	**205**	**21,034**	**3,049**	**1,193**	**2,395**	**763**	**43,688**	**26,941**	**1,752**	**104,266**	**4,386**	**2,311**	**0**	**0**	**9,915**	
1976	9,607	148	3,385	200	20,205	3,125	1,022	2,738	847	45,544	27,570	1,517	106,155	6,420	2,088	0	0	5,913	
1977	7,510	133	3,479	204	21,670	3,401	990	2,801	724	46,934	26,375	1,803	108,381	10,881	2,018	0	0	3,849	
1978	8,323	136	3,895	178	21,216	3,295	883	2,549	777	47,874	27,451	1,761	109,880	9,896	1,735	0	0	3,846	
1979	9,500	172	3,520	145	23,768	3,237	1,472	2,050	813	44,482	24,027	1,681	105,195	9,674	2,191	0	0	8,631	
1980	**9,312**	**160**	**2,638**	**173**	**21,908**	**3,522**	**1,168**	**2,060**	**724**	**44,003**	**16,480**	**1,557**	**94,234**	**10,947**	**1,270**	**0**	**0**	**18,497**	
1981	8,376	175	3,014	128	18,609	3,537	879	2,015	695	44,412	13,134	2,017	88,440	11,523	1,426	0	0	26,139	
1982	8,597	158	3,123	74	16,314	3,573	805	2,039	633	44,193	11,966	1,730	84,451	10,345	1,341	0	0	26,749	
1983	9,083	146	4,312	72	18,472	3,797	658	2,050	663	44,252	10,937	1,569	86,782	11,676	1,765	0	0	23,249	
1984	10,595	159	5,016	67	18,657	3,658	409	2,341	707	45,428	9,972	2,223	88,478	11,651	2,022	0	41	17,836	
1985	**10,012**	**151**	**4,520**	**76**	**17,717**	**3,901**	**565**	**1,794**	**659**	**45,621**	**7,564**	**2,037**	**84,454**	**9,926**	**1,524**	**0**	**16**	**31,845**	
1986	10,749	153	5,211	101	17,385	3,889	474	1,433	644	46,915	6,435	3,195	85,683	12,828	1,876	0	38	22,808	
1987	11,311	169	4,823	87	18,077	3,771	693	1,653	729	48,104	7,955	4,033	89,923	10,070	1,612	0	51	36,311	
1988	11,757	173	4,350	94	18,551	4,481	705	1,733	703	49,190	9,356	3,872	93,034	11,734	1,328	0	57	32,433	
1989	11,541	190	4,500	83	20,581	4,384	491	2,232	721	49,100	13,426	3,076	98,596	2,719	1,778	0	14	51,050	
									Trillion Btu										
1960	**226.6**	**73.3**	**12.0**	**1.4**	**75.0**	**13.5**	**13.9**	**4.2**	**3.4**	**118.5**	**105.8**	**4.3**	**352.0**	**0.0**	**14.6**	**0.0**	**0.0**	**6.2**	**672.7**
1961	230.2	76.5	15.7	1.4	82.9	16.0	16.3	4.3	3.3	121.1	81.6	4.4	347.0	0.0	12.1	0.0	0.0	9.5	675.4
1962	252.3	84.8	16.1	2.3	88.1	18.4	16.3	5.0	3.9	128.6	85.3	4.7	368.7	0.0	12.1	0.0	0.0	5.7	723.6
1963	275.3	89.0	17.8	2.8	92.6	14.0	14.5	5.9	3.9	135.3	82.9	6.3	375.9	0.0	10.2	0.0	0.0	1.6	752.0
1964	300.6	94.3	18.6	2.5	97.9	14.8	13.8	5.9	4.1	138.6	89.3	8.3	393.9	0.0	11.6	0.0	0.0	0.1	800.5
1965	**327.4**	**101.0**	**21.8**	**2.4**	**98.8**	**15.7**	**13.4**	**5.9**	**3.8**	**144.5**	**97.5**	**8.2**	**412.2**	**0.0**	**11.9**	**0.0**	**0.0**	**-17.7**	**834.8**
1966	339.1	102.8	19.5	2.4	102.4	17.9	14.0	6.6	3.9	153.9	104.4	9.8	435.0	0.0	13.8	0.0	0.0	-16.1	874.5
1967	350.7	121.3	19.7	2.3	101.9	22.0	13.4	5.4	3.2	160.5	77.4	9.8	415.7	0.0	20.1	0.0	0.0	-18.9	888.9
1968	362.8	129.7	17.9	2.4	108.7	26.3	14.8	6.1	3.5	172.0	79.8	10.7	442.2	0.0	16.7	0.0	0.0	-10.4	941.1
1969	355.4	147.7	17.0	1.8	107.9	25.8	13.7	6.5	3.7	182.7	98.1	11.0	468.2	0.0	14.2	0.0	0.0	10.5	996.0
1970	**311.3**	**159.6**	**18.6**	**1.6**	**115.4**	**25.0**	**13.2**	**7.0**	**3.8**	**195.2**	**138.6**	**14.0**	**532.3**	**0.0**	**20.0**	**0.0**	**0.0**	**16.7**	**1,039.9**
1971	274.0	164.7	19.6	1.5	116.5	22.8	14.6	7.3	3.7	204.4	187.7	7.7	585.9	0.0	18.6	0.0	0.0	29.3	1,072.4
1972	226.4	180.3	20.5	1.3	124.4	21.4	10.2	8.6	4.0	217.6	232.3	8.5	648.9	0.0	23.7	0.0	0.0	10.2	1,089.4
1973	256.8	177.6	25.5	1.3	133.5	20.4	6.1	9.4	3.7	225.2	260.5	6.9	692.6	0.0	22.5	0.0	0.0	31.9	1,181.4
1974	217.5	175.5	25.2	1.4	130.9	18.0	6.7	8.8	3.6	222.6	245.4	6.6	669.1	0.0	20.6	0.0	0.0	7.8	1,090.5
1975	**197.2**	**141.9**	**21.5**	**1.0**	**122.5**	**16.9**	**6.8**	**8.9**	**4.6**	**229.5**	**169.4**	**10.1**	**591.3**	**48.3**	**24.0**	**0.0**	**0.0**	**33.8**	**1,036.5**
1976	245.3	149.6	22.5	1.0	117.7	17.4	5.8	10.2	5.1	239.2	173.3	8.7	600.9	70.9	21.7	0.0	0.0	20.2	1,108.7
1977	189.7	135.2	23.1	1.0	126.2	18.9	5.6	10.3	4.4	246.5	165.8	10.4	612.4	117.2	21.1	0.0	0.0	13.1	1,088.6
1978	209.7	139.6	25.8	0.9	123.6	18.4	5.0	9.4	4.7	251.5	172.6	10.1	621.9	108.3	18.0	0.0	0.0	13.1	1,110.6
1979	240.7	179.6	23.4	0.7	138.5	18.0	8.3	7.5	4.9	233.7	151.1	9.6	595.7	105.2	22.7	0.0	0.0	29.4	1,173.4
1980	**235.7**	**163.4**	**17.5**	**0.9**	**127.6**	**19.5**	**6.6**	**7.6**	**4.4**	**231.1**	**103.6**	**8.8**	**527.7**	**119.4**	**13.2**	**0.0**	**0.0**	**63.1**	**1,122.6**
1981	210.4	177.7	20.0	0.6	108.4	19.7	5.0	7.3	4.2	233.3	82.6	11.6	492.7	127.1	14.9	0.0	0.0	89.2	1,112.0
1982	217.3	160.8	20.7	0.4	95.0	19.9	4.6	7.4	3.8	232.1	75.2	9.9	469.0	114.6	14.0	0.0	0.0	91.3	1,066.9
1983	232.6	148.7	28.6	0.4	107.6	21.1	3.7	7.4	4.0	232.5	68.8	8.8	482.8	127.3	18.6	0.0	0.0	79.3	1,089.4
1984	270.2	163.1	33.3	0.3	108.7	20.3	2.3	8.4	4.3	238.6	62.7	12.5	491.4	126.3	20.9	0.0	0.4	60.9	1,133.2
1985	**256.2**	**156.0**	**30.0**	**0.4**	**103.2**	**21.7**	**3.2**	**6.5**	**4.0**	**239.6**	**47.6**	**11.6**	**467.7**	**107.3**	**15.8**	**0.0**	**0.2**	**108.7**	**1,111.8**
1986	275.0	158.0	34.6	0.5	101.3	21.6	2.7	5.2	3.9	246.4	40.5	17.9	474.7	138.5	19.3	0.0	0.4	77.8	1,143.7
1987	288.9	174.3	32.0	0.4	105.3	21.0	3.9	6.0	4.4	252.7	50.0	22.9	498.6	108.5	16.5	0.0	0.5	123.9	1,211.3
1988	301.2	178.4	28.9	0.5	108.1	25.0	4.0	6.3	4.3	258.4	58.8	22.1	516.3	126.1	13.6	0.0	0.6	110.7	1,246.8
1989	295.1	195.8	29.9	0.4	119.9	24.5	2.8	8.2	4.4	257.9	84.4	17.3	549.7	29.2	18.4	0.0	0.1	174.2	1,262.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 136. Residential Energy Consumption Estimates, 1960–1989, Maryland

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**78**	**37**	**116**	**46**	**6,053**	**2,234**	**617**	**8,903**	**2,772**	**6,895**		
1961	73	34	106	48	6,637	2,582	675	9,893	3,060	7,457		
1962	84	29	114	51	6,867	2,606	808	10,282	3,264	7,848		
1963	110	28	138	53	7,178	2,393	864	10,435	3,553	8,498		
1964	109	27	136	55	7,193	2,254	880	10,327	3,927	9,352		
1965	**68**	**23**	**91**	**57**	**7,191**	**2,177**	**893**	**10,261**	**4,384**	**10,466**		
1966	39	20	59	57	7,168	2,196	1,051	10,416	4,955	11,890		
1967	30	18	48	65	7,865	2,059	916	10,840	5,364	12,815		
1968	28	17	45	66	8,082	2,267	894	11,242	6,180	14,746		
1969	27	15	42	71	7,790	2,227	981	10,999	6,903	16,490		
1970	**20**	**14**	**35**	**73**	**8,234**	**2,166**	**1,007**	**11,407**	**7,690**	**18,635**		
1971	15	14	29	74	7,983	2,422	1,023	11,428	8,108	19,601		
1972	10	10	20	75	8,353	1,651	1,163	11,167	8,580	20,652		
1973	12	10	22	73	8,649	984	1,263	10,896	9,668	23,146		
1974	14	9	23	70	8,152	1,006	1,179	10,338	9,410	22,945		
1975	**7**	**8**	**15**	**69**	**8,453**	**1,014**	**1,242**	**10,708**	**9,660**	**23,300**		
1976	5	7	13	73	8,218	944	1,358	10,519	10,117	24,370		
1977	12	7	19	65	8,609	618	1,320	10,547	10,804	26,089		
1978	8	6	14	70	8,433	506	1,238	10,177	11,168	27,323		
1979	65	4	70	70	9,335	1,082	193	10,610	11,206	27,044		
1980	**10**	**5**	**15**	**68**	**8,797**	**830**	**740**	**10,367**	**12,119**	**29,469**		
1981	7	11	19	70	6,789	614	912	8,315	12,309	29,335		
1982	32	7	38	68	6,166	664	794	7,624	12,472	29,955		
1983	33	4	36	65	6,064	548	944	7,556	13,490	32,319		
1984	26	4	30	73	6,218	364	1,098	7,680	13,974	32,450		
1985	**40**	**4**	**44**	**68**	**5,023**	**505**	**1,016**	**6,544**	**14,319**	**33,579**		
1986	42	4	46	72	4,818	420	787	6,025	15,819	36,269		
1987	59	4	64	71	5,521	650	926	7,097	17,218	39,241		
1988	40	6	46	75	5,921	608	932	7,460	18,483	41,741		
1989	18	2	20	75	5,139	397	1,168	6,704	19,069	42,774		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**2.0**	**0.9**	**2.9**	**47.5**	**35.3**	**12.7**	**2.5**	**50.4**	**9.5**	**110.2**	**23.5**	**133.8**
1961	1.8	0.8	2.7	49.6	38.7	14.6	2.7	56.0	10.4	118.7	25.4	144.2
1962	2.1	0.7	2.8	52.7	40.0	14.8	3.2	58.0	11.1	124.7	26.8	151.5
1963	2.8	0.7	3.4	54.2	41.8	13.6	3.5	58.8	12.1	128.6	29.0	157.6
1964	2.7	0.6	3.4	56.5	41.9	12.8	3.5	58.2	13.4	131.5	31.9	163.4
1965	**1.7**	**0.6**	**2.3**	**58.1**	**41.9**	**12.3**	**3.6**	**57.8**	**15.0**	**133.1**	**35.7**	**168.8**
1966	1.0	0.5	1.4	58.6	41.8	12.5	4.2	58.4	16.9	135.4	40.6	176.0
1967	0.8	0.4	1.2	66.3	45.8	11.7	3.5	61.0	18.3	146.8	43.7	190.5
1968	0.7	0.4	1.1	68.0	47.1	12.9	3.4	63.3	21.1	153.5	50.3	203.8
1969	0.7	0.3	1.0	72.6	45.4	12.6	3.7	61.7	23.6	158.9	56.3	215.2
1970	**0.5**	**0.3**	**0.8**	**74.5**	**48.0**	**12.3**	**3.8**	**64.0**	**26.2**	**165.6**	**63.6**	**229.2**
1971	0.4	0.3	0.7	75.2	46.5	13.7	3.9	64.1	27.7	167.7	66.9	234.5
1972	0.2	0.2	0.5	76.5	48.7	9.4	4.4	62.4	29.3	168.7	70.5	239.2
1973	0.3	0.2	0.5	74.4	50.4	5.6	4.7	60.7	33.0	168.6	79.0	247.5
1974	0.3	0.2	0.5	71.3	47.5	5.7	4.4	57.6	32.1	161.5	78.3	239.8
1975	**0.2**	**0.2**	**0.3**	**70.1**	**49.2**	**5.7**	**4.6**	**59.6**	**33.0**	**163.0**	**79.5**	**242.5**
1976	0.1	0.2	0.3	74.5	47.9	5.4	5.0	58.3	34.5	167.5	83.2	250.7
1977	0.3	0.2	0.5	66.2	50.1	3.5	4.9	58.5	36.9	162.0	89.0	251.0
1978	0.2	0.1	0.3	72.1	49.1	2.9	4.5	56.5	38.1	167.1	93.2	260.3
1979	1.6	0.1	1.7	72.5	54.4	6.1	0.7	61.2	38.2	173.7	92.3	266.0
1980	**0.2**	**0.1**	**0.4**	**69.4**	**51.2**	**4.7**	**2.7**	**58.7**	**41.4**	**169.8**	**100.5**	**270.4**
1981	0.2	0.3	0.4	71.4	39.5	3.5	3.3	46.3	42.0	160.2	100.1	260.3
1982	0.8	0.2	0.9	68.7	35.9	3.8	2.9	42.6	42.6	154.8	102.2	257.0
1983	0.8	0.1	0.9	66.1	35.3	3.1	3.4	41.8	46.0	154.8	110.3	265.1
1984	0.6	0.1	0.7	74.9	36.2	2.1	4.0	42.2	47.7	165.6	110.7	276.3
1985	**1.0**	**0.1**	**1.1**	**70.7**	**29.3**	**2.9**	**3.7**	**35.8**	**48.9**	**156.5**	**114.6**	**271.0**
1986	1.0	0.1	1.1	74.5	28.1	2.4	2.9	33.3	54.0	162.9	123.8	286.6
1987	1.5	0.1	1.6	73.0	32.2	3.7	3.4	39.2	58.7	172.6	133.9	306.5
1988	1.0	0.2	1.1	77.3	34.5	3.4	3.4	41.3	63.1	182.8	142.4	325.3
1989	0.4	*	0.5	77.4	29.9	2.3	4.3	36.5	65.1	179.5	145.9	325.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 137. Commercial Energy Consumption Estimates, 1960-1989, Maryland

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**146**	**25**	**170**	**8**	**2,357**	**72**	**109**	**72**	**2,442**	**5,052**	**2,695**	**6,705**		
1961	135	23	157	9	2,584	84	119	80	1,817	4,683	2,783	6,782		
1962	157	20	176	10	2,674	84	143	81	1,560	4,542	2,977	7,157		
1963	205	19	224	10	2,795	77	152	83	1,597	4,705	3,207	7,670		
1964	202	18	220	11	2,801	73	155	86	1,850	4,964	3,531	8,409		
1965	**126**	**16**	**142**	**13**	**2,800**	**70**	**158**	**90**	**1,920**	**5,039**	**3,937**	**9,401**		
1966	72	13	85	13	2,791	71	186	92	2,216	5,356	4,414	10,591		
1967	56	12	68	19	3,062	67	162	94	1,623	5,008	4,818	11,511		
1968	52	11	63	21	3,147	73	158	98	1,396	4,872	5,296	12,636		
1969	50	10	60	24	3,033	72	173	102	1,580	4,961	5,813	13,885		
1970	**38**	**10**	**48**	**26**	**3,206**	**70**	**178**	**103**	**1,498**	**5,054**	**6,347**	**15,380**		
1971	28	9	37	28	3,109	78	180	106	2,540	6,013	6,797	16,432		
1972	19	7	26	30	3,252	53	205	106	2,500	6,117	7,260	17,475		
1973	22	7	29	30	3,368	32	223	112	2,596	6,330	7,946	19,022		
1974	26	6	32	30	3,174	33	208	118	1,888	5,420	7,658	18,671		
1975	**14**	**5**	**19**	**25**	**3,291**	**33**	**219**	**120**	**1,169**	**4,833**	**8,573**	**20,680**		
1976	10	5	15	28	3,200	31	240	124	1,396	4,990	9,012	21,707		
1977	23	5	27	28	3,352	20	233	112	1,265	4,982	8,848	21,366		
1978	15	4	19	27	3,283	16	218	123	1,002	4,643	9,043	22,122		
1979	121	3	124	32	3,635	35	34	123	1,095	4,922	9,156	22,096		
1980	**18**	**4**	**22**	**29**	**2,865**	**20**	**131**	**121**	**1,159**	**4,296**	**9,388**	**22,829**		
1981	14	8	21	32	1,568	16	161	137	208	2,090	9,578	22,827		
1982	59	4	64	31	1,770	88	140	137	452	2,587	9,696	23,289		
1983	61	2	63	31	2,789	41	167	164	561	3,721	10,121	24,247		
1984	47	3	50	25	2,860	20	194	151	544	3,769	9,463	21,975		
1985	**74**	**3**	**77**	**24**	**1,942**	**41**	**179**	**170**	**175**	**2,507**	**9,627**	**22,575**		
1986	77	3	80	24	1,541	25	139	174	549	2,428	10,265	23,535		
1987	110	3	113	26	1,935	13	163	180	1,282	3,574	10,875	24,785		
1988	73	4	77	26	1,862	29	164	170	527	2,752	11,549	26,082		
1989	33	1	34	27	2,004	43	206	197	565	3,016	10,648	23,884		
							Trillion Btu							
1960	**3.7**	**0.6**	**4.3**	**8.3**	**13.7**	**0.4**	**0.4**	**0.4**	**15.4**	**30.3**	**9.2**	**52.1**	**22.9**	**75.0**
1961	3.4	0.6	3.9	9.1	15.1	0.5	0.5	0.4	11.4	27.8	9.5	50.4	23.1	73.5
1962	3.9	0.5	4.4	10.0	15.6	0.5	0.6	0.4	9.8	26.9	10.2	51.4	24.4	75.8
1963	5.1	0.4	5.6	10.8	16.3	0.4	0.6	0.4	10.0	27.8	10.9	55.1	26.2	81.3
1964	5.1	0.4	5.5	11.8	16.3	0.4	0.6	0.5	11.6	29.4	12.0	58.7	28.7	87.4
1965	**3.1**	**0.4**	**3.5**	**13.3**	**16.3**	**0.4**	**0.6**	**0.5**	**12.1**	**29.9**	**13.4**	**60.2**	**32.1**	**92.2**
1966	1.8	0.3	2.1	13.8	16.3	0.4	0.7	0.5	13.9	31.8	15.1	62.8	36.1	98.9
1967	1.4	0.3	1.7	19.9	17.8	0.4	0.6	0.5	10.2	29.5	16.4	67.5	39.3	106.8
1968	1.3	0.3	1.6	21.5	18.3	0.4	0.6	0.5	8.8	28.6	18.1	69.8	43.1	112.9
1969	1.2	0.2	1.5	24.5	17.7	0.4	0.7	0.5	9.9	29.2	19.8	75.0	47.4	122.4
1970	**0.9**	**0.2**	**1.1**	**26.5**	**18.7**	**0.4**	**0.7**	**0.5**	**9.4**	**29.7**	**21.7**	**79.0**	**52.5**	**131.4**
1971	0.7	0.2	0.9	28.9	18.1	0.4	0.7	0.6	16.0	35.8	23.2	88.7	56.1	144.8
1972	0.4	0.2	0.6	31.0	18.9	0.3	0.8	0.6	15.7	36.3	24.8	92.7	59.6	152.3
1973	0.5	0.2	0.7	30.3	19.6	0.2	0.8	0.6	16.3	37.5	27.1	95.6	64.9	160.5
1974	0.6	0.1	0.8	30.4	18.5	0.2	0.8	0.6	11.9	31.9	26.1	89.2	63.7	152.9
1975	**0.3**	**0.1**	**0.4**	**25.5**	**19.2**	**0.2**	**0.8**	**0.6**	**7.4**	**28.2**	**29.3**	**83.4**	**70.6**	**153.9**
1976	0.2	0.1	0.3	28.6	18.6	0.2	0.9	0.7	8.8	29.1	30.7	88.8	74.1	162.9
1977	0.5	0.1	0.6	28.0	19.5	0.1	0.9	0.6	8.0	29.0	30.2	87.9	72.9	160.8
1978	0.4	0.1	0.5	28.2	19.1	0.1	0.8	0.6	6.3	27.0	30.9	86.5	75.5	162.0
1979	3.0	0.1	3.0	32.9	21.2	0.2	0.1	0.6	6.9	29.0	31.2	96.2	75.4	171.6
1980	**0.4**	**0.1**	**0.5**	**29.1**	**16.7**	**0.1**	**0.5**	**0.6**	**7.3**	**25.2**	**32.0**	**86.9**	**77.9**	**164.8**
1981	0.3	0.2	0.5	32.5	9.1	0.1	0.6	0.7	1.3	11.8	32.7	77.5	77.9	155.4
1982	1.5	0.1	1.6	31.4	10.3	0.5	0.5	0.7	2.8	14.9	33.1	80.9	79.5	160.4
1983	1.5	0.1	1.6	31.4	16.2	0.2	0.6	0.9	3.5	21.5	34.5	89.0	82.7	171.7
1984	1.2	0.1	1.2	26.0	16.7	0.1	0.7	0.8	3.4	21.7	32.3	81.2	75.0	156.2
1985	**1.8**	**0.1**	**1.9**	**25.0**	**11.3**	**0.2**	**0.6**	**0.9**	**1.1**	**14.2**	**32.8**	**73.9**	**77.0**	**150.9**
1986	1.9	0.1	2.0	24.7	9.0	0.1	0.5	0.9	3.4	14.0	35.0	75.7	80.3	156.0
1987	2.7	0.1	2.8	26.4	11.3	0.1	0.6	0.9	8.1	20.9	37.1	87.3	84.6	171.8
1988	1.8	0.1	1.9	26.7	10.8	0.2	0.6	0.9	3.3	15.8	39.4	83.9	89.0	172.8
1989	0.8	*	0.9	27.7	11.7	0.2	0.8	1.0	3.6	17.3	36.3	82.2	81.5	163.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 138. Industrial Energy Consumption Estimates, 1960–1989, Maryland

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**5,063**	**4**	**5,067**	**16**	**1,813**	**2,093**	**138**	**317**	**247**	**670**	**10,333**	**730**	**16,341**	**1**	**3,269**	**8,131**
1961	5,098	3	5,102	16	2,369	2,481	205	273	241	626	7,873	749	14,818	1	3,524	8,589
1962	5,489	3	5,492	20	2,421	2,525	176	295	333	581	6,934	796	14,062	1	3,831	9,210
1963	5,711	4	5,714	22	2,676	2,618	94	441	333	511	6,941	1,096	14,711	*	4,210	10,068
1964	6,164	4	6,168	24	2,802	2,780	107	420	350	454	7,847	1,485	16,247	1	4,719	11,238
1965	**6,097**	**4**	**6,101**	**28**	**3,289**	**3,177**	**124**	**412**	**316**	**439**	**8,296**	**1,484**	**17,536**	**1**	**5,073**	**12,113**
1966	6,003	3	6,006	28	2,944	3,479	204	387	328	397	9,435	1,780	18,956	*	5,719	13,724
1967	6,051	3	6,054	32	2,975	3,153	236	323	264	373	7,214	1,782	16,319	*	6,286	15,017
1968	6,192	3	6,194	37	2,705	3,280	272	532	289	353	6,264	1,945	15,639	*	6,845	16,332
1969	6,665	2	6,667	41	2,565	3,462	120	526	319	289	6,918	1,994	16,193	*	7,522	17,968
1970	**6,172**	**2**	**6,174**	**44**	**2,798**	**3,248**	**95**	**624**	**325**	**261**	**6,672**	**2,499**	**16,522**	*	**8,469**	**20,524**
1971	5,318	1	5,319	48	2,955	3,436	75	678	295	235	10,997	1,355	20,027	*	9,265	22,401
1972	4,319	1	4,320	61	3,090	3,879	99	866	316	188	10,292	1,499	20,229	0	9,426	22,690
1973	6,017	1	6,018	61	3,844	4,285	68	972	309	186	10,869	1,228	21,760	0	10,125	24,240
1974	4,526	1	4,527	57	3,796	3,639	146	921	296	182	7,669	1,169	17,818	0	9,793	23,878
1975	**3,853**	**1**	**3,854**	**43**	**3,246**	**3,434**	**146**	**888**	**456**	**293**	**4,983**	**1,752**	**15,200**	**0**	**9,069**	**21,875**
1976	4,495	1	4,496	44	3,385	3,301	48	1,079	507	128	5,848	1,517	15,813	0	10,803	26,022
1977	3,040	1	3,041	38	3,479	3,665	351	1,175	414	78	5,501	1,803	16,467	0	11,827	28,558
1978	3,444	1	3,445	36	3,895	3,396	361	1,001	444	69	4,240	1,761	15,168	0	12,234	29,930
1979	4,020	1	4,021	59	3,520	3,942	355	1,793	465	51	4,738	1,681	16,544	0	13,103	31,622
1980	**3,366**	**1**	**3,367**	**54**	**2,638**	**3,297**	**318**	**1,163**	**414**	**145**	**2,669**	**1,557**	**12,201**	**0**	**13,057**	**31,750**
1981	3,136	3	3,139	64	3,014	3,093	249	865	397	148	1,619	2,017	11,403	0	13,670	32,580
1982	2,723	6	2,729	56	3,123	2,336	53	1,056	362	110	1,391	1,730	10,161	0	12,754	30,634
1983	2,761	1	2,762	46	4,312	2,337	69	882	379	117	2,955	1,569	12,619	0	13,048	31,260
1984	3,012	1	3,013	57	5,016	2,396	25	987	404	273	2,866	2,223	14,191	0	14,895	34,588
1985	**2,844**	**2**	**2,846**	**55**	**4,520**	**2,547**	**20**	**551**	**377**	**299**	**710**	**2,037**	**11,061**	**0**	**15,312**	**35,906**
1986	2,661	2	2,663	53	5,211	2,087	29	480	368	322	600	3,195	12,293	0	15,808	36,243
1987	2,904	2	2,906	58	4,823	1,663	29	536	417	332	563	4,033	12,396	0	16,745	38,163
1988	2,613	1	2,614	64	4,350	1,718	67	592	402	353	777	3,872	12,131	0	17,446	39,398
1989	2,413	1	2,414	66	4,500	2,105	51	811	412	343	431	3,076	11,730	0	19,456	43,641

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu																	
1960	**134.9**	**0.1**	**135.0**	**16.6**	**12.0**	**12.2**	**0.8**	**1.3**	**1.5**	**3.5**	**65.0**	**4.3**	**100.6**	*	**11.2**	**263.3**	**27.7**	**291.0**
1961	135.8	0.1	135.9	16.7	15.7	14.5	1.2	1.1	1.5	3.3	49.5	4.4	91.1	*	12.0	255.7	29.3	285.0
1962	146.3	0.1	146.4	20.8	16.1	14.7	1.0	1.2	2.0	3.1	43.6	4.7	86.3	*	13.1	266.6	31.4	298.0
1963	151.9	0.1	151.9	22.8	17.8	15.2	0.5	1.8	2.0	2.7	43.6	6.3	90.0	*	14.4	279.1	34.4	313.4
1964	164.0	0.1	164.1	24.7	18.6	16.2	0.6	1.7	2.1	2.4	49.3	8.3	99.2	*	16.1	304.2	38.3	342.5
1965	**162.3**	**0.1**	**162.4**	**28.3**	**21.8**	**18.5**	**0.7**	**1.7**	**1.9**	**2.3**	**52.2**	**8.2**	**107.3**	*	**17.3**	**315.3**	**41.3**	**356.6**
1966	159.6	0.1	159.7	28.8	19.5	20.3	1.2	1.6	2.0	2.1	59.3	9.8	115.7	*	19.5	323.7	46.8	370.6
1967	161.1	0.1	161.1	32.8	19.7	18.4	1.3	1.2	1.6	2.0	45.4	9.8	99.4	*	21.4	314.8	51.2	366.0
1968	164.3	0.1	164.4	38.3	17.9	19.1	1.5	2.0	1.8	1.9	39.4	10.7	94.3	*	23.4	320.4	55.7	376.1
1969	176.4	*	176.4	41.9	17.0	20.2	0.7	2.0	1.9	1.5	43.5	11.0	97.8	*	25.7	341.7	61.3	403.0
1970	**162.6**	*	**162.7**	**44.9**	**18.6**	**18.9**	**0.5**	**2.4**	**2.0**	**1.4**	**41.9**	**14.0**	**99.6**	*	**28.9**	**336.0**	**70.0**	**406.1**
1971	140.1	*	140.1	48.8	19.6	20.0	0.4	2.6	1.8	1.2	69.1	7.7	122.5	*	31.6	343.0	76.4	419.5
1972	113.4	*	113.5	62.1	20.5	22.6	0.6	3.3	1.9	1.0	64.7	8.5	123.1	0.0	32.2	330.8	77.4	408.2
1973	158.3	*	158.4	61.8	25.5	25.0	0.4	3.6	1.9	1.0	68.3	6.9	132.6	0.0	34.5	387.3	82.7	470.0
1974	119.0	*	119.0	58.7	25.2	21.2	0.8	3.4	1.8	1.0	48.2	6.6	108.2	0.0	33.4	319.3	81.5	400.8
1975	**102.2**	*	**102.2**	**43.6**	**21.5**	**20.0**	**0.8**	**3.3**	**2.8**	**1.5**	**31.3**	**10.1**	**91.4**	**0.0**	**30.9**	**268.1**	**74.6**	**342.8**
1976	119.9	*	119.9	44.1	22.5	19.2	0.3	4.0	3.1	0.7	36.8	8.7	95.2	0.0	36.9	296.1	88.8	384.9
1977	80.7	*	80.7	38.5	23.1	21.3	2.0	4.3	2.5	0.4	34.6	10.4	98.7	0.0	40.4	258.2	97.4	355.7
1978	90.7	*	90.7	36.8	25.8	19.8	2.0	3.7	2.7	0.4	26.7	10.1	91.1	0.0	41.7	260.4	102.1	362.5
1979	106.1	*	106.1	61.3	23.4	23.0	2.0	6.6	2.8	0.3	29.8	9.6	97.4	0.0	44.7	309.5	107.9	417.4
1980	**88.5**	*	**88.6**	**55.5**	**17.5**	**19.2**	**1.8**	**4.3**	**2.5**	**0.8**	**16.8**	**8.8**	**71.7**	**0.0**	**44.6**	**260.3**	**108.3**	**368.6**
1981	81.9	0.1	82.0	65.3	20.0	18.0	1.4	3.2	2.4	0.8	10.2	11.6	67.5	0.0	46.6	261.5	111.2	372.7
1982	71.5	0.1	71.6	57.2	20.7	13.6	0.3	3.8	2.2	0.6	8.7	9.9	59.8	0.0	43.5	232.2	104.5	336.7
1983	72.5	*	72.5	47.2	28.6	13.6	0.4	3.2	2.3	0.6	18.6	8.8	76.1	0.0	44.5	240.3	106.7	347.0
1984	78.9	*	78.9	58.8	33.3	14.0	0.1	3.6	2.5	1.4	18.0	12.5	85.3	0.0	50.8	273.6	118.0	391.8
1985	**74.7**	*	**74.8**	**56.5**	**30.0**	**14.8**	**0.1**	**2.0**	**2.3**	**1.6**	**4.5**	**11.6**	**66.8**	**0.0**	**52.2**	**250.4**	**122.5**	**372.9**
1986	69.8	*	69.9	54.4	34.6	12.2	0.2	1.7	2.2	1.7	3.8	17.9	74.3	0.0	53.9	252.5	123.7	376.2
1987	75.8	0.1	75.9	60.4	32.0	9.7	0.2	2.0	2.5	1.7	3.5	22.9	74.5	0.0	57.1	267.9	130.2	398.1
1988	68.6	*	68.6	66.2	28.9	10.0	0.4	2.2	2.4	1.9	4.9	22.1	72.7	0.0	59.5	267.0	134.4	401.4
1989	63.3	*	63.3	68.3	29.9	12.3	0.3	3.0	2.5	1.8	2.7	17.3	69.7	0.0	66.4	267.7	148.9	416.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 139. Transportation Energy Consumption Estimates, 1960–1989, Maryland

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**89**	**1**	**279**	**2,352**	**2,457**	**9**	**318**	**21,810**	**3,893**	**31,117**	**20**	**49**		
1961	24	1	268	2,515	2,905	11	309	22,342	3,107	31,457	21	51		
1962	22	1	451	3,033	3,343	13	311	23,826	4,886	35,863	21	51		
1963	22	1	559	3,277	2,554	12	311	25,159	4,422	36,293	16	39		
1964	23	1	505	4,010	2,710	13	327	25,845	4,270	37,681	0	0		
1965	**20**	**1**	**474**	**3,774**	**2,856**	**10**	**310**	**26,981**	**5,024**	**39,429**	**0**	**0**		
1966	18	1	485	4,115	3,241	16	323	28,816	4,685	41,680	0	0		
1967	15	2	464	3,385	3,966	16	263	30,088	3,109	41,291	0	0		
1968	14	1	473	4,016	4,741	16	289	32,290	3,656	45,480	0	0		
1969	11	2	362	3,867	4,632	19	294	34,396	3,245	46,814	0	0		
1970	**10**	**2**	**309**	**4,184**	**4,477**	**32**	**299**	**36,795**	**3,931**	**50,027**	**0**	**0**		
1971	7	2	291	3,917	4,104	41	317	38,573	3,091	50,336	0	0		
1972	4	4	266	4,384	3,634	44	340	41,130	3,280	53,078	0	0		
1973	4	2	259	5,344	3,506	48	310	42,573	3,685	55,725	0	0		
1974	2	2	270	5,236	3,123	51	296	42,076	3,647	54,699	0	0		
1975	**1**	**2**	**205**	**5,244**	**2,973**	**46**	**307**	**43,275**	**2,807**	**54,856**	**0**	**0**		
1976	*	2	200	4,979	3,050	62	341	45,292	3,304	57,227	0	0		
1977	*	2	204	5,589	3,294	73	310	46,744	3,085	59,300	0	0		
1978	0	2	178	5,395	3,250	91	333	47,682	3,269	60,199	6	14		
1979	0	2	145	6,271	3,223	30	348	44,307	4,101	58,425	13	32		
1980	**0**	**4**	**173**	**5,848**	**3,512**	**26**	**310**	**43,737**	**4,514**	**58,121**	**22**	**53**		
1981	0	2	128	6,342	3,524	76	297	44,127	4,745	59,239	26	62		
1982	0	2	74	5,291	3,573	49	271	43,946	4,184	57,388	25	60		
1983	0	2	72	6,365	3,797	58	284	43,972	1,862	56,411	23	55		
1984	0	2	67	6,217	3,658	62	303	45,004	1,753	57,064	42	98		
1985	**0**	**2**	**76**	**7,375**	**3,901**	**46**	**282**	**45,152**	**1,547**	**58,380**	**69**	**161**		
1986	0	2	101	8,191	3,889	27	276	46,420	1,032	59,936	69	158		
1987	0	2	87	8,152	3,771	27	312	47,591	1,746	61,687	69	157		
1988	0	3	94	8,193	4,481	45	301	48,667	2,043	63,824	85	193		
1989	0	2	83	10,078	4,384	48	309	48,560	2,023	65,484	85	192		
							Trillion Btu					Net Energy[4]		Total[4]
1960	**2.3**	**0.9**	**1.4**	**13.7**	**13.5**	*	**1.9**	**114.6**	**24.5**	**169.6**	**0.1**	**172.8**	**0.2**	**173.0**
1961	0.6	1.0	1.4	14.7	16.0	*	1.9	117.4	19.5	170.8	0.1	172.5	0.2	172.7
1962	0.6	1.2	2.3	17.7	18.4	0.1	1.9	125.2	30.7	196.2	0.1	198.1	0.2	198.2
1963	0.6	1.2	2.8	19.1	14.0	*	1.9	132.2	27.8	197.8	0.1	199.5	0.1	199.7
1964	0.6	1.2	2.5	23.4	14.8	0.1	2.0	135.8	26.8	205.4	0.0	207.2	0.0	207.2
1965	**0.5**	**1.2**	**2.4**	**22.0**	**15.7**	*	**1.9**	**141.7**	**31.6**	**215.4**	**0.0**	**217.1**	**0.0**	**217.1**
1966	0.5	1.5	2.4	24.0	17.9	0.1	2.0	151.4	29.5	227.2	0.0	229.1	0.0	229.1
1967	0.4	1.9	2.3	19.7	22.0	0.1	1.6	158.1	19.5	223.3	0.0	225.5	0.0	225.5
1968	0.3	1.5	2.4	23.4	26.3	0.1	1.8	169.6	23.0	246.5	0.0	248.3	0.0	248.3
1969	0.3	2.0	1.8	22.5	25.8	0.1	1.8	180.7	20.4	253.1	0.0	255.4	0.0	255.4
1970	**0.2**	**2.1**	**1.6**	**24.4**	**25.0**	**0.1**	**1.8**	**193.3**	**24.7**	**270.8**	**0.0**	**273.1**	**0.0**	**273.1**
1971	0.2	2.1	1.5	22.8	22.8	0.2	1.9	202.6	19.4	271.3	0.0	273.6	0.0	273.6
1972	0.1	3.6	1.3	25.5	20.2	0.2	2.1	216.1	20.6	286.0	0.0	289.7	0.0	289.7
1973	0.1	2.4	1.3	31.1	19.5	0.2	1.9	223.6	23.2	300.8	0.0	303.3	0.0	303.3
1974	0.1	1.8	1.4	30.5	17.3	0.2	1.8	221.0	22.9	295.1	0.0	297.0	0.0	297.0
1975	*	**2.2**	**1.0**	**30.5**	**16.5**	**0.2**	**1.9**	**227.3**	**17.6**	**295.1**	**0.0**	**297.3**	**0.0**	**297.3**
1976	*	2.3	1.0	29.0	17.0	0.2	2.1	237.9	20.8	308.0	0.0	310.2	0.0	310.2
1977	*	2.1	1.0	32.6	18.3	0.3	1.9	245.5	19.4	319.0	0.0	321.1	0.0	321.1
1978	0.0	1.9	0.9	31.4	18.1	0.3	2.0	250.5	20.6	323.8	*	325.8	*	325.8
1979	0.0	2.4	0.7	36.5	17.9	0.1	2.1	232.7	25.8	315.9	*	318.4	0.1	318.5
1980	**0.0**	**4.0**	**0.9**	**34.1**	**19.5**	**0.1**	**1.9**	**229.8**	**28.4**	**314.5**	**0.1**	**318.6**	**0.2**	**318.8**
1981	0.0	2.4	0.6	36.9	19.6	0.3	1.8	231.8	29.8	320.9	0.1	323.4	0.2	323.6
1982	0.0	2.5	0.4	30.8	19.9	0.2	1.6	230.8	26.3	310.0	0.1	312.6	0.2	312.8
1983	0.0	2.1	0.4	37.1	21.1	0.2	1.7	231.0	11.7	303.2	0.1	305.4	0.2	305.6
1984	0.0	2.2	0.3	36.2	20.3	0.2	1.8	236.4	11.0	306.3	0.1	308.6	0.3	309.0
1985	**0.0**	**2.3**	**0.4**	**43.0**	**21.7**	**0.2**	**1.7**	**237.2**	**9.7**	**313.8**	**0.2**	**316.4**	**0.5**	**316.9**
1986	0.0	2.1	0.5	47.7	21.6	0.1	1.7	243.8	6.5	322.0	0.2	324.3	0.5	324.9
1987	0.0	2.2	0.4	47.5	21.0	0.1	1.9	250.0	11.0	331.8	0.2	334.3	0.5	334.8
1988	0.0	2.7	0.5	47.7	25.0	0.2	1.8	255.6	12.8	343.7	0.3	346.6	0.7	347.3
1989	0.0	2.3	0.4	58.7	24.5	0.2	1.9	255.1	12.7	353.5	0.3	356.0	0.7	356.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 140. Estimates of Energy Input at Electric Utilities, 1960-1989, Maryland

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**3,088**	**0**	**3,088**	*	**166**	**16**	**0**	**182**	**0**	**1,356**	**0**	**0**	
1961	3,277	0	3,277	*	183	17	0	201	0	1,138	0	0	
1962	3,696	0	3,696	*	187	18	0	205	0	1,147	0	0	
1963	4,275	0	4,275	*	220	21	0	241	0	970	0	0	
1964	4,774	0	4,774	*	244	23	0	267	0	1,111	0	0	
1965	**6,018**	**0**	**6,018**	*	**269**	**26**	**0**	**295**	**0**	**1,140**	**0**	**0**	
1966	6,701	0	6,701	*	266	25	0	292	0	1,322	0	0	
1967	7,162	0	7,162	*	367	35	0	402	0	1,923	0	0	
1968	7,530	0	7,530	*	1,379	131	0	1,510	0	1,609	0	0	
1969	6,829	0	6,829	7	3,862	368	0	4,230	0	1,359	0	0	
1970	**5,950**	**0**	**5,950**	**11**	**9,946**	**945**	**0**	**10,891**	**0**	**1,906**	**0**	**0**	
1971	5,373	0	5,373	9	13,235	1,558	0	14,793	0	1,772	0	0	
1972	4,450	0	4,450	7	20,884	1,692	0	22,576	0	2,282	0	0	
1973	3,901	0	3,901	9	24,292	1,425	0	25,717	0	2,165	0	0	
1974	4,210	0	4,210	14	25,822	2,391	0	28,213	0	1,969	0	0	
1975	**3,873**	**0**	**3,873**	*	**17,982**	**688**	**0**	**18,669**	**4,386**	**2,311**	**0**	**0**	
1976	5,083	0	5,083	*	17,023	583	0	17,605	6,420	2,088	0	0	
1977	4,423	0	4,423	*	16,524	562	0	17,086	10,881	2,018	0	0	
1978	4,844	0	4,844	1	18,940	753	0	19,693	9,896	1,735	0	0	
1979	5,285	0	5,285	10	14,094	600	0	14,695	9,674	2,191	0	0	
1980	**5,908**	**0**	**5,908**	**5**	**8,139**	**1,111**	**0**	**9,250**	**10,947**	**1,270**	**0**	**0**	
1981	5,197	0	5,197	6	6,563	831	0	7,394	11,523	1,426	0	0	
1982	5,766	0	5,766	1	5,940	751	0	6,690	10,345	1,341	0	0	
1983	6,221	0	6,221	2	5,559	918	0	6,477	11,676	1,765	0	0	
1984	7,501	0	7,501	1	4,809	966	0	5,774	11,651	2,022	0	41	
1985	**7,046**	**0**	**7,046**	**1**	**5,131**	**830**	**0**	**5,961**	**9,926**	**1,524**	**0**	**16**	
1986	7,961	0	7,961	2	4,254	748	0	5,002	12,828	1,876	0	38	
1987	8,228	0	8,228	12	4,363	807	0	5,170	10,070	1,612	0	51	
1988	9,020	0	9,020	5	6,009	857	0	6,866	11,734	1,328	0	57	
1989	9,074	0	9,074	19	10,407	1,255	0	11,662	2,719	1,778	0	14	
	Trillion Btu												
1960	**82.2**	**0.0**	**82.2**	**0.1**	**1.0**	**0.1**	**0.0**	**1.1**	**0.0**	**14.6**	**0.0**	**0.0**	**98.0**
1961	87.1	0.0	87.1	0.1	1.2	0.1	0.0	1.3	0.0	12.1	0.0	0.0	100.6
1962	98.1	0.0	98.1	0.1	1.2	0.1	0.0	1.3	0.0	12.1	0.0	0.0	111.6
1963	113.8	0.0	113.8	0.1	1.4	0.1	0.0	1.5	0.0	10.2	0.0	0.0	125.6
1964	127.1	0.0	127.1	0.1	1.5	0.1	0.0	1.7	0.0	11.6	0.0	0.0	140.4
1965	**158.7**	**0.0**	**158.7**	**0.1**	**1.7**	**0.1**	**0.0**	**1.8**	**0.0**	**11.9**	**0.0**	**0.0**	**172.5**
1966	175.3	0.0	175.3	0.2	1.7	0.1	0.0	1.8	0.0	13.8	0.0	0.0	191.1
1967	186.4	0.0	186.4	0.4	2.3	0.2	0.0	2.5	0.0	20.1	0.0	0.0	209.3
1968	195.4	0.0	195.4	0.4	8.7	0.8	0.0	9.4	0.0	16.7	0.0	0.0	222.0
1969	176.2	0.0	176.2	6.7	24.3	2.1	0.0	26.4	0.0	14.2	0.0	0.0	223.5
1970	**146.4**	**0.0**	**146.4**	**11.7**	**62.5**	**5.5**	**0.0**	**68.0**	**0.0**	**20.0**	**0.0**	**0.0**	**246.2**
1971	132.1	0.0	132.1	9.6	83.2	9.1	0.0	92.3	0.0	18.6	0.0	0.0	252.6
1972	111.8	0.0	111.8	7.0	131.3	9.8	0.0	141.1	0.0	23.7	0.0	0.0	283.6
1973	97.1	0.0	97.1	8.8	152.7	8.3	0.0	161.0	0.0	22.5	0.0	0.0	289.4
1974	97.1	0.0	97.1	13.4	162.3	13.9	0.0	176.2	0.0	20.6	0.0	0.0	307.3
1975	**94.2**	**0.0**	**94.2**	**0.4**	**113.0**	**4.0**	**0.0**	**117.0**	**48.3**	**24.0**	**0.0**	**0.0**	**284.0**
1976	124.8	0.0	124.8	0.2	107.0	3.4	0.0	110.4	70.9	21.7	0.0	0.0	328.0
1977	107.9	0.0	107.9	0.3	103.9	3.3	0.0	107.1	117.2	21.1	0.0	0.0	353.6
1978	118.2	0.0	118.2	0.6	119.1	4.4	0.0	123.5	108.3	18.0	0.0	0.0	368.5
1979	129.9	0.0	129.9	10.6	88.6	3.5	0.0	92.1	105.2	22.7	0.0	0.0	360.4
1980	**146.3**	**0.0**	**146.3**	**5.4**	**51.2**	**6.5**	**0.0**	**57.6**	**119.4**	**13.2**	**0.0**	**0.0**	**341.8**
1981	127.4	0.0	127.4	6.1	41.3	4.8	0.0	46.1	127.1	14.9	0.0	0.0	321.6
1982	143.1	0.0	143.1	1.0	37.3	4.4	0.0	41.7	114.6	14.0	0.0	0.0	314.4
1983	157.6	0.0	157.6	1.8	34.9	5.3	0.0	40.3	127.3	18.6	0.0	0.0	345.7
1984	189.3	0.0	189.3	1.3	30.2	5.6	0.0	35.9	126.3	20.9	0.0	0.4	374.1
1985	**178.4**	**0.0**	**178.4**	**1.4**	**32.3**	**4.8**	**0.0**	**37.1**	**107.3**	**15.8**	**0.0**	**0.2**	**340.2**
1986	202.0	0.0	202.0	2.3	26.7	4.4	0.0	31.1	138.5	19.3	0.0	0.4	393.6
1987	208.6	0.0	208.6	12.3	27.4	4.7	0.0	32.1	108.5	16.5	0.0	0.5	378.5
1988	229.6	0.0	229.6	5.6	37.8	5.0	0.0	42.8	126.1	13.6	0.0	0.6	418.1
1989	230.4	0.0	230.4	20.0	65.4	7.3	0.0	72.7	29.2	18.4	0.0	0.1	370.9

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 141. Energy Consumption Estimates by Source, 1960-1989, Massachusetts

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**4,559**	**78**	**2,270**	**968**	**51,240**	**1,209**	**5,718**	**1,148**	**799**	**34,993**	**39,108**	**1,249**	**138,702**	**34**	**982**	**0**	**0**	**-711**	
1961	4,648	82	2,270	843	52,484	1,552	5,524	1,095	778	36,123	40,202	1,235	142,105	854	814	0	0	-3,353	
1962	4,645	89	2,295	1,489	53,674	2,066	5,322	1,267	826	37,048	41,273	659	145,919	689	791	0	0	-1,656	
1963	4,470	98	2,253	1,670	51,541	2,407	4,790	1,335	826	37,926	37,328	647	140,722	941	708	0	0	-1,923	
1964	4,727	107	2,353	1,860	50,091	2,415	4,050	1,382	867	38,321	42,624	1,359	145,323	1,189	670	0	0	-5,440	
1965	**4,932**	**114**	**2,867**	**1,702**	**55,825**	**3,166**	**3,496**	**1,511**	**915**	**39,752**	**54,207**	**1,277**	**164,718**	**966**	**664**	**0**	**0**	**-6,364**	
1966	4,396	116	2,669	1,239	50,436	3,730	2,517	1,410	951	41,241	61,113	1,185	166,491	1,082	803	0	0	-6,369	
1967	4,002	128	2,811	625	54,341	5,421	2,153	1,374	788	42,316	67,635	1,099	178,563	1,273	799	0	0	-5,888	
1968	3,483	132	2,523	313	56,762	6,565	1,918	1,642	866	45,000	69,233	1,205	186,026	1,218	783	0	0	-2,318	
1969	2,443	137	2,867	283	58,552	7,479	2,008	1,727	930	46,545	72,969	1,279	194,640	1,143	881	0	0	-2,514	
1970	**910**	**147**	**2,843**	**276**	**59,239**	**7,864**	**2,103**	**1,820**	**947**	**49,527**	**86,130**	**1,327**	**212,075**	**1,209**	**753**	**0**	**0**	**-7,191**	
1971	535	156	2,825	264	61,616	8,642	2,231	1,852	899	50,827	83,869	1,253	214,278	1,435	706	0	0	-1,500	
1972	317	160	2,550	305	64,284	8,904	2,078	2,164	963	53,634	87,842	1,352	224,076	1,499	859	0	0	-1,463	
1973	221	156	3,149	280	64,628	9,027	1,347	2,131	974	55,596	86,191	1,494	224,818	5,120	560	0	0	-261	
1974	1,119	155	2,658	288	60,575	8,220	971	2,061	933	54,280	69,100	1,512	200,597	2,885	428	0	0	12,695	
1975	**1,016**	**154**	**1,832**	**228**	**58,665**	**8,009**	**867**	**2,315**	**786**	**54,630**	**65,975**	**1,354**	**194,659**	**3,781**	**417**	**0**	**0**	**6,757**	
1976	170	156	2,049	220	62,879	8,032	1,019	2,556	873	56,310	74,384	1,849	210,172	3,664	490	0	0	6,781	
1977	167	160	1,920	271	61,008	8,773	1,045	2,984	840	56,962	71,513	1,987	207,304	3,675	422	0	0	7,514	
1978	131	161	1,842	362	58,788	8,470	804	2,785	902	57,539	69,849	2,190	203,531	5,570	214	0	0	2,599	
1979	185	156	1,448	269	43,445	8,734	793	2,234	944	55,533	57,530	2,457	173,387	6,077	438	0	0	5,148	
1980	**874**	**183**	**1,231**	**274**	**37,613**	**8,573**	**698**	**2,125**	**841**	**51,443**	**54,143**	**2,521**	**159,462**	**3,232**	**158**	**0**	**0**	**11,452**	
1981	1,035	185	1,390	209	32,035	7,992	430	2,572	806	52,079	49,418	3,271	150,204	4,331	430	0	0	16,876	
1982	3,422	195	1,522	166	31,906	7,360	768	2,157	735	51,956	42,111	2,627	141,308	4,173	252	0	0	16,202	
1983	3,660	192	1,131	164	31,557	7,280	239	2,169	770	52,559	35,005	2,559	133,434	6,063	278	0	0	17,340	
1984	4,403	209	1,098	138	33,517	6,899	247	1,642	821	53,880	34,473	2,983	135,698	1,035	297	0	0	27,031	
1985	**4,176**	**219**	**1,051**	**134**	**33,072**	**6,984**	**334**	**1,708**	**765**	**54,834**	**32,813**	**2,718**	**134,413**	**6,133**	**4,574**	**0**	**0**	**5,605**	
1986	3,785	186	1,114	145	35,559	6,913	419	2,275	748	56,381	43,351	2,395	149,302	2,420	4,020	0	0	19,135	
1987	4,487	227	1,479	123	37,791	7,850	357	2,469	846	57,559	34,946	2,480	145,900	1,136	5,155	0	0	22,361	
1988	4,463	211	1,763	127	36,766	9,320	193	2,403	816	59,422	36,378	2,409	149,597	1,117	3,084	0	0	35,305	
1989	4,641	249	1,426	118	40,378	10,005	191	2,649	837	58,262	33,820	2,354	150,040	3,015	2,349	0	0	25,350	
									Trillion Btu										
1960	**118.8**	**80.6**	**15.1**	**4.9**	**298.5**	**6.7**	**32.4**	**4.6**	**4.8**	**183.8**	**245.9**	**7.3**	**804.1**	**0.4**	**10.6**	**0.0**	**0.0**	**-2.4**	**1,012.0**
1961	120.5	84.6	15.1	4.3	305.7	8.7	31.3	4.4	4.7	189.8	252.7	7.3	823.9	9.9	8.7	0.0	0.0	-11.4	1,036.1
1962	119.9	92.1	15.2	7.5	312.7	11.6	30.2	5.1	5.0	194.6	259.5	3.8	845.1	8.0	8.4	0.0	0.0	-5.7	1,067.9
1963	116.0	99.9	15.0	8.4	300.2	13.5	27.2	5.4	5.0	199.2	234.7	3.7	812.2	11.2	7.4	0.0	0.0	-6.6	1,040.1
1964	123.4	108.2	15.6	9.4	291.8	13.5	23.0	5.5	5.3	201.3	268.0	7.4	840.8	14.2	7.0	0.0	0.0	-18.6	1,075.0
1965	**127.9**	**115.7**	**19.0**	**8.6**	**325.2**	**17.8**	**19.8**	**6.1**	**5.6**	**208.8**	**340.8**	**6.9**	**958.5**	**11.4**	**6.9**	**0.0**	**0.0**	**-21.7**	**1,198.8**
1966	112.1	117.7	17.7	6.3	293.8	21.0	14.3	5.7	5.8	216.6	384.2	6.4	971.7	12.6	8.4	0.0	0.0	-21.7	1,200.7
1967	101.4	129.9	18.7	3.2	316.5	30.6	12.2	5.3	4.8	222.3	425.2	5.9	1,044.6	14.7	8.3	0.0	0.0	-20.1	1,278.9
1968	87.7	133.9	16.7	1.6	330.6	37.1	10.9	6.3	5.3	236.4	435.3	6.5	1,086.6	13.8	8.1	0.0	0.0	-7.9	1,322.2
1969	60.4	138.6	19.0	1.4	341.1	42.3	11.4	6.6	5.6	244.5	458.8	6.9	1,137.5	12.6	9.2	0.0	0.0	-8.6	1,349.8
1970	**21.4**	**149.1**	**18.9**	**1.4**	**345.1**	**44.5**	**11.9**	**6.9**	**5.7**	**260.2**	**541.5**	**7.1**	**1,243.1**	**13.3**	**7.9**	**0.0**	**0.0**	**-24.5**	**1,410.3**
1971	13.1	158.3	18.7	1.3	358.9	48.9	12.6	7.0	5.5	267.0	527.3	6.8	1,254.0	15.6	7.4	0.0	0.0	-5.1	1,443.2
1972	7.7	162.2	16.9	1.5	374.5	50.4	11.8	8.1	5.8	281.7	552.3	7.3	1,310.4	16.2	8.9	0.0	0.0	-5.0	1,500.3
1973	5.2	157.3	20.9	1.4	376.5	51.1	7.6	8.0	5.9	292.0	541.9	8.1	1,313.4	55.8	5.8	0.0	0.0	-0.9	1,536.6
1974	26.4	156.7	17.6	1.5	352.9	46.5	5.5	7.7	5.7	285.1	434.4	8.2	1,165.1	32.2	4.5	0.0	0.0	43.3	1,428.1
1975	**24.5**	**154.6**	**12.2**	**1.2**	**341.7**	**45.3**	**4.9**	**8.6**	**4.8**	**287.0**	**414.8**	**7.4**	**1,127.7**	**41.6**	**4.3**	**0.0**	**0.0**	**23.1**	**1,375.8**
1976	4.0	157.2	13.6	1.1	366.3	45.5	5.8	9.5	5.3	295.8	467.7	10.1	1,220.6	40.5	5.1	0.0	0.0	23.1	1,450.4
1977	4.0	161.5	12.7	1.4	355.4	49.6	5.9	11.0	5.1	299.2	449.6	10.9	1,200.9	39.6	4.4	0.0	0.0	25.6	1,436.0
1978	3.2	162.0	12.2	1.8	342.4	47.9	4.6	10.2	5.5	302.3	439.1	12.1	1,178.1	60.9	2.2	0.0	0.0	8.9	1,415.3
1979	4.6	157.9	9.6	1.4	253.1	49.4	4.5	8.2	5.7	291.7	361.7	13.4	998.8	66.1	4.5	0.0	0.0	17.6	1,249.5
1980	**22.8**	**185.5**	**8.2**	**1.4**	**219.1**	**48.5**	**4.0**	**7.8**	**5.1**	**270.2**	**340.4**	**13.7**	**918.4**	**35.3**	**1.6**	**0.0**	**0.0**	**39.1**	**1,202.7**
1981	26.6	187.5	9.2	1.1	186.6	45.2	2.4	9.4	4.9	273.6	310.7	17.8	860.9	47.8	4.5	0.0	0.0	57.6	1,184.9
1982	89.6	199.8	10.1	0.8	185.9	41.6	4.4	7.8	4.5	272.9	264.8	14.2	807.0	46.2	2.6	0.0	0.0	55.3	1,200.5
1983	96.9	196.6	7.5	0.8	183.8	41.2	1.4	7.8	4.7	276.1	220.1	14.0	757.4	66.1	2.9	0.0	0.0	59.2	1,179.0
1984	116.0	215.0	7.3	0.7	195.2	39.0	1.4	5.9	5.0	283.0	216.7	16.0	770.3	11.2	3.1	0.0	0.0	92.2	1,207.9
1985	**110.2**	**224.8**	**7.0**	**0.7**	**192.6**	**39.5**	**1.9**	**6.2**	**4.6**	**288.0**	**206.3**	**14.7**	**761.5**	**66.3**	**47.3**	**0.0**	**0.0**	**19.1**	**1,229.2**
1986	99.8	191.2	7.4	0.7	207.1	39.1	2.4	8.3	4.5	296.2	272.5	13.0	851.3	26.1	41.2	0.0	0.0	65.3	1,274.9
1987	117.6	233.4	9.8	0.6	220.1	44.4	2.0	9.0	5.1	302.4	219.7	13.4	826.6	12.2	52.9	0.0	0.0	76.3	1,319.0
1988	116.9	217.3	11.7	0.6	214.2	52.7	1.1	8.8	4.9	312.1	228.7	13.0	848.0	12.0	31.6	0.0	0.0	120.5	1,346.1
1989	120.7	258.9	9.5	0.6	235.2	56.6	1.1	9.8	5.1	306.0	212.6	12.7	849.2	32.3	24.3	0.0	0.0	86.5	1,371.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 142. Residential Energy Consumption Estimates, 1960–1989, Massachusetts

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**141**	**253**	**394**	**45**	**34,305**	**4,858**	**752**	**39,915**	**4,190**	**10,423**		
1961	94	229	323	50	35,292	4,719	666	40,677	4,466	10,884		
1962	102	199	301	54	36,192	4,587	805	41,584	4,718	11,343		
1963	53	189	242	58	34,276	4,087	829	39,192	5,030	12,028		
1964	49	181	230	62	33,151	3,270	829	37,250	5,361	12,768		
1965	**37**	**159**	**195**	**65**	**37,082**	**2,682**	**926**	**40,689**	**5,766**	**13,767**		
1966	38	135	173	66	33,128	1,905	810	35,842	6,222	14,929		
1967	36	121	157	73	35,775	1,635	813	38,223	6,929	16,554		
1968	36	114	150	75	36,820	1,415	873	39,108	7,578	18,080		
1969	20	101	121	78	37,934	1,420	977	40,332	8,406	20,079		
1970	**9**	**97**	**105**	**83**	**38,530**	**1,434**	**933**	**40,897**	**9,335**	**22,621**		
1971	5	92	97	83	40,113	1,427	943	42,483	10,200	24,661		
1972	4	71	75	86	41,406	1,512	1,048	43,966	10,965	26,394		
1973	9	70	78	84	41,628	1,041	964	43,632	11,715	28,047		
1974	10	62	72	85	39,084	637	947	40,668	11,443	27,902		
1975	**6**	**51**	**57**	**90**	**37,860**	**591**	**1,006**	**39,456**	**10,648**	**25,684**		
1976	5	48	54	95	41,000	644	1,064	42,707	11,227	27,045		
1977	5	46	51	93	39,889	672	1,176	41,737	11,089	26,777		
1978	0	38	38	87	38,110	456	1,130	39,696	11,242	27,504		
1979	1	30	31	81	26,272	433	645	27,350	11,422	27,565		
1980	**14**	**37**	**50**	**94**	**22,712**	**323**	**675**	**23,710**	**11,571**	**28,137**		
1981	14	55	68	97	18,702	181	713	19,596	11,684	27,847		
1982	26	47	73	98	18,086	510	713	19,309	11,986	28,788		
1983	22	44	66	92	17,563	164	848	18,575	12,436	29,794		
1984	46	52	97	97	18,012	210	906	19,128	12,702	29,496		
1985	**17**	**52**	**70**	**98**	**17,968**	**262**	**1,051**	**19,280**	**12,907**	**30,267**		
1986	9	31	40	102	18,492	254	1,179	19,925	13,608	31,200		
1987	3	28	31	105	18,576	304	1,326	20,206	14,475	32,989		
1988	9	22	31	109	18,536	138	1,387	20,061	15,511	35,028		
1989	9	17	26	112	20,531	132	1,682	22,346	15,772	35,379		
					Trillion Btu							
1960	**3.5**	**6.2**	**9.8**	**46.6**	**199.8**	**27.5**	**3.0**	**230.4**	**14.3**	**301.1**	**35.6**	**336.6**
1961	2.4	5.7	8.1	51.4	205.6	26.8	2.7	235.0	15.2	309.7	37.1	346.8
1962	2.6	4.9	7.5	56.0	210.8	26.0	3.2	240.1	16.1	319.6	38.7	358.3
1963	1.3	4.6	5.9	59.1	199.7	23.2	3.3	226.2	17.2	308.3	41.0	349.4
1964	1.2	4.4	5.6	62.5	193.1	18.5	3.3	215.0	18.3	301.4	43.6	345.0
1965	**0.9**	**3.9**	**4.8**	**65.7**	**216.0**	**15.2**	**3.7**	**234.9**	**19.7**	**325.1**	**47.0**	**372.0**
1966	0.9	3.3	4.2	67.2	193.0	10.8	3.2	207.0	21.2	299.6	50.9	350.6
1967	0.9	2.8	3.7	74.4	208.4	9.3	3.1	220.8	23.6	322.6	56.5	379.1
1968	0.9	2.7	3.5	75.8	214.5	8.0	3.3	225.8	25.9	331.0	61.7	392.7
1969	0.5	2.3	2.8	79.4	221.0	8.1	3.7	232.7	28.7	343.6	68.5	412.1
1970	**0.2**	**2.3**	**2.5**	**83.6**	**224.4**	**8.1**	**3.5**	**236.1**	**31.8**	**354.1**	**77.2**	**431.2**
1971	0.1	2.2	2.3	84.4	233.7	8.1	3.6	245.3	34.8	366.8	84.1	451.0
1972	0.1	1.7	1.8	87.2	241.2	8.6	3.9	253.7	37.4	380.1	90.1	470.2
1973	0.2	1.6	1.8	84.9	242.5	5.9	3.6	252.0	40.0	378.7	95.7	474.4
1974	0.2	1.4	1.6	86.3	227.7	3.6	3.5	234.8	39.0	361.8	95.2	457.0
1975	**0.1**	**1.1**	**1.3**	**90.6**	**220.5**	**3.3**	**3.7**	**227.6**	**36.3**	**355.8**	**87.6**	**443.4**
1976	0.1	1.1	1.2	95.7	238.8	3.7	3.9	246.4	38.3	381.6	92.3	473.9
1977	0.1	1.1	1.2	93.9	232.4	3.8	4.3	240.5	37.8	373.4	91.4	464.8
1978	0.0	0.9	0.9	87.6	222.0	2.6	4.1	228.7	38.4	355.6	93.8	449.4
1979	*	0.7	0.8	81.6	153.0	2.5	2.4	157.9	39.0	279.2	94.1	373.3
1980	**0.3**	**0.8**	**1.2**	**96.0**	**132.3**	**1.8**	**2.5**	**136.6**	**39.5**	**273.2**	**96.0**	**369.2**
1981	0.3	1.3	1.6	98.3	108.9	1.0	2.6	112.6	39.9	252.4	95.0	347.4
1982	0.6	1.2	1.8	99.8	105.4	2.9	2.6	110.8	40.9	253.3	98.2	351.5
1983	0.5	1.1	1.6	93.7	102.3	0.9	3.1	106.3	42.4	244.0	101.7	345.7
1984	1.1	1.3	2.4	99.2	104.9	1.2	3.3	109.4	43.3	254.3	100.6	355.0
1985	**0.4**	**1.2**	**1.6**	**100.1**	**104.7**	**1.5**	**3.8**	**109.9**	**44.0**	**255.7**	**103.3**	**359.0**
1986	0.2	0.7	1.0	104.9	107.7	1.4	4.3	113.4	46.4	265.8	106.5	372.2
1987	0.1	0.7	0.8	108.0	108.2	1.7	4.9	114.8	49.4	272.9	112.6	385.5
1988	0.2	0.6	0.8	111.9	108.0	0.8	5.1	113.8	52.9	279.4	119.5	399.0
1989	0.2	0.5	0.7	115.6	119.6	0.7	6.2	126.5	53.8	296.7	120.7	417.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 143. Commercial Energy Consumption Estimates, 1960-1989, Massachusetts

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**263**	**168**	**431**	**10**	**11,965**	**404**	**133**	**135**	**10,036**	**22,672**	**3,008**	**7,482**		
1961	175	153	327	12	12,309	392	118	140	10,005	22,964	3,246	7,911		
1962	189	133	322	14	12,623	381	142	147	10,483	23,776	3,452	8,298		
1963	99	126	225	15	11,955	340	146	92	9,352	21,885	3,679	8,799		
1964	91	121	212	15	11,562	272	146	91	11,077	23,149	3,966	9,446		
1965	**68**	**106**	**174**	**16**	**12,933**	**223**	**163**	**92**	**14,503**	**27,914**	**4,306**	**10,282**		
1966	71	90	160	19	11,554	158	143	96	15,841	27,793	4,688	11,249		
1967	67	80	147	25	12,477	136	143	96	16,149	29,001	5,957	14,233		
1968	66	76	142	25	12,842	118	154	99	15,801	29,015	6,545	15,616		
1969	37	67	104	30	13,230	118	172	100	14,669	28,290	7,095	16,948		
1970	**16**	**65**	**81**	**35**	**13,438**	**119**	**165**	**102**	**14,872**	**28,696**	**7,802**	**18,908**		
1971	10	61	71	37	13,990	119	166	103	13,887	28,266	8,583	20,751		
1972	8	47	55	37	14,441	126	185	104	13,844	28,699	9,391	22,604		
1973	16	47	62	39	14,519	87	170	105	13,988	28,868	10,401	24,900		
1974	19	41	60	37	13,632	53	167	106	11,127	25,084	10,155	24,760		
1975	**11**	**34**	**45**	**38**	**13,204**	**49**	**178**	**109**	**9,122**	**22,662**	**11,395**	**27,487**		
1976	10	32	42	38	14,300	54	188	112	9,774	24,427	12,096	29,138		
1977	9	31	40	41	13,912	56	208	112	8,633	22,921	12,354	29,830		
1978	0	26	26	46	13,292	38	199	189	7,524	21,242	12,694	31,056		
1979	2	20	23	47	9,163	36	114	190	3,777	13,280	12,959	31,275		
1980	**25**	**24**	**50**	**53**	**7,510**	**30**	**119**	**191**	**4,854**	**12,704**	**13,054**	**31,742**		
1981	25	36	62	50	5,759	9	126	206	3,149	9,249	13,387	31,904		
1982	47	32	79	61	5,509	28	126	213	4,227	10,103	13,692	32,886		
1983	40	29	70	40	5,444	36	150	193	2,440	8,262	14,391	34,477		
1984	85	34	120	41	5,583	18	160	168	2,366	8,295	14,912	34,628		
1985	**32**	**35**	**67**	**41**	**5,703**	**49**	**185**	**188**	**2,195**	**8,320**	**15,582**	**36,539**		
1986	17	20	37	44	6,676	147	208	189	2,166	9,386	16,584	38,024		
1987	6	18	24	47	6,072	29	234	193	1,999	8,527	17,701	40,341		
1988	18	14	32	49	6,363	33	245	183	2,512	9,336	18,767	42,381		
1989	17	11	28	52	7,750	31	297	187	1,688	9,954	19,323	43,344		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**6.6**	**4.2**	**10.7**	**10.6**	**69.7**	**2.3**	**0.5**	**0.7**	**63.1**	**136.3**	**10.3**	**167.9**	**25.5**	**193.5**
1961	4.4	3.8	8.2	12.2	71.7	2.2	0.5	0.7	62.9	138.0	11.1	169.5	27.0	196.5
1962	4.7	3.3	8.0	14.8	73.5	2.2	0.6	0.8	65.9	142.9	11.8	177.5	28.3	205.9
1963	2.5	3.0	5.5	14.9	69.6	1.9	0.6	0.5	58.8	131.4	12.6	164.3	30.0	194.4
1964	2.3	2.9	5.2	15.0	67.4	1.5	0.6	0.5	69.6	139.6	13.5	173.3	32.2	205.6
1965	**1.7**	**2.6**	**4.3**	**16.5**	**75.3**	**1.3**	**0.7**	**0.5**	**91.2**	**168.9**	**14.7**	**204.4**	**35.1**	**239.5**
1966	1.8	2.2	3.9	18.8	67.3	0.9	0.6	0.5	99.6	168.9	16.0	207.6	38.4	245.9
1967	1.7	1.9	3.5	25.1	72.7	0.8	0.6	0.5	101.5	176.0	20.3	225.0	48.6	273.5
1968	1.6	1.8	3.4	25.7	74.8	0.7	0.6	0.5	99.3	175.9	22.3	227.4	53.3	280.6
1969	0.9	1.6	2.5	30.2	77.1	0.7	0.7	0.5	92.2	171.1	24.2	228.0	57.8	285.8
1970	**0.4**	**1.5**	**1.9**	**35.8**	**78.3**	**0.7**	**0.6**	**0.5**	**93.5**	**173.6**	**26.6**	**237.9**	**64.5**	**302.4**
1971	0.2	1.4	1.7	37.4	81.5	0.7	0.6	0.5	87.3	170.6	29.3	239.0	70.8	309.8
1972	0.2	1.1	1.3	37.2	84.1	0.7	0.7	0.5	87.0	173.1	32.0	243.7	77.1	320.8
1973	0.4	1.1	1.4	39.7	84.6	0.5	0.6	0.5	87.9	174.2	35.5	250.8	85.0	335.8
1974	0.5	0.9	1.4	37.7	79.4	0.3	0.6	0.6	70.0	150.8	34.6	224.6	84.5	309.1
1975	**0.3**	**0.8**	**1.0**	**38.0**	**76.9**	**0.3**	**0.7**	**0.6**	**57.4**	**135.8**	**38.9**	**213.6**	**93.8**	**307.4**
1976	0.2	0.7	1.0	38.0	83.3	0.3	0.7	0.6	61.4	146.3	41.3	226.6	99.4	326.0
1977	0.2	0.7	1.0	40.9	81.0	0.3	0.8	0.6	54.3	137.0	42.2	221.0	101.8	322.8
1978	0.0	0.6	0.6	46.1	77.4	0.2	0.7	1.0	47.3	126.7	43.3	216.7	106.0	322.6
1979	0.1	0.5	0.5	47.1	53.4	0.2	0.4	1.0	23.7	78.7	44.2	170.6	106.7	277.4
1980	**0.6**	**0.6**	**1.2**	**54.3**	**43.7**	**0.2**	**0.4**	**1.0**	**30.5**	**75.9**	**44.5**	**175.9**	**108.3**	**284.2**
1981	0.6	0.9	1.5	51.0	33.5	0.1	0.5	1.1	19.8	54.9	45.7	153.1	108.9	261.9
1982	1.2	0.8	2.0	62.6	32.1	0.2	0.5	1.1	26.6	60.4	46.7	171.7	112.2	283.9
1983	1.0	0.7	1.7	40.5	31.7	0.2	0.5	1.0	15.3	48.8	49.1	140.1	117.6	257.7
1984	2.1	0.9	3.0	42.3	32.5	0.1	0.6	0.9	14.9	49.0	50.9	145.1	118.2	263.2
1985	**0.8**	**0.8**	**1.6**	**42.4**	**33.2**	**0.3**	**0.7**	**1.0**	**13.8**	**49.0**	**53.2**	**146.1**	**124.7**	**270.8**
1986	0.4	0.5	0.9	44.8	38.9	0.8	0.8	1.0	13.6	55.1	56.6	157.4	129.7	287.1
1987	0.1	0.5	0.6	47.9	35.4	0.2	0.9	1.0	12.6	50.0	60.4	158.9	137.6	296.5
1988	0.4	0.4	0.8	50.4	37.1	0.2	0.9	1.0	15.8	54.9	64.0	170.1	144.6	314.7
1989	0.4	0.3	0.7	53.3	45.1	0.2	1.1	1.0	10.6	58.0	65.9	178.0	147.9	325.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 144. Industrial Energy Consumption Estimates, 1960–1989, Massachusetts

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**1,258**	**8**	**1,266**	**12**	**2,270**	**2,322**	**456**	**260**	**356**	**133**	**17,875**	**1,249**	**24,921**	**117**	**5,075**	**12,625**		
1961	1,150	7	1,157	11	2,270	2,290	413	307	347	91	17,895	1,235	24,848	126	5,314	12,950		
1962	1,030	6	1,036	12	2,295	2,428	354	316	403	36	18,592	659	25,081	118	5,582	13,420		
1963	794	7	801	14	2,253	2,336	363	352	403	65	16,403	647	22,822	112	5,723	13,686		
1964	601	8	609	17	2,353	2,361	508	398	423	67	19,377	1,359	26,847	104	6,026	14,351		
1965	**488**	**7**	**496**	**20**	**2,867**	**2,841**	**590**	**401**	**507**	**206**	**25,076**	**1,277**	**33,764**	**100**	**6,546**	**15,630**		
1966	316	6	322	21	2,669	2,648	454	444	527	167	27,459	1,185	35,553	100	7,057	16,932		
1967	515	6	521	19	2,811	2,905	382	403	396	136	28,299	1,099	36,431	105	6,578	15,716		
1968	358	5	363	22	2,523	2,992	385	595	435	88	27,565	1,205	35,789	97	7,039	16,795		
1969	320	4	324	22	2,867	3,057	469	560	497	174	25,393	1,279	34,297	92	7,339	17,531		
1970	**145**	**4**	**149**	**23**	**2,843**	**2,897**	**549**	**693**	**506**	**111**	**25,742**	**1,327**	**34,668**	**72**	**7,418**	**17,975**		
1971	98	3	101	26	2,825	2,938	685	707	447	96	24,005	1,253	32,957	70	7,515	18,169		
1972	116	2	118	29	2,550	3,072	440	893	479	103	24,358	1,352	33,247	70	7,939	19,108		
1973	66	2	67	26	3,149	3,073	220	958	498	148	24,479	1,494	34,019	72	8,417	20,150		
1974	77	2	79	24	2,658	2,746	282	911	477	116	19,355	1,512	28,057	68	7,830	19,091		
1975	**108**	**2**	**110**	**24**	**1,832**	**2,654**	**227**	**1,099**	**353**	**81**	**15,891**	**1,354**	**23,491**	**67**	**7,330**	**17,680**		
1976	71	3	74	20	2,049	2,797	322	1,270	392	70	17,027	1,849	25,776	66	7,785	18,753		
1977	74	2	76	23	1,920	2,820	318	1,560	377	119	15,026	1,987	24,126	48	7,951	19,200		
1978	65	2	67	26	1,842	2,569	310	1,404	405	89	13,083	2,190	21,892	51	8,235	20,147		
1979	81	1	82	21	1,448	2,436	324	1,436	424	109	6,854	2,457	15,488	65	8,443	20,376		
1980	**96**	**2**	**98**	**29**	**1,231**	**1,886**	**345**	**1,305**	**377**	**91**	**2,663**	**2,521**	**10,419**	**63**	**8,486**	**20,635**		
1981	56	4	60	30	1,390	2,322	240	1,676	362	75	4,719	3,271	14,056	63	8,956	21,344		
1982	85	3	88	19	1,522	2,101	230	1,270	330	97	5,524	2,627	13,700	63	8,655	20,787		
1983	110	2	112	35	1,131	1,332	39	1,114	346	42	5,351	2,550	11,913	63	9,046	21,672		
1984	104	2	106	37	1,098	1,366	20	500	368	109	5,190	2,983	11,633	63	9,476	22,006		
1985	**173**	**3**	**176**	**33**	**1,051**	**1,044**	**24**	**419**	**343**	**367**	**5,839**	**2,718**	**11,804**	**63**	**9,454**	**22,168**		
1986	107	5	112	24	1,114	1,564	18	839	336	379	8,578	2,395	15,224	63	9,682	22,199		
1987	161	4	165	34	1,479	3,865	25	865	380	390	5,010	2,480	14,493	63	10,043	22,887		
1988	137	3	140	32	1,763	2,451	22	723	366	417	2,680	2,409	10,832	63	10,243	23,132		
1989	110	3	113	36	1,426	2,538	28	619	375	475	1,495	2,354	9,310	63	10,381	23,285		
					Trillion Btu													
1960	**33.0**	**0.2**	**33.2**	**12.0**	**15.1**	**13.5**	**2.6**	**1.0**	**2.2**	**0.7**	**112.4**	**7.3**	**154.8**	**1.3**	**17.3**	**218.5**	**43.1**	**261.6**
1961	30.0	0.2	30.2	11.9	15.1	13.3	2.3	1.2	2.1	0.5	112.5	7.3	154.3	1.3	18.1	215.9	44.2	260.1
1962	26.9	0.2	27.1	12.3	15.2	14.1	2.0	1.3	2.4	0.2	116.9	3.8	156.0	1.2	19.0	215.6	45.8	261.4
1963	20.7	0.2	20.9	14.4	15.0	13.6	2.1	1.4	2.4	0.3	103.1	3.7	141.6	1.2	19.5	197.6	46.7	244.3
1964	15.6	0.2	15.8	17.1	15.6	13.8	2.9	1.6	2.6	0.4	121.8	7.4	166.0	1.1	20.6	220.6	49.0	269.6
1965	**12.7**	**0.2**	**12.8**	**20.0**	**19.0**	**16.5**	**3.3**	**1.6**	**3.1**	**1.1**	**157.6**	**6.9**	**209.2**	**1.0**	**22.3**	**265.4**	**53.3**	**318.7**
1966	8.1	0.1	8.3	21.3	17.7	15.4	2.6	1.8	3.2	0.9	172.6	6.4	220.6	1.0	24.1	275.3	57.8	333.1
1967	13.2	0.1	13.3	19.0	18.7	16.9	2.2	1.5	2.4	0.7	177.9	5.9	226.2	1.1	22.4	282.1	53.6	335.7
1968	9.1	0.1	9.3	22.1	16.7	17.4	2.2	2.3	2.6	0.5	173.3	6.5	221.5	1.0	24.0	277.9	57.3	335.2
1969	8.1	0.1	8.2	21.8	19.0	17.8	2.7	2.1	3.0	0.9	159.6	6.9	212.1	1.0	25.0	268.0	59.8	327.8
1970	**3.5**	**0.1**	**3.6**	**22.8**	**18.9**	**16.9**	**3.1**	**2.6**	**3.1**	**0.6**	**161.8**	**7.1**	**214.1**	**0.8**	**25.3**	**266.6**	**61.3**	**328.0**
1971	2.4	0.1	2.4	26.0	18.7	17.1	3.9	2.7	2.7	0.5	150.9	6.8	203.3	0.7	25.6	258.1	62.0	320.1
1972	2.8	*	2.8	29.3	16.9	17.9	2.5	3.4	2.9	0.5	153.1	7.3	204.6	0.7	27.1	264.5	65.2	329.7
1973	1.6	*	1.6	26.0	20.9	17.9	1.2	3.6	3.0	0.8	153.9	8.1	209.4	0.7	28.7	266.5	68.8	335.3
1974	1.8	*	1.9	24.6	17.6	16.0	1.6	3.4	2.9	0.6	121.7	8.2	172.0	0.7	26.7	226.0	65.1	291.1
1975	**2.6**	**0.1**	**2.6**	**24.1**	**12.2**	**15.5**	**1.3**	**4.1**	**2.1**	**0.4**	**99.9**	**7.4**	**142.8**	**0.7**	**25.0**	**195.2**	**60.3**	**255.6**
1976	1.7	0.1	1.8	20.4	13.6	16.3	1.8	4.7	2.4	0.4	107.1	10.1	156.4	0.7	26.6	205.8	64.0	269.7
1977	1.8	0.1	1.8	23.2	12.7	16.4	1.8	5.7	2.3	0.6	94.5	10.9	145.0	0.5	27.1	197.6	65.5	263.1
1978	1.6	*	1.6	26.3	12.2	15.0	1.8	5.2	2.5	0.5	82.3	12.1	131.3	0.5	28.1	187.8	68.7	256.6
1979	2.0	*	2.0	21.6	9.6	14.2	1.8	5.3	2.6	0.6	43.1	13.4	90.6	0.7	28.8	143.6	69.5	213.2
1980	**2.4**	*	**2.4**	**29.4**	**8.2**	**11.0**	**2.0**	**4.8**	**2.3**	**0.5**	**16.7**	**13.7**	**59.1**	**0.7**	**29.0**	**120.6**	**70.4**	**191.0**
1981	1.4	0.1	1.5	30.7	9.2	13.5	1.4	6.1	2.2	0.4	29.7	17.8	80.3	0.7	30.6	143.6	72.8	216.5
1982	2.1	0.1	2.2	19.7	10.1	12.2	1.3	4.6	2.0	0.5	34.7	14.2	79.7	0.7	29.5	131.8	70.9	202.7
1983	2.7	*	2.8	35.7	7.5	7.8	0.2	4.0	2.1	0.2	33.6	14.0	69.4	0.7	30.9	139.4	73.9	213.4
1984	2.6	0.1	2.6	38.3	7.3	8.0	0.1	1.8	2.2	0.6	32.6	16.0	68.6	0.6	32.3	142.5	75.1	217.6
1985	**4.3**	**0.1**	**4.4**	**33.9**	**7.0**	**6.1**	**0.1**	**1.5**	**2.1**	**1.9**	**36.7**	**14.7**	**70.1**	**0.6**	**32.3**	**141.3**	**75.6**	**216.9**
1986	2.7	0.1	2.8	24.5	7.4	9.1	0.1	3.1	2.0	2.0	53.9	13.0	90.6	0.6	33.0	151.6	75.7	227.3
1987	4.1	0.1	4.2	35.2	9.8	22.5	0.1	3.2	2.3	2.0	31.5	13.4	84.8	0.6	34.3	159.1	78.1	237.2
1988	3.5	0.1	3.5	32.5	11.7	14.3	0.1	2.6	2.2	2.2	16.8	13.0	63.1	0.6	34.9	134.7	78.9	213.6
1989	2.8	0.1	2.8	36.9	9.5	14.8	0.2	2.3	2.3	2.5	9.4	12.7	53.6	0.6	35.4	129.4	79.4	208.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 145. Transportation Energy Consumption Estimates, 1960–1989, Massachusetts

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**22**	*	**968**	**2,371**	**1,209**	**4**	**443**	**34,725**	**1,207**	**40,927**	**108**	**268**		
1961	5	*	843	2,311	1,552	4	431	35,891	2,126	43,159	118	287		
1962	4	*	1,489	2,150	2,066	5	423	36,865	2,043	45,042	118	283		
1963	3	*	1,670	2,706	2,407	8	423	37,769	1,878	46,860	113	270		
1964	2	*	1,860	2,730	2,415	9	444	38,163	1,818	47,438	102	244		
1965	**2**	*	**1,702**	**2,632**	**3,166**	**22**	**408**	**39,454**	**2,472**	**49,856**	**101**	**240**		
1966	1	*	1,239	2,652	3,730	13	424	40,978	1,421	50,457	106	255		
1967	1	2	625	2,606	5,421	15	392	42,084	2,384	53,527	96	229		
1968	1	2	313	3,451	6,565	20	431	44,812	2,226	57,818	89	212		
1969	1	1	283	3,472	7,479	17	433	46,271	1,968	59,924	84	202		
1970	*	**1**	**276**	**3,198**	**7,864**	**29**	**441**	**49,314**	**3,215**	**64,336**	**85**	**205**		
1971	*	1	264	3,393	8,642	35	452	50,628	3,475	66,889	84	204		
1972	*	1	305	4,124	8,788	38	484	53,427	3,024	70,190	86	208		
1973	*	1	280	4,529	8,943	39	477	55,343	2,766	72,377	84	201		
1974	*	1	288	4,403	8,152	37	456	54,058	1,446	68,839	97	236		
1975	*	**1**	**228**	**4,485**	**7,967**	**33**	**433**	**54,440**	**1,049**	**68,634**	**106**	**256**		
1976	*	1	220	4,437	8,005	35	481	56,128	1,389	70,694	109	262		
1977	*	*	271	4,057	8,756	40	463	56,731	1,282	71,600	104	252		
1978	0	1	362	4,474	8,454	53	497	57,261	832	71,932	101	247		
1979	0	1	269	5,142	8,712	39	520	55,233	1,531	71,447	117	282		
1980	**0**	**1**	**274**	**4,900**	**8,563**	**26**	**463**	**51,161**	**900**	**66,287**	**160**	**390**		
1981	0	1	209	4,970	7,982	58	444	51,798	1,062	66,523	137	327		
1982	0	2	166	5,803	7,358	49	405	51,647	1,459	66,887	117	281		
1983	0	1	164	6,707	7,280	58	424	52,325	152	67,110	130	311		
1984	0	1	138	7,540	6,899	77	453	53,603	145	68,854	151	351		
1985	**0**	**1**	**134**	**7,536**	**6,984**	**54**	**422**	**54,279**	**1,134**	**70,542**	**177**	**415**		
1986	0	2	145	7,801	6,913	48	412	55,813	557	71,691	168	384		
1987	0	1	123	8,155	7,850	44	466	56,976	321	73,935	164	373		
1988	0	2	127	7,882	9,320	49	450	58,822	522	77,171	206	466		
1989	0	2	118	7,904	10,005	52	461	57,599	1,012	77,151	206	463		
							Trillion Btu					Net Energy[4]		Total[4]
1960	**0.6**	**0.3**	**4.9**	**13.8**	**6.7**	*	**2.7**	**182.4**	**7.6**	**218.1**	**0.4**	**219.4**	**0.9**	**220.3**
1961	0.1	0.3	4.3	13.5	8.7	*	2.6	188.5	13.4	230.9	0.4	231.8	1.0	232.8
1962	0.1	0.2	7.5	12.5	11.6	*	2.6	193.7	12.8	240.7	0.4	241.4	1.0	242.4
1963	0.1	0.2	8.4	15.8	13.5	*	2.6	198.4	11.8	250.5	0.4	251.2	0.9	252.1
1964	0.1	0.2	9.4	15.9	13.5	*	2.7	200.5	11.4	253.5	0.3	254.1	0.8	254.9
1965	*	**0.2**	**8.6**	**15.3**	**17.8**	**0.1**	**2.5**	**207.3**	**15.5**	**267.1**	**0.3**	**267.7**	**0.8**	**268.6**
1966	*	0.3	6.3	15.4	21.0	0.1	2.6	215.3	8.9	269.5	0.4	270.3	0.9	271.2
1967	*	2.0	3.2	15.2	30.6	0.1	2.4	221.1	15.0	287.4	0.3	289.8	0.8	290.6
1968	*	1.7	1.6	20.1	37.1	0.1	2.6	235.4	14.0	310.8	0.3	312.8	0.7	313.5
1969	*	1.0	1.4	20.2	42.3	0.1	2.6	243.1	12.4	322.1	0.3	323.3	0.7	324.0
1970	*	**1.1**	**1.4**	**18.6**	**44.5**	**0.1**	**2.7**	**259.0**	**20.2**	**346.5**	**0.3**	**347.9**	**0.7**	**348.6**
1971	*	0.7	1.3	19.8	48.9	0.1	2.7	265.9	21.8	360.7	0.3	361.6	0.7	362.3
1972	*	0.7	1.5	24.0	49.7	0.1	2.9	280.7	19.0	378.0	0.3	379.0	0.7	379.7
1973	*	0.6	1.4	26.4	50.6	0.1	2.9	290.7	17.4	389.5	0.3	390.4	0.7	391.1
1974	*	0.7	1.5	25.6	46.1	0.1	2.8	284.0	9.1	369.2	0.3	370.2	0.8	371.0
1975	*	**0.5**	**1.2**	**26.1**	**45.1**	**0.1**	**2.6**	**286.0**	**6.6**	**367.7**	**0.4**	**368.5**	**0.9**	**369.4**
1976	*	0.6	1.1	25.8	45.3	0.1	2.9	294.8	8.7	378.9	0.4	379.9	0.9	380.8
1977	*	0.5	1.4	23.6	49.6	0.1	2.8	298.0	8.1	383.6	0.4	384.4	0.9	385.3
1978	0.0	0.5	1.8	26.1	47.8	0.2	3.0	300.8	5.2	385.0	0.3	385.8	0.8	386.7
1979	0.0	0.7	1.4	30.0	49.3	0.1	3.2	290.1	9.6	383.7	0.4	384.7	1.0	385.7
1980	**0.0**	**0.7**	**1.4**	**28.5**	**48.4**	**0.1**	**2.8**	**268.7**	**5.7**	**355.7**	**0.5**	**356.9**	**1.3**	**358.2**
1981	0.0	0.7	1.1	29.0	45.2	0.2	2.7	272.1	6.7	356.8	0.5	358.0	1.1	359.1
1982	0.0	1.6	0.8	33.8	41.6	0.2	2.5	271.3	9.2	359.4	0.4	361.4	1.0	362.4
1983	0.0	1.1	0.8	39.1	41.2	0.2	2.6	274.9	1.0	359.7	0.4	361.2	1.1	362.2
1984	0.0	1.2	0.7	43.9	39.0	0.3	2.7	281.6	0.9	369.1	0.5	370.9	1.2	372.1
1985	**0.0**	**1.4**	**0.7**	**43.9**	**39.5**	**0.2**	**2.6**	**285.1**	**7.1**	**379.1**	**0.6**	**381.1**	**1.4**	**382.5**
1986	0.0	1.7	0.7	45.4	39.1	0.2	2.5	293.2	3.5	384.6	0.6	386.9	1.3	388.2
1987	0.0	1.2	0.6	47.5	44.4	0.2	2.8	299.3	2.0	396.8	0.6	398.6	1.3	399.8
1988	0.0	2.0	0.6	45.9	52.7	0.2	2.7	309.0	3.3	414.5	0.7	417.2	1.6	418.8
1989	0.0	2.3	0.6	46.0	56.6	0.2	2.8	302.6	6.4	415.2	0.7	418.2	1.6	419.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 146. Estimates of Energy Input at Electric Utilities, 1960–1989, Massachusetts

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**2,446**	**0**	**2,446**	**11**	**9,990**	**277**	**0**	**10,267**	**34**	**865**	**0**	**0**	
1961	2,836	0	2,836	9	10,175	282	0	10,458	854	687	0	0	
1962	2,981	0	2,981	9	10,155	282	0	10,436	689	673	0	0	
1963	3,198	0	3,198	11	9,694	269	0	9,963	941	596	0	0	
1964	3,673	0	3,673	13	10,352	287	0	10,639	1,189	566	0	0	
1965	**4,066**	**0**	**4,066**	**13**	**12,157**	**337**	**0**	**12,494**	**966**	**564**	**0**	**0**	
1966	3,740	0	3,740	10	16,391	455	0	16,846	1,082	704	0	0	
1967	3,175	0	3,175	9	20,804	577	0	21,381	1,273	694	0	0	
1968	2,828	0	2,828	8	23,641	656	0	24,297	1,218	686	0	0	
1969	1,893	0	1,893	6	30,939	859	0	31,797	1,143	789	0	0	
1970	**575**	**0**	**575**	**6**	**42,301**	**1,176**	**0**	**43,477**	**1,209**	**682**	**0**	**0**	
1971	265	0	265	10	42,502	1,182	0	43,683	1,435	636	0	0	
1972	68	0	68	8	46,616	1,357	0	47,973	1,499	789	0	0	
1973	13	0	13	6	44,958	964	0	45,922	5,120	488	0	0	
1974	908	0	908	7	37,172	778	0	37,950	2,885	359	0	0	
1975	**804**	**0**	**804**	**1**	**39,912**	**503**	**0**	**40,415**	**3,781**	**350**	**0**	**0**	
1976	0	0	0	2	46,194	373	0	46,568	3,664	424	0	0	
1977	0	0	0	3	46,571	348	0	46,919	3,675	375	0	0	
1978	0	0	0	2	48,409	360	0	48,769	5,570	163	0	0	
1979	50	0	50	7	45,368	454	0	45,822	6,077	373	0	0	
1980	**676**	**0**	**676**	**5**	**45,726**	**616**	**0**	**46,342**	**3,232**	**96**	**0**	**0**	
1981	845	0	845	7	40,488	291	0	40,779	4,331	368	0	0	
1982	3,182	0	3,182	15	30,900	409	0	31,309	4,173	189	0	0	
1983	3,413	0	3,413	24	27,063	511	0	27,574	6,063	215	0	0	
1984	4,080	0	4,080	32	26,772	1,016	0	27,789	1,035	234	0	0	
1985	**3,863**	**0**	**3,863**	**45**	**23,645**	**822**	**0**	**24,467**	**6,133**	**4,511**	**0**	**0**	
1986	3,596	0	3,596	15	32,050	1,026	0	33,076	2,420	3,957	0	0	
1987	4,267	0	4,267	40	27,616	1,124	0	28,739	1,136	5,092	0	0	
1988	4,260	0	4,260	20	30,664	1,534	0	32,198	1,117	3,021	0	0	
1989	4,474	0	4,474	48	29,625	1,654	0	31,279	3,015	2,286	0	0	
	Trillion Btu												
1960	**64.5**	**0.0**	**64.5**	**11.2**	**62.8**	**1.6**	**0.0**	**64.4**	**0.4**	**9.3**	**0.0**	**0.0**	**149.8**
1961	73.9	0.0	73.9	8.8	64.0	1.6	0.0	65.6	9.9	7.3	0.0	0.0	165.6
1962	77.2	0.0	77.2	8.9	63.8	1.6	0.0	65.5	8.0	7.1	0.0	0.0	166.7
1963	83.6	0.0	83.6	11.3	60.9	1.6	0.0	62.5	11.2	6.2	0.0	0.0	174.9
1964	96.7	0.0	96.7	13.3	65.1	1.7	0.0	66.8	14.2	5.9	0.0	0.0	196.9
1965	**106.0**	**0.0**	**106.0**	**13.3**	**76.4**	**2.0**	**0.0**	**78.4**	**11.4**	**5.9**	**0.0**	**0.0**	**215.0**
1966	95.7	0.0	95.7	10.1	103.0	2.6	0.0	105.7	12.6	7.3	0.0	0.0	231.4
1967	80.8	0.0	80.8	9.4	130.8	3.4	0.0	134.2	14.7	7.2	0.0	0.0	246.3
1968	71.5	0.0	71.5	8.6	148.6	3.8	0.0	152.5	13.8	7.1	0.0	0.0	253.4
1969	47.0	0.0	47.0	6.3	194.5	5.0	0.0	199.5	12.6	8.2	0.0	0.0	273.6
1970	**13.4**	**0.0**	**13.4**	**5.7**	**265.9**	**6.8**	**0.0**	**272.8**	**13.3**	**7.2**	**0.0**	**0.0**	**312.3**
1971	6.6	0.0	6.6	9.8	267.2	6.9	0.0	274.1	15.6	6.7	0.0	0.0	312.8
1972	1.8	0.0	1.8	7.8	293.1	7.9	0.0	301.0	16.2	8.2	0.0	0.0	334.9
1973	0.3	0.0	0.3	6.0	282.7	5.6	0.0	288.3	55.8	5.1	0.0	0.0	355.4
1974	21.6	0.0	21.6	7.3	233.7	4.5	0.0	238.2	32.2	3.7	0.0	0.0	303.0
1975	**19.6**	**0.0**	**19.6**	**1.4**	**250.9**	**2.9**	**0.0**	**253.8**	**41.6**	**3.6**	**0.0**	**0.0**	**320.1**
1976	0.0	0.0	0.0	2.5	290.4	2.2	0.0	292.6	40.5	4.4	0.0	0.0	340.0
1977	0.0	0.0	0.0	3.0	292.8	2.0	0.0	294.8	39.6	3.9	0.0	0.0	341.3
1978	0.0	0.0	0.0	1.6	304.3	2.1	0.0	306.4	60.9	1.7	0.0	0.0	370.6
1979	1.3	0.0	1.3	6.9	285.2	2.6	0.0	287.9	66.1	3.9	0.0	0.0	366.1
1980	**18.1**	**0.0**	**18.1**	**5.1**	**287.5**	**3.6**	**0.0**	**291.1**	**35.3**	**1.0**	**0.0**	**0.0**	**350.5**
1981	22.1	0.0	22.1	6.9	254.5	1.7	0.0	256.2	47.8	3.8	0.0	0.0	336.8
1982	83.7	0.0	83.7	16.0	194.3	2.4	0.0	196.7	46.2	2.0	0.0	0.0	344.6
1983	90.8	0.0	90.8	25.7	170.1	3.0	0.0	173.1	66.1	2.3	0.0	0.0	358.0
1984	108.0	0.0	108.0	34.1	168.3	5.9	0.0	174.2	11.2	2.4	0.0	0.0	329.9
1985	**102.6**	**0.0**	**102.6**	**46.9**	**148.7**	**4.8**	**0.0**	**153.4**	**66.3**	**46.6**	**0.0**	**0.0**	**415.9**
1986	95.1	0.0	95.1	15.3	201.5	6.0	0.0	207.5	26.1	40.6	0.0	0.0	384.6
1987	112.0	0.0	112.0	41.2	173.6	6.5	0.0	180.2	12.2	52.2	0.0	0.0	397.9
1988	111.7	0.0	111.7	20.5	192.8	8.9	0.0	201.7	12.0	30.9	0.0	0.0	376.8
1989	116.4	0.0	116.4	50.8	186.3	9.6	0.0	195.9	32.3	23.6	0.0	0.0	419.0

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 147. Energy Consumption Estimates by Source, 1960-1989, Michigan

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**25,934**	**370**	**2,936**	**1,312**	**30,235**	**3,369**	**4,072**	**2,827**	**2,497**	**65,782**	**11,840**	**4,713**	**129,582**	**0**	**3,280**	**0**	**0**	**9,080**	
1961	25,371	408	2,562	1,263	30,350	3,538	6,286	2,771	2,430	65,750	10,447	4,800	130,197	0	2,966	0	0	9,908	
1962	27,687	444	2,850	1,774	30,912	4,115	6,985	3,059	2,462	68,012	9,640	4,897	134,706	*	1,770	0	0	10,724	
1963	30,219	465	2,614	1,942	30,108	4,153	6,145	3,813	2,461	71,934	10,136	6,362	139,669	122	923	0	4	12,600	
1964	31,047	499	2,093	2,203	29,363	4,436	6,033	3,509	2,584	74,245	9,178	8,684	142,328	192	1,172	0	0	11,870	
1965	**33,132**	**556**	**2,264**	**2,619**	**30,287**	**4,377**	**5,880**	**3,716**	**3,025**	**78,044**	**8,594**	**8,810**	**147,615**	**181**	**1,400**	**0**	**0**	**11,513**	
1966	35,638	616	3,137	3,282	31,328	5,126	4,604	4,417	3,142	82,406	8,103	9,051	154,596	343	1,767	0	0	6,409	
1967	34,715	686	3,159	3,591	36,559	6,201	2,880	5,439	2,554	84,406	5,647	8,884	159,322	502	1,993	0	0	3,797	
1968	37,387	701	3,593	4,749	36,544	7,421	2,922	5,716	2,806	90,795	5,764	9,628	169,937	426	1,672	0	0	7,138	
1969	36,688	777	3,257	4,886	36,928	7,798	2,788	6,626	3,099	95,354	7,278	9,919	177,934	401	1,470	0	0	11,551	
1970	**34,066**	**809**	**3,881**	**718**	**38,141**	**7,365**	**3,124**	**6,202**	**3,157**	**96,831**	**10,056**	**10,180**	**179,654**	**375**	**1,303**	**0**	**0**	**12,620**	
1971	34,556	851	3,766	257	41,724	7,195	3,018	6,755	2,785	99,540	11,173	8,875	185,088	388	2,290	0	0	12,590	
1972	34,666	865	4,638	497	47,365	6,905	2,645	7,993	2,982	105,198	13,078	9,248	200,548	2,125	4,297	0	0	21,021	
1973	32,632	920	5,366	583	46,932	6,959	1,995	8,092	3,676	110,100	15,822	10,053	209,578	2,980	4,621	0	0	30,759	
1974	29,804	936	4,871	204	43,673	6,460	1,600	7,845	3,521	107,057	16,692	10,327	202,249	416	4,829	0	0	27,244	
1975	**31,198**	**884**	**3,886**	**347**	**42,170**	**5,776**	**1,349**	**7,475**	**2,751**	**108,255**	**18,291**	**10,282**	**200,582**	**7,176**	**1,430**	**0**	**0**	**4,840**	
1976	29,763	888	3,487	380	44,130	5,735	1,551	8,748	3,056	113,506	21,102	12,790	214,483	9,901	3,828	0	0	11,949	
1977	28,926	741	4,142	438	44,829	6,290	1,421	8,793	3,272	114,812	22,126	14,282	220,404	10,231	7,042	0	0	11,964	
1978	28,519	790	4,376	469	45,149	6,499	1,360	9,051	3,513	117,526	25,452	15,563	228,959	13,104	7,812	0	0	-3,246	
1979	31,570	876	4,163	384	31,268	6,639	1,535	7,515	3,676	108,261	19,046	17,423	199,909	15,139	1,314	0	1	4,037	
1980	**31,110**	**865**	**3,507**	**488**	**27,643**	**6,646**	**1,233**	**6,736**	**3,274**	**97,025**	**13,289**	**17,491**	**177,332**	**15,891**	**6,885**	**0**	**0**	**-13,005**	
1981	31,610	801	3,550	250	26,630	6,131	992	5,572	3,140	92,783	7,825	10,125	156,997	17,066	5,682	0	0	-13,900	
1982	29,280	748	2,602	157	22,943	5,706	743	7,107	2,863	88,179	4,891	8,332	143,524	15,003	3,351	0	0	4,848	
1983	29,647	696	2,739	324	22,176	5,892	557	7,150	2,998	88,646	4,464	8,033	142,979	16,383	2,499	0	0	15,682	
1984	31,412	718	2,790	181	23,882	5,983	536	11,565	3,197	92,952	4,037	9,236	154,358	14,078	1,627	0	0	22,667	
1985	**32,793**	**709**	**2,779**	**201**	**25,411**	**6,570**	**771**	**17,960**	**2,979**	**93,424**	**3,638**	**8,438**	**162,172**	**13,452**	**1,388**	**0**	**0**	**21,501**	
1986	33,999	671	3,384	250	26,499	7,129	423	19,432	2,913	96,017	4,315	9,199	169,561	12,257	1,408	0	0	18,363	
1987	35,865	657	3,506	242	25,320	8,371	371	19,822	3,293	98,925	3,418	9,605	172,872	14,389	1,251	0	0	-3,041	
1988	35,355	749	2,876	241	27,630	8,585	426	21,140	3,176	102,502	4,973	9,678	181,228	17,808	764	0	0	863	
1989	34,932	774	3,863	268	24,873	9,235	559	22,217	3,257	101,095	5,032	9,607	180,008	21,312	-4,560	0	0	11,938	
										Trillion Btu									
1960	**653.2**	**383.0**	**19.5**	**6.6**	**176.1**	**18.2**	**23.1**	**11.3**	**15.1**	**345.6**	**74.4**	**27.8**	**717.8**	**0.0**	**35.3**	**0.0**	**0.0**	**31.0**	**1,820.3**
1961	637.5	422.6	17.0	6.4	176.8	19.1	35.6	11.1	14.7	345.4	65.7	28.3	720.2	0.0	31.6	0.0	0.0	33.8	1,845.7
1962	696.0	459.2	18.9	9.0	180.1	22.3	39.6	12.3	14.9	357.3	60.6	28.9	743.9	*	18.7	0.0	0.0	36.6	1,954.3
1963	759.0	470.5	17.3	9.8	175.4	22.5	34.8	15.3	14.9	377.9	63.7	36.8	768.6	1.5	9.7	0.0	*	43.0	2,052.2
1964	781.0	505.8	13.9	11.1	171.0	24.1	34.2	14.1	15.7	390.0	57.7	49.1	781.0	2.3	12.3	0.0	0.0	40.5	2,122.8
1965	**830.2**	**563.6**	**15.0**	**13.2**	**176.4**	**24.0**	**33.3**	**14.9**	**18.3**	**410.0**	**54.0**	**49.8**	**809.0**	**2.1**	**14.6**	**0.0**	**0.0**	**39.3**	**2,258.9**
1966	897.2	626.8	20.8	16.6	182.5	28.2	26.1	17.7	19.1	432.9	50.9	50.9	845.6	4.0	18.4	0.0	0.0	21.9	2,413.9
1967	870.6	699.1	21.0	18.1	213.0	34.2	16.3	20.9	15.5	443.4	35.5	49.8	867.6	5.8	20.8	0.0	0.0	13.0	2,476.9
1968	933.6	711.0	23.8	24.0	212.9	41.0	16.6	21.8	17.0	476.9	36.2	53.9	924.1	4.8	17.4	0.0	0.0	24.4	2,615.4
1969	908.9	788.2	21.6	24.7	215.1	43.3	15.8	25.2	18.8	500.9	45.8	55.5	966.6	4.4	15.4	0.0	0.0	39.4	2,722.9
1970	**828.9**	**821.3**	**25.8**	**3.6**	**222.2**	**41.0**	**17.7**	**23.4**	**19.1**	**508.7**	**63.2**	**56.9**	**981.6**	**4.1**	**13.7**	**0.0**	**0.0**	**43.1**	**2,692.6**
1971	837.6	863.3	25.0	1.3	243.0	40.0	17.1	25.5	16.9	522.9	70.2	49.9	1,011.8	4.2	24.0	0.0	0.0	43.0	2,783.9
1972	843.7	877.7	30.8	2.5	275.9	38.4	15.0	30.1	18.1	552.6	82.2	51.9	1,097.4	22.9	44.6	0.0	0.0	71.7	2,958.1
1973	791.3	929.6	35.6	2.9	273.4	38.8	11.3	30.3	22.3	578.4	99.5	56.6	1,149.0	32.5	48.0	0.0	0.0	105.0	3,055.3
1974	710.0	942.6	32.3	1.0	254.4	35.9	9.1	29.3	21.4	562.4	104.9	58.0	1,108.7	4.6	50.4	0.0	0.0	93.0	2,909.3
1975	**751.0**	**894.8**	**25.8**	**1.7**	**245.6**	**32.1**	**7.6**	**27.8**	**16.7**	**568.7**	**115.0**	**58.2**	**1,099.2**	**79.0**	**14.9**	**0.0**	**0.0**	**16.5**	**2,855.4**
1976	717.7	895.1	23.1	1.9	257.1	31.9	8.8	32.5	18.5	596.2	132.7	72.0	1,174.6	109.4	39.7	0.0	0.0	40.8	2,977.3
1977	693.0	745.7	27.5	2.2	261.1	35.0	8.1	32.3	19.8	603.1	139.1	80.5	1,208.8	110.2	73.5	0.0	0.0	40.8	2,872.0
1978	671.3	793.9	29.0	2.4	263.0	36.3	7.7	33.2	21.3	617.4	160.0	87.7	1,258.1	143.4	80.9	0.0	0.0	-11.1	2,936.5
1979	758.9	880.4	27.6	1.9	182.1	37.1	8.7	27.7	22.3	568.7	119.7	97.0	1,092.9	164.7	13.6	0.0	*	13.8	2,924.3
1980	**759.0**	**874.7**	**23.3**	**2.5**	**161.0**	**37.1**	**7.0**	**24.7**	**19.9**	**509.7**	**83.6**	**96.5**	**965.2**	**173.3**	**71.5**	**0.0**	**0.0**	**-44.4**	**2,799.3**
1981	757.5	814.5	23.6	1.3	155.1	34.3	5.6	20.3	19.0	487.4	49.2	56.1	851.8	188.2	59.4	0.0	0.0	-47.4	2,624.0
1982	711.4	764.6	17.3	0.8	133.6	31.8	4.2	25.7	17.4	463.2	30.7	46.2	770.9	166.1	35.0	0.0	0.0	16.5	2,464.6
1983	706.6	713.2	18.2	1.6	129.2	32.9	3.2	25.8	18.2	465.7	28.1	45.1	767.9	178.7	26.3	0.0	0.0	53.5	2,446.1
1984	747.6	730.3	18.5	0.9	139.1	33.4	3.0	41.6	19.4	488.3	25.4	50.7	820.3	152.7	16.8	0.0	0.0	77.3	2,545.0
1985	**781.9**	**719.9**	**18.4**	**1.0**	**148.0**	**36.7**	**4.4**	**64.7**	**18.1**	**490.8**	**22.9**	**46.6**	**851.6**	**145.5**	**14.4**	**0.0**	**0.0**	**73.4**	**2,586.5**
1986	811.9	689.4	22.5	1.3	154.4	39.9	2.4	70.7	17.7	504.4	27.1	51.0	891.3	132.4	14.5	0.0	0.0	62.7	2,602.1
1987	840.2	671.2	23.3	1.2	147.5	46.9	2.1	72.5	20.0	519.7	21.5	52.9	907.5	155.1	12.8	0.0	0.0	-10.4	2,576.5
1988	831.5	765.7	19.1	1.2	160.9	48.1	2.4	77.2	19.3	538.4	31.3	53.6	951.6	191.3	7.8	0.0	0.0	2.9	2,750.9
1989	800.5	796.9	25.6	1.4	144.9	51.8	3.2	81.8	19.8	531.1	31.6	53.1	944.3	228.6	-47.1	0.0	0.0	40.7	2,763.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 148. Residential Energy Consumption Estimates, 1960-1989, Michigan

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**834**	**8**	**842**	**202**	**17,380**	**765**	**1,940**	**20,084**	**8,728**	**21,709**		
1961	853	8	861	218	17,186	1,153	1,885	20,225	9,180	22,373		
1962	832	7	839	234	17,418	1,310	2,042	20,771	9,551	22,961		
1963	705	6	712	243	16,716	1,260	2,599	20,576	9,956	23,809		
1964	545	6	551	251	15,875	1,275	2,338	19,488	10,573	25,181		
1965	**615**	**5**	**620**	**271**	**16,334**	**1,279**	**2,346**	**19,959**	**11,309**	**27,002**		
1966	639	4	643	287	16,547	1,005	3,012	20,565	12,326	29,575		
1967	486	4	490	302	18,241	453	3,856	22,550	13,223	31,591		
1968	459	4	463	316	18,779	475	3,995	23,248	14,528	34,662		
1969	397	3	400	333	18,182	475	4,640	23,297	15,841	37,839		
1970	**299**	**3**	**302**	**340**	**18,839**	**545**	**4,493**	**23,877**	**17,103**	**41,446**		
1971	301	3	304	344	20,656	572	4,906	26,135	18,168	43,924		
1972	217	2	219	355	21,807	572	5,850	28,228	19,397	46,688		
1973	209	2	211	342	21,202	421	5,822	27,445	20,246	48,469		
1974	166	2	168	346	19,555	354	5,479	25,388	20,288	49,468		
1975	**138**	**2**	**140**	**335**	**19,420**	**302**	**5,219**	**24,942**	**20,886**	**50,380**		
1976	149	2	151	339	19,155	313	5,787	25,255	21,323	51,363		
1977	129	2	131	299	19,207	273	5,470	24,950	21,709	52,421		
1978	101	1	102	328	19,667	249	5,226	25,142	21,858	53,476		
1979	46	1	47	369	11,527	142	3,425	15,094	22,042	53,195		
1980	**107**	**1**	**108**	**387**	**9,195**	**83**	**3,375**	**12,653**	**22,260**	**54,129**		
1981	63	1	64	362	7,894	206	2,961	11,061	21,530	51,312		
1982	81	1	82	359	6,312	559	3,276	10,148	21,276	51,103		
1983	57	1	58	341	4,942	440	3,897	9,279	21,946	52,579		
1984	101	1	102	339	5,337	459	7,006	12,801	22,309	51,806		
1985	**88**	**1**	**89**	**341**	**5,964**	**647**	**7,322**	**13,933**	**22,302**	**52,298**		
1986	90	0	90	330	5,883	349	7,998	14,230	23,025	52,791		
1987	42	0	42	314	5,214	286	8,755	14,256	24,032	54,769		
1988	61	0	61	349	5,820	359	10,318	16,496	25,316	57,172		
1989	62	0	62	362	4,771	424	10,462	15,657	25,319	56,793		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**20.6**	**0.2**	**20.8**	**209.0**	**101.2**	**4.3**	**7.8**	**113.4**	**29.8**	**373.0**	**74.1**	**447.1**
1961	21.1	0.2	21.3	225.7	100.1	6.5	7.6	114.2	31.3	392.6	76.3	468.9
1962	20.6	0.2	20.7	242.7	101.5	7.4	8.2	117.1	32.6	413.1	78.3	491.4
1963	17.4	0.1	17.6	245.8	97.4	7.1	10.4	114.9	34.0	412.3	81.2	493.5
1964	13.4	0.1	13.6	254.2	92.5	7.2	9.4	109.1	36.1	413.0	85.9	498.9
1965	**15.2**	**0.1**	**15.3**	**274.8**	**95.1**	**7.3**	**9.4**	**111.8**	**38.6**	**440.5**	**92.1**	**532.6**
1966	15.7	0.1	15.8	291.7	96.4	5.7	12.1	114.2	42.1	463.7	100.9	564.6
1967	11.9	0.1	12.0	308.2	106.3	2.6	14.8	123.6	45.1	488.9	107.8	596.7
1968	11.2	0.1	11.3	320.4	109.4	2.7	15.3	127.3	49.6	508.6	118.3	626.9
1969	9.6	0.1	9.7	338.3	105.9	2.7	17.7	126.3	54.0	528.3	129.1	657.4
1970	**7.1**	**0.1**	**7.2**	**345.1**	**109.7**	**3.1**	**17.0**	**129.8**	**58.4**	**540.5**	**141.4**	**681.9**
1971	7.1	0.1	7.2	348.9	120.3	3.2	18.5	142.1	62.0	560.2	149.9	710.0
1972	5.1	0.1	5.2	366.5	127.0	3.2	22.0	152.3	66.2	590.1	159.3	749.4
1973	4.9	0.1	5.0	353.1	123.5	2.4	21.8	147.7	69.1	574.8	165.4	740.2
1974	3.8	*	3.9	355.3	113.9	2.0	20.4	136.4	69.2	564.8	168.8	733.6
1975	**3.2**	*	**3.3**	**343.0**	**113.1**	**1.7**	**19.4**	**134.2**	**71.3**	**551.7**	**171.9**	**723.6**
1976	3.5	*	3.6	347.4	111.6	1.8	21.5	134.8	72.8	558.5	175.2	733.8
1977	3.0	*	3.1	305.2	111.9	1.5	20.1	133.5	74.1	515.8	178.9	694.7
1978	2.3	*	2.4	333.7	114.6	1.4	19.2	135.1	74.6	545.8	182.5	728.3
1979	1.1	*	1.1	376.8	67.1	0.8	12.6	80.6	75.2	533.7	181.5	715.2
1980	**2.6**	*	**2.6**	**394.9**	**53.6**	**0.5**	**12.4**	**66.4**	**76.0**	**539.9**	**184.7**	**724.6**
1981	1.5	*	1.5	371.1	46.0	1.2	10.8	57.9	73.5	504.1	175.1	679.2
1982	2.0	*	2.0	368.9	36.8	3.2	11.8	51.8	72.6	495.3	174.4	669.6
1983	1.4	*	1.4	354.0	28.8	2.5	14.1	45.4	74.9	475.7	179.4	655.1
1984	2.5	*	2.5	346.7	31.1	2.6	25.2	58.9	76.1	484.2	176.8	661.0
1985	**2.1**	*	**2.2**	**348.9**	**34.7**	**3.7**	**26.4**	**64.8**	**76.1**	**491.9**	**178.4**	**670.4**
1986	2.2	0.0	2.2	342.9	34.3	2.0	29.1	65.4	78.6	489.0	180.1	669.2
1987	1.0	0.0	1.0	324.1	30.4	1.6	32.0	64.0	82.0	471.2	186.9	658.1
1988	1.5	0.0	1.5	362.3	33.9	2.0	37.7	73.6	86.4	523.8	195.1	718.9
1989	1.5	0.0	1.5	380.4	27.8	2.4	38.5	68.7	86.4	537.1	193.8	730.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 149. Commercial Energy Consumption Estimates, 1960-1989, Michigan

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**1,549**	**6**	**1,554**	**43**	**3,212**	**566**	**342**	**324**	**1,175**	**5,619**	**6,381**	**15,872**		
1961	1,585	5	1,590	43	3,176	853	333	340	1,002	5,704	6,772	16,504		
1962	1,545	4	1,550	64	3,219	969	360	433	877	5,858	7,286	17,516		
1963	1,310	4	1,314	69	3,089	932	459	427	978	5,885	7,865	18,810		
1964	1,011	4	1,015	74	2,934	943	413	487	932	5,708	8,533	20,321		
1965	**1,143**	**3**	**1,146**	**85**	**3,019**	**946**	**414**	**536**	**839**	**5,754**	**9,124**	**21,785**		
1966	1,187	3	1,189	95	3,058	743	532	599	757	5,689	9,880	23,707		
1967	902	3	905	108	3,371	335	680	599	452	5,438	10,489	25,058		
1968	853	2	855	117	3,471	351	705	711	433	5,670	11,401	27,203		
1969	737	2	739	130	3,360	351	819	762	620	5,913	12,222	29,196		
1970	**555**	**2**	**557**	**133**	**3,482**	**403**	**793**	**804**	**558**	**6,040**	**13,021**	**31,553**		
1971	559	2	561	146	3,818	423	866	774	454	6,334	13,784	33,324		
1972	403	2	405	160	4,030	423	1,032	928	576	6,989	14,509	34,924		
1973	388	2	389	180	3,918	312	1,027	938	512	6,708	15,557	37,243		
1974	308	1	309	189	3,614	262	967	950	488	6,280	15,308	37,325		
1975	**257**	**1**	**258**	**182**	**3,589**	**224**	**921**	**954**	**390**	**6,078**	**14,596**	**35,207**		
1976	277	1	278	178	3,540	231	1,021	1,044	769	6,606	15,233	36,695		
1977	240	1	241	131	3,550	202	965	991	942	6,649	15,820	38,200		
1978	188	1	188	143	3,635	184	922	984	738	6,464	16,037	39,235		
1979	85	1	86	182	2,130	105	604	712	482	4,033	16,672	40,235		
1980	**199**	**1**	**200**	**190**	**3,123**	**15**	**596**	**823**	**225**	**4,781**	**16,765**	**40,767**		
1981	118	*	118	175	2,367	19	522	884	113	3,906	16,822	40,091		
1982	151	*	151	170	2,131	18	578	889	217	3,832	16,760	40,255		
1983	107	*	107	160	2,489	17	688	844	63	4,100	17,176	41,151		
1984	188	*	189	161	2,688	14	1,236	1,024	58	5,020	17,933	41,644		
1985	**163**	**1**	**164**	**158**	**2,359**	**17**	**1,292**	**699**	**330**	**4,698**	**18,421**	**43,197**		
1986	167	0	167	136	2,955	14	1,411	706	277	5,363	19,137	43,876		
1987	77	0	77	186	1,747	13	1,545	725	140	4,170	19,850	45,238		
1988	114	0	114	168	2,430	17	1,821	755	207	5,229	20,876	47,145		
1989	114	0	114	176	2,078	61	1,846	670	115	4,770	21,480	48,180		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**38.3**	**0.1**	**38.5**	**44.5**	**18.7**	**3.2**	**1.4**	**1.7**	**7.4**	**32.4**	**21.8**	**137.1**	**54.2**	**191.3**
1961	39.2	0.1	39.3	44.3	18.5	4.8	1.3	1.8	6.3	32.8	23.1	139.5	56.3	195.8
1962	38.2	0.1	38.3	66.8	18.8	5.5	1.4	2.3	5.5	33.5	24.9	163.4	59.8	223.2
1963	32.4	0.1	32.5	69.5	18.0	5.3	1.8	2.2	6.2	33.5	26.8	162.3	64.2	226.5
1964	25.0	0.1	25.1	75.3	17.1	5.3	1.7	2.6	5.9	32.5	29.1	162.0	69.3	231.4
1965	**28.1**	**0.1**	**28.2**	**86.0**	**17.6**	**5.4**	**1.7**	**2.8**	**5.3**	**32.7**	**31.1**	**178.1**	**74.3**	**252.4**
1966	29.1	0.1	29.2	96.9	17.8	4.2	2.1	3.1	4.8	32.1	33.7	191.9	80.9	272.8
1967	22.0	0.1	22.1	109.8	19.6	1.9	2.6	3.1	2.8	30.1	35.8	197.9	85.5	283.4
1968	20.8	0.1	20.9	118.9	20.2	2.0	2.7	3.7	2.7	31.4	38.9	210.0	92.8	302.8
1969	17.9	0.1	17.9	132.0	19.6	2.0	3.1	4.0	3.9	32.6	41.7	224.2	99.6	323.8
1970	**13.2**	*	**13.3**	**134.7**	**20.3**	**2.3**	**3.0**	**4.2**	**3.5**	**33.3**	**44.4**	**225.7**	**107.7**	**333.3**
1971	13.2	*	13.2	148.4	22.2	2.4	3.3	4.1	2.9	34.8	47.0	243.5	113.7	357.2
1972	9.5	*	9.5	165.0	23.5	2.4	3.9	4.9	3.6	38.3	49.5	262.3	119.2	381.5
1973	9.1	*	9.2	186.3	22.8	1.8	3.8	4.9	3.2	36.6	53.1	285.2	127.1	412.3
1974	7.1	*	7.2	194.2	21.1	1.5	3.6	5.0	3.1	34.2	52.2	287.8	127.4	415.2
1975	**6.0**	*	**6.1**	**186.4**	**20.9**	**1.3**	**3.4**	**5.0**	**2.4**	**33.1**	**49.8**	**275.3**	**120.1**	**395.4**
1976	6.5	*	6.6	182.4	20.6	1.3	3.8	5.5	4.8	36.0	52.0	277.0	125.2	402.2
1977	5.6	*	5.6	133.9	20.7	1.1	3.5	5.2	5.9	36.5	54.0	230.0	130.3	360.3
1978	4.3	*	4.3	145.3	21.2	1.0	3.4	5.2	4.6	35.4	54.7	239.8	133.9	373.7
1979	2.0	*	2.1	186.0	12.4	0.6	2.2	3.7	3.0	22.0	56.9	266.9	137.3	404.2
1980	**4.8**	*	**4.9**	**194.0**	**18.2**	**0.1**	**2.2**	**4.3**	**1.4**	**26.2**	**57.2**	**282.3**	**139.1**	**421.4**
1981	2.9	*	2.9	179.3	13.8	0.1	1.9	4.6	0.7	21.2	57.4	260.7	136.8	397.5
1982	3.7	*	3.7	175.1	12.4	0.1	2.1	4.7	1.4	20.6	57.2	256.6	137.4	393.9
1983	2.6	*	2.6	166.1	14.5	0.1	2.5	4.4	0.4	21.9	58.6	249.3	140.4	389.7
1984	4.6	*	4.6	164.6	15.7	0.1	4.4	5.4	0.4	25.9	61.2	256.4	142.1	398.4
1985	**4.0**	*	**4.0**	**161.4**	**13.7**	**0.1**	**4.7**	**3.7**	**2.1**	**24.2**	**62.9**	**252.5**	**147.4**	**399.9**
1986	4.2	0.0	4.2	140.8	17.2	0.1	5.1	3.7	1.7	27.9	65.3	238.1	149.7	387.8
1987	1.9	0.0	1.9	191.8	10.2	0.1	5.7	3.8	0.9	20.6	67.7	282.0	154.4	436.4
1988	2.8	0.0	2.8	174.6	14.2	0.1	6.6	4.0	1.3	26.2	71.2	274.8	160.9	435.7
1989	2.8	0.0	2.8	185.3	12.1	0.3	6.8	3.5	0.7	23.5	73.3	284.9	164.4	449.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 150. Industrial Energy Consumption Estimates, 1960–1989, Michigan

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**12,896**	**115**	**13,011**	**117**	**2,936**	**7,091**	**2,741**	**524**	**1,221**	**3,151**	**9,574**	**4,713**	**31,950**	**212**	**12,482**	**31,046**
1961	12,477	103	12,579	137	2,562	6,755	4,280	529	1,188	2,941	8,150	4,800	31,204	152	12,199	29,732
1962	13,146	95	13,241	140	2,850	6,790	4,706	627	1,351	2,991	7,544	4,897	31,756	130	13,977	33,601
1963	14,764	105	14,869	149	2,614	6,426	3,953	720	1,351	2,949	8,137	6,362	32,514	123	15,634	37,387
1964	14,862	121	14,982	167	2,093	6,130	3,815	729	1,419	2,749	7,309	8,684	32,929	130	17,130	40,797
1965	**15,088**	**106**	**15,193**	**192**	**2,264**	**7,518**	**3,655**	**923**	**1,898**	**2,694**	**6,660**	**8,810**	**34,422**	**146**	**19,350**	**46,201**
1966	15,520	90	15,609	225	3,137	7,835	2,856	826	1,972	2,681	6,213	9,051	34,571	149	21,525	51,650
1967	14,182	89	14,271	262	3,159	9,626	2,092	814	1,518	2,827	3,798	8,884	32,718	171	21,914	52,352
1968	15,137	78	15,215	253	3,593	8,804	2,096	938	1,667	2,835	3,785	9,628	33,346	173	24,098	57,497
1969	13,509	65	13,574	289	3,257	8,886	1,962	1,076	1,800	3,073	4,933	9,919	34,906	158	25,895	61,855
1970	**13,007**	**54**	**13,061**	**262**	**3,881**	**8,502**	**2,175**	**854**	**1,834**	**2,758**	**4,557**	**10,180**	**34,740**	**123**	**25,169**	**60,992**
1971	13,124	42	13,165	275	3,766	9,433	2,023	903	1,478	2,495	3,562	8,875	32,536	156	27,287	65,970
1972	13,581	26	13,607	275	4,638	10,061	1,651	1,025	1,583	2,073	4,615	9,248	34,894	149	29,856	71,863
1973	11,485	25	11,510	324	5,366	10,116	1,262	1,142	2,072	2,305	4,243	10,053	36,558	164	32,914	78,796
1974	8,540	27	8,567	321	4,871	8,781	985	1,299	1,984	1,757	4,055	10,327	34,059	132	30,272	73,810
1975	**9,850**	**34**	**9,885**	**300**	**3,886**	**8,749**	**823**	**1,239**	**1,430**	**1,889**	**3,343**	**10,282**	**31,641**	**121**	**28,866**	**69,627**
1976	8,926	38	8,964	305	3,487	9,792	1,007	1,777	1,588	1,687	5,920	12,790	38,047	124	33,200	79,973
1977	7,494	31	7,526	267	4,142	9,841	947	2,146	1,795	1,494	6,809	14,282	41,457	127	34,513	83,340
1978	6,707	27	6,734	278	4,376	9,591	926	2,606	1,928	1,387	5,222	15,563	41,599	135	35,609	87,117
1979	8,287	17	8,304	274	4,163	5,677	1,288	3,262	2,017	872	3,270	17,423	37,972	121	35,203	84,956
1980	**8,622**	**30**	**8,652**	**249**	**3,507**	**4,804**	**1,135**	**2,637**	**1,796**	**967**	**3,213**	**17,491**	**35,551**	**117**	**30,656**	**74,545**
1981	8,004	16	8,020	232	3,550	5,347	767	1,788	1,723	890	2,021	10,125	26,211	117	30,858	73,543
1982	7,232	10	7,242	193	2,602	4,425	166	2,982	1,571	822	2,592	8,332	23,492	117	27,599	66,288
1983	6,592	18	6,610	175	2,739	3,703	100	2,244	1,645	595	3,359	8,033	22,418	117	30,153	72,241
1984	6,619	11	6,630	198	2,790	3,999	64	2,788	1,754	831	3,095	9,236	24,556	117	33,070	76,795
1985	**6,636**	**9**	**6,645**	**190**	**2,779**	**4,246**	**107**	**8,968**	**1,635**	**1,191**	**2,664**	**8,438**	**30,028**	**117**	**33,704**	**79,035**
1986	6,680	1	6,681	180	3,384	4,608	60	9,682	1,598	1,151	2,823	9,199	32,507	117	34,091	78,162
1987	4,891	1	4,892	134	3,506	4,264	72	9,157	1,807	1,142	2,104	9,605	31,656	117	35,098	79,989
1988	5,210	2	5,212	199	2,876	4,992	50	8,586	1,743	1,066	2,315	9,678	31,306	117	36,324	82,031
1989	4,781	4	4,785	201	3,863	3,772	74	9,562	1,787	1,073	2,259	9,607	31,999	117	36,131	81,044

Year	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu				
1960	**2.3**	**42.6**	**688.6**	**105.9**	**794.5**
1961	1.6	41.6	690.8	101.4	792.2
1962	1.4	47.7	719.1	114.6	833.8
1963	1.3	53.3	774.8	127.6	902.4
1964	1.4	58.4	802.5	139.2	941.7
1965	**1.5**	**66.0**	**848.8**	**157.6**	**1,006.5**
1966	1.6	73.4	899.2	176.2	1,075.4
1967	1.8	74.8	891.3	178.6	1,070.0
1968	1.8	82.2	915.4	196.2	1,111.6
1969	1.7	88.4	924.5	211.0	1,135.5
1970	**1.3**	**85.9**	**875.8**	**208.1**	**1,083.9**
1971	1.6	93.1	884.1	225.1	1,109.2
1972	1.5	101.9	921.9	245.2	1,167.0
1973	1.7	112.3	945.6	268.9	1,214.4
1974	1.4	103.3	843.1	251.8	1,095.0
1975	**1.3**	**98.5**	**838.0**	**237.6**	**1,075.6**
1976	1.3	113.3	871.9	272.9	1,144.7
1977	1.3	117.8	820.5	284.4	1,104.8
1978	1.4	121.5	813.3	297.2	1,110.5
1979	1.3	120.1	824.2	289.9	1,114.1
1980	**1.2**	**104.6**	**778.9**	**254.3**	**1,033.3**
1981	1.2	105.3	696.8	250.9	947.7
1982	1.2	94.2	609.3	226.2	835.5
1983	1.2	102.9	582.4	246.5	828.9
1984	1.2	112.8	622.5	262.0	884.6
1985	**1.2**	**115.0**	**635.9**	**269.7**	**905.6**
1986	1.2	116.3	644.7	266.7	911.4
1987	1.2	119.8	548.1	272.9	821.0
1988	1.2	123.9	627.8	279.9	907.7
1989	1.2	123.3	623.1	276.5	899.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 151. Transportation Energy Consumption Estimates, 1960-1989, Michigan

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**227**	**3**	**1,312**	**2,475**	**3,369**	**21**	**1,277**	**62,307**	**728**	**71,489**	**9**	**23**		
1961	58	2	1,263	3,151	3,538	24	1,242	62,470	916	72,604	7	17		
1962	54	2	1,774	3,405	4,115	29	1,110	64,588	847	75,871	5	12		
1963	56	3	1,942	3,801	4,153	35	1,110	68,558	671	80,271	0	0		
1964	56	5	2,203	4,358	4,436	29	1,166	71,008	633	83,832	0	0		
1965	**50**	**5**	**2,619**	**3,348**	**4,377**	**34**	**1,126**	**74,814**	**779**	**87,097**	**0**	**0**		
1966	47	7	3,282	3,759	5,126	48	1,170	79,127	528	93,039	0	0		
1967	35	9	3,591	5,121	6,201	89	1,036	80,980	461	97,479	0	0		
1968	33	8	4,749	5,284	7,421	79	1,138	87,250	577	106,497	0	0		
1969	23	9	4,886	6,247	7,798	91	1,300	91,519	541	112,382	0	0		
1970	**21**	**10**	**718**	**6,353**	**7,365**	**62**	**1,324**	**93,269**	**427**	**109,518**	**0**	**0**		
1971	17	15	257	6,132	7,195	80	1,307	96,271	78	111,319	0	0		
1972	14	16	497	9,645	6,693	85	1,399	102,196	279	120,795	0	0		
1973	8	12	583	10,453	6,807	101	1,605	106,857	421	126,826	0	0		
1974	4	11	204	9,837	6,336	99	1,537	104,350	454	122,818	0	0		
1975	**2**	**10**	**347**	**8,949**	**5,700**	**95**	**1,321**	**105,412**	**423**	**122,248**	**0**	**0**		
1976	1	12	380	9,916	5,698	162	1,468	110,775	286	128,685	0	0		
1977	*	12	438	10,595	6,271	211	1,476	112,327	271	131,591	0	0		
1978	0	4	469	11,137	6,480	296	1,585	115,155	208	135,330	0	0		
1979	0	12	384	11,427	6,624	223	1,659	106,677	206	127,201	0	0		
1980	**0**	**12**	**488**	**9,741**	**6,646**	**128**	**1,477**	**95,235**	**232**	**113,946**	**0**	**0**		
1981	0	14	250	10,382	6,131	301	1,417	91,008	299	109,789	0	0		
1982	0	13	157	9,568	5,706	270	1,292	86,469	65	103,527	0	0		
1983	0	8	324	10,585	5,892	321	1,353	87,207	100	105,784	0	0		
1984	0	11	181	11,310	5,983	535	1,442	91,097	106	110,655	0	0		
1985	**0**	**11**	**201**	**12,196**	**6,570**	**377**	**1,344**	**91,534**	**121**	**112,344**	**0**	**0**		
1986	0	15	250	12,542	7,129	340	1,314	94,160	59	115,794	0	0		
1987	0	12	242	13,689	8,371	365	1,486	97,058	58	121,268	0	0		
1988	0	18	241	13,893	8,585	416	1,433	100,680	31	125,280	0	0		
1989	0	17	268	13,795	9,235	347	1,470	99,352	124	124,591	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**5.6**	**2.7**	**6.6**	**14.4**	**18.2**	**0.1**	**7.7**	**327.3**	**4.6**	**378.9**	*	**387.3**	**0.1**	**387.4**
1961	1.4	1.8	6.4	18.4	19.1	0.1	7.5	328.2	5.8	385.4	*	388.6	0.1	388.7
1962	1.3	1.9	9.0	19.8	22.3	0.1	6.7	339.3	5.3	402.6	*	405.9	*	405.9
1963	1.4	2.7	9.8	22.1	22.5	0.1	6.7	360.1	4.2	425.7	0.0	429.8	0.0	429.8
1964	1.4	4.7	11.1	25.4	24.1	0.1	7.1	373.0	4.0	444.8	0.0	450.8	0.0	450.8
1965	**1.2**	**4.6**	**13.2**	**19.5**	**24.0**	**0.1**	**6.8**	**393.0**	**4.9**	**461.5**	**0.0**	**467.4**	**0.0**	**467.4**
1966	1.1	7.0	16.6	21.9	28.2	0.2	7.1	415.7	3.3	492.9	0.0	501.0	0.0	501.0
1967	0.8	9.0	18.1	29.8	34.2	0.3	6.3	425.4	2.9	517.0	0.0	526.9	0.0	526.9
1968	0.8	8.3	24.0	30.8	41.0	0.3	6.9	458.3	3.6	564.9	0.0	574.0	0.0	574.0
1969	0.6	8.9	24.7	36.4	43.3	0.3	7.9	480.7	3.4	596.7	0.0	606.1	0.0	606.1
1970	**0.5**	**10.5**	**3.6**	**37.0**	**41.0**	**0.2**	**8.0**	**489.9**	**2.7**	**582.5**	**0.0**	**593.5**	**0.0**	**593.5**
1971	0.4	15.7	1.3	35.7	40.0	0.3	7.9	505.7	0.5	591.4	0.0	607.5	0.0	607.5
1972	0.3	16.6	2.5	56.2	37.2	0.3	8.5	536.8	1.8	643.3	0.0	660.2	0.0	660.2
1973	0.2	12.4	2.9	60.9	37.9	0.4	9.7	561.3	2.6	675.8	0.0	688.4	0.0	688.4
1974	0.1	11.2	1.0	57.3	35.2	0.4	9.3	548.2	2.9	654.2	0.0	665.6	0.0	665.6
1975	*	**10.5**	**1.7**	**52.1**	**31.6**	**0.4**	**8.0**	**553.7**	**2.7**	**650.3**	**0.0**	**660.8**	**0.0**	**660.8**
1976	*	12.1	1.9	57.8	31.7	0.6	8.9	581.9	1.8	684.6	0.0	696.6	0.0	696.6
1977	*	11.8	2.2	61.7	34.9	0.8	9.0	590.1	1.7	700.3	0.0	712.2	0.0	712.2
1978	0.0	3.6	2.4	64.9	36.2	1.1	9.6	604.9	1.3	720.4	0.0	724.0	0.0	724.0
1979	0.0	12.7	1.9	66.6	37.0	0.8	10.1	560.4	1.3	678.1	0.0	690.8	0.0	690.8
1980	**0.0**	**12.6**	**2.5**	**56.7**	**37.1**	**0.5**	**9.0**	**500.3**	**1.5**	**607.5**	**0.0**	**620.1**	**0.0**	**620.1**
1981	0.0	14.0	1.3	60.5	34.3	1.1	8.6	478.1	1.9	585.6	0.0	599.6	0.0	599.6
1982	0.0	13.8	0.8	55.7	31.8	1.0	7.8	454.2	0.4	551.8	0.0	565.6	0.0	565.6
1983	0.0	8.2	1.6	61.7	32.9	1.2	8.2	458.1	0.6	564.3	0.0	572.4	0.0	572.4
1984	0.0	11.0	0.9	65.9	33.4	1.9	8.7	478.5	0.7	590.0	0.0	601.0	0.0	601.0
1985	**0.0**	**10.8**	**1.0**	**71.0**	**36.7**	**1.4**	**8.2**	**480.8**	**0.8**	**599.9**	**0.0**	**610.7**	**0.0**	**610.7**
1986	0.0	15.3	1.3	73.1	39.9	1.2	8.0	494.6	0.4	618.4	0.0	633.7	0.0	633.7
1987	0.0	12.6	1.2	79.7	46.9	1.3	9.0	509.8	0.4	648.5	0.0	661.0	0.0	661.0
1988	0.0	19.1	1.2	80.9	48.1	1.5	8.7	528.9	0.2	669.6	0.0	688.7	0.0	688.7
1989	0.0	17.7	1.4	80.4	51.8	1.3	8.9	521.9	0.8	666.4	0.0	684.1	0.0	684.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 152. Estimates of Energy Input at Electric Utilities, 1960–1989, Michigan

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**10,300**	**0**	**10,300**	**5**	**362**	**77**	**0**	**440**	**0**	**3,067**	**0**	**0**	
1961	10,283	0	10,283	8	379	81	0	460	0	2,814	0	0	
1962	12,003	0	12,003	3	372	80	0	452	*	1,640	0	0	
1963	13,268	0	13,268	2	349	75	0	423	122	800	0	4	
1964	14,442	0	14,442	2	304	65	0	369	192	1,041	0	0	
1965	**16,123**	**0**	**16,123**	**3**	**316**	**68**	**0**	**384**	**181**	**1,254**	**0**	**0**	
1966	18,148	0	18,148	2	604	129	0	733	343	1,618	0	0	
1967	19,015	0	19,015	5	937	200	0	1,137	502	1,822	0	0	
1968	20,820	0	20,820	7	969	207	0	1,175	426	1,498	0	0	
1969	21,952	0	21,952	15	1,183	253	0	1,436	401	1,311	0	0	
1970	**20,124**	**0**	**20,124**	**64**	**4,514**	**965**	**0**	**5,479**	**375**	**1,181**	**0**	**0**	
1971	20,508	0	20,508	70	7,079	1,686	0	8,765	388	2,134	0	0	
1972	20,421	0	20,421	59	7,608	2,034	0	9,642	2,125	4,148	0	0	
1973	20,513	0	20,513	62	10,646	1,395	0	12,041	2,980	4,457	0	0	
1974	20,755	0	20,755	69	11,694	2,010	0	13,704	416	4,698	0	0	
1975	**20,914**	**0**	**20,914**	**57**	**14,136**	**1,538**	**0**	**15,674**	**7,176**	**1,309**	**0**	**0**	
1976	20,369	0	20,369	54	14,127	1,763	0	15,889	9,901	3,704	0	0	
1977	21,028	0	21,028	32	14,104	1,654	0	15,758	10,231	6,915	0	0	
1978	21,495	0	21,495	36	19,285	1,139	0	20,423	13,104	7,677	0	0	
1979	23,134	0	23,134	38	15,089	521	0	15,610	15,139	1,192	0	1	
1980	**22,150**	**0**	**22,150**	**26**	**9,621**	**780**	**0**	**10,400**	**15,891**	**6,768**	**0**	**0**	
1981	23,407	0	23,407	19	5,392	639	0	6,031	17,066	5,566	0	0	
1982	21,806	0	21,806	13	2,018	507	0	2,524	15,003	3,235	0	0	
1983	22,872	0	22,872	13	941	456	0	1,397	16,383	2,383	0	0	
1984	24,491	0	24,491	10	778	547	0	1,325	14,078	1,510	0	0	
1985	**25,896**	**0**	**25,896**	**10**	**522**	**646**	**0**	**1,168**	**13,452**	**1,272**	**0**	**0**	
1986	27,061	0	27,061	11	1,155	511	0	1,666	12,257	1,292	0	0	
1987	30,854	0	30,854	11	1,116	406	0	1,522	14,389	1,134	0	0	
1988	29,968	0	29,968	15	2,419	496	0	2,915	17,808	648	0	0	
1989	29,972	0	29,972	19	2,534	457	0	2,991	21,312	-4,677	0	0	
	Trillion Btu												
1960	**256.3**	**0.0**	**256.3**	**5.4**	**2.3**	**0.5**	**0.0**	**2.7**	**0.0**	**33.0**	**0.0**	**0.0**	**297.4**
1961	255.1	0.0	255.1	8.5	2.4	0.5	0.0	2.9	0.0	30.0	0.0	0.0	296.4
1962	298.5	0.0	298.5	2.7	2.3	0.5	0.0	2.8	*	17.3	0.0	0.0	321.4
1963	329.6	0.0	329.6	2.1	2.2	0.4	0.0	2.6	1.5	8.4	0.0	*	344.1
1964	359.7	0.0	359.7	2.4	1.9	0.4	0.0	2.3	2.3	10.9	0.0	0.0	377.6
1965	**399.9**	**0.0**	**399.9**	**3.0**	**2.0**	**0.4**	**0.0**	**2.4**	**2.1**	**13.1**	**0.0**	**0.0**	**420.6**
1966	457.5	0.0	457.5	2.5	3.8	0.8	0.0	4.5	4.0	16.9	0.0	0.0	485.4
1967	478.0	0.0	478.0	4.8	5.9	1.2	0.0	7.1	5.8	19.0	0.0	0.0	514.6
1968	519.0	0.0	519.0	6.9	6.1	1.2	0.0	7.3	4.8	15.6	0.0	0.0	553.6
1969	541.7	0.0	541.7	15.7	7.4	1.5	0.0	8.9	4.4	13.7	0.0	0.0	584.5
1970	**487.0**	**0.0**	**487.0**	**65.2**	**28.4**	**5.6**	**0.0**	**34.0**	**4.1**	**12.4**	**0.0**	**0.0**	**602.6**
1971	496.1	0.0	496.1	70.9	44.5	9.8	0.0	54.3	4.2	22.4	0.0	0.0	647.8
1972	497.4	0.0	497.4	46.4	47.8	11.8	0.0	59.6	22.9	43.0	0.0	0.0	669.5
1973	494.2	0.0	494.2	42.7	66.9	8.1	0.0	75.0	32.5	46.3	0.0	0.0	690.8
1974	488.4	0.0	488.4	52.5	73.5	11.7	0.0	85.2	4.6	49.1	0.0	0.0	679.8
1975	**494.9**	**0.0**	**494.9**	**47.3**	**88.9**	**8.9**	**0.0**	**97.8**	**79.0**	**13.6**	**0.0**	**0.0**	**732.6**
1976	482.6	0.0	482.6	41.0	88.8	10.3	0.0	99.1	109.4	38.4	0.0	0.0	770.6
1977	495.5	0.0	495.5	22.4	88.7	9.6	0.0	98.3	110.2	72.2	0.0	0.0	798.5
1978	496.5	0.0	496.5	28.2	121.2	6.6	0.0	127.9	143.4	79.5	0.0	0.0	875.4
1979	546.5	0.0	546.5	25.6	94.9	3.0	0.0	97.9	164.7	12.3	0.0	*	847.1
1980	**532.2**	**0.0**	**532.2**	**19.4**	**60.5**	**4.5**	**0.0**	**65.0**	**173.3**	**70.3**	**0.0**	**0.0**	**860.3**
1981	549.8	0.0	549.8	12.6	33.9	3.7	0.0	37.6	188.2	58.2	0.0	0.0	846.4
1982	521.3	0.0	521.3	8.4	12.7	3.0	0.0	15.6	166.1	33.8	0.0	0.0	745.3
1983	534.2	0.0	534.2	2.7	5.9	2.7	0.0	8.6	178.7	25.1	0.0	0.0	749.2
1984	571.6	0.0	571.6	5.7	4.9	3.2	0.0	8.1	152.7	15.6	0.0	0.0	753.7
1985	**605.8**	**0.0**	**605.8**	**4.7**	**3.3**	**3.8**	**0.0**	**7.0**	**145.5**	**13.1**	**0.0**	**0.0**	**776.1**
1986	634.4	0.0	634.4	3.8	7.3	3.0	0.0	10.2	132.4	13.3	0.0	0.0	794.0
1987	713.6	0.0	713.6	4.3	7.0	2.4	0.0	9.4	155.1	11.6	0.0	0.0	894.0
1988	696.0	0.0	696.0	2.4	15.2	2.9	0.0	18.1	191.3	6.6	0.0	0.0	914.4
1989	676.1	0.0	676.1	2.0	15.9	2.7	0.0	18.6	228.6	-48.3	0.0	0.0	876.9

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 153. Energy Consumption Estimates by Source, 1960-1989, Minnesota

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**5,977**	**180**	**3,004**	**1,199**	**16,151**	**472**	**2,570**	**4,525**	**960**	**32,583**	**6,658**	**1,457**	**69,578**	**0**	**977**	**0**	**15**	**-3,263**	
1961	6,022	193	3,523	1,262	15,923	741	2,032	4,481	934	32,240	5,764	1,503	68,403	0	826	0	13	-2,922	
1962	5,977	214	3,358	869	16,765	1,108	2,305	4,646	858	33,491	6,358	1,617	71,375	0	965	0	14	-3,395	
1963	6,320	219	3,485	888	16,578	1,027	2,453	5,146	858	34,316	6,154	1,913	72,817	1	950	0	16	-3,805	
1964	7,052	237	3,549	918	16,801	1,583	2,456	5,006	901	34,266	5,640	2,346	73,464	56	1,066	0	16	-3,876	
1965	**7,260**	**249**	**3,791**	**803**	**18,960**	**2,624**	**2,313**	**5,781**	**759**	**35,278**	**4,980**	**2,440**	**77,729**	**143**	**1,204**	**0**	**14**	**-1,370**	
1966	7,745	264	3,615	685	20,798	2,954	2,901	6,493	789	37,149	4,904	2,905	83,192	129	1,299	0	12	-882	
1967	7,247	283	3,499	541	19,714	2,809	1,440	6,974	802	37,909	3,754	3,003	80,445	141	979	0	18	4,282	
1968	6,860	312	3,728	421	22,261	3,339	1,688	7,712	881	40,312	3,857	3,452	87,651	15	1,136	0	19	5,524	
1969	8,785	326	4,486	303	22,092	4,024	1,379	8,769	907	42,142	5,059	3,586	92,747	0	1,133	0	19	8,132	
1970	**8,787**	**342**	**4,413**	**277**	**22,356**	**3,491**	**1,685**	**8,887**	**924**	**44,122**	**5,159**	**3,911**	**95,224**	**0**	**1,020**	**0**	**19**	**11,382**	
1971	7,884	351	4,435	249	23,814	3,985	1,394	9,430	1,099	45,866	4,133	3,698	98,103	1,394	1,112	0	18	18,504	
1972	8,287	351	5,233	259	26,014	4,528	970	10,415	1,176	47,727	7,115	4,160	107,597	3,559	1,173	0	20	11,321	
1973	9,384	361	5,991	262	26,735	5,185	872	9,816	1,046	49,154	7,038	4,856	110,954	3,270	1,235	0	20	12,234	
1974	10,141	352	5,595	241	25,009	5,545	1,056	9,259	1,002	47,932	5,891	4,758	106,289	4,363	962	0	5	11,128	
1975	**10,120**	**331**	**4,628**	**215**	**24,369**	**5,629**	**856**	**9,187**	**1,003**	**48,253**	**4,326**	**4,770**	**103,236**	**9,750**	**1,101**	**0**	**4**	**6,217**	
1976	12,056	320	5,431	217	28,359	5,313	1,040	8,769	1,114	49,942	5,629	4,395	110,208	9,911	792	0	1	1,973	
1977	14,702	293	5,310	207	26,975	5,271	913	8,304	1,119	50,914	4,487	4,317	107,817	11,163	856	0	1	-12,145	
1978	14,374	313	5,462	241	28,693	5,093	674	7,326	1,202	52,943	4,395	4,425	110,454	11,591	2,361	0	3	-1,797	
1979	12,954	334	5,085	217	27,020	5,644	217	8,509	1,257	50,475	2,635	4,306	105,366	11,503	2,747	0	3	7,444	
1980	**13,810**	**286**	**3,565**	**193**	**21,382**	**5,142**	**212**	**7,697**	**1,120**	**46,211**	**3,183**	**4,144**	**92,848**	**10,027**	**1,739**	**0**	**2**	**8,135**	
1981	13,894	266	3,890	163	18,698	4,516	149	5,956	1,074	45,024	1,576	2,597	83,643	10,187	1,029	0	0	15,343	
1982	12,115	262	3,878	119	20,900	4,261	231	7,492	979	44,877	1,693	2,699	87,128	10,197	1,257	0	4	21,773	
1983	11,984	241	4,718	117	17,388	4,044	136	7,538	1,025	46,061	1,567	3,376	85,968	11,753	1,482	0	1	24,134	
1984	13,258	256	4,669	125	18,188	7,331	272	7,983	1,093	48,051	1,477	3,475	92,665	8,328	1,963	0	*	33,399	
1985	**12,744**	**257**	**4,989**	**154**	**19,399**	**7,781**	**279**	**8,563**	**1,019**	**45,693**	**992**	**3,354**	**92,224**	**11,572**	**3,642**	**0**	*****	**22,796**	
1986	11,327	245	5,480	225	18,886	7,801	125	9,568	996	45,777	2,160	3,546	94,565	11,052	7,941	0	0	16,490	
1987	14,504	240	5,860	178	18,265	5,656	80	7,601	1,126	46,910	1,261	4,006	90,942	11,554	2,806	0	41	21,383	
1988	17,285	284	4,897	166	19,910	5,142	138	8,244	1,086	48,877	1,373	5,089	94,922	12,288	-992	0	153	27,916	
1989	18,279	300	4,923	158	19,194	4,663	350	8,402	1,114	48,553	1,361	5,724	94,442	10,926	370	0	247	22,879	
													Trillion Btu						
1960	**131.3**	**186.1**	**19.9**	**6.1**	**94.1**	**2.6**	**14.6**	**18.1**	**5.8**	**171.2**	**41.9**	**8.7**	**382.9**	**0.0**	**10.5**	**0.0**	**0.2**	**-11.1**	**699.9**
1961	131.0	199.3	23.4	6.4	92.8	4.1	11.5	18.0	5.7	169.4	36.2	9.0	376.3	0.0	8.8	0.0	0.1	-10.0	705.6
1962	131.2	221.6	22.3	4.4	97.7	6.2	13.1	18.6	5.2	175.9	40.0	9.7	393.0	0.0	10.2	0.0	0.2	-11.6	744.6
1963	138.7	218.6	23.1	4.5	96.6	5.7	13.9	20.6	5.2	180.3	38.7	11.4	400.0	*	10.0	0.0	0.2	-13.0	754.5
1964	156.4	236.5	23.5	4.6	97.9	8.9	13.9	20.1	5.5	180.0	35.5	13.9	403.7	0.7	11.2	0.0	0.2	-13.2	795.4
1965	**160.0**	**248.2**	**25.2**	**4.1**	**110.4**	**14.8**	**13.1**	**23.2**	**4.6**	**185.3**	**31.3**	**14.4**	**426.4**	**1.7**	**12.6**	**0.0**	**0.1**	**-4.7**	**844.4**
1966	171.4	265.8	24.0	3.5	121.1	16.7	16.5	26.0	4.8	195.1	30.8	17.0	455.5	1.5	13.5	0.0	0.1	-3.0	904.9
1967	161.2	285.4	23.2	2.7	114.8	15.8	8.2	26.8	4.9	199.1	23.6	17.6	436.8	1.6	10.2	0.0	0.2	14.6	909.9
1968	150.6	315.0	24.7	2.1	129.7	18.8	9.6	29.4	5.3	211.8	24.2	20.3	476.0	0.2	11.8	0.0	0.2	18.8	972.6
1969	191.2	328.9	29.8	1.5	128.7	22.7	7.8	33.4	5.5	221.4	31.8	21.0	503.6	0.0	11.8	0.0	0.2	27.7	1,063.5
1970	**179.7**	**343.0**	**29.3**	**1.4**	**130.2**	**19.7**	**9.6**	**33.6**	**5.6**	**231.8**	**32.4**	**23.0**	**516.6**	**0.0**	**10.7**	**0.0**	**0.2**	**38.8**	**1,089.0**
1971	155.6	352.1	29.4	1.3	138.7	22.5	7.9	35.6	6.7	240.9	26.0	21.7	530.7	15.1	11.7	0.0	0.2	63.1	1,128.5
1972	161.6	352.1	34.7	1.3	151.5	25.6	5.5	39.2	7.1	250.7	44.7	24.4	584.8	38.4	12.2	0.0	0.2	38.6	1,187.9
1973	180.7	360.5	39.8	1.3	155.7	29.3	4.9	36.8	6.3	258.2	44.2	28.5	605.2	35.7	12.8	0.0	0.2	41.7	1,236.8
1974	188.7	352.0	37.1	1.2	145.7	31.4	6.0	34.5	6.1	251.8	37.0	28.0	578.8	48.7	10.0	0.0	*	38.0	1,216.2
1975	**191.5**	**331.5**	**30.7**	**1.1**	**141.9**	**31.9**	**4.9**	**34.1**	**6.1**	**253.5**	**27.2**	**28.1**	**559.4**	**107.4**	**11.5**	**0.0**	*****	**21.2**	**1,222.5**
1976	222.4	319.5	36.0	1.1	165.2	30.1	5.9	32.5	6.8	262.3	35.4	26.0	601.4	109.5	8.2	0.0	*	6.7	1,267.8
1977	264.9	292.5	35.2	1.0	157.1	29.8	5.2	30.5	6.8	267.5	28.2	25.6	587.0	120.2	8.9	0.0	*	-41.4	1,232.1
1978	255.7	312.2	36.2	1.2	167.1	28.8	3.8	26.9	7.3	278.1	27.6	26.2	603.4	126.8	24.5	0.0	*	-6.1	1,316.5
1979	229.5	332.6	33.7	1.1	157.4	31.9	1.2	31.3	7.6	265.1	16.6	25.5	571.6	125.1	28.4	0.0	*	25.4	1,312.7
1980	**242.4**	**285.0**	**23.7**	**1.0**	**124.5**	**29.1**	**1.2**	**28.3**	**6.8**	**242.7**	**20.0**	**24.5**	**501.8**	**109.4**	**18.1**	**0.0**	*****	**27.8**	**1,184.5**
1981	244.2	265.0	25.8	0.8	108.9	25.5	0.8	21.7	6.5	236.5	9.9	15.8	452.4	112.4	10.8	0.0	0.0	52.4	1,137.0
1982	212.5	263.3	25.7	0.6	121.7	24.1	1.3	27.1	5.9	235.7	10.6	16.4	469.3	112.9	13.1	0.0	*	74.3	1,145.6
1983	211.2	246.3	31.3	0.6	101.3	22.9	0.8	27.2	6.2	242.0	9.9	20.3	462.4	128.2	15.6	0.0	*	82.3	1,146.0
1984	231.4	256.4	31.0	0.6	105.9	41.5	1.5	28.7	6.6	252.4	9.3	20.8	498.5	90.3	20.3	0.0	*	114.0	1,210.8
1985	**226.1**	**258.5**	**33.1**	**0.8**	**113.0**	**44.1**	**1.6**	**30.9**	**6.2**	**240.0**	**6.2**	**20.4**	**496.2**	**125.1**	**37.7**	**0.0**	*****	**77.8**	**1,221.4**
1986	201.4	244.5	36.4	1.1	110.0	44.2	0.7	34.8	6.0	240.5	13.6	21.7	509.0	119.4	81.5	0.0	0.0	56.3	1,212.0
1987	256.0	239.8	38.9	0.9	106.4	32.0	0.5	27.8	6.8	246.4	7.9	24.1	491.7	124.5	28.8	0.0	0.4	73.0	1,214.1
1988	303.6	285.8	32.5	0.8	116.0	29.1	0.8	30.1	6.6	256.8	8.6	30.4	511.7	132.0	-10.2	0.0	1.6	95.2	1,319.8
1989	323.0	301.7	32.7	0.8	111.8	26.4	2.0	30.9	6.8	255.0	8.6	34.0	509.0	117.2	3.8	0.0	2.6	78.1	1,335.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 154. Residential Energy Consumption Estimates, 1960–1989, Minnesota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**330**	**0**	**330**	**61**	**5,414**	**1,748**	**3,108**	**10,270**	**4,186**	**10,411**
1961	335	0	335	67	5,170	1,462	3,138	9,770	4,543	11,073
1962	257	0	257	72	5,788	1,618	3,310	10,716	4,834	11,621
1963	221	0	221	71	5,495	1,648	3,619	10,762	5,199	12,434
1964	179	0	179	79	5,443	1,640	3,588	10,671	5,607	13,354
1965	**216**	**0**	**216**	**86**	**6,309**	**1,556**	**4,043**	**11,908**	**6,063**	**14,476**
1966	248	0	248	87	6,840	1,904	4,740	13,484	6,571	15,768
1967	224	0	224	89	7,004	875	5,162	13,042	6,919	16,530
1968	248	0	248	90	7,452	1,150	5,509	14,111	7,607	18,150
1969	295	0	295	96	7,145	979	6,260	14,384	8,303	19,834
1970	**200**	**0**	**200**	**102**	**7,197**	**1,195**	**6,390**	**14,782**	**9,031**	**21,886**
1971	184	0	184	102	7,834	969	6,851	15,655	9,297	22,477
1972	101	0	101	107	8,467	688	7,593	16,748	9,945	23,938
1973	92	0	92	103	8,239	635	6,920	15,794	10,009	23,962
1974	112	0	112	113	7,473	719	6,387	14,579	10,012	24,411
1975	**81**	**0**	**81**	**114**	**7,242**	**558**	**6,040**	**13,840**	**10,189**	**24,578**
1976	54	0	54	106	8,850	659	6,128	15,637	10,474	25,231
1977	40	0	40	100	8,489	572	5,668	14,728	10,368	25,035
1978	73	0	73	107	8,587	394	4,440	13,421	11,315	27,682
1979	105	0	105	112	7,165	97	3,250	10,512	11,511	27,780
1980	**50**	**0**	**50**	**103**	**5,946**	**114**	**2,929**	**8,989**	**11,749**	**28,570**
1981	46	0	46	96	4,818	115	2,666	7,599	12,281	29,269
1982	57	0	57	108	6,206	191	2,816	9,213	12,773	30,679
1983	62	0	62	98	3,131	91	3,349	6,571	13,392	32,085
1984	83	0	83	102	3,381	220	3,799	7,400	13,028	30,254
1985	**77**	**0**	**77**	**107**	**3,826**	**208**	**3,970**	**8,004**	**13,261**	**31,098**
1986	68	0	68	103	3,998	89	4,438	8,525	13,259	30,401
1987	60	0	60	90	3,887	66	3,813	7,766	13,834	31,527
1988	82	0	82	110	4,376	103	4,517	8,996	14,996	33,865
1989	88	0	88	117	4,495	292	4,571	9,357	14,778	33,147

Year	Electricity	Net Energy[4]	Total[4]
	Trillion Btu		
1960	**7.3**	**0.0**	**7.3**	**63.6**	**31.5**	**9.9**	**12.5**	**53.9**	**14.3**	**139.0**	**35.5**	**174.5**
1961	7.4	0.0	7.4	69.1	30.1	8.3	12.6	51.0	15.5	143.0	37.8	180.7
1962	5.6	0.0	5.6	74.4	33.7	9.2	13.3	56.2	16.5	152.7	39.6	192.3
1963	4.8	0.0	4.8	70.9	32.0	9.3	14.5	55.9	17.7	149.4	42.4	191.8
1964	3.9	0.0	3.9	78.9	31.7	9.3	14.4	55.4	19.1	157.3	45.6	202.9
1965	**4.7**	**0.0**	**4.7**	**86.3**	**36.7**	**8.8**	**16.2**	**61.8**	**20.7**	**173.5**	**49.4**	**222.9**
1966	5.4	0.0	5.4	87.3	39.8	10.8	19.0	69.7	22.4	184.7	53.8	238.5
1967	4.9	0.0	4.9	89.7	40.8	5.0	19.8	65.6	23.6	183.8	56.4	240.2
1968	5.4	0.0	5.4	91.3	43.4	6.5	21.0	71.0	26.0	193.6	61.9	255.5
1969	6.4	0.0	6.4	96.5	41.6	5.5	23.8	71.0	28.3	202.2	67.7	269.9
1970	**4.2**	**0.0**	**4.2**	**102.0**	**41.9**	**6.8**	**24.1**	**72.8**	**30.8**	**209.9**	**74.7**	**284.5**
1971	3.9	0.0	3.9	102.5	45.6	5.5	25.8	77.0	31.7	215.1	76.7	291.8
1972	2.1	0.0	2.1	107.4	49.3	3.9	28.6	81.8	33.9	225.2	81.7	306.9
1973	1.9	0.0	1.9	102.6	48.0	3.6	25.9	77.5	34.2	216.2	81.8	298.0
1974	2.3	0.0	2.3	113.2	43.5	4.1	23.8	71.4	34.2	221.1	83.3	304.4
1975	**1.6**	**0.0**	**1.6**	**114.7**	**42.2**	**3.2**	**22.4**	**67.8**	**34.8**	**218.8**	**83.9**	**302.7**
1976	1.3	0.0	1.3	105.7	51.5	3.7	22.7	78.0	35.7	220.7	86.1	306.8
1977	0.9	0.0	0.9	100.2	49.4	3.2	20.8	73.5	35.4	210.1	85.4	295.5
1978	1.5	0.0	1.5	106.5	50.0	2.2	16.3	68.5	38.6	215.2	94.5	309.6
1979	2.0	0.0	2.0	111.8	41.7	0.5	12.0	54.2	39.3	207.3	94.8	302.1
1980	**1.0**	**0.0**	**1.0**	**103.1**	**34.6**	**0.6**	**10.8**	**46.0**	**40.1**	**190.3**	**97.5**	**287.7**
1981	0.9	0.0	0.9	95.5	28.1	0.7	9.7	38.4	41.9	176.7	99.9	276.5
1982	1.0	0.0	1.0	108.2	36.1	1.1	10.2	47.4	43.6	200.2	104.7	304.9
1983	1.2	0.0	1.2	99.9	18.2	0.5	12.1	30.9	45.7	177.6	109.5	287.1
1984	1.5	0.0	1.5	102.2	19.7	1.2	13.7	34.6	44.5	182.8	103.2	286.1
1985	**1.5**	**0.0**	**1.5**	**107.1**	**22.3**	**1.2**	**14.3**	**37.8**	**45.2**	**191.6**	**106.1**	**297.7**
1986	1.3	0.0	1.3	103.2	23.3	0.5	16.2	39.9	45.2	189.7	103.7	293.4
1987	1.1	0.0	1.1	89.9	22.6	0.4	14.0	37.0	47.2	175.1	107.6	282.7
1988	1.5	0.0	1.5	110.4	25.5	0.6	16.5	42.6	51.2	205.7	115.5	321.2
1989	1.7	0.0	1.7	117.6	26.2	1.7	16.8	44.7	50.4	214.4	113.1	327.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 155. Commercial Energy Consumption Estimates, 1960-1989, Minnesota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**614**	**0**	**614**	**20**	**1,323**	**378**	**548**	**142**	**634**	**3,026**	**1,540**	**3,831**		
1961	623	0	623	24	1,264	317	554	146	510	2,790	1,676	4,084		
1962	476	0	476	38	1,415	350	584	150	502	3,001	1,758	4,227		
1963	411	0	411	42	1,343	357	639	153	516	3,008	1,874	4,482		
1964	332	0	332	24	1,330	355	633	154	471	2,944	1,881	4,480		
1965	**401**	**0**	**401**	**27**	**1,542**	**337**	**713**	**158**	**414**	**3,164**	**2,026**	**4,838**		
1966	461	0	461	35	1,672	412	836	163	424	3,508	2,255	5,410		
1967	416	0	416	64	1,712	190	911	169	275	3,256	2,410	5,757		
1968	460	0	460	66	1,822	249	972	213	279	3,535	2,611	6,230		
1969	549	0	549	70	1,746	212	1,105	216	416	3,695	2,920	6,976		
1970	**372**	**0**	**372**	**77**	**1,759**	**259**	**1,128**	**235**	**393**	**3,774**	**3,178**	**7,701**		
1971	342	0	342	76	1,915	210	1,209	245	320	3,899	3,380	8,172		
1972	188	0	188	80	2,070	149	1,340	256	606	4,421	3,663	8,816		
1973	171	0	171	80	2,014	137	1,221	286	549	4,208	3,846	9,207		
1974	208	0	208	90	1,827	156	1,127	298	470	3,877	3,853	9,394		
1975	**151**	**0**	**151**	**90**	**1,770**	**121**	**1,066**	**355**	**223**	**3,536**	**4,845**	**11,686**		
1976	100	0	100	77	2,163	143	1,081	347	350	4,084	5,218	12,570		
1977	75	0	75	68	2,075	124	1,000	370	274	3,844	5,240	12,653		
1978	136	0	136	81	2,099	85	783	418	242	3,627	5,362	13,118		
1979	194	0	194	61	1,751	21	574	440	116	2,902	5,573	13,449		
1980	**93**	**0**	**93**	**64**	**1,443**	**0**	**517**	**340**	**32**	**2,331**	**5,724**	**13,919**		
1981	86	0	86	67	835	5	470	352	19	1,682	6,456	15,387		
1982	106	0	106	74	988	4	497	361	173	2,023	6,856	16,466		
1983	115	0	115	71	2,738	2	591	350	141	3,822	6,707	16,069		
1984	154	0	154	75	2,956	2	670	633	130	4,392	7,252	16,841		
1985	**143**	**0**	**143**	**77**	**2,740**	**36**	**701**	**335**	**269**	**4,081**	**7,469**	**17,515**		
1986	126	0	126	74	1,077	4	783	327	370	2,561	7,625	17,482		
1987	111	0	111	66	1,008	5	673	239	135	2,060	8,031	18,302		
1988	152	0	152	80	1,102	4	797	242	319	2,464	8,601	19,423		
1989	163	0	163	85	1,033	4	807	191	342	2,377	8,454	18,964		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**13.5**	**0.0**	**13.5**	**21.0**	**7.7**	**2.1**	**2.2**	**0.7**	**4.0**	**16.8**	**5.3**	**56.6**	**13.1**	**69.6**
1961	13.7	0.0	13.7	25.3	7.4	1.8	2.2	0.8	3.2	15.3	5.7	60.0	13.9	74.0
1962	10.5	0.0	10.5	39.5	8.2	2.0	2.3	0.8	3.2	16.5	6.0	72.5	14.4	86.9
1963	9.0	0.0	9.0	41.7	7.8	2.0	2.6	0.8	3.2	16.5	6.4	73.5	15.3	88.8
1964	7.3	0.0	7.3	24.2	7.7	2.0	2.5	0.8	3.0	16.1	6.4	54.0	15.3	69.3
1965	**8.8**	**0.0**	**8.8**	**26.8**	**9.0**	**1.9**	**2.9**	**0.8**	**2.6**	**17.2**	**6.9**	**59.7**	**16.5**	**76.2**
1966	10.0	0.0	10.0	35.4	9.7	2.3	3.4	0.9	2.7	19.0	7.7	72.1	18.5	90.5
1967	9.0	0.0	9.0	64.2	10.0	1.1	3.5	0.9	1.7	17.2	8.2	98.7	19.6	118.3
1968	10.0	0.0	10.0	66.2	10.6	1.4	3.7	1.1	1.8	18.6	8.9	103.7	21.3	124.9
1969	11.8	0.0	11.8	70.9	10.2	1.2	4.2	1.1	2.6	19.3	10.0	112.0	23.8	135.8
1970	**7.8**	**0.0**	**7.8**	**76.7**	**10.2**	**1.5**	**4.3**	**1.2**	**2.5**	**19.7**	**10.8**	**115.1**	**26.3**	**141.4**
1971	7.2	0.0	7.2	76.6	11.2	1.2	4.6	1.3	2.0	20.2	11.5	115.5	27.9	143.4
1972	3.9	0.0	3.9	80.2	12.1	0.8	5.0	1.3	3.8	23.1	12.5	119.7	30.1	149.8
1973	3.6	0.0	3.6	80.2	11.7	0.8	4.6	1.5	3.5	22.0	13.1	118.9	31.4	150.3
1974	4.3	0.0	4.3	90.6	10.6	0.9	4.2	1.6	3.0	20.2	13.1	128.3	32.1	160.4
1975	**2.9**	**0.0**	**2.9**	**89.9**	**10.3**	**0.7**	**4.0**	**1.9**	**1.4**	**18.2**	**16.5**	**127.5**	**39.9**	**167.4**
1976	2.3	0.0	2.3	76.9	12.6	0.8	4.0	1.8	2.2	21.4	17.8	118.5	42.9	161.4
1977	1.7	0.0	1.7	67.7	12.1	0.7	3.7	1.9	1.7	20.1	17.9	107.4	43.2	150.6
1978	2.8	0.0	2.8	80.9	12.2	0.5	2.9	2.2	1.5	19.3	18.3	121.3	44.8	166.0
1979	3.6	0.0	3.6	60.2	10.2	0.1	2.1	2.3	0.7	15.5	19.0	98.4	45.9	144.2
1980	**1.9**	**0.0**	**1.9**	**63.6**	**8.4**	**0.0**	**1.9**	**1.8**	**0.2**	**12.3**	**19.5**	**97.3**	**47.5**	**144.8**
1981	1.6	0.0	1.6	66.4	4.9	*	1.7	1.9	0.1	8.6	22.0	98.6	52.5	151.1
1982	1.9	0.0	1.9	74.7	5.8	*	1.8	1.9	1.1	10.6	23.4	110.5	56.2	166.7
1983	2.2	0.0	2.2	72.3	15.9	*	2.1	1.8	0.9	20.8	22.9	118.3	54.8	173.1
1984	2.9	0.0	2.9	75.4	17.2	*	2.4	3.3	0.8	23.8	24.7	126.8	57.5	184.3
1985	**2.7**	**0.0**	**2.7**	**77.3**	**16.0**	**0.2**	**2.5**	**1.8**	**1.7**	**22.1**	**25.5**	**127.7**	**59.8**	**187.4**
1986	2.4	0.0	2.4	74.4	6.3	*	2.9	1.7	2.3	13.2	26.0	116.0	59.7	175.6
1987	2.0	0.0	2.0	65.9	5.9	*	2.5	1.3	0.8	10.5	27.4	105.7	62.4	168.2
1988	2.8	0.0	2.8	80.6	6.4	*	2.9	1.3	2.0	12.6	29.3	125.3	66.3	191.6
1989	3.1	0.0	3.1	85.7	6.0	*	3.0	1.0	2.1	12.2	28.8	129.9	64.7	194.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 156. Industrial Energy Consumption Estimates, 1960–1989, Minnesota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**2,555**	**0**	**2,555**	**49**	**3,004**	**6,062**	**444**	**841**	**263**	**4,266**	**5,690**	**1,457**	**22,027**	**156**	**3,095**	**7,699**
1961	2,239	0	2,239	53	3,523	5,944	254	762	256	4,215	4,966	1,503	21,423	135	3,275	7,981
1962	2,066	0	2,066	55	3,358	6,413	337	714	237	4,334	5,518	1,617	22,528	175	3,652	8,781
1963	2,372	0	2,372	50	3,485	6,257	448	844	237	4,061	5,050	1,913	22,296	148	3,970	9,495
1964	2,714	0	2,714	80	3,549	6,430	460	745	249	4,188	4,667	2,346	22,635	159	4,419	10,525
1965	**2,776**	**0**	**2,776**	**83**	**3,791**	**7,651**	**420**	**988**	**163**	**3,947**	**4,213**	**2,440**	**23,613**	**178**	**4,677**	**11,166**
1966	2,501	0	2,501	90	3,615	8,465	585	840	169	3,866	4,211	2,905	24,656	198	5,311	12,745
1967	2,362	0	2,362	72	3,499	7,956	375	801	241	3,525	3,080	3,003	22,481	163	6,098	14,568
1968	1,587	0	1,587	88	3,728	8,419	289	1,088	264	3,810	2,982	3,452	24,032	173	7,169	17,104
1969	2,728	0	2,728	93	4,486	8,206	188	1,264	291	3,661	4,001	3,586	25,683	178	7,964	19,023
1970	**2,020**	**0**	**2,020**	**98**	**4,413**	**7,784**	**231**	**1,275**	**296**	**3,608**	**3,894**	**3,769**	**25,269**	**168**	**8,506**	**20,613**
1971	1,495	0	1,495	122	4,435	8,358	215	1,263	361	3,301	3,143	3,602	24,678	151	8,983	21,717
1972	1,741	0	1,741	105	5,233	8,874	133	1,370	386	3,579	5,408	4,059	29,042	183	9,742	23,450
1973	2,171	0	2,171	115	5,991	8,920	100	1,557	305	2,962	5,095	4,657	29,589	185	10,785	25,820
1974	1,757	0	1,757	106	5,595	8,080	182	1,638	292	2,942	4,218	4,571	27,517	182	10,691	26,066
1975	**2,292**	**0**	**2,292**	**101**	**4,628**	**7,991**	**177**	**1,985**	**252**	**3,132**	**2,675**	**4,711**	**25,551**	**189**	**11,280**	**27,208**
1976	1,954	0	1,954	120	5,431	9,451	238	1,457	280	3,416	3,765	4,395	28,432	112	12,265	29,544
1977	1,859	0	1,859	116	5,310	9,044	218	1,543	323	2,839	2,741	4,317	26,335	133	12,447	30,056
1978	2,047	0	2,047	120	5,462	9,219	195	1,974	347	2,894	2,384	4,425	26,900	177	14,784	36,169
1979	1,589	0	1,589	143	5,085	7,784	99	4,618	363	2,474	1,315	4,306	26,045	151	16,169	39,021
1980	**1,057**	**0**	**1,057**	**101**	**3,565**	**5,708**	**98**	**4,183**	**324**	**1,336**	**1,818**	**4,144**	**21,177**	**145**	**15,525**	**37,752**
1981	1,186	0	1,186	88	3,890	5,171	29	2,671	310	1,094	1,156	2,597	16,918	145	16,034	38,213
1982	1,131	3	1,134	68	3,878	5,299	36	4,054	283	2,715	1,400	2,699	20,365	145	14,269	34,273
1983	1,105	0	1,105	65	4,718	3,462	43	3,449	296	1,714	1,365	3,376	18,423	145	15,909	38,115
1984	1,006	0	1,006	70	4,669	3,739	51	3,295	316	1,413	1,257	3,475	18,215	145	17,995	41,787
1985	**1,026**	**1**	**1,027**	**66**	**4,989**	**4,802**	**35**	**3,734**	**294**	**1,718**	**579**	**3,354**	**19,504**	**145**	**17,934**	**42,054**
1986	963	1	964	58	5,480	5,664	32	4,196	288	1,590	1,754	3,546	22,550	145	17,849	40,924
1987	838	0	838	72	5,860	4,746	9	3,038	326	1,505	1,122	4,006	20,612	145	19,911	45,378
1988	792	0	792	78	4,897	5,287	30	2,840	314	1,274	1,041	4,925	20,608	145	22,131	49,978
1989	972	0	972	81	4,923	4,637	54	2,950	322	1,252	1,009	5,045	20,193	145	22,700	50,918

Year	Industrial Hydro-Power	Electricity	Net Energy[4]	Total[4]
	Trillion Btu			
1960	**1.7**	**10.6**	**248.0**	**26.3**	**274.3**
1961	1.4	11.2	241.2	27.2	268.4
1962	1.8	12.5	249.4	30.0	279.4
1963	1.6	13.5	247.2	32.4	279.6
1964	1.7	15.1	289.8	35.9	325.8
1965	**1.9**	**16.0**	**299.9**	**38.1**	**338.0**
1966	2.1	18.1	311.0	43.5	354.5
1967	1.7	20.8	279.0	49.7	328.7
1968	1.8	24.5	289.1	58.4	347.5
1969	1.9	27.2	332.6	64.9	397.5
1970	**1.8**	**29.0**	**318.7**	**70.3**	**389.0**
1971	1.6	30.6	330.5	74.1	404.6
1972	1.9	33.2	348.3	80.0	428.3
1973	1.9	36.8	377.5	88.1	465.6
1974	1.9	36.5	344.8	88.9	433.8
1975	**2.0**	**38.5**	**340.2**	**92.8**	**433.0**
1976	1.2	41.8	371.9	100.8	472.7
1977	1.4	42.5	352.8	102.5	455.3
1978	1.8	50.4	368.7	123.4	492.1
1979	1.6	55.2	373.7	133.1	506.8
1980	**1.5**	**53.0**	**291.5**	**128.8**	**420.3**
1981	1.5	54.7	261.3	130.4	391.7
1982	1.5	48.7	250.4	116.9	367.3
1983	1.5	54.3	245.0	130.0	375.1
1984	1.5	61.4	254.5	142.6	397.1
1985	**1.5**	**61.2**	**260.1**	**143.5**	**403.6**
1986	1.5	60.9	268.0	139.6	407.6
1987	1.5	67.9	277.0	154.8	431.8
1988	1.5	75.5	288.9	170.5	459.4
1989	1.5	77.5	295.6	173.7	469.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 157. Transportation Energy Consumption Estimates, 1960–1989, Minnesota

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**45**	*	**1,199**	**3,194**	**472**	**27**	**697**	**28,176**	**95**	**33,860**	**0**	**0**		
1961	10	1	1,262	3,416	741	27	679	27,879	91	34,094	0	0		
1962	8	1	869	3,000	1,108	38	621	29,007	110	34,753	0	0		
1963	9	1	888	3,298	1,027	45	621	30,102	306	36,286	0	0		
1964	10	1	918	3,424	1,583	40	652	29,924	237	36,778	0	0		
1965	**9**	**1**	**803**	**3,276**	**2,624**	**37**	**596**	**31,173**	**75**	**38,584**	**0**	**0**		
1966	8	1	685	3,681	2,954	77	620	33,119	57	41,193	0	0		
1967	6	3	541	2,890	2,809	99	562	34,215	169	41,285	0	0		
1968	4	3	421	4,282	3,339	143	617	36,289	157	45,248	0	0		
1969	5	3	303	4,638	4,024	140	616	38,265	98	48,085	0	0		
1970	**3**	**7**	**277**	**5,064**	**3,491**	**95**	**628**	**40,279**	**29**	**49,863**	**0**	**0**		
1971	2	8	249	5,120	3,985	107	738	42,320	4	52,522	0	0		
1972	2	7	259	5,480	4,528	112	790	43,892	116	55,176	0	0		
1973	2	5	262	6,548	5,185	117	741	45,905	406	59,164	0	0		
1974	1	4	241	6,680	5,545	107	709	44,692	488	58,463	0	0		
1975	*	**4**	**215**	**6,691**	**5,629**	**97**	**752**	**44,766**	**577**	**58,726**	**0**	**0**		
1976	*	4	217	7,017	5,313	103	835	46,179	468	60,132	0	0		
1977	*	4	207	6,768	5,271	93	796	47,705	167	61,006	0	0		
1978	0	4	241	7,876	5,091	129	854	49,631	450	64,273	0	0		
1979	0	11	217	9,862	5,644	67	894	47,561	409	64,655	0	0		
1980	**0**	**9**	**193**	**8,117**	**5,142**	**68**	**796**	**44,535**	**971**	**59,822**	**0**	**0**		
1981	0	10	163	7,794	4,516	149	763	43,578	270	57,235	0	0		
1982	0	9	119	8,318	4,261	125	696	41,800	80	55,398	0	0		
1983	0	4	117	7,976	4,044	148	729	43,996	49	57,059	0	0		
1984	0	7	125	8,057	7,331	219	777	46,004	87	62,601	0	0		
1985	**0**	**6**	**154**	**7,982**	**7,781**	**160**	**724**	**43,640**	**145**	**60,586**	**0**	**0**		
1986	0	7	225	8,087	7,801	151	708	43,860	36	60,869	0	0		
1987	0	6	178	8,522	5,656	77	801	45,165	4	60,403	0	0		
1988	0	11	166	9,015	5,142	90	772	47,361	7	62,553	0	0		
1989	0	12	158	8,949	4,663	75	792	47,110	2	61,748	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**0.9**	**0.3**	**6.1**	**18.6**	**2.6**	**0.1**	**4.2**	**148.0**	**0.6**	**180.2**	**0.0**	**181.4**	**0.0**	**181.4**
1961	0.2	0.7	6.4	19.9	4.1	0.1	4.1	146.4	0.6	181.6	0.0	182.5	0.0	182.5
1962	0.2	0.8	4.4	17.5	6.2	0.2	3.8	152.4	0.7	185.0	0.0	186.0	0.0	186.0
1963	0.2	0.8	4.5	19.2	5.7	0.2	3.8	158.1	1.9	193.4	0.0	194.4	0.0	194.4
1964	0.2	1.0	4.6	19.9	8.9	0.2	4.0	157.2	1.5	196.3	0.0	197.5	0.0	197.5
1965	**0.2**	**1.2**	**4.1**	**19.1**	**14.8**	**0.1**	**3.6**	**163.8**	**0.5**	**205.9**	**0.0**	**207.3**	**0.0**	**207.3**
1966	0.1	1.2	3.5	21.4	16.7	0.3	3.8	174.0	0.4	220.0	0.0	221.3	0.0	221.3
1967	0.1	2.7	2.7	16.8	15.8	0.4	3.4	179.7	1.1	220.0	0.0	222.8	0.0	222.8
1968	0.1	2.8	2.1	24.9	18.8	0.5	3.7	190.6	1.0	241.8	0.0	244.7	0.0	244.7
1969	0.1	3.0	1.5	27.0	22.7	0.5	3.7	201.0	0.6	257.2	0.0	260.3	0.0	260.3
1970	**0.1**	**7.5**	**1.4**	**29.5**	**19.7**	**0.4**	**3.8**	**211.6**	**0.2**	**266.6**	**0.0**	**274.1**	**0.0**	**274.1**
1971	*	7.9	1.3	29.8	22.5	0.4	4.5	222.3	*	280.8	0.0	288.7	0.0	288.7
1972	*	7.5	1.3	31.9	25.6	0.4	4.8	230.6	0.7	295.3	0.0	302.9	0.0	302.9
1973	*	5.4	1.3	38.1	29.3	0.4	4.5	241.1	2.6	317.4	0.0	322.9	0.0	322.9
1974	*	3.6	1.2	38.9	31.4	0.4	4.3	234.8	3.1	314.0	0.0	317.7	0.0	317.7
1975	*	**3.9**	**1.1**	**39.0**	**31.9**	**0.4**	**4.6**	**235.2**	**3.6**	**315.6**	**0.0**	**319.5**	**0.0**	**319.5**
1976	*	3.9	1.1	40.9	30.1	0.4	5.1	242.6	2.9	323.0	0.0	326.9	0.0	326.9
1977	*	3.6	1.0	39.4	29.8	0.3	4.8	250.6	1.1	327.1	0.0	330.7	0.0	330.7
1978	0.0	3.6	1.2	45.9	28.8	0.5	5.2	260.7	2.8	345.1	0.0	348.7	0.0	348.7
1979	0.0	11.0	1.1	57.4	31.9	0.2	5.4	249.8	2.6	348.6	0.0	359.5	0.0	359.5
1980	**0.0**	**9.1**	**1.0**	**47.3**	**29.1**	**0.2**	**4.8**	**233.9**	**6.1**	**322.5**	**0.0**	**331.6**	**0.0**	**331.6**
1981	0.0	10.1	0.8	45.4	25.5	0.5	4.6	228.9	1.7	307.6	0.0	317.7	0.0	317.7
1982	0.0	8.7	0.6	48.4	24.1	0.5	4.2	219.6	0.5	297.9	0.0	306.6	0.0	306.6
1983	0.0	4.5	0.6	46.5	22.9	0.5	4.4	231.1	0.3	306.3	0.0	310.8	0.0	310.8
1984	0.0	6.6	0.6	46.9	41.5	0.8	4.7	241.7	0.5	336.8	0.0	343.4	0.0	343.4
1985	**0.0**	**6.3**	**0.8**	**46.5**	**44.1**	**0.6**	**4.4**	**229.2**	**0.9**	**326.5**	**0.0**	**332.7**	**0.0**	**332.7**
1986	0.0	7.4	1.1	47.1	44.2	0.6	4.3	230.4	0.2	327.9	0.0	335.3	0.0	335.3
1987	0.0	6.5	0.9	49.6	32.0	0.3	4.9	237.3	*	325.0	0.0	331.4	0.0	331.4
1988	0.0	11.3	0.8	52.5	29.1	0.3	4.7	248.8	*	336.3	0.0	347.6	0.0	347.6
1989	0.0	12.0	0.8	52.1	26.4	0.3	4.8	247.5	*	331.9	0.0	343.8	0.0	343.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 158. Estimates of Energy Input at Electric Utilities, 1960–1989, Minnesota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydroelectric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**2,433**	**0**	**2,433**	**49**	**239**	**156**	**0**	**395**	**0**	**822**	**0**	**15**	
1961	2,814	0	2,814	48	197	129	0	326	0	692	0	13	
1962	3,170	0	3,170	48	228	149	0	377	0	790	0	14	
1963	3,308	0	3,308	56	282	185	0	466	1	802	0	16	
1964	3,816	0	3,816	53	264	173	0	437	56	907	0	16	
1965	**3,857**	**0**	**3,857**	**51**	**278**	**182**	**0**	**460**	**143**	**1,026**	**0**	**14**	
1966	4,527	0	4,527	51	212	139	0	351	129	1,101	0	12	
1967	4,238	0	4,238	56	230	151	0	382	141	817	0	18	
1968	4,562	0	4,562	65	439	287	0	726	15	963	0	19	
1969	5,208	0	5,208	64	544	357	0	900	0	955	0	19	
1970	**6,192**	**0**	**6,192**	**59**	**842**	**551**	**143**	**1,537**	**0**	**853**	**0**	**19**	
1971	5,860	0	5,860	43	666	587	96	1,349	1,394	961	0	18	
1972	6,255	0	6,255	52	985	1,123	101	2,209	3,559	990	0	20	
1973	6,949	0	6,949	58	988	1,014	199	2,200	3,270	1,050	0	20	
1974	8,065	0	8,065	38	716	950	187	1,853	4,363	780	0	5	
1975	**7,595**	**0**	**7,595**	**23**	**851**	**674**	**59**	**1,584**	**9,750**	**913**	**0**	**4**	
1976	9,947	0	9,947	13	1,046	878	0	1,924	9,911	680	0	1	
1977	12,727	0	12,727	5	1,305	599	0	1,904	11,163	723	0	1	
1978	12,117	0	12,117	2	1,320	914	0	2,233	11,591	2,184	0	3	
1979	11,066	0	11,066	7	795	458	0	1,253	11,503	2,596	0	3	
1980	**12,610**	**0**	**12,610**	**8**	**361**	**167**	**0**	**529**	**10,027**	**1,594**	**0**	**2**	
1981	12,576	0	12,576	6	130	80	0	210	10,187	884	0	0	
1982	10,818	0	10,818	3	40	89	0	129	10,197	1,112	0	4	
1983	10,703	0	10,703	3	12	81	0	93	11,753	1,337	0	1	
1984	12,015	0	12,015	2	3	54	0	57	8,328	1,818	0	*	
1985	**11,498**	**0**	**11,498**	**1**	*	**49**	**0**	**49**	**11,572**	**3,497**	**0**	*	
1986	10,170	0	10,170	2	0	60	0	60	11,052	7,796	0	0	
1987	13,495	0	13,495	6	*	101	0	101	11,554	2,662	0	41	
1988	16,259	0	16,259	5	6	131	164	301	12,288	-1,137	0	153	
1989	17,056	0	17,056	4	9	81	678	768	10,926	226	0	247	
					Trillion Btu								
1960	**54.5**	**0.0**	**54.5**	**50.2**	**1.5**	**0.9**	**0.0**	**2.4**	**0.0**	**8.8**	**0.0**	**0.2**	**116.1**
1961	62.2	0.0	62.2	49.6	1.2	0.8	0.0	2.0	0.0	7.4	0.0	0.1	121.3
1962	69.9	0.0	69.9	49.9	1.4	0.9	0.0	2.3	0.0	8.3	0.0	0.2	130.6
1963	73.6	0.0	73.6	55.7	1.8	1.1	0.0	2.8	*	8.4	0.0	0.2	140.8
1964	84.7	0.0	84.7	52.9	1.7	1.0	0.0	2.7	0.7	9.5	0.0	0.2	150.6
1965	**85.5**	**0.0**	**85.5**	**51.3**	**1.7**	**1.1**	**0.0**	**2.8**	**1.7**	**10.7**	**0.0**	**0.1**	**152.2**
1966	100.4	0.0	100.4	51.4	1.3	0.8	0.0	2.1	1.5	11.5	0.0	0.1	167.0
1967	95.1	0.0	95.1	56.0	1.4	0.9	0.0	2.3	1.6	8.5	0.0	0.2	163.8
1968	101.8	0.0	101.8	65.4	2.8	1.7	0.0	4.4	0.2	10.0	0.0	0.2	182.0
1969	113.5	0.0	113.5	64.9	3.4	2.1	0.0	5.5	0.0	10.0	0.0	0.2	194.1
1970	**125.5**	**0.0**	**125.5**	**59.1**	**5.3**	**3.2**	**0.9**	**9.4**	**0.0**	**8.9**	**0.0**	**0.2**	**203.1**
1971	113.0	0.0	113.0	42.9	4.2	3.4	0.6	8.2	15.1	10.1	0.0	0.2	189.4
1972	119.0	0.0	119.0	51.6	6.2	6.5	0.6	13.3	38.4	10.3	0.0	0.2	232.8
1973	126.3	0.0	126.3	57.2	6.2	5.9	1.2	13.3	35.7	10.9	0.0	0.2	243.6
1974	144.0	0.0	144.0	38.0	4.5	5.5	1.1	11.2	48.7	8.1	0.0	*	250.1
1975	**136.3**	**0.0**	**136.3**	**22.3**	**5.4**	**3.9**	**0.4**	**9.6**	**107.4**	**9.5**	**0.0**	*	**285.1**
1976	177.1	0.0	177.1	13.1	6.6	5.1	0.0	11.7	109.5	7.1	0.0	*	318.4
1977	223.8	0.0	223.8	5.1	8.2	3.5	0.0	11.7	120.2	7.5	0.0	*	368.3
1978	211.6	0.0	211.6	1.4	8.3	5.3	0.0	13.6	126.8	22.6	0.0	*	376.1
1979	195.2	0.0	195.2	6.9	5.0	2.7	0.0	7.7	125.1	26.9	0.0	*	361.9
1980	**221.4**	**0.0**	**221.4**	**8.0**	**2.3**	**1.0**	**0.0**	**3.2**	**109.4**	**16.6**	**0.0**	*	**358.6**
1981	220.6	0.0	220.6	5.5	0.8	0.5	0.0	1.3	112.4	9.2	0.0	0.0	349.0
1982	190.5	0.0	190.5	3.3	0.3	0.5	0.0	0.8	112.9	11.6	0.0	*	319.2
1983	189.2	0.0	189.2	2.9	0.1	0.5	0.0	0.5	128.2	14.1	0.0	*	334.9
1984	208.5	0.0	208.5	2.0	*	0.3	0.0	0.3	90.3	18.8	0.0	*	319.9
1985	**200.6**	**0.0**	**200.6**	**1.3**	*	**0.3**	**0.0**	**0.3**	**125.1**	**36.2**	**0.0**	*	**363.5**
1986	177.5	0.0	177.5	1.7	0.0	0.3	0.0	0.3	119.4	80.0	0.0	0.0	378.9
1987	235.9	0.0	235.9	5.7	*	0.6	0.0	0.6	124.5	27.3	0.0	0.4	394.4
1988	284.2	0.0	284.2	5.2	*	0.8	1.0	1.8	132.0	-11.6	0.0	1.6	413.1
1989	299.1	0.0	299.1	4.4	0.1	0.5	4.1	4.6	117.2	2.3	0.0	2.6	430.2

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 159. Energy Consumption Estimates by Source, 1960–1989, Mississippi

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**30**	**182**	**762**	**170**	**2,375**	**1,465**	**398**	**4,220**	**391**	**16,096**	**311**	**440**	**26,629**	**0**	**0**	**0**	**0**	**8,132**	
1961	26	184	915	168	1,966	1,489	214	4,406	380	16,348	347	429	26,662	0	0	0	0	9,568	
1962	28	193	943	320	2,729	1,602	173	4,780	496	17,114	479	445	29,080	0	0	0	0	11,228	
1963	30	218	1,352	421	2,882	1,652	178	5,154	496	17,696	895	2,233	32,959	0	0	0	0	10,907	
1964	29	242	1,253	386	3,333	1,742	312	5,507	521	17,942	810	2,295	34,102	0	0	0	0	12,597	
1965	**40**	**244**	**1,144**	**463**	**2,796**	**1,460**	**346**	**4,720**	**469**	**18,539**	**489**	**2,401**	**32,828**	**0**	**0**	**0**	**0**	**14,061**	
1966	35	278	1,281	295	3,110	1,526	639	5,313	488	19,789	205	2,490	35,136	0	0	0	0	16,994	
1967	38	282	1,464	326	3,394	1,705	2,599	5,350	429	20,664	250	3,006	39,186	0	0	0	0	14,138	
1968	291	312	1,389	406	5,098	2,036	2,432	6,888	471	21,893	595	3,145	44,352	0	0	0	0	14,320	
1969	595	326	1,355	386	5,759	1,858	2,779	8,491	515	23,191	678	3,293	48,306	0	0	0	0	14,203	
1970	**549**	**360**	**1,748**	**318**	**5,991**	**1,614**	**2,646**	**8,645**	**525**	**24,316**	**703**	**5,141**	**51,646**	**0**	**0**	**0**	**0**	**17,089**	
1971	559	378	2,450	334	7,225	1,669	2,004	8,641	532	25,371	1,122	5,295	54,641	0	0	0	0	18,562	
1972	581	378	2,819	338	7,610	1,600	2,185	9,658	570	27,539	4,292	5,569	62,179	0	0	0	0	19,630	
1973	1,247	314	3,244	344	9,199	1,513	3,756	9,414	675	28,248	7,663	5,169	69,225	0	0	0	0	28,007	
1974	1,506	276	3,041	240	9,822	1,538	1,641	9,065	647	28,176	10,748	5,017	69,935	0	0	0	0	26,618	
1975	**1,440**	**230**	**2,589**	**203**	**9,852**	**1,475**	**1,434**	**8,180**	**681**	**27,811**	**12,063**	**5,403**	**69,691**	**0**	**0**	**0**	**0**	**27,909**	
1976	1,825	199	2,354	173	12,009	1,425	1,232	8,662	756	28,957	15,794	5,375	76,736	0	0	0	0	22,948	
1977	1,690	198	2,201	159	14,206	1,498	1,775	9,150	655	30,566	20,722	5,333	86,263	0	0	0	0	19,332	
1978	1,732	204	2,647	147	15,503	1,361	2,193	8,217	703	30,766	24,359	5,697	91,594	0	0	0	0	15,500	
1979	2,555	254	2,726	115	11,034	1,451	740	5,972	736	29,424	22,344	5,467	80,009	0	0	0	0	20,468	
1980	**3,127**	**264**	**2,036**	**206**	**9,648**	**1,530**	**242**	**5,694**	**655**	**26,781**	**16,010**	**5,460**	**68,262**	**0**	**0**	**0**	**0**	**20,395**	
1981	3,446	243	1,770	142	13,444	1,734	100	4,541	628	27,658	10,404	3,450	63,872	0	0	0	0	28,051	
1982	4,158	269	1,718	106	11,830	3,336	330	4,481	573	26,436	5,461	3,392	57,664	0	0	0	0	23,726	
1983	3,962	238	1,704	113	13,152	2,963	359	4,507	600	26,691	2,361	4,501	56,950	0	0	0	0	38,043	
1984	4,297	269	3,561	121	13,999	2,334	535	5,205	640	26,900	2,473	4,860	60,628	165	0	0	0	34,425	
1985	**4,519**	**227**	**2,054**	**108**	**15,914**	**4,111**	**806**	**4,996**	**596**	**27,580**	**1,485**	**4,311**	**61,961**	**4,332**	**0**	**0**	**0**	**25,376**	
1986	4,454	215	1,904	137	14,818	4,914	1,150	3,630	583	28,549	12,402	4,503	72,589	4,087	0	0	0	27,171	
1987	4,846	209	2,174	113	16,743	7,657	1,235	3,795	659	29,241	2,607	5,224	69,449	7,717	0	0	0	18,152	
1988	5,136	213	2,627	129	19,020	8,006	1,602	4,256	636	29,517	8,124	6,250	80,167	9,582	0	0	0	13,109	
1989	3,831	228	1,975	153	17,112	6,567	661	5,888	652	29,009	16,743	6,369	85,127	7,826	0	0	0	28,871	
									Trillion Btu										
1960	**0.8**	**187.9**	**5.1**	**0.9**	**13.8**	**7.8**	**2.3**	**16.9**	**2.4**	**84.6**	**2.0**	**2.6**	**138.3**	**0.0**	**0.0**	**0.0**	**0.0**	**27.7**	**354.7**
1961	0.7	190.6	6.1	0.8	11.4	8.0	1.2	17.7	2.3	85.9	2.2	2.6	138.2	0.0	0.0	0.0	0.0	32.6	362.1
1962	0.7	199.4	6.3	1.6	15.9	8.6	1.0	19.2	3.0	89.9	3.0	2.7	151.1	0.0	0.0	0.0	0.0	38.3	389.5
1963	0.8	222.9	9.0	2.1	16.8	8.8	1.0	20.7	3.0	93.0	5.6	13.4	173.4	0.0	0.0	0.0	0.0	37.2	434.3
1964	0.7	250.5	8.3	1.9	19.4	9.3	1.8	22.1	3.2	94.3	5.1	13.8	179.2	0.0	0.0	0.0	0.0	43.0	473.4
1965	**1.0**	**250.6**	**7.6**	**2.3**	**16.3**	**7.8**	**2.0**	**18.9**	**2.8**	**97.4**	**3.1**	**14.4**	**172.7**	**0.0**	**0.0**	**0.0**	**0.0**	**48.0**	**472.3**
1966	0.9	284.5	8.5	1.5	18.1	8.2	3.6	21.3	3.0	104.0	1.3	14.9	184.3	0.0	0.0	0.0	0.0	58.0	527.7
1967	1.0	288.6	9.7	1.6	19.8	9.2	14.7	20.5	2.6	108.5	1.6	18.0	206.3	0.0	0.0	0.0	0.0	48.2	544.1
1968	7.3	319.4	9.2	2.1	29.7	11.0	13.8	26.3	2.9	115.0	3.7	18.8	232.4	0.0	0.0	0.0	0.0	48.9	608.0
1969	14.8	334.0	9.0	2.0	33.5	10.0	15.8	32.3	3.1	121.8	4.3	19.7	251.5	0.0	0.0	0.0	0.0	48.5	648.7
1970	**13.2**	**369.4**	**11.6**	**1.6**	**34.9**	**8.7**	**15.0**	**32.7**	**3.2**	**127.7**	**4.4**	**30.8**	**270.6**	**0.0**	**0.0**	**0.0**	**0.0**	**58.3**	**711.6**
1971	13.5	387.8	16.3	1.7	42.1	9.0	11.4	32.6	3.2	133.3	7.1	31.6	288.2	0.0	0.0	0.0	0.0	63.3	752.8
1972	14.0	387.4	18.7	1.7	44.3	8.7	12.4	36.3	3.5	144.7	27.0	33.3	330.5	0.0	0.0	0.0	0.0	67.0	798.9
1973	29.5	321.5	21.5	1.7	53.6	8.2	21.3	35.3	4.1	148.4	48.2	30.9	373.1	0.0	0.0	0.0	0.0	95.6	819.7
1974	34.6	283.1	20.2	1.2	57.2	8.4	9.3	33.8	3.9	148.0	67.6	29.9	379.5	0.0	0.0	0.0	0.0	90.8	788.0
1975	**33.4**	**235.3**	**17.2**	**1.0**	**57.4**	**8.0**	**8.1**	**30.4**	**4.1**	**146.1**	**75.8**	**32.3**	**380.5**	**0.0**	**0.0**	**0.0**	**0.0**	**95.2**	**744.4**
1976	42.5	203.7	15.6	0.9	69.9	7.8	7.0	32.1	4.6	152.1	99.3	32.1	421.4	0.0	0.0	0.0	0.0	78.3	746.0
1977	38.7	202.6	14.6	0.8	82.7	8.2	10.1	33.6	4.0	160.6	130.3	31.9	476.7	0.0	0.0	0.0	0.0	66.0	783.9
1978	41.0	208.0	17.6	0.7	90.3	7.4	12.4	30.1	4.3	161.6	153.1	34.0	511.7	0.0	0.0	0.0	0.0	52.9	813.6
1979	59.8	260.5	18.1	0.6	64.3	7.9	4.2	22.0	4.5	154.6	140.5	32.7	449.2	0.0	0.0	0.0	0.0	69.8	839.4
1980	**75.0**	**270.9**	**13.5**	**1.0**	**56.2**	**8.3**	**1.4**	**20.9**	**4.0**	**140.7**	**100.7**	**32.6**	**379.3**	**0.0**	**0.0**	**0.0**	**0.0**	**69.6**	**794.8**
1981	82.9	249.1	11.7	0.7	78.3	9.5	0.6	16.5	3.8	145.3	65.4	21.5	353.4	0.0	0.0	0.0	0.0	95.7	781.1
1982	100.5	276.7	11.4	0.5	68.9	18.5	1.9	16.2	3.5	138.9	34.3	21.0	315.1	0.0	0.0	0.0	0.0	81.0	773.3
1983	96.1	244.3	11.3	0.6	76.6	16.4	2.0	16.3	3.6	140.2	14.8	27.4	309.4	0.0	0.0	0.0	0.0	129.8	779.5
1984	103.9	276.6	23.6	0.6	81.5	12.8	3.0	18.7	3.9	141.3	15.6	29.4	330.5	1.8	0.0	0.0	0.0	117.5	830.4
1985	**109.4**	**233.0**	**13.6**	**0.5**	**92.7**	**22.9**	**4.6**	**18.0**	**3.6**	**144.9**	**9.3**	**26.6**	**336.8**	**46.8**	**0.0**	**0.0**	**0.0**	**86.6**	**812.7**
1986	108.8	220.2	12.6	0.7	86.3	27.5	6.5	13.2	3.5	150.0	78.0	28.0	406.3	44.1	0.0	0.0	0.0	92.7	872.1
1987	122.4	212.3	14.4	0.6	97.5	43.1	7.0	13.9	4.0	153.6	16.4	31.8	382.2	83.2	0.0	0.0	0.0	61.9	862.0
1988	129.6	216.4	17.4	0.7	110.8	45.0	9.1	15.5	3.9	155.1	51.1	37.6	446.2	102.9	0.0	0.0	0.0	44.7	939.8
1989	96.4	234.5	13.1	0.8	99.7	36.9	3.7	21.7	4.0	152.4	105.3	38.0	475.5	83.9	0.0	0.0	0.0	98.5	988.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 160. Residential Energy Consumption Estimates, 1960-1989, Mississippi

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**0**	**0**	**0**	**24**	**23**	**13**	**2,450**	**2,486**	**2,089**	**5,196**		
1961	0	0	0	23	28	13	2,582	2,623	2,152	5,245		
1962	0	0	0	24	17	10	2,770	2,798	2,635	6,335		
1963	0	0	0	25	26	17	2,913	2,956	2,941	7,033		
1964	0	0	0	27	31	16	3,119	3,166	3,309	7,880		
1965	**0**	**0**	**0**	**24**	**32**	**27**	**2,865**	**2,923**	**3,705**	**8,847**		
1966	0	0	0	30	40	20	3,268	3,328	4,128	9,905		
1967	0	0	0	26	44	21	3,385	3,449	4,504	10,760		
1968	0	0	0	30	48	38	4,272	4,358	5,331	12,721		
1969	0	0	0	30	80	78	5,054	5,212	6,013	14,363		
1970	**0**	**0**	**0**	**37**	**89**	**75**	**5,129**	**5,293**	**6,880**	**16,673**		
1971	0	0	0	40	93	60	5,123	5,276	7,416	17,930		
1972	0	0	0	39	124	71	5,595	5,791	8,349	20,096		
1973	0	0	0	31	146	191	5,339	5,676	9,386	22,470		
1974	0	0	0	29	166	150	4,980	5,297	9,094	22,174		
1975	**0**	**0**	**0**	**30**	**196**	**127**	**4,231**	**4,554**	**8,091**	**19,517**		
1976	0	0	0	27	250	106	4,381	4,737	8,233	19,833		
1977	0	0	0	26	307	146	4,590	5,044	8,979	21,682		
1978	1	0	1	30	319	191	4,196	4,707	9,362	22,904		
1979	1	0	1	37	146	10	2,263	2,420	9,103	21,969		
1980	**1**	**0**	**1**	**29**	**7**	**44**	**2,201**	**2,252**	**9,964**	**24,229**		
1981	0	0	0	28	2	29	2,091	2,122	9,611	22,906		
1982	0	0	0	28	0	51	1,989	2,040	9,677	23,242		
1983	2	0	2	28	5	112	2,366	2,482	9,659	23,140		
1984	1	0	1	29	4	180	2,123	2,308	10,124	23,511		
1985	*	**0**	*	**26**	**2**	**250**	**2,202**	**2,454**	**10,447**	**24,499**		
1986	1	0	1	25	3	509	1,807	2,319	10,868	24,918		
1987	2	0	2	27	16	439	2,114	2,569	11,129	25,363		
1988	5	0	5	27	4	508	2,349	2,861	11,415	25,778		
1989	1	0	1	26	7	231	2,961	3,198	11,516	25,832		
										Net Energy[4]		Total[4]
					Trillion Btu							
1960	**0.0**	**0.0**	**0.0**	**24.9**	**0.1**	**0.1**	**9.8**	**10.0**	**7.1**	**42.0**	**17.7**	**59.8**
1961	0.0	0.0	0.0	23.7	0.2	0.1	10.4	10.6	7.3	41.6	17.9	59.5
1962	0.0	0.0	0.0	24.7	0.1	0.1	11.1	11.3	9.0	44.9	21.6	66.6
1963	0.0	0.0	0.0	25.4	0.2	0.1	11.7	11.9	10.0	47.3	24.0	71.3
1964	0.0	0.0	0.0	27.7	0.2	0.1	12.5	12.8	11.3	51.8	26.9	78.7
1965	**0.0**	**0.0**	**0.0**	**24.8**	**0.2**	**0.2**	**11.5**	**11.8**	**12.6**	**49.3**	**30.2**	**79.5**
1966	0.0	0.0	0.0	30.4	0.2	0.1	13.1	13.5	14.1	57.9	33.8	91.7
1967	0.0	0.0	0.0	26.7	0.3	0.1	13.0	13.4	15.4	55.5	36.7	92.2
1968	0.0	0.0	0.0	30.2	0.3	0.2	16.3	16.8	18.2	65.2	43.4	108.6
1969	0.0	0.0	0.0	31.0	0.5	0.4	19.2	20.1	20.5	71.6	49.0	120.6
1970	**0.0**	**0.0**	**0.0**	**37.6**	**0.5**	**0.4**	**19.4**	**20.3**	**23.5**	**81.4**	**56.9**	**138.2**
1971	0.0	0.0	0.0	41.2	0.5	0.3	19.3	20.2	25.3	86.7	61.2	147.9
1972	0.0	0.0	0.0	40.1	0.7	0.4	21.0	22.2	28.5	90.7	68.6	159.3
1973	0.0	0.0	0.0	32.1	0.8	1.1	20.0	21.9	32.0	86.1	76.7	162.7
1974	0.0	0.0	0.0	29.5	1.0	0.9	18.6	20.4	31.0	80.9	75.7	156.6
1975	**0.0**	**0.0**	**0.0**	**30.2**	**1.1**	**0.7**	**15.7**	**17.6**	**27.6**	**75.4**	**66.6**	**142.0**
1976	0.0	0.0	0.0	27.2	1.5	0.6	16.3	18.3	28.1	73.6	67.7	141.3
1977	0.0	0.0	0.0	26.6	1.8	0.8	16.9	19.5	30.6	76.8	74.0	150.7
1978	*	0.0	*	31.1	1.9	1.1	15.4	18.3	31.9	81.4	78.1	159.6
1979	*	0.0	*	38.1	0.9	0.1	8.3	9.2	31.1	78.4	75.0	153.4
1980	*	**0.0**	*	**30.5**	*	**0.2**	**8.1**	**8.4**	**34.0**	**72.9**	**82.7**	**155.6**
1981	0.0	0.0	0.0	29.1	*	0.2	7.6	7.8	32.8	69.7	78.2	147.9
1982	0.0	0.0	0.0	28.4	0.0	0.3	7.2	7.5	33.0	68.9	79.3	148.2
1983	0.1	0.0	0.1	28.3	*	0.6	8.6	9.2	33.0	70.5	79.0	149.5
1984	*	0.0	*	29.6	*	1.0	7.6	8.7	34.5	72.9	80.2	153.1
1985	*	**0.0**	*	**26.3**	*	**1.4**	**7.9**	**9.4**	**35.6**	**71.4**	**83.6**	**155.0**
1986	*	0.0	*	25.8	*	2.9	6.6	9.5	37.1	72.4	85.0	157.4
1987	*	0.0	*	27.0	0.1	2.5	7.7	10.3	38.0	75.3	86.5	161.9
1988	0.1	0.0	0.1	27.3	*	2.9	8.6	11.5	38.9	77.8	88.0	165.8
1989	*	0.0	*	27.1	*	1.3	10.9	12.3	39.3	78.7	88.1	166.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 161. Commercial Energy Consumption Estimates, 1960–1989, Mississippi

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**0**	**0**	**0**	**15**	**28**	**0**	**432**	**79**	**18**	**557**	**1,278**	**3,179**		
1961	0	0	0	17	34	0	456	83	15	588	1,351	3,292		
1962	0	0	0	19	21	0	489	86	22	618	1,551	3,728		
1963	0	0	0	20	32	0	514	84	8	638	1,677	4,011		
1964	0	0	0	21	38	0	550	83	9	681	1,807	4,303		
1965	**0**	**0**	**0**	**12**	**39**	**0**	**506**	**88**	**33**	**665**	**1,968**	**4,700**		
1966	0	0	0	16	49	0	577	90	26	742	2,100	5,040		
1967	0	0	0	17	53	0	597	90	65	805	2,270	5,422		
1968	0	0	0	18	58	0	754	89	68	968	2,504	5,975		
1969	0	0	0	18	97	0	892	90	105	1,183	2,719	6,494		
1970	**0**	**0**	**0**	**24**	**108**	**0**	**905**	**91**	**45**	**1,149**	**3,019**	**7,317**		
1971	0	0	0	26	113	0	904	93	35	1,146	3,288	7,949		
1972	0	0	0	25	151	0	987	95	231	1,465	3,684	8,868		
1973	0	0	0	24	177	0	942	100	492	1,711	4,056	9,710		
1974	0	0	0	26	202	0	879	103	728	1,912	4,005	9,766		
1975	**0**	**0**	**0**	**24**	**239**	**0**	**747**	**105**	**898**	**1,988**	**3,982**	**9,604**		
1976	0	0	0	20	304	0	773	106	1,177	2,360	4,199	10,114		
1977	0	0	0	19	373	0	810	106	1,586	2,876	4,451	10,747		
1978	3	0	3	21	387	0	741	107	1,513	2,748	4,771	11,672		
1979	2	0	2	27	178	0	399	106	5,690	6,374	4,850	11,705		
1980	**1**	**0**	**1**	**21**	**24**	**0**	**388**	**122**	**3,405**	**3,940**	**5,110**	**12,426**		
1981	0	0	0	19	138	14	369	131	2,747	3,398	5,838	13,914		
1982	0	0	0	17	114	127	351	135	28	755	5,923	14,226		
1983	5	0	5	17	896	102	418	173	0	1,588	5,989	14,348		
1984	1	0	1	18	880	115	375	152	0	1,521	5,864	13,617		
1985	**1**	**0**	**1**	**17**	**1,067**	**364**	**389**	**134**	**36**	**1,991**	**6,131**	**14,378**		
1986	1	0	1	17	442	249	319	217	661	1,888	6,335	14,525		
1987	3	0	3	18	795	99	373	209	228	1,706	6,374	14,526		
1988	8	0	8	18	600	66	415	187	129	1,397	6,550	14,792		
1989	1	0	1	18	855	50	522	160	174	1,761	7,101	15,927		
							Trillion Btu					Net Energy[4]		Total[4]
1960	**0.0**	**0.0**	**0.0**	**15.7**	**0.2**	**0.0**	**1.7**	**0.4**	**0.1**	**2.4**	**4.4**	**22.5**	**10.8**	**33.3**
1961	0.0	0.0	0.0	17.8	0.2	0.0	1.8	0.4	0.1	2.6	4.6	24.9	11.2	36.2
1962	0.0	0.0	0.0	19.2	0.1	0.0	2.0	0.4	0.1	2.7	5.3	27.2	12.7	39.9
1963	0.0	0.0	0.0	20.4	0.2	0.0	2.1	0.4	*	2.7	5.7	28.8	13.7	42.5
1964	0.0	0.0	0.0	21.6	0.2	0.0	2.2	0.4	0.1	2.9	6.2	30.7	14.7	45.4
1965	**0.0**	**0.0**	**0.0**	**12.8**	**0.2**	**0.0**	**2.0**	**0.5**	**0.2**	**2.9**	**6.7**	**22.4**	**16.0**	**38.4**
1966	0.0	0.0	0.0	16.1	0.3	0.0	2.3	0.5	0.2	3.2	7.2	26.5	17.2	43.7
1967	0.0	0.0	0.0	16.9	0.3	0.0	2.3	0.5	0.4	3.5	7.7	28.2	18.5	46.7
1968	0.0	0.0	0.0	18.7	0.3	0.0	2.9	0.5	0.4	4.1	8.5	31.4	20.4	51.8
1969	0.0	0.0	0.0	18.1	0.6	0.0	3.4	0.5	0.7	5.1	9.3	32.5	22.2	54.6
1970	**0.0**	**0.0**	**0.0**	**24.4**	**0.6**	**0.0**	**3.4**	**0.5**	**0.3**	**4.8**	**10.3**	**39.6**	**25.0**	**64.5**
1971	0.0	0.0	0.0	26.5	0.7	0.0	3.4	0.5	0.2	4.8	11.2	42.5	27.1	69.6
1972	0.0	0.0	0.0	25.1	0.9	0.0	3.7	0.5	1.5	6.5	12.6	44.2	30.3	74.4
1973	0.0	0.0	0.0	24.2	1.0	0.0	3.5	0.5	3.1	8.2	13.8	46.2	33.1	79.4
1974	0.0	0.0	0.0	26.0	1.2	0.0	3.3	0.5	4.6	9.6	13.7	49.3	33.3	82.6
1975	**0.0**	**0.0**	**0.0**	**24.4**	**1.4**	**0.0**	**2.8**	**0.6**	**5.6**	**10.4**	**13.6**	**48.4**	**32.8**	**81.2**
1976	0.0	0.0	0.0	20.7	1.8	0.0	2.9	0.6	7.4	12.6	14.3	47.6	34.5	82.1
1977	0.0	0.0	0.0	19.8	2.2	0.0	3.0	0.6	10.0	15.7	15.2	50.7	36.7	87.3
1978	0.1	0.0	0.1	21.8	2.3	0.0	2.7	0.6	9.5	15.0	16.3	53.2	39.8	93.0
1979	0.1	0.0	0.1	28.0	1.0	0.0	1.5	0.6	35.8	38.8	16.5	83.5	39.9	123.4
1980	*****	**0.0**	*****	**21.6**	**0.1**	**0.0**	**1.4**	**0.6**	**21.4**	**23.6**	**17.4**	**62.7**	**42.4**	**105.1**
1981	0.0	0.0	0.0	19.8	0.8	0.1	1.3	0.7	17.3	20.2	19.9	59.9	47.5	107.4
1982	0.0	0.0	0.0	17.7	0.7	0.7	1.3	0.7	0.2	3.5	20.2	41.5	48.5	90.0
1983	0.1	0.0	0.1	17.6	5.2	0.6	1.5	0.9	0.0	8.2	20.4	46.4	49.0	95.3
1984	*	0.0	*	18.4	5.1	0.7	1.3	0.8	0.0	7.9	20.0	46.4	46.5	92.8
1985	*****	**0.0**	*****	**17.0**	**6.2**	**2.1**	**1.4**	**0.7**	**0.2**	**10.6**	**20.9**	**48.5**	**49.1**	**97.6**
1986	*	0.0	*	17.3	2.6	1.4	1.2	1.1	4.2	10.4	21.6	49.3	49.6	98.9
1987	0.1	0.0	0.1	18.2	4.6	0.6	1.4	1.1	1.4	9.1	21.7	49.1	49.6	98.7
1988	0.2	0.0	0.2	18.4	3.5	0.4	1.5	1.0	0.8	7.2	22.3	48.1	50.5	98.6
1989	*	0.0	*	18.1	5.0	0.3	1.9	0.8	1.1	9.1	24.2	51.5	54.3	105.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 162. Industrial Energy Consumption Estimates, 1960–1989, Mississippi

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**21**	**0**	**21**	**77**	**762**	**1,441**	**385**	**1,118**	**99**	**738**	**218**	**440**	**5,202**	**0**	**2,004**	**4,985**
1961	21	0	21	79	915	1,263	201	1,115	96	745	214	429	4,978	0	2,298	5,600
1962	21	0	21	80	943	1,355	163	1,229	104	819	246	445	5,305	0	2,491	5,988
1963	20	0	20	88	1,352	1,241	161	1,383	104	710	562	2,233	7,746	0	2,811	6,723
1964	21	0	21	105	1,253	1,613	296	1,483	109	644	506	2,295	8,199	0	3,144	7,488
1965	**31**	**0**	**31**	**105**	**1,144**	**1,590**	**319**	**1,117**	**157**	**610**	**149**	**2,401**	**7,486**	**0**	**3,517**	**8,398**
1966	31	0	31	128	1,281	1,914	618	1,173	163	550	78	2,490	8,269	0	3,847	9,232
1967	31	0	31	115	1,464	2,070	2,579	1,083	177	489	94	3,006	10,961	0	4,124	9,852
1968	40	0	40	128	1,389	2,335	2,393	1,469	194	395	177	3,145	11,497	0	4,465	10,653
1969	39	0	39	132	1,355	2,584	2,702	2,089	238	333	277	3,293	12,871	0	4,766	11,385
1970	**48**	**0**	**48**	**141**	**1,748**	**3,100**	**2,571**	**2,139**	**242**	**311**	**240**	**5,141**	**15,490**	**0**	**5,101**	**12,361**
1971	54	0	54	149	2,450	3,332	1,944	2,089	211	308	107	5,295	15,735	0	5,474	13,233
1972	54	0	54	155	2,819	3,246	2,114	2,516	226	263	726	5,569	17,479	0	5,594	13,465
1973	49	0	49	141	3,244	3,686	3,565	2,598	363	302	968	5,169	19,894	0	5,797	13,877
1974	49	0	49	129	3,041	3,966	1,491	2,696	348	218	743	5,017	17,519	0	5,880	14,337
1975	**24**	**0**	**24**	**107**	**2,589**	**4,455**	**1,307**	**2,739**	**374**	**218**	**778**	**5,403**	**17,863**	**0**	**6,814**	**16,437**
1976	114	0	114	89	2,354	5,501	1,126	2,972	415	203	902	5,375	18,849	0	7,534	18,149
1977	108	0	108	82	2,201	6,851	1,628	3,179	340	181	1,171	5,333	20,885	0	7,939	19,171
1978	73	0	73	77	2,647	7,513	2,002	2,658	366	161	1,083	5,697	22,127	0	8,154	19,949
1979	69	0	69	84	2,726	4,776	730	3,301	383	140	3,574	5,467	21,097	0	8,221	19,840
1980	**53**	**0**	**53**	**79**	**2,036**	**3,527**	**198**	**2,952**	**341**	**73**	**2,172**	**5,460**	**16,758**	**0**	**8,184**	**19,901**
1981	112	0	112	80	1,770	6,387	57	1,898	327	73	1,781	3,450	15,743	0	7,928	18,894
1982	103	0	103	104	1,718	4,878	152	1,881	298	0	2,656	3,392	14,976	0	7,374	17,711
1983	153	0	153	115	1,704	4,934	145	1,416	312	0	425	4,501	13,437	0	8,052	19,290
1984	219	0	219	127	3,561	4,845	239	2,444	333	448	617	4,860	17,347	0	9,015	20,933
1985	**251**	**0**	**251**	**105**	**2,054**	**5,392**	**191**	**2,189**	**310**	**751**	**301**	**4,311**	**15,498**	**0**	**9,147**	**21,450**
1986	244	0	244	96	1,904	4,469	393	1,338	303	628	8,990	4,503	22,527	0	9,329	21,389
1987	279	0	279	91	2,174	5,531	697	1,154	343	628	639	5,224	16,390	0	9,683	22,068
1988	264	0	264	100	2,627	5,508	1,028	1,355	330	634	5,369	6,250	23,101	0	10,115	22,843
1989	263	0	263	105	1,975	4,977	380	2,288	339	562	14,322	6,369	31,211	0	10,958	24,579

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu																	
1960	**0.5**	**0.0**	**0.5**	**79.3**	**5.1**	**8.4**	**2.2**	**4.5**	**0.6**	**3.9**	**1.4**	**2.6**	**28.6**	**0.0**	**6.8**	**115.2**	**17.0**	**132.3**
1961	0.5	0.0	0.5	82.0	6.1	7.4	1.1	4.5	0.6	3.9	1.3	2.6	27.5	0.0	7.8	117.8	19.1	136.9
1962	0.5	0.0	0.5	83.1	6.3	7.9	0.9	4.9	0.6	4.3	1.5	2.7	29.2	0.0	8.5	121.3	20.4	141.7
1963	0.5	0.0	0.5	90.2	9.0	7.2	0.9	5.5	0.6	3.7	3.5	13.4	44.0	0.0	9.6	144.3	22.9	167.2
1964	0.5	0.0	0.5	108.3	8.3	9.4	1.7	5.9	0.7	3.4	3.2	13.8	46.3	0.0	10.7	165.9	25.5	191.5
1965	**0.8**	**0.0**	**0.8**	**108.5**	**7.6**	**9.3**	**1.8**	**4.5**	**1.0**	**3.2**	**0.9**	**14.4**	**42.7**	**0.0**	**12.0**	**163.9**	**28.7**	**192.6**
1966	0.8	0.0	0.8	130.7	8.5	11.2	3.5	4.7	1.0	2.9	0.5	14.9	47.1	0.0	13.1	191.7	31.5	223.2
1967	0.8	0.0	0.8	117.8	9.7	12.1	14.6	4.2	1.1	2.6	0.6	18.0	62.8	0.0	14.1	195.4	33.6	229.0
1968	1.0	0.0	1.0	131.1	9.2	13.6	13.6	5.6	1.2	2.1	1.1	18.8	65.2	0.0	15.2	212.5	36.3	248.8
1969	1.0	0.0	1.0	135.2	9.0	15.1	15.3	7.9	1.4	1.8	1.7	19.7	72.0	0.0	16.3	224.4	38.8	263.3
1970	**1.2**	**0.0**	**1.2**	**144.4**	**11.6**	**18.1**	**14.6**	**8.1**	**1.5**	**1.6**	**1.5**	**30.8**	**87.7**	**0.0**	**17.4**	**250.6**	**42.2**	**292.8**
1971	1.3	0.0	1.3	152.3	16.3	19.4	11.0	7.9	1.3	1.6	0.7	31.6	89.8	0.0	18.7	262.1	45.2	307.2
1972	1.3	0.0	1.3	158.4	18.7	18.9	12.0	9.5	1.4	1.4	4.6	33.3	99.7	0.0	19.1	278.4	45.9	324.3
1973	1.2	0.0	1.2	144.4	21.5	21.5	20.2	9.7	2.2	1.6	6.1	30.9	113.7	0.0	19.8	279.0	47.3	326.3
1974	1.2	0.0	1.2	132.2	20.2	23.1	8.5	10.1	2.1	1.1	4.7	29.9	99.7	0.0	20.1	253.0	48.9	302.0
1975	**0.6**	**0.0**	**0.6**	**109.1**	**17.2**	**26.0**	**7.4**	**10.2**	**2.3**	**1.1**	**4.9**	**32.3**	**101.3**	**0.0**	**23.3**	**234.2**	**56.1**	**290.3**
1976	2.7	0.0	2.7	91.2	15.6	32.0	6.4	11.0	2.5	1.1	5.7	32.1	106.4	0.0	25.7	226.0	61.9	287.9
1977	2.5	0.0	2.5	84.6	14.6	39.9	9.2	11.7	2.1	1.0	7.4	31.9	117.7	0.0	27.1	231.8	65.4	297.3
1978	1.7	0.0	1.7	79.0	17.6	43.8	11.3	9.8	2.2	0.8	6.8	34.0	126.3	0.0	27.8	234.8	68.1	302.9
1979	1.6	0.0	1.6	86.4	18.1	27.8	4.1	12.1	2.3	0.7	22.5	32.7	120.4	0.0	28.1	236.4	67.7	304.1
1980	**1.2**	**0.0**	**1.2**	**81.5**	**13.5**	**20.5**	**1.1**	**10.8**	**2.1**	**0.4**	**13.7**	**32.6**	**94.7**	**0.0**	**27.9**	**205.4**	**67.9**	**273.3**
1981	2.6	0.0	2.6	82.6	11.7	37.2	0.3	6.9	2.0	0.4	11.2	21.5	91.2	0.0	27.0	203.5	64.5	267.9
1982	2.5	0.0	2.5	107.4	11.4	28.4	0.9	6.8	1.8	0.0	16.7	21.0	87.0	0.0	25.2	222.0	60.4	282.4
1983	3.6	0.0	3.6	118.4	11.3	28.7	0.8	5.1	1.9	0.0	2.7	27.4	78.0	0.0	27.5	227.5	65.8	293.3
1984	5.1	0.0	5.1	130.7	23.6	28.2	1.4	8.8	2.0	2.4	3.9	29.4	99.7	0.0	30.8	266.2	71.4	337.6
1985	**5.9**	**0.0**	**5.9**	**108.1**	**13.6**	**31.4**	**1.1**	**7.9**	**1.9**	**3.9**	**1.9**	**26.6**	**88.3**	**0.0**	**31.2**	**233.5**	**73.2**	**306.7**
1986	5.8	0.0	5.8	98.4	12.6	26.0	2.2	4.9	1.8	3.3	56.5	28.0	135.4	0.0	31.8	271.5	73.0	344.4
1987	6.6	0.0	6.6	91.9	14.4	32.2	3.9	4.2	2.1	3.3	4.0	31.8	96.0	0.0	33.0	227.6	75.3	302.9
1988	6.2	0.0	6.2	101.5	17.4	32.1	5.8	4.9	2.0	3.3	33.8	37.6	137.0	0.0	34.5	279.3	77.9	357.3
1989	6.1	0.0	6.1	108.1	13.1	29.0	2.2	8.4	2.1	3.0	90.0	38.0	185.7	0.0	37.4	337.3	83.9	421.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 163. Transportation Energy Consumption Estimates, 1960–1989, Mississippi

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	*	**31**	**170**	**882**	**1,465**	**220**	**292**	**15,279**	**11**	**18,320**	**0**	**0**		
1961	*	31	168	640	1,489	253	284	15,520	88	18,441	0	0		
1962	*	32	320	1,334	1,602	291	392	16,209	173	20,322	0	0		
1963	*	38	421	1,582	1,652	344	392	16,902	241	21,534	0	0		
1964	*	39	386	1,651	1,742	355	412	17,215	276	22,037	0	0		
1965	*	**45**	**463**	**1,136**	**1,460**	**233**	**312**	**17,842**	**301**	**21,747**	**0**	**0**		
1966	*	48	295	1,106	1,526	295	324	19,148	73	22,768	0	0		
1967	*	49	326	1,226	1,705	285	253	20,086	54	23,933	0	0		
1968	*	52	406	2,656	2,036	393	277	21,409	252	27,430	0	0		
1969	*	56	386	2,994	1,858	456	278	22,768	27	28,767	0	0		
1970	*	**59**	**318**	**2,690**	**1,614**	**472**	**283**	**23,914**	**3**	**29,293**	**0**	**0**		
1971	*	59	334	3,663	1,669	525	322	24,969	0	31,481	0	0		
1972	*	58	338	4,039	1,600	559	344	27,180	152	34,213	0	0		
1973	*	57	344	5,123	1,513	535	312	27,846	428	36,101	0	0		
1974	*	50	240	5,372	1,538	510	299	27,854	729	36,543	0	0		
1975	*	**38**	**203**	**4,696**	**1,475**	**464**	**307**	**27,489**	**1,184**	**35,817**	**0**	**0**		
1976	*	31	173	5,594	1,425	535	341	28,647	1,201	37,917	0	0		
1977	*	31	159	6,232	1,498	570	314	30,278	1,354	40,405	0	0		
1978	0	32	147	6,942	1,361	623	338	30,498	1,987	41,896	0	0		
1979	0	42	115	5,885	1,451	8	353	29,177	2,701	39,691	0	0		
1980	**0**	**39**	**206**	**6,020**	**1,530**	**152**	**315**	**26,585**	**5,355**	**40,163**	**0**	**0**		
1981	0	41	142	6,836	1,734	184	302	27,454	3,086	39,737	0	0		
1982	0	37	106	6,779	3,336	259	275	26,301	2,410	39,466	0	0		
1983	0	28	113	7,279	2,963	307	288	26,517	1,768	39,237	0	0		
1984	0	33	121	8,225	2,334	263	307	26,300	1,736	39,287	0	0		
1985	**0**	**25**	**108**	**9,392**	**4,111**	**217**	**286**	**26,695**	**1,040**	**41,849**	**0**	**0**		
1986	0	29	137	9,858	4,914	166	280	27,703	1,377	44,437	0	0		
1987	0	32	113	10,364	7,657	153	317	28,404	1,588	48,596	0	0		
1988	0	35	129	12,851	8,006	137	305	28,696	1,517	51,642	0	0		
1989	0	34	153	11,187	6,567	117	313	28,288	970	47,594	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	*	**32.5**	**0.9**	**5.1**	**7.8**	**0.9**	**1.8**	**80.3**	**0.1**	**96.8**	**0.0**	**129.3**	**0.0**	**129.3**
1961	*	32.1	0.8	3.7	8.0	1.0	1.7	81.5	0.6	97.4	0.0	129.5	0.0	129.5
1962	*	33.5	1.6	7.8	8.6	1.2	2.4	85.1	1.1	107.7	0.0	141.3	0.0	141.3
1963	*	39.0	2.1	9.2	8.8	1.4	2.4	88.8	1.5	114.2	0.0	153.3	0.0	153.3
1964	*	40.8	1.9	9.6	9.3	1.4	2.5	90.4	1.7	117.0	0.0	157.8	0.0	157.8
1965	*	**46.6**	**2.3**	**6.6**	**7.8**	**0.9**	**1.9**	**93.7**	**1.9**	**115.2**	**0.0**	**161.8**	**0.0**	**161.8**
1966	*	48.7	1.5	6.4	8.2	1.2	2.0	100.6	0.5	120.3	0.0	169.0	0.0	169.0
1967	*	49.9	1.6	7.1	9.2	1.1	1.5	105.5	0.3	126.4	0.0	176.3	0.0	176.3
1968	*	53.0	2.1	15.5	11.0	1.5	1.7	112.5	1.6	145.7	0.0	198.7	0.0	198.7
1969	*	57.6	2.0	17.4	10.0	1.7	1.7	119.6	0.2	152.6	0.0	210.2	0.0	210.2
1970	*	**60.8**	**1.6**	**15.7**	**8.7**	**1.8**	**1.7**	**125.6**	*	**155.2**	**0.0**	**216.0**	**0.0**	**216.0**
1971	*	60.9	1.7	21.3	9.0	2.0	2.0	131.2	0.0	167.2	0.0	228.1	0.0	228.1
1972	*	59.0	1.7	23.5	8.7	2.1	2.1	142.8	1.0	181.8	0.0	240.8	0.0	240.8
1973	*	58.6	1.7	29.8	8.2	2.0	1.9	146.3	2.7	192.7	0.0	251.3	0.0	251.3
1974	*	51.4	1.2	31.3	8.4	1.9	1.8	146.3	4.6	195.5	0.0	246.9	0.0	246.9
1975	*	**39.2**	**1.0**	**27.4**	**8.0**	**1.7**	**1.9**	**144.4**	**7.4**	**191.8**	**0.0**	**231.0**	**0.0**	**231.0**
1976	*	31.3	0.9	32.6	7.8	2.0	2.1	150.5	7.6	203.3	0.0	234.6	0.0	234.6
1977	*	31.8	0.8	36.3	8.2	2.1	1.9	159.1	8.5	216.8	0.0	248.6	0.0	248.6
1978	0.0	32.4	0.7	40.4	7.4	2.3	2.0	160.2	12.5	225.6	0.0	258.1	0.0	258.1
1979	0.0	43.3	0.6	34.3	7.9	*	2.1	153.3	17.0	215.2	0.0	258.5	0.0	258.5
1980	**0.0**	**40.6**	**1.0**	**35.1**	**8.3**	**0.6**	**1.9**	**139.7**	**33.7**	**220.2**	**0.0**	**260.8**	**0.0**	**260.8**
1981	0.0	41.7	0.7	39.8	9.5	0.7	1.8	144.2	19.4	216.1	0.0	257.9	0.0	257.9
1982	0.0	38.2	0.5	39.5	18.5	0.9	1.7	138.2	15.2	214.5	0.0	252.6	0.0	252.6
1983	0.0	28.7	0.6	42.4	16.4	1.1	1.7	139.3	11.1	212.7	0.0	241.4	0.0	241.4
1984	0.0	33.5	0.6	47.9	12.8	0.9	1.9	138.2	10.9	213.2	0.0	246.8	0.0	246.8
1985	**0.0**	**25.9**	**0.5**	**54.7**	**22.9**	**0.8**	**1.7**	**140.2**	**6.5**	**227.5**	**0.0**	**253.4**	**0.0**	**253.4**
1986	0.0	29.3	0.7	57.4	27.5	0.6	1.7	145.5	8.7	242.1	0.0	271.4	0.0	271.4
1987	0.0	32.9	0.6	60.4	43.1	0.6	1.9	149.2	10.0	265.7	0.0	298.6	0.0	298.6
1988	0.0	35.0	0.7	74.9	45.0	0.5	1.9	150.7	9.5	283.2	0.0	318.2	0.0	318.2
1989	0.0	35.1	0.8	65.2	36.9	0.4	1.9	148.6	6.1	259.9	0.0	294.9	0.0	294.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 164. Estimates of Energy Input at Electric Utilities, 1960-1989, Mississippi

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**8**	**0**	**8**	**34**	**64**	**1**	**0**	**65**	**0**	**0**	**0**	**0**	
1961	5	0	5	34	31	*	0	31	0	0	0	0	
1962	7	0	7	38	37	*	0	38	0	0	0	0	
1963	10	0	10	47	85	1	0	86	0	0	0	0	
1964	8	0	8	50	18	*	0	19	0	0	0	0	
1965	**9**	**0**	**9**	**56**	**6**	*	**0**	**7**	**0**	**0**	**0**	**0**	
1966	5	0	5	57	28	*	0	29	0	0	0	0	
1967	7	0	7	76	37	*	0	37	0	0	0	0	
1968	250	0	250	84	99	1	0	100	0	0	0	0	
1969	556	0	556	90	270	3	0	273	0	0	0	0	
1970	**500**	**0**	**500**	**100**	**415**	**5**	**0**	**420**	**0**	**0**	**0**	**0**	
1971	505	0	505	104	979	24	0	1,002	0	0	0	0	
1972	527	0	527	101	3,182	50	0	3,232	0	0	0	0	
1973	1,197	0	1,197	60	5,776	66	0	5,842	0	0	0	0	
1974	1,457	0	1,457	42	8,549	116	0	8,665	0	0	0	0	
1975	**1,416**	**0**	**1,416**	**32**	**9,203**	**266**	**0**	**9,469**	**0**	**0**	**0**	**0**	
1976	1,711	0	1,711	33	12,513	359	0	12,872	0	0	0	0	
1977	1,582	0	1,582	39	16,611	442	0	17,053	0	0	0	0	
1978	1,655	0	1,655	43	19,775	341	0	20,117	0	0	0	0	
1979	2,482	0	2,482	64	10,379	49	0	10,428	0	0	0	0	
1980	**3,072**	**0**	**3,072**	**95**	**5,078**	**70**	**0**	**5,149**	**0**	**0**	**0**	**0**	
1981	3,334	0	3,334	75	2,790	82	0	2,872	0	0	0	0	
1982	4,055	0	4,055	83	366	60	0	426	0	0	0	0	
1983	3,802	0	3,802	50	167	39	0	206	0	0	0	0	
1984	4,076	0	4,076	63	121	45	0	166	165	0	0	0	
1985	**4,267**	**0**	**4,267**	**54**	**108**	**61**	**0**	**169**	**4,332**	**0**	**0**	**0**	
1986	4,208	0	4,208	48	1,374	45	0	1,420	4,087	0	0	0	
1987	4,562	0	4,562	41	152	37	0	188	7,717	0	0	0	
1988	4,859	0	4,859	33	1,109	57	0	1,166	9,582	0	0	0	
1989	3,566	0	3,566	45	1,277	86	0	1,363	7,826	0	0	0	
	Trillion Btu												
1960	**0.2**	**0.0**	**0.2**	**35.6**	**0.4**	*	**0.0**	**0.4**	**0.0**	**0.0**	**0.0**	**0.0**	**36.2**
1961	0.1	0.0	0.1	35.1	0.2	*	0.0	0.2	0.0	0.0	0.0	0.0	35.4
1962	0.2	0.0	0.2	38.8	0.2	*	0.0	0.2	0.0	0.0	0.0	0.0	39.2
1963	0.2	0.0	0.2	48.0	0.5	*	0.0	0.5	0.0	0.0	0.0	0.0	48.8
1964	0.2	0.0	0.2	52.0	0.1	*	0.0	0.1	0.0	0.0	0.0	0.0	52.3
1965	**0.2**	**0.0**	**0.2**	**58.0**	*	*	**0.0**	*	**0.0**	**0.0**	**0.0**	**0.0**	**58.3**
1966	0.1	0.0	0.1	58.6	0.2	*	0.0	0.2	0.0	0.0	0.0	0.0	58.9
1967	0.2	0.0	0.2	77.4	0.2	*	0.0	0.2	0.0	0.0	0.0	0.0	77.8
1968	6.3	0.0	6.3	86.3	0.6	*	0.0	0.6	0.0	0.0	0.0	0.0	93.2
1969	13.8	0.0	13.8	92.1	1.7	*	0.0	1.7	0.0	0.0	0.0	0.0	107.6
1970	**12.1**	**0.0**	**12.1**	**102.2**	**2.6**	*	**0.0**	**2.6**	**0.0**	**0.0**	**0.0**	**0.0**	**116.9**
1971	12.2	0.0	12.2	106.8	6.2	0.1	0.0	6.3	0.0	0.0	0.0	0.0	125.3
1972	12.7	0.0	12.7	105.0	20.0	0.3	0.0	20.3	0.0	0.0	0.0	0.0	137.9
1973	28.3	0.0	28.3	62.2	36.3	0.4	0.0	36.7	0.0	0.0	0.0	0.0	127.2
1974	33.4	0.0	33.4	44.0	53.7	0.7	0.0	54.4	0.0	0.0	0.0	0.0	131.8
1975	**32.8**	**0.0**	**32.8**	**32.5**	**57.9**	**1.5**	**0.0**	**59.4**	**0.0**	**0.0**	**0.0**	**0.0**	**124.7**
1976	39.8	0.0	39.8	33.3	78.7	2.1	0.0	80.8	0.0	0.0	0.0	0.0	153.9
1977	36.1	0.0	36.1	39.9	104.4	2.6	0.0	107.0	0.0	0.0	0.0	0.0	183.0
1978	39.2	0.0	39.2	43.6	124.3	2.0	0.0	126.3	0.0	0.0	0.0	0.0	209.2
1979	58.1	0.0	58.1	64.8	65.3	0.3	0.0	65.5	0.0	0.0	0.0	0.0	188.4
1980	**73.7**	**0.0**	**73.7**	**96.7**	**31.9**	**0.4**	**0.0**	**32.3**	**0.0**	**0.0**	**0.0**	**0.0**	**202.7**
1981	80.4	0.0	80.4	75.8	17.5	0.5	0.0	18.0	0.0	0.0	0.0	0.0	174.1
1982	98.0	0.0	98.0	85.0	2.3	0.3	0.0	2.7	0.0	0.0	0.0	0.0	185.7
1983	92.3	0.0	92.3	51.2	1.1	0.2	0.0	1.3	0.0	0.0	0.0	0.0	144.8
1984	98.8	0.0	98.8	64.4	0.8	0.3	0.0	1.0	1.8	0.0	0.0	0.0	166.0
1985	**103.5**	**0.0**	**103.5**	**55.7**	**0.7**	**0.4**	**0.0**	**1.0**	**46.8**	**0.0**	**0.0**	**0.0**	**207.0**
1986	102.9	0.0	102.9	49.4	8.6	0.3	0.0	8.9	44.1	0.0	0.0	0.0	205.4
1987	115.6	0.0	115.6	42.3	1.0	0.2	0.0	1.2	83.2	0.0	0.0	0.0	242.2
1988	123.1	0.0	123.1	34.1	7.0	0.3	0.0	7.3	102.9	0.0	0.0	0.0	267.4
1989	90.2	0.0	90.2	46.0	8.0	0.5	0.0	8.5	83.9	0.0	0.0	0.0	228.7

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 165. Energy Consumption Estimates by Source, 1960–1989, Missouri

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**7,510**	**261**	**3,725**	**1,844**	**12,817**	**1,249**	**2,087**	**5,994**	**953**	**40,807**	**3,179**	**1,824**	**74,478**	**0**	**726**	**0**	**0**	**4,227**	
1961	7,028	274	4,046	1,461	12,842	1,755	1,496	6,465	927	40,903	2,775	1,831	74,500	0	1,240	0	0	2,407	
1962	7,971	289	4,122	2,419	13,395	2,220	1,511	7,042	1,025	42,095	2,220	1,972	78,019	0	881	0	0	-280	
1963	8,033	303	4,192	2,491	13,847	2,252	1,118	8,101	1,024	42,995	2,432	2,627	81,078	0	377	0	0	170	
1964	8,183	325	4,084	2,603	13,857	2,672	1,058	6,938	1,076	43,386	2,475	3,934	82,084	0	319	0	0	1,696	
1965	**8,534**	**341**	**4,401**	**2,323**	**13,803**	**3,625**	**1,162**	**7,692**	**1,029**	**45,015**	**3,449**	**4,058**	**86,557**	**0**	**802**	**0**	**0**	**2,382**	
1966	8,621	352	4,724	918	13,607	4,702	1,032	10,278	1,069	46,863	2,765	4,374	90,332	0	596	0	0	13,197	
1967	8,567	361	4,746	537	13,641	6,490	924	10,742	991	47,886	3,452	4,457	93,868	0	641	0	0	14,624	
1968	9,597	366	4,893	367	17,045	7,752	1,178	11,376	1,088	51,076	3,438	4,796	103,010	0	1,334	0	0	12,585	
1969	11,135	399	5,479	233	16,406	7,867	889	12,388	1,129	53,401	3,737	4,933	106,462	0	1,435	0	0	3,939	
1970	**12,863**	**430**	**5,657**	**179**	**16,235**	**8,074**	**643**	**11,771**	**1,150**	**56,041**	**3,570**	**5,032**	**108,353**	**0**	**927**	**0**	**0**	**-2,103**	
1971	13,510	429	5,804	207	16,365	8,024	740	11,890	1,090	58,707	2,923	4,047	109,797	0	703	0	0	-4,144	
1972	15,382	425	5,613	184	18,256	8,366	481	12,451	1,167	61,213	2,731	4,533	114,994	0	612	0	0	-5,645	
1973	17,652	427	6,784	322	19,038	8,019	410	12,445	1,420	62,431	2,874	4,688	118,430	0	2,008	0	0	-18,514	
1974	17,646	410	6,551	299	17,555	7,642	311	12,436	1,360	61,500	2,565	4,674	114,894	0	1,713	0	0	-13,961	
1975	**19,955**	**370**	**5,401**	**184**	**17,819**	**8,311**	**282**	**12,995**	**1,284**	**62,342**	**2,521**	**4,445**	**115,584**	**0**	**1,280**	**0**	**0**	**-12,225**	
1976	21,517	380	4,600	165	19,874	7,870	547	13,255	1,426	65,111	3,041	8,030	123,920	0	740	0	0	-17,624	
1977	23,075	367	4,977	177	20,736	7,963	489	13,354	1,602	66,596	3,658	9,365	128,916	0	454	0	0	-20,052	
1978	22,538	359	5,788	211	23,138	8,114	419	13,171	1,720	67,945	3,716	10,100	134,322	0	1,017	0	0	-9,004	
1979	23,780	347	5,016	189	23,152	7,480	462	13,548	1,800	63,350	3,512	11,231	129,739	0	1,100	0	0	-9,820	
1980	**24,845**	**318**	**4,002**	**162**	**18,390**	**6,268**	**315**	**9,121**	**1,603**	**58,966**	**1,427**	**11,432**	**111,687**	**0**	**558**	**0**	**0**	**-5,550**	
1981	25,199	284	3,175	209	18,221	4,741	546	7,391	1,537	58,581	667	10,373	105,442	0	669	0	0	-5,532	
1982	24,405	279	3,289	145	20,921	4,371	780	8,945	1,402	57,855	730	7,630	106,069	0	1,656	0	0	-7,854	
1983	26,267	259	3,419	142	16,952	5,457	136	9,000	1,468	58,742	598	6,424	102,338	0	1,716	0	0	-8,107	
1984	27,607	265	3,960	133	18,617	5,615	159	8,153	1,565	59,930	515	7,795	106,441	920	1,587	0	0	-19,707	
1985	**24,733**	**260**	**4,295**	**135**	**19,593**	**5,889**	**227**	**8,893**	**1,459**	**60,022**	**871**	**7,186**	**108,570**	**8,030**	**2,993**	**0**	**0**	**-22,527**	
1986	23,821	242	4,624	164	18,327	6,710	76	9,144	1,426	63,390	677	7,603	112,141	7,170	1,996	0	0	-8,512	
1987	24,764	232	4,351	134	19,273	7,463	64	8,632	1,612	63,611	709	8,327	114,175	6,284	1,447	0	0	-3,598	
1988	26,119	253	5,657	162	21,226	7,307	89	9,757	1,555	64,948	815	8,298	119,813	8,935	1,511	0	0	-12,024	
1989	26,348	261	4,545	200	22,131	7,277	123	11,261	1,595	63,684	701	8,096	119,614	8,344	1,094	0	0	-9,668	
									Trillion Btu										
1960	**170.9**	**270.1**	**24.7**	**9.3**	**74.7**	**7.0**	**11.8**	**24.0**	**5.8**	**214.4**	**20.0**	**10.8**	**402.4**	**0.0**	**7.8**	**0.0**	**0.0**	**14.4**	**865.7**
1961	158.5	284.1	26.8	7.4	74.8	9.8	8.5	25.9	5.6	214.9	17.4	10.8	402.0	0.0	13.2	0.0	0.0	8.2	866.1
1962	180.5	299.6	27.4	12.2	78.0	12.5	8.6	28.2	6.2	221.1	14.0	11.7	419.8	0.0	9.3	0.0	0.0	-1.0	908.3
1963	180.7	309.1	27.8	12.6	80.7	12.6	6.3	32.5	6.2	225.9	15.3	15.2	435.1	0.0	3.9	0.0	0.0	0.6	929.5
1964	183.4	332.0	27.1	13.1	80.7	15.0	6.0	27.8	6.5	227.9	15.6	22.2	442.0	0.0	3.3	0.0	0.0	5.8	966.6
1965	**189.6**	**348.0**	**29.2**	**11.7**	**80.4**	**20.4**	**6.6**	**30.9**	**6.2**	**236.5**	**21.7**	**22.9**	**466.5**	**0.0**	**8.4**	**0.0**	**0.0**	**8.1**	**1,020.6**
1966	190.7	357.4	31.4	4.6	79.3	26.5	5.9	41.2	6.5	246.2	17.4	24.6	483.5	0.0	6.2	0.0	0.0	45.0	1,082.8
1967	189.0	367.2	31.5	2.7	79.5	36.7	5.2	41.2	6.0	251.5	21.7	25.1	501.1	0.0	6.7	0.0	0.0	49.9	1,113.9
1968	212.3	372.9	32.5	1.9	99.3	43.8	6.7	43.4	6.6	268.3	21.6	26.9	551.0	0.0	13.9	0.0	0.0	42.9	1,192.9
1969	244.5	406.7	36.4	1.2	95.6	44.5	5.0	47.1	6.8	280.5	23.5	27.7	568.3	0.0	15.0	0.0	0.0	13.4	1,247.9
1970	**279.2**	**432.5**	**37.5**	**0.9**	**94.6**	**45.7**	**3.6**	**44.5**	**7.0**	**294.4**	**22.4**	**28.2**	**578.8**	**0.0**	**9.7**	**0.0**	**0.0**	**-7.2**	**1,293.2**
1971	294.1	432.1	38.5	1.0	95.3	45.4	4.2	44.8	6.6	308.4	18.4	23.0	585.7	0.0	7.4	0.0	0.0	-14.1	1,305.2
1972	334.4	428.2	37.2	0.9	106.3	47.3	2.7	46.8	7.1	321.6	17.2	25.8	613.0	0.0	6.4	0.0	0.0	-19.3	1,362.6
1973	383.5	424.7	45.0	1.6	110.9	45.4	2.3	46.6	8.6	327.9	18.1	26.7	633.2	0.0	20.9	0.0	0.0	-63.2	1,399.0
1974	382.0	411.9	43.5	1.5	102.3	43.2	1.8	46.4	8.2	323.1	16.1	26.6	612.7	0.0	17.9	0.0	0.0	-47.6	1,376.8
1975	**430.2**	**371.8**	**35.8**	**0.9**	**103.8**	**47.0**	**1.6**	**48.3**	**7.8**	**327.5**	**15.9**	**25.4**	**614.0**	**0.0**	**13.3**	**0.0**	**0.0**	**-41.7**	**1,387.7**
1976	468.3	381.4	30.5	0.8	115.8	44.5	3.1	49.2	8.6	342.0	19.1	45.6	659.3	0.0	7.7	0.0	0.0	-60.1	1,456.6
1977	503.9	367.7	33.0	0.9	120.8	45.1	2.8	49.1	9.7	349.8	23.0	53.4	687.6	0.0	4.7	0.0	0.0	-68.4	1,495.5
1978	485.7	360.3	38.4	1.1	134.8	45.9	2.4	48.3	10.4	356.9	23.4	57.5	719.1	0.0	10.5	0.0	0.0	-30.7	1,544.9
1979	512.5	340.1	33.3	1.0	134.9	42.4	2.6	49.9	10.9	332.8	22.1	63.1	692.9	0.0	11.4	0.0	0.0	-33.5	1,523.4
1980	**531.4**	**322.9**	**26.6**	**0.8**	**107.1**	**35.5**	**1.8**	**33.5**	**9.7**	**309.8**	**9.0**	**63.7**	**597.4**	**0.0**	**5.8**	**0.0**	**0.0**	**-18.9**	**1,438.6**
1981	536.0	287.8	21.1	1.1	106.1	26.8	3.1	26.9	9.3	307.7	4.2	57.9	564.3	0.0	7.0	0.0	0.0	-18.9	1,376.2
1982	523.8	284.5	21.8	0.7	121.9	24.7	4.4	32.3	8.5	303.9	4.6	42.0	565.0	0.0	17.3	0.0	0.0	-26.8	1,363.8
1983	564.4	265.5	22.7	0.7	98.7	30.9	0.8	32.5	8.9	308.6	3.8	35.6	543.2	0.0	18.0	0.0	0.0	-27.7	1,363.5
1984	593.3	269.5	26.3	0.7	108.4	31.8	0.9	29.3	9.5	314.8	3.2	42.4	567.3	10.0	16.4	0.0	0.0	-67.2	1,389.2
1985	**529.7**	**264.3**	**28.5**	**0.7**	**114.1**	**33.3**	**1.3**	**32.0**	**8.8**	**315.3**	**5.5**	**39.2**	**578.8**	**86.8**	**30.9**	**0.0**	**0.0**	**-76.9**	**1,413.7**
1986	512.3	244.3	30.7	0.8	106.8	38.0	0.4	33.3	8.6	333.0	4.3	41.9	597.7	77.4	20.5	0.0	0.0	-29.0	1,423.2
1987	528.1	234.5	28.9	0.7	112.3	42.2	0.4	31.6	9.8	334.1	4.5	45.9	610.3	67.7	14.8	0.0	0.0	-12.3	1,443.1
1988	547.3	254.4	37.5	0.8	123.6	41.3	0.5	35.6	9.4	341.2	5.1	46.0	641.2	96.0	15.5	0.0	0.0	-41.0	1,513.3
1989	549.9	263.4	30.2	1.0	128.9	41.2	0.7	41.5	9.7	334.5	4.4	44.7	636.8	89.5	11.3	0.0	0.0	-33.0	1,517.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 166. Residential Energy Consumption Estimates, 1960-1989, Missouri

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**415**	**0**	**415**	**111**	**1,330**	**240**	**4,687**	**6,257**	**4,223**	**10,505**
1961	347	0	347	115	1,447	179	5,054	6,680	4,447	10,838
1962	326	0	326	119	1,281	165	5,525	6,971	4,813	11,570
1963	177	0	177	120	1,344	131	6,257	7,732	5,198	12,432
1964	141	0	141	124	1,255	123	5,562	6,940	5,622	13,390
1965	**105**	**0**	**105**	**130**	**1,056**	**138**	**6,139**	**7,332**	**5,977**	**14,271**
1966	97	0	97	130	1,218	113	7,776	9,106	6,521	15,648
1967	62	0	62	133	1,292	37	8,244	9,573	6,878	16,432
1968	46	0	46	139	1,376	82	8,388	9,846	7,925	18,908
1969	42	0	42	152	1,287	71	9,098	10,457	8,836	21,108
1970	**32**	**0**	**32**	**157**	**1,312**	**69**	**8,934**	**10,315**	**9,672**	**23,438**
1971	27	0	27	153	1,317	78	9,046	10,440	10,435	25,227
1972	32	0	32	160	1,532	42	9,504	11,079	11,176	26,900
1973	71	0	71	154	1,545	42	9,355	10,942	11,931	28,563
1974	75	0	75	153	1,401	35	9,175	10,611	11,830	28,844
1975	**54**	**0**	**54**	**155**	**1,435**	**28**	**9,528**	**10,992**	**13,654**	**32,935**
1976	62	0	62	160	1,541	43	9,339	10,923	13,302	32,042
1977	39	0	39	154	1,455	36	9,296	10,787	14,535	35,098
1978	87	0	87	159	1,646	30	8,911	10,586	16,108	39,408
1979	110	0	110	161	1,771	45	7,061	8,876	16,369	39,504
1980	**29**	**0**	**29**	**143**	**1,246**	**57**	**4,991**	**6,294**	**18,648**	**45,346**
1981	37	0	37	129	1,407	76	4,654	6,137	16,437	39,173
1982	31	0	31	136	1,125	123	4,824	6,072	16,708	40,131
1983	45	0	45	127	702	69	5,738	6,509	19,003	45,526
1984	44	0	44	131	758	101	5,016	5,875	18,490	42,936
1985	**55**	**0**	**55**	**128**	**815**	**144**	**5,781**	**6,741**	**18,483**	**43,343**
1986	37	0	37	121	820	58	6,201	7,079	19,468	44,637
1987	86	0	86	116	654	47	5,778	6,479	20,312	46,292
1988	78	0	78	128	634	52	6,141	6,828	21,348	48,210
1989	87	0	87	129	474	74	7,299	7,847	21,057	47,233

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu											
1960	**9.5**	**0.0**	**9.5**	**115.0**	**7.7**	**1.4**	**18.8**	**27.9**	**14.4**	**166.8**	**35.8**	**202.7**
1961	7.9	0.0	7.9	119.0	8.4	1.0	20.3	29.7	15.2	171.9	37.0	208.8
1962	7.5	0.0	7.5	123.5	7.5	0.9	22.2	30.6	16.4	178.0	39.5	217.4
1963	4.1	0.0	4.1	122.8	7.8	0.7	25.1	33.7	17.7	178.3	42.4	220.7
1964	3.2	0.0	3.2	126.5	7.3	0.7	22.3	30.3	19.2	179.2	45.7	224.9
1965	**2.4**	**0.0**	**2.4**	**132.1**	**6.1**	**0.8**	**24.6**	**31.6**	**20.4**	**186.5**	**48.7**	**235.2**
1966	2.2	0.0	2.2	131.8	7.1	0.6	31.2	38.9	22.3	195.2	53.4	248.6
1967	1.4	0.0	1.4	135.8	7.5	0.2	31.6	39.4	23.5	200.0	56.1	256.1
1968	1.1	0.0	1.1	141.5	8.0	0.5	32.0	40.5	27.0	210.1	64.5	274.7
1969	0.9	0.0	0.9	154.8	7.5	0.4	34.6	42.5	30.1	228.4	72.0	300.4
1970	**0.7**	**0.0**	**0.7**	**157.7**	**7.6**	**0.4**	**33.8**	**41.8**	**33.0**	**233.2**	**80.0**	**313.1**
1971	0.6	0.0	0.6	154.5	7.7	0.4	34.1	42.2	35.6	232.9	86.1	319.0
1972	0.7	0.0	0.7	162.1	8.9	0.2	35.7	44.9	38.1	245.8	91.8	337.6
1973	1.6	0.0	1.6	153.1	9.0	0.2	35.0	44.3	40.7	239.7	97.5	337.1
1974	1.6	0.0	1.6	154.3	8.2	0.2	34.2	42.6	40.4	238.8	98.4	337.2
1975	**1.2**	**0.0**	**1.2**	**156.5**	**8.4**	**0.2**	**35.4**	**43.9**	**46.6**	**248.1**	**112.4**	**360.5**
1976	1.3	0.0	1.3	161.0	9.0	0.2	34.7	43.9	45.4	251.6	109.3	360.9
1977	0.8	0.0	0.8	154.7	8.5	0.2	34.2	42.9	49.6	248.0	119.8	367.8
1978	1.9	0.0	1.9	160.0	9.6	0.2	32.7	42.4	55.0	259.3	134.5	393.7
1979	2.3	0.0	2.3	157.9	10.3	0.3	26.0	36.6	55.9	252.7	134.8	387.5
1980	**0.6**	**0.0**	**0.6**	**145.7**	**7.3**	**0.3**	**18.3**	**25.9**	**63.6**	**235.9**	**154.7**	**390.6**
1981	0.8	0.0	0.8	130.6	8.2	0.4	17.0	25.6	56.1	213.1	133.7	346.7
1982	0.7	0.0	0.7	138.4	6.6	0.7	17.4	24.7	57.0	220.8	136.9	357.7
1983	1.0	0.0	1.0	130.1	4.1	0.4	20.7	25.2	64.8	221.1	155.3	376.4
1984	1.0	0.0	1.0	132.9	4.4	0.6	18.1	23.0	63.1	220.0	146.5	366.5
1985	**1.2**	**0.0**	**1.2**	**130.3**	**4.8**	**0.8**	**20.8**	**26.4**	**63.1**	**221.0**	**147.9**	**368.9**
1986	0.8	0.0	0.8	121.9	4.8	0.3	22.6	27.7	66.4	216.8	152.3	369.1
1987	1.9	0.0	1.9	117.3	3.8	0.3	21.1	25.2	69.3	213.7	157.9	371.7
1988	1.7	0.0	1.7	129.1	3.7	0.3	22.4	26.4	72.8	230.1	164.5	394.6
1989	1.9	0.0	1.9	130.2	2.8	0.4	26.9	30.1	71.8	234.0	161.2	395.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 167. Commercial Energy Consumption Estimates, 1960-1989, Missouri

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**770**	**0**	**770**	**33**	**1,101**	**1,507**	**827**	**113**	**1,366**	**4,914**	**3,314**	**8,243**		
1961	644	0	644	34	1,197	1,126	892	119	1,032	4,366	3,443	8,392		
1962	605	0	605	39	1,059	1,038	975	128	726	3,925	3,714	8,928		
1963	329	0	329	40	1,112	825	1,104	129	779	3,949	3,999	9,564		
1964	261	0	261	47	1,038	773	981	130	948	3,870	4,189	9,977		
1965	**196**	**0**	**196**	**41**	**873**	**865**	**1,083**	**133**	**1,508**	**4,463**	**4,473**	**10,681**		
1966	180	0	180	66	1,007	710	1,372	135	1,225	4,449	4,640	11,133		
1967	115	0	115	83	1,069	230	1,455	140	1,447	4,341	4,939	11,799		
1968	86	0	86	80	1,138	514	1,480	150	1,461	4,744	5,433	12,962		
1969	77	0	77	79	1,065	449	1,606	152	1,660	4,932	5,797	13,848		
1970	**60**	**0**	**60**	**88**	**1,085**	**433**	**1,577**	**153**	**1,654**	**4,901**	**6,168**	**14,948**		
1971	50	0	50	90	1,089	489	1,596	154	1,320	4,649	6,550	15,835		
1972	60	0	60	98	1,268	265	1,677	154	934	4,298	7,021	16,900		
1973	132	0	132	91	1,278	264	1,651	158	903	4,254	7,549	18,072		
1974	139	0	139	90	1,159	223	1,619	157	897	4,054	7,193	17,537		
1975	**101**	**0**	**101**	**91**	**1,187**	**179**	**1,681**	**159**	**764**	**3,971**	**7,639**	**18,425**		
1976	115	0	115	98	1,275	269	1,648	161	979	4,332	11,068	26,661		
1977	72	0	72	93	1,203	230	1,640	163	1,193	4,429	11,739	28,347		
1978	162	0	162	99	1,361	188	1,572	162	1,120	4,403	11,962	29,265		
1979	204	0	204	95	1,465	283	1,246	164	1,220	4,378	12,479	30,116		
1980	**53**	**0**	**53**	**76**	**1,001**	**171**	**881**	**223**	**554**	**2,830**	**12,986**	**31,578**		
1981	70	0	70	68	773	398	821	298	29	2,319	12,371	29,484		
1982	57	0	57	70	1,048	584	851	226	31	2,740	12,767	30,664		
1983	84	0	84	66	1,622	35	1,013	210	235	3,114	13,247	31,736		
1984	83	0	83	67	1,751	28	885	288	217	3,169	14,576	33,848		
1985	**101**	**0**	**101**	**60**	**1,465**	**50**	**1,020**	**262**	**145**	**2,942**	**15,205**	**35,657**		
1986	68	0	68	62	1,482	10	1,094	323	155	3,064	16,083	36,875		
1987	160	0	160	58	1,857	6	1,020	313	125	3,319	17,254	39,322		
1988	145	0	145	64	1,663	15	1,084	249	108	3,119	18,343	41,424		
1989	162	0	162	63	926	13	1,288	213	44	2,484	18,753	42,065		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**17.7**	**0.0**	**17.7**	**33.8**	**6.4**	**8.5**	**3.3**	**0.6**	**8.6**	**27.5**	**11.3**	**90.3**	**28.1**	**118.4**
1961	14.8	0.0	14.8	34.8	7.0	6.4	3.6	0.6	6.5	24.0	11.7	85.4	28.6	114.0
1962	13.9	0.0	13.9	40.4	6.2	5.9	3.9	0.7	4.6	21.2	12.7	88.1	30.5	118.6
1963	7.5	0.0	7.5	40.9	6.5	4.7	4.4	0.7	4.9	21.2	13.6	83.2	32.6	115.9
1964	6.0	0.0	6.0	47.7	6.0	4.4	3.9	0.7	6.0	21.0	14.3	89.0	34.0	123.0
1965	**4.5**	**0.0**	**4.5**	**41.8**	**5.1**	**4.9**	**4.3**	**0.7**	**9.5**	**24.5**	**15.3**	**86.1**	**36.4**	**122.5**
1966	4.1	0.0	4.1	67.0	5.9	4.0	5.5	0.7	7.7	23.8	15.8	110.7	38.0	148.7
1967	2.6	0.0	2.6	84.0	6.2	1.3	5.6	0.7	9.1	22.9	16.9	126.4	40.3	166.7
1968	2.0	0.0	2.0	81.4	6.6	2.9	5.7	0.8	9.2	25.2	18.5	127.1	44.2	171.3
1969	1.7	0.0	1.7	80.6	6.2	2.5	6.1	0.8	10.4	26.1	19.8	128.2	47.2	175.5
1970	**1.3**	**0.0**	**1.3**	**88.3**	**6.3**	**2.5**	**6.0**	**0.8**	**10.4**	**25.9**	**21.0**	**136.6**	**51.0**	**187.6**
1971	1.1	0.0	1.1	90.2	6.3	2.8	6.0	0.8	8.3	24.2	22.3	137.8	54.0	191.9
1972	1.3	0.0	1.3	98.7	7.4	1.5	6.3	0.8	5.9	21.9	24.0	145.9	57.7	203.5
1973	2.9	0.0	2.9	90.8	7.4	1.5	6.2	0.8	5.7	21.6	25.8	141.1	61.7	202.7
1974	3.0	0.0	3.0	91.1	6.8	1.3	6.0	0.8	5.6	20.5	24.5	139.2	59.8	199.0
1975	**2.2**	**0.0**	**2.2**	**91.5**	**6.9**	**1.0**	**6.2**	**0.8**	**4.8**	**19.8**	**26.1**	**139.5**	**62.9**	**202.4**
1976	2.5	0.0	2.5	98.9	7.4	1.5	6.1	0.8	6.2	22.1	37.8	161.3	91.0	252.2
1977	1.6	0.0	1.6	93.7	7.0	1.3	6.0	0.9	7.5	22.7	40.1	158.0	96.7	254.7
1978	3.5	0.0	3.5	99.3	7.9	1.1	5.8	0.8	7.0	22.7	40.8	166.2	99.9	266.1
1979	4.3	0.0	4.3	92.7	8.5	1.6	4.6	0.9	7.7	23.3	42.6	162.9	102.8	265.6
1980	**1.2**	**0.0**	**1.2**	**77.3**	**5.8**	**1.0**	**3.2**	**1.2**	**3.5**	**14.7**	**44.3**	**137.4**	**107.7**	**245.2**
1981	1.5	0.0	1.5	69.5	4.5	2.3	3.0	1.6	0.2	11.5	42.2	124.7	100.6	225.3
1982	1.2	0.0	1.2	71.2	6.1	3.3	3.1	1.2	0.2	13.9	43.6	129.8	104.6	234.5
1983	1.8	0.0	1.8	67.9	9.4	0.2	3.7	1.1	1.5	15.9	45.2	130.8	108.3	239.1
1984	1.8	0.0	1.8	68.4	10.2	0.2	3.2	1.5	1.4	16.4	49.7	136.3	115.5	251.8
1985	**2.3**	**0.0**	**2.3**	**61.4**	**8.5**	**0.3**	**3.7**	**1.4**	**0.9**	**14.8**	**51.9**	**130.4**	**121.7**	**252.0**
1986	1.5	0.0	1.5	62.6	8.6	0.1	4.0	1.7	1.0	15.3	54.9	134.3	125.8	260.2
1987	3.5	0.0	3.5	58.9	10.8	*	3.7	1.6	0.8	17.0	58.9	138.2	134.2	272.4
1988	3.2	0.0	3.2	64.2	9.7	0.1	4.0	1.3	0.7	15.7	62.6	145.7	141.3	287.1
1989	3.6	0.0	3.6	63.5	5.4	0.1	4.7	1.1	0.3	11.6	64.0	142.8	143.5	286.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 168. Industrial Energy Consumption Estimates, 1960–1989, Missouri

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	2,591	14	2,605	79	3,725	5,722	340	437	284	3,074	1,630	1,824	17,036	0	3,890	9,675
1961	2,286	13	2,299	84	4,046	5,571	192	475	276	2,881	1,449	1,831	16,721	0	3,995	9,736
1962	2,268	14	2,282	89	4,122	5,204	308	483	294	3,191	1,158	1,972	16,732	0	4,421	10,629
1963	2,260	15	2,275	93	4,192	5,585	162	671	294	2,978	1,321	2,627	17,830	0	4,908	11,737
1964	2,377	17	2,394	99	4,084	5,229	162	355	309	2,702	1,261	3,934	18,036	0	5,383	12,820
1965	2,518	16	2,534	114	4,401	5,097	160	423	328	3,224	1,710	4,058	19,402	0	5,872	14,020
1966	2,485	15	2,500	103	4,724	5,838	210	1,030	341	3,239	1,418	4,374	21,174	0	8,081	19,391
1967	2,340	16	2,356	88	4,746	5,810	658	931	316	3,023	1,680	4,457	21,620	0	8,512	20,335
1968	2,279	15	2,294	94	4,893	6,481	582	1,396	347	3,134	1,649	4,796	23,279	0	8,974	21,411
1969	2,129	14	2,143	101	5,479	6,288	369	1,573	408	2,938	1,829	4,933	23,817	0	9,571	22,862
1970	1,909	12	1,921	110	5,657	5,689	141	1,175	415	2,767	1,620	5,032	22,496	0	9,939	24,084
1971	1,742	11	1,753	108	5,804	5,386	173	1,151	355	2,746	1,311	4,047	20,971	0	10,174	24,598
1972	2,130	10	2,141	99	5,613	6,110	173	1,185	380	2,525	1,201	4,533	21,720	0	10,508	25,292
1973	1,864	10	1,875	118	6,784	6,153	104	1,354	477	3,518	1,494	4,680	24,564	0	10,949	26,213
1974	1,897	10	1,907	110	6,551	5,562	53	1,558	456	2,728	1,279	4,643	22,831	0	11,284	27,513
1975	2,057	8	2,065	90	5,401	5,765	75	1,712	491	2,707	1,242	4,431	21,823	0	11,782	28,421
1976	2,171	10	2,180	91	4,600	6,248	235	2,195	546	2,452	1,331	8,030	25,636	0	9,646	23,237
1977	2,150	9	2,158	89	4,977	6,345	223	2,346	670	2,316	1,538	9,275	27,689	0	10,281	24,825
1978	1,805	8	1,813	70	5,788	7,327	201	2,592	720	2,132	1,390	9,862	30,012	0	11,382	27,846
1979	1,815	8	1,823	64	5,016	7,779	134	5,160	753	1,876	1,549	11,022	33,289	0	11,622	28,048
1980	1,590	5	1,595	78	4,002	4,782	87	3,182	671	1,866	703	11,331	26,624	0	11,018	26,792
1981	1,715	0	1,715	73	3,175	5,209	72	1,768	643	1,491	615	10,373	23,346	0	13,878	33,075
1982	1,453	1	1,454	65	3,289	6,002	73	3,152	586	1,199	563	7,630	22,495	0	12,441	29,882
1983	1,524	0	1,524	59	3,419	2,941	32	2,109	614	920	277	6,415	16,727	0	12,908	30,925
1984	1,717	0	1,717	60	3,960	3,177	30	2,026	655	1,140	255	7,795	19,036	0	12,342	28,661
1985	1,798	0	1,798	66	4,295	3,993	33	1,913	610	1,075	670	7,186	19,777	0	12,625	29,606
1986	1,687	0	1,687	55	4,624	2,736	8	1,660	597	960	452	7,603	18,640	0	12,722	29,168
1987	1,506	0	1,506	54	4,351	3,149	11	1,691	674	957	558	8,327	19,719	0	12,554	28,611
1988	1,540	0	1,540	54	5,657	3,763	22	2,408	650	892	571	8,296	22,259	0	12,556	28,355
1989	1,436	0	1,436	63	4,545	3,232	36	2,532	667	776	535	8,080	20,403	0	12,792	28,693

Trillion Btu

Year	Bituminous Coal and Lignite	Anthracite	Coal Total	Natural Gas[1]	Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Petroleum Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
1960	61.8	0.4	62.2	81.7	24.7	33.3	1.9	1.8	1.7	16.1	10.2	10.8	100.7	0.0	13.3	257.8	33.0	290.8
1961	54.1	0.3	54.4	87.0	26.8	32.5	1.1	1.9	1.7	15.1	9.1	10.8	99.0	0.0	13.6	254.1	33.2	287.3
1962	53.9	0.3	54.2	91.7	27.4	30.3	1.7	1.9	1.8	16.8	7.3	11.7	98.8	0.0	15.1	259.9	36.3	296.2
1963	53.5	0.4	53.9	95.1	27.8	32.5	0.9	2.7	1.8	15.6	8.3	15.2	104.9	0.0	16.7	270.7	40.0	310.7
1964	56.4	0.4	56.8	101.4	27.1	30.5	0.9	1.4	1.9	14.2	7.9	22.2	106.1	0.0	18.4	282.6	43.7	326.3
1965	59.5	0.4	59.9	116.4	29.2	29.7	0.9	1.7	2.0	16.9	10.8	22.9	114.1	0.0	20.0	310.4	47.8	358.3
1966	58.5	0.4	58.9	104.5	31.4	34.0	1.2	4.1	2.1	17.0	8.9	24.6	123.3	0.0	27.6	314.2	66.2	380.3
1967	54.8	0.4	55.2	89.1	31.5	33.8	3.7	3.6	1.9	15.9	10.6	25.1	126.1	0.0	29.0	299.4	69.4	368.7
1968	53.4	0.3	53.7	95.7	32.5	37.8	3.3	5.3	2.1	16.5	10.4	26.9	134.7	0.0	30.6	314.7	73.1	387.8
1969	50.0	0.3	50.3	102.8	36.4	36.6	2.1	6.0	2.5	15.4	11.5	27.7	138.1	0.0	32.7	323.9	78.0	401.9
1970	43.5	0.3	43.8	110.4	37.5	33.1	0.8	4.4	2.5	14.5	10.2	28.2	131.4	0.0	33.9	319.4	82.2	401.6
1971	39.4	0.2	39.7	109.2	38.5	31.4	1.0	4.3	2.2	14.4	8.2	23.0	123.0	0.0	34.7	306.6	83.9	390.5
1972	47.7	0.2	47.9	100.3	37.2	35.6	1.0	4.5	2.3	13.3	7.6	25.8	127.2	0.0	35.9	311.3	86.3	397.6
1973	42.1	0.2	42.3	118.0	45.0	35.8	0.6	5.1	2.9	18.5	9.4	26.7	143.9	0.0	37.4	341.6	89.4	431.0
1974	42.4	0.2	42.6	110.7	43.5	32.4	0.3	5.8	2.8	14.3	8.0	26.4	133.5	0.0	38.5	325.4	93.9	419.2
1975	45.5	0.2	45.7	90.7	35.8	33.6	0.4	6.4	3.0	14.2	7.8	25.3	126.5	0.0	40.2	303.1	97.0	400.1
1976	48.7	0.2	49.0	91.4	30.5	36.4	1.3	8.1	3.3	12.9	8.4	45.6	146.5	0.0	32.9	319.8	79.3	399.1
1977	48.3	0.2	48.5	89.5	33.0	37.0	1.3	8.6	4.1	12.2	9.7	52.8	158.6	0.0	35.1	331.6	84.7	416.3
1978	40.1	0.2	40.3	70.0	38.4	42.7	1.1	9.5	4.4	11.2	8.7	56.1	172.2	0.0	38.8	321.2	95.0	416.3
1979	40.9	0.2	41.1	62.7	33.3	45.3	0.8	19.0	4.6	9.9	9.7	61.9	184.4	0.0	39.7	327.8	95.7	423.5
1980	35.9	0.1	36.0	79.3	26.6	27.9	0.5	11.7	4.1	9.8	4.4	63.1	148.0	0.0	37.6	300.9	91.4	392.4
1981	38.5	0.0	38.5	74.4	21.1	30.3	0.4	6.4	3.9	7.8	3.9	57.9	131.8	0.0	47.4	292.1	112.9	404.9
1982	32.7	*	32.7	65.7	21.8	35.0	0.4	11.4	3.6	6.3	3.5	42.0	124.0	0.0	42.4	264.9	102.0	366.9
1983	34.2	0.0	34.2	60.9	22.7	17.1	0.2	7.6	3.7	4.8	1.7	35.6	93.5	0.0	44.0	232.7	105.5	338.2
1984	38.9	0.0	38.9	60.5	26.3	18.5	0.2	7.3	4.0	6.0	1.6	42.4	106.2	0.0	42.1	247.7	97.8	345.4
1985	41.2	0.0	41.2	66.8	28.5	23.3	0.2	6.9	3.7	5.6	4.2	39.2	111.6	0.0	43.1	262.7	101.0	363.8
1986	39.0	0.0	39.0	55.1	30.7	15.9	*	6.0	3.6	5.0	2.8	41.9	106.1	0.0	43.4	243.6	99.5	343.1
1987	35.0	0.0	35.0	54.9	28.9	18.3	0.1	6.2	4.1	5.0	3.5	45.9	112.0	0.0	42.8	244.7	97.6	342.3
1988	35.6	0.0	35.6	54.6	37.5	21.9	0.1	8.8	3.9	4.7	3.6	45.9	126.5	0.0	42.8	259.5	96.7	356.3
1989	33.0	0.0	33.0	63.2	30.2	18.8	0.2	9.3	4.0	4.1	3.4	44.6	114.6	0.0	43.6	254.4	97.9	352.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 169. Transportation Energy Consumption Estimates, 1960-1989, Missouri

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours	
1960	**46**	**8**	**1,844**	**4,485**	**1,249**	**43**	**669**	**37,620**	**34**	**45,943**	**2**	**6**
1961	11	8	1,461	4,492	1,755	44	651	37,903	180	46,485	2	6
1962	9	8	2,419	5,715	2,220	59	731	38,776	223	50,142	2	5
1963	9	8	2,491	5,679	2,252	69	730	39,887	224	51,333	0	0
1964	9	8	2,603	6,235	2,672	40	767	40,554	182	53,055	0	0
1965	**8**	**9**	**2,323**	**6,685**	**3,625**	**47**	**701**	**41,658**	**154**	**55,191**	**0**	**0**
1966	8	9	918	5,435	4,702	100	728	43,489	30	55,401	0	0
1967	6	11	537	5,364	6,490	112	675	44,723	236	58,138	0	0
1968	5	9	367	7,952	7,752	111	741	47,792	245	64,962	0	0
1969	4	9	233	7,657	7,867	111	721	50,310	157	67,056	0	0
1970	**3**	**13**	**179**	**7,990**	**8,074**	**85**	**735**	**53,122**	**163**	**70,349**	**0**	**0**
1971	2	10	207	8,438	8,024	98	735	55,807	26	73,335	0	0
1972	2	10	184	9,088	8,366	85	787	58,534	53	77,097	0	0
1973	1	9	322	9,772	8,019	85	944	58,755	53	77,948	0	0
1974	1	9	299	9,153	7,642	84	904	58,616	83	76,780	0	0
1975	*****	**7**	**184**	**8,721**	**8,311**	**74**	**793**	**59,476**	**141**	**77,698**	**0**	**0**
1976	*	5	165	10,121	7,870	73	880	62,499	129	81,737	0	0
1977	*	5	177	10,799	7,963	71	932	64,117	61	84,120	0	0
1978	0	4	211	11,323	8,110	95	1,001	65,651	23	86,414	0	0
1979	0	7	189	11,492	7,480	81	1,047	61,310	142	81,742	0	0
1980	**0**	**6**	**162**	**10,824**	**6,268**	**68**	**932**	**56,877**	**142**	**75,272**	**0**	**0**
1981	0	6	209	10,527	4,741	147	894	56,792	6	73,316	0	0
1982	0	5	145	12,387	4,371	118	815	56,430	113	74,379	0	0
1983	0	4	142	11,296	5,457	140	854	57,612	23	75,523	0	0
1984	0	5	133	12,712	5,615	226	910	58,502	24	78,122	0	0
1985	**0**	**4**	**135**	**13,116**	**5,889**	**179**	**848**	**58,684**	**39**	**78,891**	**0**	**0**
1986	0	4	164	13,070	6,710	189	830	62,107	50	83,118	0	0
1987	0	2	134	13,408	7,463	142	938	62,341	0	84,426	0	0
1988	0	5	162	14,861	7,307	124	904	63,808	100	87,267	0	0
1989	0	5	200	17,278	7,277	142	928	62,696	85	88,606	0	0

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu													
1960	**1.1**	**8.2**	**9.3**	**26.1**	**7.0**	**0.2**	**4.1**	**197.6**	**0.2**	**244.5**	*****	**253.8**	*****	**253.8**
1961	0.2	7.9	7.4	26.2	9.8	0.2	3.9	199.1	1.1	247.7	*	255.9	*	255.9
1962	0.2	8.1	12.2	33.3	12.5	0.2	4.4	203.7	1.4	267.7	*	276.1	*	276.1
1963	0.2	8.0	12.6	33.1	12.6	0.3	4.4	209.5	1.4	273.9	0.0	282.2	0.0	282.2
1964	0.2	8.6	13.1	36.3	15.0	0.2	4.7	213.0	1.1	283.5	0.0	292.3	0.0	292.3
1965	**0.2**	**9.1**	**11.7**	**38.9**	**20.4**	**0.2**	**4.3**	**218.8**	**1.0**	**295.3**	**0.0**	**304.6**	**0.0**	**304.6**
1966	0.2	8.7	4.6	31.7	26.5	0.4	4.4	228.4	0.2	296.3	0.0	305.2	0.0	305.2
1967	0.1	10.7	2.7	31.2	36.7	0.4	4.1	234.9	1.5	311.6	0.0	322.4	0.0	322.4
1968	0.1	9.5	1.9	46.3	43.8	0.4	4.5	251.1	1.5	349.5	0.0	359.2	0.0	359.2
1969	0.1	9.7	1.2	44.6	44.5	0.4	4.4	264.3	1.0	360.3	0.0	370.1	0.0	370.1
1970	**0.1**	**12.8**	**0.9**	**46.5**	**45.7**	**0.3**	**4.5**	**279.0**	**1.0**	**378.0**	**0.0**	**390.9**	**0.0**	**390.9**
1971	*	10.1	1.0	49.2	45.4	0.4	4.5	293.2	0.2	393.7	0.0	403.8	0.0	403.8
1972	*	9.7	0.9	52.9	47.3	0.3	4.8	307.5	0.3	414.1	0.0	423.9	0.0	423.9
1973	*	9.1	1.6	56.9	45.4	0.3	5.7	308.6	0.3	418.9	0.0	428.1	0.0	428.1
1974	*	9.0	1.5	53.3	43.2	0.3	5.5	307.9	0.5	412.3	0.0	421.3	0.0	421.3
1975	*****	**7.6**	**0.9**	**50.8**	**47.0**	**0.3**	**4.8**	**312.4**	**0.9**	**417.2**	**0.0**	**424.7**	**0.0**	**424.7**
1976	*	5.3	0.8	59.0	44.5	0.3	5.3	328.3	0.8	439.1	0.0	444.3	0.0	444.3
1977	*	4.7	0.9	62.9	45.1	0.3	5.7	336.8	0.4	452.0	0.0	456.6	0.0	456.6
1978	0.0	4.4	1.1	66.0	45.9	0.3	6.1	344.9	0.1	464.4	0.0	468.8	0.0	468.8
1979	0.0	6.9	1.0	66.9	42.4	0.3	6.3	322.1	0.9	439.9	0.0	446.8	0.0	446.8
1980	**0.0**	**5.7**	**0.8**	**63.0**	**35.5**	**0.2**	**5.7**	**298.8**	**0.9**	**404.9**	**0.0**	**410.6**	**0.0**	**410.6**
1981	0.0	5.7	1.1	61.3	26.8	0.5	5.4	298.3	*	393.5	0.0	399.2	0.0	399.2
1982	0.0	4.6	0.7	72.2	24.7	0.4	4.9	296.4	0.7	400.1	0.0	404.7	0.0	404.7
1983	0.0	3.8	0.7	65.8	30.9	0.5	5.2	302.6	0.1	405.9	0.0	409.7	0.0	409.7
1984	0.0	5.1	0.7	74.0	31.8	0.8	5.5	307.3	0.1	420.3	0.0	425.4	0.0	425.4
1985	**0.0**	**4.3**	**0.7**	**76.4**	**33.3**	**0.6**	**5.1**	**308.3**	**0.2**	**424.7**	**0.0**	**429.0**	**0.0**	**429.0**
1986	0.0	3.6	0.8	76.1	38.0	0.7	5.0	326.2	0.3	447.2	0.0	450.8	0.0	450.8
1987	0.0	2.0	0.7	78.1	42.2	0.5	5.7	327.5	0.0	454.7	0.0	456.7	0.0	456.7
1988	0.0	4.9	0.8	86.6	41.3	0.5	5.5	335.2	0.6	470.5	0.0	475.4	0.0	475.4
1989	0.0	5.2	1.0	100.6	41.2	0.5	5.6	329.3	0.5	478.9	0.0	484.1	0.0	484.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 170. Estimates of Energy Input at Electric Utilities, 1960-1989, Missouri

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**3,674**	**0**	**3,674**	**30**	**150**	**178**	**0**	**328**	**0**	**726**	**0**	**0**	
1961	3,728	0	3,728	34	113	135	0	249	0	1,240	0	0	
1962	4,750	0	4,750	35	113	135	0	249	0	881	0	0	
1963	5,243	0	5,243	41	107	127	0	234	0	377	0	0	
1964	5,378	0	5,378	47	84	100	0	183	0	319	0	0	
1965	**5,690**	**0**	**5,690**	**48**	**77**	**92**	**0**	**168**	**0**	**802**	**0**	**0**	
1966	5,837	0	5,837	45	92	109	0	201	0	596	0	0	
1967	6,029	0	6,029	47	89	107	0	196	0	641	0	0	
1968	7,165	0	7,165	44	82	98	0	180	0	1,334	0	0	
1969	8,869	0	8,869	58	91	109	0	200	0	1,435	0	0	
1970	**10,846**	**0**	**10,846**	**63**	**133**	**159**	**0**	**291**	**0**	**927**	**0**	**0**	
1971	11,678	0	11,678	68	268	135	0	402	0	703	0	0	
1972	13,147	0	13,147	59	542	258	0	800	0	612	0	0	
1973	15,573	0	15,573	55	424	290	8	722	0	2,008	0	0	
1974	15,523	0	15,523	48	306	280	31	617	0	1,713	0	0	
1975	**17,734**	**0**	**17,734**	**26**	**375**	**710**	**15**	**1,100**	**0**	**1,280**	**0**	**0**	
1976	19,159	0	19,159	25	602	689	0	1,292	0	740	0	0	
1977	20,806	0	20,806	26	866	935	90	1,891	0	454	0	0	
1978	20,476	0	20,476	27	1,183	1,485	237	2,906	0	1,017	0	0	
1979	21,644	0	21,644	20	601	645	209	1,455	0	1,100	0	0	
1980	**23,168**	**0**	**23,168**	**15**	**29**	**538**	**101**	**668**	**0**	**558**	**0**	**0**	
1981	23,376	0	23,376	8	18	305	0	323	0	669	0	0	
1982	22,863	0	22,863	4	24	360	0	383	0	1,656	0	0	
1983	24,614	0	24,614	3	64	391	9	464	0	1,716	0	0	
1984	25,763	0	25,763	3	20	219	0	239	920	1,587	0	0	
1985	**22,779**	**0**	**22,779**	**1**	**16**	**202**	**1**	**219**	**8,030**	**2,993**	**0**	**0**	
1986	22,029	0	22,029	1	20	220	0	240	7,170	1,996	0	0	
1987	23,012	0	23,012	1	26	206	0	232	6,284	1,447	0	0	
1988	24,356	0	24,356	2	35	304	2	341	8,935	1,511	0	0	
1989	24,663	0	24,663	1	36	221	16	274	8,344	1,094	0	0	
					Trillion Btu								
1960	**80.5**	**0.0**	**80.5**	**31.3**	**0.9**	**1.0**	**0.0**	**2.0**	**0.0**	**7.8**	**0.0**	**0.0**	**121.6**
1961	81.2	0.0	81.2	35.3	0.7	0.8	0.0	1.5	0.0	13.2	0.0	0.0	131.2
1962	104.8	0.0	104.8	35.8	0.7	0.8	0.0	1.5	0.0	9.3	0.0	0.0	151.4
1963	115.0	0.0	115.0	42.3	0.7	0.7	0.0	1.4	0.0	3.9	0.0	0.0	162.6
1964	117.3	0.0	117.3	47.8	0.5	0.6	0.0	1.1	0.0	3.3	0.0	0.0	169.5
1965	**122.6**	**0.0**	**122.6**	**48.5**	**0.5**	**0.5**	**0.0**	**1.0**	**0.0**	**8.4**	**0.0**	**0.0**	**180.5**
1966	125.3	0.0	125.3	45.4	0.6	0.6	0.0	1.2	0.0	6.2	0.0	0.0	178.2
1967	129.7	0.0	129.7	47.6	0.6	0.6	0.0	1.2	0.0	6.7	0.0	0.0	185.2
1968	155.4	0.0	155.4	44.7	0.5	0.6	0.0	1.1	0.0	13.9	0.0	0.0	215.1
1969	191.5	0.0	191.5	58.8	0.6	0.6	0.0	1.2	0.0	15.0	0.0	0.0	266.4
1970	**233.4**	**0.0**	**233.4**	**63.4**	**0.8**	**0.9**	**0.0**	**1.8**	**0.0**	**9.7**	**0.0**	**0.0**	**308.3**
1971	252.8	0.0	252.8	68.3	1.7	0.8	0.0	2.5	0.0	7.4	0.0	0.0	330.8
1972	284.4	0.0	284.4	57.3	3.4	1.5	0.0	4.9	0.0	6.4	0.0	0.0	352.9
1973	336.7	0.0	336.7	53.6	2.7	1.7	*	4.4	0.0	20.9	0.0	0.0	415.6
1974	334.8	0.0	334.8	46.8	1.9	1.6	0.2	3.7	0.0	17.9	0.0	0.0	403.2
1975	**381.2**	**0.0**	**381.2**	**25.7**	**2.4**	**4.1**	**0.1**	**6.6**	**0.0**	**13.3**	**0.0**	**0.0**	**426.8**
1976	415.5	0.0	415.5	24.8	3.8	4.0	0.0	7.8	0.0	7.7	0.0	0.0	455.8
1977	453.0	0.0	453.0	25.1	5.4	5.4	0.5	11.4	0.0	4.7	0.0	0.0	494.3
1978	440.0	0.0	440.0	26.6	7.4	8.6	1.4	17.5	0.0	10.5	0.0	0.0	494.7
1979	464.8	0.0	464.8	19.9	3.8	3.8	1.3	8.8	0.0	11.4	0.0	0.0	504.8
1980	**493.6**	**0.0**	**493.6**	**15.0**	**0.2**	**3.1**	**0.6**	**3.9**	**0.0**	**5.8**	**0.0**	**0.0**	**518.3**
1981	495.2	0.0	495.2	7.6	0.1	1.8	0.0	1.9	0.0	7.0	0.0	0.0	511.6
1982	489.2	0.0	489.2	4.5	0.1	2.1	0.0	2.2	0.0	17.3	0.0	0.0	513.3
1983	527.3	0.0	527.3	2.8	0.4	2.3	0.1	2.7	0.0	18.0	0.0	0.0	550.9
1984	551.7	0.0	551.7	2.5	0.1	1.3	0.0	1.4	10.0	16.4	0.0	0.0	581.9
1985	**484.9**	**0.0**	**484.9**	**1.5**	**0.1**	**1.2**	*	**1.3**	**86.8**	**30.9**	**0.0**	**0.0**	**605.4**
1986	470.9	0.0	470.9	1.2	0.1	1.3	0.0	1.4	77.4	20.5	0.0	0.0	571.4
1987	487.7	0.0	487.7	1.4	0.2	1.2	0.0	1.4	67.7	14.8	0.0	0.0	573.0
1988	506.8	0.0	506.8	1.6	0.2	1.8	*	2.0	96.0	15.5	0.0	0.0	621.9
1989	511.4	0.0	511.4	1.3	0.2	1.3	0.1	1.6	89.5	11.3	0.0	0.0	615.1

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 171. Energy Consumption Estimates by Source, 1960–1989, Montana

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**254**	**56**	**865**	**1,006**	**4,898**	**265**	**477**	**737**	**161**	**6,922**	**2,063**	**1,635**	**19,028**	**0**	**5,800**	**0**	**0**	**-3,181**	
1961	336	59	823	1,427	5,278	280	366	859	157	6,979	2,580	2,023	20,771	0	6,498	0	0	-5,279	
1962	373	63	786	473	5,549	311	265	819	171	7,553	3,052	2,149	21,127	0	6,409	0	0	-5,281	
1963	357	67	900	499	5,393	340	359	766	171	7,481	2,852	2,508	21,269	0	6,011	0	0	-3,243	
1964	381	69	1,328	340	5,702	360	679	925	179	7,374	2,300	2,403	21,590	0	6,819	0	31	-4,126	
1965	**370**	**71**	**1,003**	**312**	**4,962**	**384**	**248**	**926**	**189**	**7,709**	**1,241**	**2,531**	**19,505**	**0**	**8,388**	**0**	**37**	**-6,938**	
1966	392	72	974	198	5,695	441	118	1,167	196	7,953	1,459	2,697	20,897	0	7,939	0	39	-3,166	
1967	381	65	1,066	131	3,394	574	859	1,585	175	8,104	1,231	2,871	19,990	0	8,704	0	56	-5,785	
1968	450	63	1,221	65	4,113	697	815	1,689	192	8,585	1,509	3,314	22,201	0	8,924	0	74	-4,126	
1969	619	78	1,189	38	4,641	806	657	1,690	196	8,737	1,556	3,558	23,069	0	9,448	0	61	-2,553	
1970	**763**	**88**	**1,347**	**43**	**4,827**	**649**	**376**	**1,326**	**200**	**9,262**	**1,268**	**3,155**	**22,452**	**0**	**8,744**	**0**	**73**	**-1,251**	
1971	731	88	1,337	42	5,715	767	362	1,402	188	9,494	1,262	3,109	23,679	0	9,593	0	61	-2,593	
1972	830	84	1,489	94	6,206	762	383	1,705	201	10,137	1,469	3,565	26,009	0	9,443	0	51	-2,370	
1973	951	90	1,397	110	6,989	757	405	1,503	219	10,883	1,765	3,779	27,809	0	7,518	0	48	-368	
1974	923	80	1,222	105	7,840	780	174	1,466	210	10,550	2,262	3,470	28,079	0	9,723	0	16	-2,577	
1975	**1,149**	**80**	**924**	**79**	**7,586**	**818**	**122**	**1,370**	**208**	**10,630**	**2,178**	**3,410**	**27,325**	**0**	**10,164**	**0**	**14**	**-6,056**	
1976	2,507	74	1,283	94	8,411	753	79	1,421	231	11,605	2,525	3,265	29,667	0	12,400	0	37	-16,027	
1977	3,385	71	1,133	92	8,258	772	93	1,368	247	11,100	2,506	3,503	29,072	0	8,458	0	46	-8,415	
1978	3,390	73	942	87	8,232	699	95	1,662	266	12,809	2,502	3,493	30,787	0	11,706	0	52	-14,798	
1979	3,686	70	1,054	122	9,037	907	17	1,094	278	11,162	5,773	3,298	32,743	0	10,342	0	52	-11,859	
1980	**3,520**	**61**	**1,020**	**159**	**7,509**	**920**	**0**	**1,806**	**247**	**10,416**	**4,025**	**3,007**	**29,110**	**0**	**9,963**	**0**	**17**	**-11,328**	
1981	3,622	52	1,035	177	6,469	800	26	1,027	237	10,797	2,494	2,721	25,783	0	11,321	0	34	-15,153	
1982	2,826	52	884	92	5,828	625	0	1,446	216	10,429	1,608	2,534	23,661	0	10,918	0	28	-11,688	
1983	2,533	46	1,130	102	8,863	652	18	1,497	227	10,525	1,306	2,422	26,741	0	11,559	0	39	-14,133	
1984	5,283	47	1,215	77	9,446	642	19	1,173	242	10,451	1,336	2,691	27,292	0	11,110	0	57	-13,445	
1985	**5,713**	**47**	**1,463**	**91**	**11,317**	**678**	**11**	**1,720**	**225**	**10,185**	**615**	**2,581**	**28,885**	**0**	**10,244**	**0**	**60**	**-13,426**	
1986	7,780	41	1,989	105	7,004	867	19	1,509	220	10,158	198	2,657	24,727	0	10,855	0	61	-24,785	
1987	7,730	39	1,642	82	6,556	718	6	1,679	249	10,234	139	3,392	24,698	0	8,951	0	49	-24,465	
1988	10,634	42	1,473	107	6,308	809	3	1,483	240	10,455	991	3,801	25,670	0	8,240	0	55	-34,914	
1989	10,458	46	1,749	95	7,679	750	2	1,683	246	10,305	1,327	3,913	27,749	0	9,565	0	72	-37,955	
									Trillion Btu										
1960	**4.0**	**57.6**	**5.7**	**5.1**	**28.5**	**1.4**	**2.7**	**3.0**	**1.0**	**36.4**	**13.0**	**9.8**	**106.6**	**0.0**	**62.4**	**0.0**	**0.0**	**-10.9**	**219.8**
1961	5.1	61.3	5.5	7.2	30.7	1.5	2.1	3.4	0.9	36.7	16.2	12.2	116.4	0.0	69.2	0.0	0.0	-18.0	234.1
1962	5.7	65.7	5.2	2.4	32.3	1.7	1.5	3.3	1.0	39.7	19.2	12.9	119.2	0.0	67.7	0.0	0.0	-18.0	240.2
1963	5.4	66.6	6.0	2.5	31.4	1.8	2.0	3.1	1.0	39.3	17.9	15.1	120.2	0.0	63.0	0.0	0.0	-11.1	244.1
1964	5.8	69.5	8.8	1.7	33.2	2.0	3.8	3.7	1.1	38.7	14.5	14.4	122.0	0.0	71.3	0.0	0.3	-14.1	254.9
1965	**5.5**	**70.8**	**6.7**	**1.6**	**28.9**	**2.1**	**1.4**	**3.7**	**1.1**	**40.5**	**7.8**	**15.2**	**109.0**	**0.0**	**87.7**	**0.0**	**0.4**	**-23.7**	**249.7**
1966	5.8	72.1	6.5	1.0	33.2	2.4	0.7	4.7	1.2	41.8	9.2	16.2	116.8	0.0	82.7	0.0	0.4	-10.8	267.0
1967	5.5	64.9	7.1	0.7	19.8	3.2	4.9	6.1	1.1	42.6	7.7	17.3	110.3	0.0	90.8	0.0	0.6	-19.7	252.3
1968	6.7	62.8	8.1	0.3	24.0	3.9	4.6	6.4	1.2	45.1	9.5	19.9	123.0	0.0	92.8	0.0	0.8	-14.1	272.0
1969	9.6	78.2	7.9	0.2	27.0	4.5	3.7	6.4	1.2	45.9	9.8	21.4	128.0	0.0	98.7	0.0	0.6	-8.7	306.5
1970	**12.0**	**90.6**	**8.9**	**0.2**	**28.1**	**3.6**	**2.1**	**5.0**	**1.2**	**48.7**	**8.0**	**19.0**	**124.8**	**0.0**	**91.8**	**0.0**	**0.8**	**-4.3**	**315.7**
1971	11.5	91.1	8.9	0.2	33.3	4.3	2.1	5.3	1.1	49.9	7.9	18.7	131.6	0.0	100.5	0.0	0.6	-8.8	326.5
1972	13.2	87.0	9.9	0.5	36.1	4.3	2.2	6.4	1.2	53.2	9.2	21.4	144.5	0.0	98.0	0.0	0.5	-8.1	335.1
1973	15.2	93.1	9.3	0.6	40.7	4.2	2.3	5.6	1.3	57.2	11.1	22.7	155.0	0.0	78.1	0.0	0.5	-1.3	340.7
1974	14.7	81.7	8.1	0.5	45.7	4.4	1.0	5.5	1.3	55.4	14.2	20.9	156.9	0.0	101.5	0.0	0.2	-8.8	346.2
1975	**18.6**	**81.2**	**6.1**	**0.4**	**44.2**	**4.6**	**0.7**	**5.1**	**1.3**	**55.8**	**13.7**	**20.5**	**152.4**	**0.0**	**105.8**	**0.0**	**0.1**	**-20.7**	**337.4**
1976	42.2	75.4	8.5	0.5	49.0	4.2	0.4	5.3	1.4	61.0	15.9	19.6	165.8	0.0	128.6	0.0	0.4	-54.7	357.7
1977	57.8	71.6	7.5	0.5	48.1	4.3	0.5	5.0	1.5	58.3	15.8	21.1	162.6	0.0	88.3	0.0	0.5	-28.7	352.0
1978	57.6	72.7	6.3	0.4	48.0	3.9	0.5	6.1	1.6	67.3	15.7	21.0	170.8	0.0	121.3	0.0	0.5	-50.5	372.4
1979	63.4	69.1	7.0	0.6	52.6	5.1	0.1	4.0	1.7	58.6	36.3	19.8	185.9	0.0	107.1	0.0	0.5	-40.5	385.6
1980	**60.2**	**61.5**	**6.8**	**0.8**	**43.7**	**5.2**	**0.0**	**6.6**	**1.5**	**54.7**	**25.3**	**18.1**	**162.7**	**0.0**	**103.5**	**0.0**	**0.2**	**-38.6**	**349.4**
1981	62.5	53.0	6.9	0.9	37.7	4.5	0.1	3.7	1.4	56.7	15.7	16.8	144.4	0.0	118.3	0.0	0.4	-51.7	327.0
1982	48.6	52.8	5.9	0.5	33.9	3.5	0.0	5.2	1.3	54.8	10.1	15.6	130.8	0.0	114.1	0.0	0.3	-39.9	306.8
1983	42.8	46.6	7.5	0.5	51.6	3.7	0.1	5.4	1.4	55.3	8.2	14.8	148.5	0.0	121.6	0.0	0.4	-48.2	311.7
1984	90.3	47.1	8.1	0.4	55.0	3.6	0.1	4.2	1.5	54.9	8.4	16.4	152.5	0.0	114.7	0.0	0.6	-45.9	359.3
1985	**99.1**	**47.3**	**9.7**	**0.5**	**65.9**	**3.8**	**0.1**	**6.2**	**1.4**	**53.5**	**3.9**	**15.9**	**160.7**	**0.0**	**105.9**	**0.0**	**0.6**	**-45.8**	**367.8**
1986	133.3	41.1	13.2	0.5	40.8	4.8	0.1	5.5	1.3	53.4	1.2	16.4	137.3	0.0	111.4	0.0	0.6	-84.6	339.2
1987	132.9	39.6	10.9	0.4	38.2	4.0	*	6.1	1.5	53.8	0.9	20.7	136.5	0.0	91.8	0.0	0.5	-83.5	317.8
1988	181.5	42.9	9.8	0.5	36.7	4.5	*	5.4	1.5	54.9	6.2	23.0	142.6	0.0	84.3	0.0	0.6	-119.1	332.8
1989	178.4	46.7	11.6	0.5	44.7	4.2	*	6.2	1.5	54.1	8.3	23.6	154.7	0.0	98.8	0.0	0.7	-129.5	349.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 172. Residential Energy Consumption Estimates, 1960–1989, Montana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**11**	**0**	**11**	**17**	**262**	**0**	**506**	**768**	**935**	**2,327**
1961	10	0	10	17	335	0	616	951	982	2,393
1962	10	0	10	17	335	0	560	895	1,041	2,504
1963	9	0	9	17	328	0	499	827	1,077	2,577
1964	9	0	9	19	312	0	655	967	1,139	2,712
1965	**8**	**0**	**8**	**20**	**277**	**0**	**636**	**914**	**1,216**	**2,904**
1966	8	0	8	20	286	0	758	1,043	1,261	3,026
1967	9	0	9	20	196	0	994	1,191	1,291	3,083
1968	7	0	7	20	250	0	1,068	1,318	1,373	3,277
1969	6	0	6	21	289	0	1,072	1,361	1,462	3,493
1970	**4**	**0**	**4**	**25**	**249**	**0**	**887**	**1,137**	**1,534**	**3,717**
1971	7	0	7	25	397	0	905	1,302	1,633	3,947
1972	4	0	4	24	436	0	1,094	1,531	1,757	4,229
1973	5	0	5	25	495	0	965	1,460	1,812	4,339
1974	4	0	4	22	542	0	1,026	1,569	1,873	4,566
1975	**4**	**0**	**4**	**24**	**589**	**0**	**973**	**1,562**	**2,143**	**5,169**
1976	3	0	3	24	646	0	993	1,640	2,261	5,446
1977	1	0	1	22	616	0	993	1,609	2,440	5,891
1978	6	0	6	23	657	0	1,276	1,933	2,754	6,738
1979	4	0	4	23	675	0	606	1,280	2,957	7,136
1980	**5**	**0**	**5**	**19**	**421**	**0**	**829**	**1,250**	**2,916**	**7,091**
1981	3	0	3	17	273	0	503	777	2,906	6,926
1982	3	0	3	20	352	0	736	1,088	3,178	7,633
1983	3	0	3	17	449	14	901	1,365	3,097	7,419
1984	2	0	2	18	459	16	480	954	3,375	7,838
1985	**3**	**0**	**3**	**19**	**345**	**10**	**670**	**1,026**	**3,614**	**8,475**
1986	8	0	8	17	351	12	666	1,029	3,214	7,368
1987	3	0	3	15	247	1	690	938	3,139	7,155
1988	3	0	3	17	235	1	689	925	3,301	7,455
1989	19	0	19	18	366	*	800	1,167	3,456	7,752

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu											
1960	**0.2**	**0.0**	**0.2**	**17.5**	**1.5**	**0.0**	**2.0**	**3.6**	**3.2**	**24.5**	**7.9**	**32.4**
1961	0.2	0.0	0.2	17.8	2.0	0.0	2.5	4.4	3.4	25.8	8.2	33.9
1962	0.2	0.0	0.2	17.8	2.0	0.0	2.2	4.2	3.6	25.7	8.5	34.3
1963	0.2	0.0	0.2	17.4	1.9	0.0	2.0	3.9	3.7	25.2	8.8	34.0
1964	0.2	0.0	0.2	18.9	1.8	0.0	2.6	4.4	3.9	27.4	9.3	36.7
1965	**0.2**	**0.0**	**0.2**	**19.9**	**1.6**	**0.0**	**2.6**	**4.2**	**4.1**	**28.4**	**9.9**	**38.3**
1966	0.2	0.0	0.2	19.7	1.7	0.0	3.0	4.7	4.3	28.9	10.3	39.2
1967	0.2	0.0	0.2	19.7	1.1	0.0	3.8	5.0	4.4	29.3	10.5	39.8
1968	0.1	0.0	0.1	19.7	1.5	0.0	4.1	5.5	4.7	30.0	11.2	41.2
1969	0.1	0.0	0.1	21.4	1.7	0.0	4.1	5.8	5.0	32.3	11.9	44.2
1970	**0.1**	**0.0**	**0.1**	**25.6**	**1.5**	**0.0**	**3.4**	**4.8**	**5.2**	**35.7**	**12.7**	**48.4**
1971	0.1	0.0	0.1	26.2	2.3	0.0	3.4	5.7	5.6	37.6	13.5	51.1
1972	0.1	0.0	0.1	24.5	2.5	0.0	4.1	6.7	6.0	37.2	14.4	51.7
1973	0.1	0.0	0.1	25.6	2.9	0.0	3.6	6.5	6.2	38.4	14.8	53.2
1974	0.1	0.0	0.1	22.0	3.2	0.0	3.8	7.0	6.4	35.5	15.6	51.1
1975	**0.1**	**0.0**	**0.1**	**24.6**	**3.4**	**0.0**	**3.6**	**7.0**	**7.3**	**39.0**	**17.6**	**56.6**
1976	0.1	0.0	0.1	23.8	3.8	0.0	3.7	7.5	7.7	39.0	18.6	57.6
1977	*	0.0	*	21.7	3.6	0.0	3.7	7.2	8.3	37.3	20.1	57.4
1978	0.1	0.0	0.1	22.9	3.8	0.0	4.7	8.5	9.4	40.9	23.0	63.9
1979	0.1	0.0	0.1	22.3	3.9	0.0	2.2	6.2	10.1	38.6	24.3	63.0
1980	**0.1**	**0.0**	**0.1**	**19.5**	**2.5**	**0.0**	**3.0**	**5.5**	**9.9**	**35.0**	**24.2**	**59.2**
1981	*	0.0	*	17.4	1.6	0.0	1.8	3.4	9.9	30.8	23.6	54.4
1982	0.1	0.0	0.1	20.2	2.1	0.0	2.7	4.7	10.8	35.8	26.0	61.8
1983	0.1	0.0	0.1	17.1	2.6	0.1	3.3	6.0	10.6	33.7	25.3	59.0
1984	*	0.0	*	18.5	2.7	0.1	1.7	4.5	11.5	34.6	26.7	61.3
1985	*	**0.0**	*	**19.4**	**2.0**	**0.1**	**2.4**	**4.5**	**12.3**	**36.2**	**28.9**	**65.1**
1986	0.1	0.0	0.1	16.8	2.0	0.1	2.4	4.5	11.0	32.4	25.1	57.6
1987	*	0.0	*	15.6	1.4	*	2.5	4.0	10.7	30.4	24.4	54.8
1988	0.1	0.0	0.1	17.3	1.4	*	2.5	3.9	11.3	32.5	25.4	57.9
1989	0.4	0.0	0.4	18.5	2.1	*	2.9	5.1	11.8	35.8	26.4	62.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 173. Commercial Energy Consumption Estimates, 1960-1989, Montana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**20**	**0**	**20**	**12**	**297**	**466**	**89**	**135**	**2**	**989**	**688**	1,711		
1961	18	0	18	12	380	306	109	146	3	944	740	1,804		
1962	19	0	19	12	380	262	99	121	4	866	789	1,896		
1963	18	0	18	13	372	356	88	141	4	960	833	1,991		
1964	17	0	17	13	354	656	116	127	3	1,255	858	2,044		
1965	**15**	**0**	**15**	**14**	**315**	**227**	**112**	**144**	**1**	**800**	**925**	**2,208**		
1966	15	0	15	14	324	79	134	123	1	662	986	2,366		
1967	16	0	16	16	223	157	175	135	1	691	1,039	2,483		
1968	12	0	12	14	284	111	188	133	1	717	1,078	2,572		
1969	11	0	11	17	329	133	189	107	1	759	1,111	2,653		
1970	**8**	**0**	**8**	**19**	**283**	**94**	**157**	**220**	**1**	**755**	**1,187**	**2,877**		
1971	12	0	12	18	451	78	160	127	1	817	1,258	3,042		
1972	8	0	8	19	496	77	193	168	1	935	1,322	3,182		
1973	9	0	9	19	562	84	170	136	1	953	1,371	3,282		
1974	8	0	8	17	616	64	181	125	2	988	1,370	3,340		
1975	**7**	**0**	**7**	**19**	**668**	**54**	**172**	**174**	**2**	**1,071**	**1,645**	**3,968**		
1976	6	0	6	18	734	41	175	163	3	1,116	1,728	4,163		
1977	2	0	2	17	699	51	175	157	3	1,086	1,814	4,381		
1978	10	0	10	18	746	47	225	167	4	1,188	1,926	4,712		
1979	7	0	7	17	766	17	107	179	11	1,080	2,061	4,974		
1980	**9**	**0**	**9**	**14**	**346**	**0**	**146**	**92**	**7**	**591**	**2,094**	**5,092**		
1981	5	0	5	14	380	0	89	110	0	579	2,202	5,247		
1982	6	0	6	16	183	0	130	127	5	445	2,339	5,618		
1983	5	0	5	14	1,104	*	159	76	172	1,511	2,499	5,988		
1984	4	0	4	14	1,128	*	85	61	176	1,450	4,874	11,317		
1985	**5**	**0**	**5**	**15**	**863**	*	**118**	**72**	**581**	**1,634**	**4,245**	**9,955**		
1986	14	0	14	13	403	6	118	76	157	759	4,456	10,216		
1987	5	0	5	11	305	*	122	79	78	584	2,979	6,790		
1988	6	0	6	12	199	*	122	76	39	436	3,202	7,231		
1989	34	0	34	13	204	*	141	77	94	516	3,070	6,887		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**0.4**	**0.0**	**0.4**	**12.3**	**1.7**	**2.6**	**0.4**	**0.7**	*	**5.5**	**2.3**	**20.5**	**5.8**	**26.4**
1961	0.4	0.0	0.4	12.6	2.2	1.7	0.4	0.8	*	5.2	2.5	20.7	6.2	26.9
1962	0.4	0.0	0.4	12.8	2.2	1.5	0.4	0.6	*	4.8	2.7	20.7	6.5	27.1
1963	0.4	0.0	0.4	12.6	2.2	2.0	0.4	0.7	*	5.3	2.8	21.2	6.8	27.9
1964	0.4	0.0	0.4	13.1	2.1	3.7	0.5	0.7	*	6.9	2.9	23.4	7.0	30.3
1965	**0.3**	**0.0**	**0.3**	**14.1**	**1.8**	**1.3**	**0.5**	**0.8**	*	**4.3**	**3.2**	**21.9**	**7.5**	**29.5**
1966	0.3	0.0	0.3	14.1	1.9	0.5	0.5	0.6	*	3.5	3.4	21.3	8.1	29.4
1967	0.3	0.0	0.3	15.5	1.3	0.9	0.7	0.7	*	3.6	3.5	22.9	8.5	31.4
1968	0.3	0.0	0.3	13.6	1.7	0.6	0.7	0.7	*	3.7	3.7	21.3	8.8	30.1
1969	0.2	0.0	0.2	16.6	1.9	0.8	0.7	0.6	*	4.0	3.8	24.6	9.1	33.6
1970	**0.2**	**0.0**	**0.2**	**19.2**	**1.6**	**0.5**	**0.6**	**1.2**	*	**3.9**	**4.1**	**27.3**	**9.8**	**37.1**
1971	0.3	0.0	0.3	18.7	2.6	0.4	0.6	0.7	*	4.3	4.3	27.6	10.4	38.0
1972	0.2	0.0	0.2	19.7	2.9	0.4	0.7	0.9	*	4.9	4.5	29.3	10.9	40.2
1973	0.2	0.0	0.2	19.7	3.3	0.5	0.6	0.7	*	5.1	4.7	29.7	11.2	40.9
1974	0.2	0.0	0.2	16.9	3.6	0.4	0.7	0.7	*	5.3	4.7	27.1	11.4	38.5
1975	**0.1**	**0.0**	**0.1**	**19.0**	**3.9**	**0.3**	**0.6**	**0.9**	*	**5.8**	**5.6**	**30.5**	**13.5**	**44.1**
1976	0.1	0.0	0.1	18.1	4.3	0.2	0.7	0.9	*	6.0	5.9	30.1	14.2	44.3
1977	*	0.0	*	16.8	4.1	0.3	0.6	0.8	*	5.9	6.2	28.9	14.9	43.8
1978	0.2	0.0	0.2	17.7	4.3	0.3	0.8	0.9	*	6.3	6.6	30.8	16.1	46.9
1979	0.1	0.0	0.1	17.2	4.5	0.1	0.4	0.9	0.1	6.0	7.0	30.3	17.0	47.3
1980	**0.2**	**0.0**	**0.2**	**14.4**	**2.0**	**0.0**	**0.5**	**0.5**	*	**3.1**	**7.1**	**24.8**	**17.4**	**42.2**
1981	0.1	0.0	0.1	13.8	2.2	0.0	0.3	0.6	0.0	3.1	7.5	24.6	17.9	42.5
1982	0.1	0.0	0.1	16.1	1.1	0.0	0.5	0.7	*	2.2	8.0	26.5	19.2	45.6
1983	0.1	0.0	0.1	13.6	6.4	*	0.6	0.4	1.1	8.5	8.5	30.7	20.4	51.2
1984	0.1	0.0	0.1	14.3	6.6	*	0.3	0.3	1.1	8.3	16.6	39.3	38.6	77.9
1985	**0.1**	**0.0**	**0.1**	**14.8**	**5.0**	*	**0.4**	**0.4**	**3.7**	**9.5**	**14.5**	**38.9**	**34.0**	**72.8**
1986	0.3	0.0	0.3	12.5	2.3	*	0.4	0.4	1.0	4.2	15.2	32.2	34.9	67.0
1987	0.1	0.0	0.1	11.2	1.8	*	0.4	0.4	0.5	3.1	10.2	24.6	23.2	47.7
1988	0.1	0.0	0.1	12.3	1.2	*	0.4	0.4	0.2	2.3	10.9	25.6	24.7	50.3
1989	0.7	0.0	0.7	13.4	1.2	*	0.5	0.4	0.6	2.7	10.5	27.2	23.5	50.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 174. Industrial Energy Consumption Estimates, 1960–1989, Montana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours			
1960	**36**	**0**	**36**	**26**	**865**	**1,500**	**11**	**112**	**23**	**816**	**1,684**	**1,635**	**6,647**	**0**	**2,951**	**7,341**		
1961	45	0	45	28	823	1,841	60	104	23	923	1,960	2,023	7,757	0	2,973	7,247		
1962	49	0	49	29	786	2,159	3	125	30	685	2,575	2,149	8,513	0	3,114	7,486		
1963	44	0	44	32	900	2,174	3	145	30	796	2,438	2,508	8,993	0	3,191	7,631		
1964	62	0	62	34	1,328	2,331	23	128	31	746	1,986	2,403	8,977	0	3,544	8,440		
1965	**52**	**0**	**52**	**34**	**1,003**	**1,693**	**21**	**164**	**41**	**887**	**914**	**2,531**	**7,255**	**0**	**3,939**	**9,406**		
1966	45	0	45	35	974	2,123	38	254	43	681	980	2,697	7,791	0	4,657	11,174		
1967	31	0	31	28	1,066	1,033	703	356	40	791	882	2,871	7,741	0	4,282	10,230		
1968	32	0	32	28	1,221	1,222	704	359	44	745	1,242	3,314	8,851	0	4,982	11,887		
1969	25	0	25	38	1,189	1,373	524	361	45	476	1,212	3,558	8,738	0	6,208	14,830		
1970	**28**	**0**	**28**	**41**	**1,347**	**1,274**	**282**	**246**	**46**	**635**	**1,123**	**3,155**	**8,107**	**0**	**6,029**	**14,610**		
1971	40	0	40	43	1,337	1,750	284	282	43	570	1,174	3,109	8,549	0	5,999	14,504		
1972	49	0	49	39	1,489	1,863	306	339	46	702	1,390	3,565	9,699	0	5,858	14,101		
1973	44	0	44	42	1,397	2,073	321	302	60	568	1,577	3,779	10,078	0	5,034	12,051		
1974	56	0	56	39	1,222	2,413	110	206	58	503	2,126	3,470	10,108	0	5,929	14,456		
1975	**50**	**0**	**50**	**34**	**924**	**2,494**	**68**	**174**	**46**	**774**	**1,963**	**3,410**	**9,853**	**0**	**5,160**	**12,447**		
1976	124	0	124	31	1,283	2,926	39	202	51	774	2,303	3,265	10,843	0	5,922	14,264		
1977	186	0	186	30	1,133	2,890	43	162	51	703	2,176	3,503	10,660	0	5,759	13,907		
1978	190	0	190	29	942	2,375	48	115	55	578	2,270	3,493	9,876	0	6,106	14,938		
1979	213	0	213	25	1,054	2,787	0	364	57	663	5,609	3,298	13,833	0	6,111	14,748		
1980	**154**	**0**	**154**	**20**	**1,020**	**1,925**	**0**	**786**	**51**	**619**	**4,018**	**3,007**	**11,426**	**0**	**5,815**	**14,140**		
1981	276	0	276	17	1,035	1,943	26	382	49	663	2,494	2,721	9,314	0	5,848	13,938		
1982	222	0	222	14	884	1,396	0	551	45	632	1,603	2,534	7,644	0	4,759	11,431		
1983	169	0	169	14	1,130	3,173	3	383	47	509	1,132	2,422	8,798	0	4,217	10,103		
1984	164	0	164	12	1,215	3,241	3	548	50	558	1,158	2,691	9,464	0	5,631	13,076		
1985	**225**	**0**	**225**	**10**	**1,463**	**5,798**	*****	**885**	**46**	**677**	**33**	**2,581**	**11,483**	**0**	**5,841**	**13,696**		
1986	320	0	320	9	1,989	2,124	1	682	45	637	42	2,657	8,178	0	6,150	14,101		
1987	192	0	192	10	1,642	1,802	5	835	51	573	61	3,392	8,361	0	6,304	14,367		
1988	215	0	215	10	1,473	1,619	2	632	50	576	951	3,801	9,105	0	6,438	14,539		
1989	197	0	197	12	1,749	2,783	1	699	51	631	1,233	3,913	11,059	0	6,535	14,659		
																	Net Energy[4]	Total[4]
					Trillion Btu													
1960	**0.8**	**0.0**	**0.8**	**27.0**	**5.7**	**8.7**	**0.1**	**0.5**	**0.1**	**4.3**	**10.6**	**9.8**	**39.8**	**0.0**	**10.1**	**77.7**	**25.0**	**102.7**
1961	1.0	0.0	1.0	29.2	5.5	10.7	0.3	0.4	0.1	4.8	12.3	12.2	46.4	0.0	10.1	86.8	24.7	111.5
1962	1.1	0.0	1.1	29.9	5.2	12.6	*	0.5	0.2	3.6	16.2	12.9	51.2	0.0	10.6	92.9	25.5	118.4
1963	1.0	0.0	1.0	32.0	6.0	12.7	*	0.6	0.2	4.2	15.3	15.1	54.0	0.0	10.9	97.9	26.0	124.0
1964	1.4	0.0	1.4	33.7	8.8	13.6	0.1	0.5	0.2	3.9	12.5	14.4	54.1	0.0	12.1	101.3	28.8	130.1
1965	**1.2**	**0.0**	**1.2**	**34.3**	**6.7**	**9.9**	**0.1**	**0.7**	**0.3**	**4.7**	**5.7**	**15.2**	**43.2**	**0.0**	**13.4**	**92.1**	**32.1**	**124.2**
1966	1.0	0.0	1.0	34.9	6.5	12.4	0.2	1.0	0.3	3.6	6.2	16.2	46.3	0.0	15.9	98.1	38.1	136.3
1967	0.7	0.0	0.7	28.4	7.1	6.0	4.0	1.4	0.2	4.2	5.5	17.3	45.6	0.0	14.6	89.4	34.9	124.3
1968	0.7	0.0	0.7	28.3	8.1	7.1	4.0	1.4	0.3	3.9	7.8	19.9	52.5	0.0	17.0	98.5	40.6	139.1
1969	0.6	0.0	0.6	38.1	7.9	8.0	3.0	1.4	0.3	2.5	7.6	21.4	52.0	0.0	21.2	111.8	50.6	162.4
1970	**0.6**	**0.0**	**0.6**	**42.5**	**8.9**	**7.4**	**1.6**	**0.9**	**0.3**	**3.3**	**7.1**	**19.0**	**48.5**	**0.0**	**20.6**	**112.2**	**49.8**	**162.1**
1971	0.8	0.0	0.8	44.3	8.9	10.2	1.6	1.1	0.3	3.0	7.4	18.7	51.1	0.0	20.5	116.7	49.5	166.2
1972	1.0	0.0	1.0	40.3	9.9	10.9	1.7	1.3	0.3	3.7	8.7	21.4	57.9	0.0	20.0	119.2	48.1	167.3
1973	0.9	0.0	0.9	43.4	9.3	12.1	1.8	1.1	0.4	3.0	9.9	22.7	60.3	0.0	17.2	121.8	41.1	162.9
1974	1.2	0.0	1.2	39.7	8.1	14.1	0.6	0.8	0.4	2.6	13.4	20.9	60.8	0.0	20.2	121.8	49.3	171.2
1975	**1.0**	**0.0**	**1.0**	**34.6**	**6.1**	**14.5**	**0.4**	**0.6**	**0.3**	**4.1**	**12.3**	**20.5**	**58.9**	**0.0**	**17.6**	**112.1**	**42.5**	**154.6**
1976	2.4	0.0	2.4	31.2	8.5	17.0	0.2	0.7	0.3	4.1	14.5	19.6	65.0	0.0	20.2	118.9	48.7	167.5
1977	3.5	0.0	3.5	30.4	7.5	16.8	0.2	0.6	0.3	3.7	13.7	21.1	63.9	0.0	19.7	117.5	47.4	164.9
1978	3.5	0.0	3.5	29.4	6.3	13.8	0.3	0.4	0.3	3.0	14.3	21.0	59.4	0.0	20.8	113.1	51.0	164.1
1979	4.2	0.0	4.2	24.9	7.0	16.2	0.0	1.3	0.3	3.5	35.3	19.8	83.5	0.0	20.9	133.4	50.3	183.7
1980	**2.9**	**0.0**	**2.9**	**20.3**	**6.8**	**11.2**	**0.0**	**2.9**	**0.3**	**3.3**	**25.3**	**18.1**	**67.8**	**0.0**	**19.8**	**110.9**	**48.2**	**159.1**
1981	5.4	0.0	5.4	17.5	6.9	11.3	0.1	1.4	0.3	3.5	15.7	16.8	56.0	0.0	20.0	98.7	47.6	146.3
1982	4.3	0.0	4.3	13.7	5.9	8.1	0.0	2.0	0.3	3.3	10.1	15.6	45.3	0.0	16.2	79.6	39.0	118.6
1983	3.3	0.0	3.3	13.9	7.5	18.5	*	1.4	0.3	2.7	7.1	14.8	52.3	0.0	14.4	83.8	34.5	118.3
1984	3.1	0.0	3.1	12.0	8.1	18.9	*	2.0	0.3	2.9	7.3	16.4	55.8	0.0	19.2	90.1	44.6	134.7
1985	**4.1**	**0.0**	**4.1**	**10.3**	**9.7**	**33.8**	*****	**3.2**	**0.3**	**3.6**	**0.2**	**15.9**	**66.6**	**0.0**	**19.9**	**100.9**	**46.7**	**147.6**
1986	5.7	0.0	5.7	9.3	13.2	12.4	*	2.5	0.3	3.3	0.3	16.4	48.4	0.0	21.0	84.3	48.1	132.4
1987	3.4	0.0	3.4	10.1	10.9	10.5	*	3.1	0.3	3.0	0.4	20.7	48.8	0.0	21.5	83.9	49.0	132.9
1988	3.9	0.0	3.9	10.6	9.8	9.4	*	2.3	0.3	3.0	6.0	23.0	53.8	0.0	22.0	90.3	49.6	139.9
1989	3.6	0.0	3.6	11.9	11.6	16.2	*	2.6	0.3	3.3	7.8	23.6	65.3	0.0	22.3	103.2	50.0	153.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 175. Transportation Energy Consumption Estimates, 1960-1989, Montana

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Total	Electricity	Electrical System Energy Losses[3]		Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**1**	*	**1,006**	**2,839**	**265**	**29**	**137**	**5,972**	**377**	**10,624**	**0**	**0**		
1961	*	1	1,427	2,721	280	31	134	5,910	617	11,119	0	0		
1962	*	1	473	2,675	311	35	141	6,747	471	10,852	0	0		
1963	*	1	499	2,520	340	34	141	6,544	410	10,488	0	0		
1964	*	1	340	2,705	360	26	148	6,501	307	10,387	0	0		
1965	*	*	**312**	**2,676**	**384**	**13**	**148**	**6,678**	**325**	**10,536**	**0**	**0**		
1966	*	*	198	2,961	441	21	153	7,148	396	11,319	0	0		
1967	*	1	131	1,941	574	60	135	7,178	342	10,360	0	0		
1968	*	1	65	2,356	697	73	148	7,708	243	11,292	0	0		
1969	*	1	38	2,649	806	68	151	8,155	238	12,106	0	0		
1970	*	**1**	**43**	**3,020**	**649**	**36**	**154**	**8,407**	**119**	**12,428**	**0**	**0**		
1971	*	1	42	3,116	767	56	145	8,797	87	13,010	0	0		
1972	*	1	94	3,408	762	78	155	9,267	63	13,827	0	0		
1973	*	2	110	3,834	757	65	159	10,179	44	15,149	0	0		
1974	*	2	105	4,266	780	53	152	9,922	122	15,400	0	0		
1975	*	**2**	**79**	**3,835**	**818**	**50**	**162**	**9,682**	**160**	**14,786**	**0**	**0**		
1976	*	1	94	4,101	753	50	180	10,668	141	15,987	0	0		
1977	*	1	92	4,049	772	37	196	10,240	136	15,522	0	0		
1978	0	2	87	4,451	699	46	211	12,064	134	17,692	0	0		
1979	0	2	122	4,791	907	18	220	10,320	24	16,403	0	0		
1980	**0**	**3**	**159**	**4,759**	**920**	**45**	**196**	**9,705**	**0**	**15,786**	**0**	**0**		
1981	0	2	177	3,834	800	52	188	10,024	0	15,075	0	0		
1982	0	2	92	3,866	625	29	172	9,671	0	14,454	0	0		
1983	0	2	102	4,106	652	54	180	9,940	3	15,036	0	0		
1984	0	2	77	4,540	642	61	192	9,831	3	15,346	0	0		
1985	**0**	**2**	**91**	**4,273**	**678**	**46**	**179**	**9,437**	*	**14,704**	**0**	**0**		
1986	0	2	105	4,101	867	44	175	9,445	0	14,736	0	0		
1987	0	2	82	4,157	718	33	197	9,582	0	14,770	0	0		
1988	0	2	107	4,192	809	40	190	9,802	0	15,141	0	0		
1989	0	2	95	4,266	750	43	195	9,598	0	14,947	0	0		
							Trillion Btu					Net Energy[4]		
1960	*	**0.5**	**5.1**	**16.5**	**1.4**	**0.1**	**0.8**	**31.4**	**2.4**	**57.7**	**0.0**	**58.2**	**0.0**	**58.2**
1961	*	1.4	7.2	15.9	1.5	0.1	0.8	31.0	3.9	60.4	0.0	61.8	0.0	61.8
1962	*	1.3	2.4	15.6	1.7	0.1	0.9	35.4	3.0	59.0	0.0	60.4	0.0	60.4
1963	*	1.2	2.5	14.7	1.8	0.1	0.9	34.4	2.6	57.0	0.0	58.2	0.0	58.2
1964	*	1.3	1.7	15.8	2.0	0.1	0.9	34.1	1.9	56.5	0.0	57.8	0.0	57.8
1965	*	**0.4**	**1.6**	**15.6**	**2.1**	**0.1**	**0.9**	**35.1**	**2.0**	**57.3**	**0.0**	**57.8**	**0.0**	**57.8**
1966	*	0.4	1.0	17.2	2.4	0.1	0.9	37.6	2.5	61.7	0.0	62.1	0.0	62.1
1967	*	0.8	0.7	11.3	3.2	0.2	0.8	37.7	2.1	56.0	0.0	56.8	0.0	56.8
1968	*	0.6	0.3	13.7	3.9	0.3	0.9	40.5	1.5	61.1	0.0	61.7	0.0	61.7
1969	*	0.6	0.2	15.4	4.5	0.3	0.9	42.8	1.5	65.6	0.0	66.2	0.0	66.2
1970	*	**0.7**	**0.2**	**17.6**	**3.6**	**0.1**	**0.9**	**44.2**	**0.7**	**67.4**	**0.0**	**68.1**	**0.0**	**68.1**
1971	*	0.8	0.2	18.2	4.3	0.2	0.9	46.2	0.5	70.5	0.0	71.3	0.0	71.3
1972	*	1.1	0.5	19.9	4.3	0.3	0.9	48.7	0.4	74.9	0.0	76.0	0.0	76.0
1973	*	1.7	0.6	22.3	4.2	0.2	1.0	53.5	0.3	82.1	0.0	83.8	0.0	83.8
1974	*	1.8	0.5	24.8	4.4	0.2	0.9	52.1	0.8	83.7	0.0	85.5	0.0	85.5
1975	*	**1.8**	**0.4**	**22.3**	**4.6**	**0.2**	**1.0**	**50.9**	**1.0**	**80.4**	**0.0**	**82.1**	**0.0**	**82.1**
1976	*	1.5	0.5	23.9	4.2	0.2	1.1	56.0	0.9	86.8	0.0	88.3	0.0	88.3
1977	*	1.5	0.5	23.6	4.3	0.1	1.2	53.8	0.9	84.3	0.0	85.8	0.0	85.8
1978	0.0	1.5	0.4	25.9	3.9	0.2	1.3	63.4	0.8	95.9	0.0	97.5	0.0	97.5
1979	0.0	2.3	0.6	27.9	5.1	0.1	1.3	54.2	0.1	89.4	0.0	91.7	0.0	91.7
1980	**0.0**	**2.9**	**0.8**	**27.7**	**5.2**	**0.2**	**1.2**	**51.0**	**0.0**	**86.0**	**0.0**	**88.9**	**0.0**	**88.9**
1981	0.0	2.1	0.9	22.3	4.5	0.2	1.1	52.7	0.0	81.7	0.0	83.8	0.0	83.8
1982	0.0	2.3	0.5	22.5	3.5	0.1	1.0	50.8	0.0	78.4	0.0	80.8	0.0	80.8
1983	0.0	1.7	0.5	23.9	3.7	0.2	1.1	52.2	*	81.6	0.0	83.3	0.0	83.3
1984	0.0	1.9	0.4	26.4	3.6	0.2	1.2	51.6	*	83.5	0.0	85.4	0.0	85.4
1985	**0.0**	**2.2**	**0.5**	**24.9**	**3.8**	**0.2**	**1.1**	**49.6**	*	**80.0**	**0.0**	**82.2**	**0.0**	**82.2**
1986	0.0	2.1	0.5	23.9	4.8	0.2	1.1	49.6	0.0	80.1	0.0	82.2	0.0	82.2
1987	0.0	2.0	0.4	24.2	4.0	0.1	1.2	50.3	0.0	80.3	0.0	82.4	0.0	82.4
1988	0.0	2.3	0.5	24.4	4.5	0.1	1.2	51.5	0.0	82.3	0.0	84.6	0.0	84.6
1989	0.0	2.5	0.5	24.8	4.2	0.2	1.2	50.4	0.0	81.3	0.0	83.7	0.0	83.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 176. Estimates of Energy Input at Electric Utilities, 1960-1989, Montana

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**187**	**0**	**187**	*	*	*	**0**	*	**0**	**5,800**	**0**	**0**	
1961	262	0	262	*	*	0	0	*	0	6,498	0	0	
1962	295	0	295	4	1	*	0	1	0	6,409	0	0	
1963	285	0	285	3	1	*	0	1	0	6,011	0	0	
1964	294	0	294	2	4	*	0	4	0	6,819	0	31	
1965	**296**	**0**	**296**	**2**	**1**	*	**0**	**1**	**0**	**8,388**	**0**	**37**	
1966	323	0	323	3	81	1	0	82	0	7,939	0	39	
1967	326	0	326	1	6	*	0	6	0	8,704	0	56	
1968	399	0	399	1	23	*	0	23	0	8,924	0	74	
1969	577	0	577	2	104	1	0	105	0	9,448	0	61	
1970	**723**	**0**	**723**	**3**	**26**	*	**0**	**26**	**0**	**8,744**	**0**	**73**	
1971	672	0	672	1	*	*	0	*	0	9,593	0	61	
1972	769	0	769	1	15	3	0	17	0	9,443	0	51	
1973	893	0	893	2	143	26	0	169	0	7,518	0	48	
1974	854	0	854	1	12	2	0	14	0	9,723	0	16	
1975	**1,089**	**0**	**1,089**	**1**	**53**	**1**	**0**	**54**	**0**	**10,164**	**0**	**14**	
1976	2,374	0	2,374	1	78	4	0	81	0	12,400	0	37	
1977	3,197	0	3,197	1	191	5	0	195	0	8,458	0	46	
1978	3,184	0	3,184	1	94	4	0	98	0	11,706	0	52	
1979	3,461	0	3,461	2	129	17	0	147	0	10,342	0	52	
1980	**3,352**	**0**	**3,352**	**4**	**0**	**59**	**0**	**59**	**0**	**9,963**	**0**	**17**	
1981	3,338	0	3,338	2	0	39	0	39	0	11,321	0	34	
1982	2,596	0	2,596	*	0	31	0	31	0	10,918	0	28	
1983	2,356	0	2,356	*	0	31	0	31	0	11,559	0	39	
1984	5,113	0	5,113	*	0	78	0	78	0	11,110	0	57	
1985	**5,480**	**0**	**5,480**	*	**0**	**38**	**0**	**38**	**0**	**10,244**	**0**	**60**	
1986	7,438	0	7,438	*	0	25	0	25	0	10,855	0	61	
1987	7,530	0	7,530	*	0	44	0	44	0	8,951	0	49	
1988	10,410	0	10,410	*	0	63	0	63	0	8,240	0	55	
1989	10,208	0	10,208	*	0	60	0	60	0	9,565	0	72	
	Trillion Btu												
1960	**2.5**	**0.0**	**2.5**	**0.4**	*	*	**0.0**	*	**0.0**	**62.4**	**0.0**	**0.0**	**65.3**
1961	3.5	0.0	3.5	0.4	*	0.0	0.0	*	0.0	69.2	0.0	0.0	73.1
1962	3.9	0.0	3.9	3.8	*	*	0.0	*	0.0	67.7	0.0	0.0	75.4
1963	3.8	0.0	3.8	3.3	*	*	0.0	*	0.0	63.0	0.0	0.0	70.1
1964	3.9	0.0	3.9	2.5	*	*	0.0	*	0.0	71.3	0.0	0.3	78.0
1965	**3.9**	**0.0**	**3.9**	**2.0**	*	*	**0.0**	*	**0.0**	**87.7**	**0.0**	**0.4**	**94.0**
1966	4.3	0.0	4.3	3.0	0.5	*	0.0	0.5	0.0	82.7	0.0	0.4	90.9
1967	4.3	0.0	4.3	0.5	*	*	0.0	*	0.0	90.8	0.0	0.6	96.2
1968	5.6	0.0	5.6	0.6	0.1	*	0.0	0.1	0.0	92.8	0.0	0.8	100.0
1969	8.7	0.0	8.7	1.5	0.7	*	0.0	0.7	0.0	98.7	0.0	0.6	110.2
1970	**11.2**	**0.0**	**11.2**	**2.6**	**0.2**	*	**0.0**	**0.2**	**0.0**	**91.8**	**0.0**	**0.8**	**106.5**
1971	10.3	0.0	10.3	1.1	*	*	0.0	*	0.0	100.5	0.0	0.6	112.5
1972	11.9	0.0	11.9	1.4	0.1	*	0.0	0.1	0.0	98.0	0.0	0.5	112.0
1973	14.0	0.0	14.0	2.7	0.9	0.2	0.0	1.1	0.0	78.1	0.0	0.5	96.4
1974	13.3	0.0	13.3	1.3	0.1	*	0.0	0.1	0.0	101.5	0.0	0.2	116.4
1975	**17.4**	**0.0**	**17.4**	**1.2**	**0.3**	*	**0.0**	**0.3**	**0.0**	**105.8**	**0.0**	**0.1**	**124.8**
1976	39.6	0.0	39.6	0.8	0.5	*	0.0	0.5	0.0	128.6	0.0	0.4	170.0
1977	54.3	0.0	54.3	1.1	1.2	*	0.0	1.2	0.0	88.3	0.0	0.5	145.4
1978	53.8	0.0	53.8	1.0	0.6	*	0.0	0.6	0.0	121.3	0.0	0.5	177.3
1979	59.0	0.0	59.0	2.5	0.8	0.1	0.0	0.9	0.0	107.1	0.0	0.5	170.1
1980	**57.0**	**0.0**	**57.0**	**4.4**	**0.0**	**0.3**	**0.0**	**0.3**	**0.0**	**103.5**	**0.0**	**0.2**	**165.4**
1981	57.0	0.0	57.0	2.2	0.0	0.2	0.0	0.2	0.0	118.3	0.0	0.4	178.2
1982	44.2	0.0	44.2	0.4	0.0	0.2	0.0	0.2	0.0	114.1	0.0	0.3	159.2
1983	39.3	0.0	39.3	0.4	0.0	0.2	0.0	0.2	0.0	121.6	0.0	0.4	161.9
1984	87.0	0.0	87.0	0.4	0.0	0.5	0.0	0.5	0.0	114.7	0.0	0.6	203.2
1985	**94.8**	**0.0**	**94.8**	**0.6**	**0.0**	**0.2**	**0.0**	**0.2**	**0.0**	**105.9**	**0.0**	**0.6**	**202.2**
1986	127.2	0.0	127.2	0.5	0.0	0.1	0.0	0.1	0.0	111.4	0.0	0.6	239.8
1987	129.4	0.0	129.4	0.6	0.0	0.3	0.0	0.3	0.0	91.8	0.0	0.5	222.5
1988	177.4	0.0	177.4	0.3	0.0	0.4	0.0	0.4	0.0	84.3	0.0	0.6	263.0
1989	173.7	0.0	173.7	0.4	0.0	0.4	0.0	0.4	0.0	98.8	0.0	0.7	274.0

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 177. Energy Consumption Estimates by Source, 1960-1989, Nebraska

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**889**	**136**	**780**	**371**	**4,151**	**1,202**	**677**	**2,650**	**424**	**14,998**	**415**	**52**	**25,722**	**0**	**959**	**0**	**48**	**-536**	
1961	808	140	702	416	4,462	1,309	622	2,730	413	14,965	496	51	26,166	0	928	0	49	327	
1962	1,012	144	705	423	4,080	1,463	610	2,953	382	15,486	666	52	26,818	0	975	0	37	194	
1963	1,073	147	843	428	4,351	1,491	457	3,672	382	15,893	1,161	41	28,719	75	1,014	0	41	-162	
1964	1,026	162	654	443	4,659	1,530	496	3,255	401	15,422	983	40	27,883	91	1,003	0	29	574	
1965	**896**	**166**	**655**	**410**	**3,689**	**1,371**	**790**	**3,407**	**425**	**15,745**	**332**	**44**	**26,869**	**-5**	**1,116**	**0**	**0**	**2,652**	
1966	860	197	714	362	4,464	1,510	722	3,818	442	16,412	430	43	28,917	0	1,162	0	0	2,431	
1967	789	189	606	333	5,172	1,849	348	4,262	425	16,763	586	54	30,397	0	1,163	0	0	1,844	
1968	729	203	787	556	6,454	2,124	638	4,705	467	17,451	643	74	33,900	0	1,254	0	0	2,944	
1969	1,146	210	741	233	6,439	2,038	526	5,669	470	18,082	779	97	35,074	0	1,238	0	0	6,448	
1970	**1,283**	**222**	**1,137**	**199**	**7,449**	**1,783**	**582**	**5,616**	**479**	**18,525**	**793**	**94**	**36,656**	**0**	**1,371**	**0**	**0**	**7,502**	
1971	1,174	224	1,111	197	7,613	1,812	680	5,468	445	19,231	579	90	37,225	0	1,359	0	0	9,752	
1972	1,488	225	889	89	9,097	1,721	771	6,006	476	20,414	720	94	40,278	0	1,372	0	0	6,389	
1973	1,685	230	884	172	9,307	1,665	782	5,593	542	20,948	670	96	40,659	599	1,371	0	0	5,169	
1974	1,561	223	976	174	8,847	1,797	623	5,289	519	20,412	1,049	97	39,783	3,996	1,294	0	0	-2,213	
1975	**1,595**	**219**	**754**	**141**	**8,507**	**1,679**	**554**	**5,740**	**492**	**20,636**	**1,092**	**97**	**39,692**	**5,916**	**1,213**	**0**	**0**	**-3,822**	
1976	2,626	199	570	138	10,426	1,692	635	6,552	547	21,580	1,505	95	43,741	5,824	1,276	0	0	-1,738	
1977	2,846	189	1,098	183	10,916	1,771	559	5,922	389	21,810	1,088	95	43,831	7,452	1,221	0	0	-5,110	
1978	2,967	163	1,606	207	12,630	1,989	456	5,469	418	22,075	1,266	104	46,218	7,725	1,187	0	0	-3,451	
1979	4,058	170	817	181	12,862	1,900	57	4,682	437	20,478	707	103	42,224	8,658	1,246	0	0	-10,525	
1980	**4,990**	**163**	**719**	**213**	**9,149**	**1,588**	**62**	**4,499**	**389**	**19,100**	**228**	**99**	**36,045**	**5,783**	**1,336**	**0**	**0**	**-5,079**	
1981	5,459	138	671	214	8,200	1,466	87	4,023	373	18,333	70	65	33,502	5,988	1,197	0	0	-3,810	
1982	5,399	138	736	123	9,253	1,453	93	4,788	340	18,261	191	0	35,239	8,753	1,212	0	0	-11,669	
1983	5,928	129	668	119	11,547	1,482	76	4,818	356	17,905	105	0	37,075	6,082	1,346	0	0	-2,394	
1984	6,939	134	631	107	11,986	1,385	109	3,555	380	17,871	96	0	36,119	5,780	1,345	0	0	-5,239	
1985	**6,653**	**126**	**473**	**96**	**12,384**	**1,357**	**112**	**4,209**	**354**	**17,733**	**74**	**0**	**36,792**	**4,134**	**1,441**	**0**	**0**	**2,248**	
1986	6,288	105	954	117	12,051	1,353	170	3,888	346	17,757	293	258	37,188	7,658	1,678	0	0	-8,028	
1987	6,744	109	1,241	90	12,299	1,373	91	4,752	391	17,844	274	258	38,614	8,589	1,567	0	0	-11,836	
1988	8,057	122	1,262	96	13,995	1,505	68	5,371	377	18,634	437	265	42,010	6,828	1,350	0	0	-9,265	
1989	7,587	120	1,130	93	12,432	1,488	24	5,130	387	18,418	462	261	39,825	8,077	1,158	0	0	-9,937	
									Trillion Btu										
1960	**20.0**	**140.4**	**5.2**	**1.9**	**24.2**	**6.4**	**3.8**	**10.6**	**2.6**	**78.8**	**2.6**	**0.3**	**136.4**	**0.0**	**10.3**	**0.0**	**0.5**	**-1.8**	**305.9**
1961	18.2	144.6	4.7	2.1	26.0	7.0	3.5	11.0	2.5	78.6	3.1	0.3	138.8	0.0	9.9	0.0	0.5	1.1	313.1
1962	23.0	149.3	4.7	2.1	23.8	7.9	3.5	11.8	2.3	81.3	4.2	0.3	141.9	0.0	10.3	0.0	0.4	0.7	325.6
1963	24.5	145.8	5.6	2.2	25.3	8.0	2.6	14.7	2.3	83.5	7.3	0.2	151.8	0.9	10.6	0.0	0.4	-0.6	333.5
1964	23.7	160.5	4.3	2.2	27.1	8.2	2.8	13.1	2.4	81.0	6.2	0.2	147.7	1.1	10.5	0.0	0.3	2.0	345.7
1965	**20.8**	**164.7**	**4.3**	**2.1**	**21.5**	**7.4**	**4.5**	**13.7**	**2.6**	**82.7**	**2.1**	**0.3**	**141.1**	**-0.1**	**11.7**	**0.0**	**0.0**	**9.0**	**347.3**
1966	19.7	195.9	4.7	1.8	26.0	8.2	4.1	15.3	2.7	86.2	2.7	0.3	152.0	0.0	12.1	0.0	0.0	8.3	388.0
1967	18.3	187.9	4.0	1.7	30.1	10.1	2.0	16.4	2.6	88.1	3.7	0.3	158.9	0.0	12.1	0.0	0.0	6.3	383.5
1968	17.2	202.9	5.2	2.8	37.6	11.6	3.6	18.0	2.8	91.7	4.0	0.4	177.8	0.0	13.0	0.0	0.0	10.0	421.0
1969	27.1	209.6	4.9	1.2	37.5	11.2	3.0	21.6	2.9	95.0	4.9	0.6	182.6	0.0	12.9	0.0	0.0	22.0	454.3
1970	**29.7**	**224.1**	**7.5**	**1.0**	**43.4**	**9.8**	**3.3**	**21.2**	**2.9**	**97.3**	**5.0**	**0.6**	**192.0**	**0.0**	**14.4**	**0.0**	**0.0**	**25.6**	**485.8**
1971	26.3	225.5	7.4	1.0	44.3	9.9	3.9	20.6	2.7	101.0	3.6	0.5	195.0	0.0	14.2	0.0	0.0	33.3	494.3
1972	33.5	226.4	5.9	0.4	53.0	9.4	4.4	22.6	2.9	107.2	4.5	0.6	210.9	0.0	14.2	0.0	0.0	21.8	506.9
1973	36.9	230.8	5.9	0.9	54.2	9.1	4.4	21.0	3.3	110.0	4.2	0.6	213.6	6.5	14.2	0.0	0.0	17.6	519.7
1974	32.8	223.3	6.5	0.9	51.5	9.9	3.5	19.7	3.1	107.2	6.6	0.6	209.6	44.6	13.5	0.0	0.0	-7.5	516.2
1975	**32.9**	**217.5**	**5.0**	**0.7**	**49.6**	**9.2**	**3.1**	**21.3**	**3.0**	**108.4**	**6.9**	**0.6**	**207.8**	**65.2**	**12.6**	**0.0**	**0.0**	**-13.0**	**522.9**
1976	53.7	197.4	3.8	0.7	60.7	9.3	3.6	24.3	3.3	113.4	9.5	0.6	229.2	64.3	13.2	0.0	0.0	-5.9	552.0
1977	59.3	188.4	7.3	0.9	63.6	9.8	3.2	21.8	2.4	114.6	6.8	0.6	230.8	80.2	12.7	0.0	0.0	-17.4	554.2
1978	59.8	162.7	10.7	1.0	73.6	11.0	2.6	20.1	2.5	116.0	8.0	0.6	246.0	84.5	12.3	0.0	0.0	-11.8	553.5
1979	77.6	169.0	5.4	0.9	74.9	10.5	0.3	17.2	2.6	107.6	4.4	0.6	224.6	94.2	12.9	0.0	0.0	-35.9	542.3
1980	**93.9**	**159.5**	**4.8**	**1.1**	**53.3**	**8.7**	**0.4**	**16.5**	**2.4**	**100.3**	**1.4**	**0.6**	**189.4**	**63.1**	**13.9**	**0.0**	**0.0**	**-17.3**	**502.5**
1981	98.6	135.3	4.4	1.1	47.8	8.0	0.5	14.7	2.3	96.3	0.4	0.4	175.9	66.0	12.5	0.0	0.0	-13.0	475.3
1982	96.7	135.6	4.9	0.6	53.9	7.9	0.5	17.3	2.1	95.9	1.2	0.0	184.4	96.9	12.7	0.0	0.0	-39.8	486.5
1983	104.8	127.0	4.4	0.6	67.3	8.1	0.4	17.4	2.2	94.1	0.7	0.0	195.1	66.3	14.2	0.0	0.0	-8.2	499.2
1984	124.3	131.9	4.2	0.5	69.8	7.6	0.6	12.8	2.3	93.9	0.6	0.0	192.3	62.7	13.9	0.0	0.0	-17.9	507.2
1985	**115.5**	**123.9**	**3.1**	**0.5**	**72.1**	**7.4**	**0.6**	**15.2**	**2.1**	**93.2**	**0.5**	**0.0**	**194.8**	**44.7**	**14.9**	**0.0**	**0.0**	**7.7**	**501.4**
1986	109.9	104.0	6.3	0.6	70.2	7.4	1.0	14.2	2.1	93.3	1.8	1.4	198.3	82.7	17.2	0.0	0.0	-27.4	484.7
1987	116.5	107.7	8.2	0.5	71.6	7.5	0.5	17.4	2.4	93.7	1.7	1.4	205.0	92.6	16.1	0.0	0.0	-40.4	497.4
1988	139.3	119.9	8.4	0.5	81.5	8.2	0.4	19.6	2.3	97.9	2.7	1.4	223.0	73.4	13.8	0.0	0.0	-31.6	537.8
1989	132.0	118.7	7.5	0.5	72.4	8.2	0.1	18.9	2.3	96.8	2.9	1.4	211.0	86.6	12.0	0.0	0.0	-33.9	526.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 178. Residential Energy Consumption Estimates, 1960-1989, Nebraska

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**76**	**0**	**76**	**39**	**140**	**337**	**1,790**	**2,267**	**1,907**	**4,744**		
1961	52	0	52	40	144	321	1,940	2,405	2,082	5,074		
1962	54	0	54	43	129	336	2,169	2,635	2,221	5,340		
1963	38	0	38	41	130	228	2,626	2,984	2,442	5,839		
1964	27	0	27	45	150	236	2,352	2,738	2,607	6,210		
1965	**21**	**0**	**21**	**48**	**111**	**453**	**2,545**	**3,110**	**2,816**	**6,723**		
1966	16	0	16	53	152	345	2,659	3,155	2,850	6,839		
1967	12	0	12	54	164	93	2,948	3,204	2,816	6,728		
1968	12	0	12	53	167	440	3,240	3,846	3,099	7,395		
1969	25	0	25	55	147	362	3,796	4,305	3,682	8,795		
1970	**13**	**0**	**13**	**58**	**196**	**379**	**3,889**	**4,464**	**4,107**	**9,953**		
1971	12	0	12	58	189	450	3,745	4,385	4,308	10,416		
1972	15	0	15	60	216	531	3,990	4,738	4,081	9,824		
1973	8	0	8	50	210	536	3,518	4,264	4,436	10,620		
1974	5	0	5	49	182	411	3,044	3,637	4,512	11,002		
1975	**3**	**0**	**3**	**54**	**173**	**372**	**3,143**	**3,688**	**4,693**	**11,321**		
1976	4	0	4	55	253	428	3,170	3,851	4,722	11,375		
1977	6	0	6	53	228	376	2,809	3,413	4,859	11,733		
1978	8	0	8	48	266	288	2,864	3,418	5,347	13,081		
1979	21	0	21	54	455	26	1,428	1,909	5,263	12,701		
1980	**7**	**0**	**7**	**49**	**360**	**10**	**1,406**	**1,775**	**5,521**	**13,425**		
1981	6	0	6	44	385	29	1,312	1,726	5,601	13,350		
1982	9	0	9	51	366	29	1,437	1,832	5,845	14,039		
1983	19	1	20	47	248	46	1,709	2,003	6,438	15,425		
1984	32	0	32	48	268	69	1,213	1,549	6,268	14,555		
1985	**4**	**0**	**4**	**47**	**340**	**61**	**1,631**	**2,033**	**6,195**	**14,526**		
1986	1	0	1	42	283	19	1,411	1,712	6,325	14,501		
1987	1	0	1	39	202	12	1,723	1,936	6,378	14,537		
1988	16	0	16	44	199	14	1,899	2,112	6,813	15,386		
1989	2	0	2	45	249	9	1,770	2,028	6,723	15,081		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**1.6**	**0.0**	**1.6**	**40.9**	**0.8**	**1.9**	**7.2**	**9.5**	**6.5**	**58.9**	**16.2**	**75.1**
1961	1.1	0.0	1.1	41.6	0.8	1.8	7.8	10.4	7.1	60.3	17.3	77.6
1962	1.1	0.0	1.1	44.7	0.8	1.9	8.7	11.4	7.6	64.7	18.2	83.0
1963	0.8	0.0	0.8	40.3	0.8	1.3	10.5	12.6	8.3	62.0	19.9	82.0
1964	0.6	0.0	0.6	44.7	0.9	1.3	9.4	11.6	8.9	65.8	21.2	86.9
1965	**0.4**	**0.0**	**0.4**	**47.2**	**0.6**	**2.6**	**10.2**	**13.4**	**9.6**	**70.7**	**22.9**	**93.6**
1966	0.3	0.0	0.3	52.7	0.9	2.0	10.7	13.5	9.7	76.3	23.3	99.6
1967	0.2	0.0	0.2	53.6	1.0	0.5	11.3	12.8	9.6	76.2	23.0	99.2
1968	0.3	0.0	0.3	53.3	1.0	2.5	12.4	15.8	10.6	79.9	25.2	105.2
1969	0.5	0.0	0.5	55.1	0.9	2.1	14.4	17.4	12.6	85.5	30.0	115.5
1970	**0.3**	**0.0**	**0.3**	**58.8**	**1.1**	**2.1**	**14.7**	**18.0**	**14.0**	**91.0**	**34.0**	**125.0**
1971	0.2	0.0	0.2	58.1	1.1	2.6	14.1	17.8	14.7	90.9	35.5	126.4
1972	0.3	0.0	0.3	60.9	1.3	3.0	15.0	19.3	13.9	94.4	33.5	127.9
1973	0.2	0.0	0.2	51.0	1.2	3.0	13.2	17.4	15.1	83.7	36.2	120.0
1974	0.1	0.0	0.1	49.8	1.1	2.3	11.4	14.7	15.4	80.0	37.5	117.5
1975	**0.1**	**0.0**	**0.1**	**53.6**	**1.0**	**2.1**	**11.7**	**14.8**	**16.0**	**84.5**	**38.6**	**123.1**
1976	0.1	0.0	0.1	54.8	1.5	2.4	11.8	15.7	16.1	86.6	38.8	125.4
1977	0.1	0.0	0.1	53.0	1.3	2.1	10.3	13.8	16.6	83.4	40.0	123.5
1978	0.1	0.0	0.1	48.2	1.5	1.6	10.5	13.7	18.2	80.3	44.6	124.9
1979	0.4	0.0	0.4	53.4	2.7	0.1	5.3	8.1	18.0	79.8	43.3	123.1
1980	**0.1**	**0.0**	**0.1**	**47.9**	**2.1**	**0.1**	**5.2**	**7.3**	**18.8**	**74.2**	**45.8**	**120.0**
1981	0.1	0.0	0.1	43.0	2.2	0.2	4.8	7.2	19.1	69.4	45.5	114.9
1982	0.2	0.0	0.2	50.4	2.1	0.2	5.2	7.5	19.9	78.0	47.9	125.9
1983	0.4	*	0.4	46.4	1.4	0.3	6.2	7.9	22.0	76.7	52.6	129.3
1984	0.7	0.0	0.7	46.9	1.6	0.4	4.4	6.3	21.4	75.3	49.7	125.0
1985	**0.1**	**0.0**	**0.1**	**45.8**	**2.0**	**0.3**	**5.9**	**8.2**	**21.1**	**75.3**	**49.6**	**124.8**
1986	*	0.0	*	42.0	1.6	0.1	5.1	6.9	21.6	70.5	49.5	120.0
1987	*	0.0	*	38.3	1.2	0.1	6.3	7.5	21.8	67.6	49.6	117.2
1988	0.3	0.0	0.3	42.8	1.2	0.1	6.9	8.2	23.2	74.5	52.5	127.0
1989	*	0.0	*	44.2	1.5	0.1	6.5	8.0	22.9	75.2	51.5	126.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 179. Commercial Energy Consumption Estimates, 1960-1989, Nebraska

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**142**	**0**	**142**	**22**	**140**	**65**	**316**	**84**	**43**	**649**	**1,269**	**3,157**		
1961	96	0	96	22	145	62	342	88	37	673	1,409	3,433		
1962	100	0	100	22	130	65	383	90	75	743	1,589	3,821		
1963	70	0	70	22	131	44	463	92	115	845	1,740	4,162		
1964	50	0	50	24	151	45	415	93	107	812	1,870	4,453		
1965	**39**	**0**	**39**	**26**	**112**	**87**	**449**	**95**	**84**	**827**	**2,025**	**4,835**		
1966	30	0	30	30	152	66	469	97	178	963	1,996	4,790		
1967	22	0	22	41	164	18	520	98	161	960	2,036	4,863		
1968	23	0	23	42	167	85	572	103	250	1,176	2,549	6,081		
1969	46	0	46	46	148	70	670	108	287	1,283	3,229	7,712		
1970	**24**	**0**	**24**	**47**	**197**	**73**	**686**	**110**	**241**	**1,307**	**3,505**	**8,493**		
1971	22	0	22	47	190	87	661	114	213	1,264	3,770	9,115		
1972	27	0	27	46	217	102	704	119	206	1,348	3,746	9,016		
1973	15	0	15	39	211	103	621	121	206	1,262	3,957	9,473		
1974	9	0	9	42	183	79	537	119	237	1,155	3,833	9,346		
1975	**6**	**0**	**6**	**43**	**174**	**71**	**555**	**120**	**159**	**1,079**	**3,660**	**8,829**		
1976	7	0	7	49	254	82	559	126	309	1,331	3,817	9,195		
1977	11	0	11	47	229	72	496	130	269	1,195	3,957	9,554		
1978	15	0	15	41	267	55	505	136	203	1,167	3,964	9,698		
1979	39	0	39	44	457	5	252	140	108	962	4,014	9,687		
1980	**12**	**0**	**12**	**43**	**181**	**21**	**248**	**149**	**23**	**622**	**4,068**	**9,892**		
1981	10	0	10	41	339	10	231	154	17	751	4,524	10,782		
1982	18	0	18	43	298	14	254	131	101	797	4,665	11,205		
1983	36	*	36	39	832	6	302	120	0	1,260	4,886	11,705		
1984	59	0	59	42	898	10	214	95	0	1,217	5,643	13,103		
1985	**8**	**0**	**8**	**39**	**800**	**18**	**288**	**158**	**0**	**1,264**	**5,714**	**13,399**		
1986	3	0	3	36	333	8	249	142	0	732	5,798	13,292		
1987	3	0	3	34	354	4	304	139	*	801	5,956	13,573		
1988	29	0	29	39	299	2	335	135	14	784	6,342	14,321		
1989	3	0	3	37	228	3	312	126	55	724	6,473	14,520		
							Trillion Btu							
1960	**3.0**	**0.0**	**3.0**	**22.7**	**0.8**	**0.4**	**1.3**	**0.4**	**0.3**	**3.2**	**4.3**	**33.2**	**10.8**	**43.9**
1961	2.0	0.0	2.0	23.2	0.8	0.4	1.4	0.5	0.2	3.3	4.8	33.3	11.7	45.0
1962	2.1	0.0	2.1	22.4	0.8	0.4	1.5	0.5	0.5	3.6	5.4	33.5	13.0	46.6
1963	1.5	0.0	1.5	22.2	0.8	0.2	1.9	0.5	0.7	4.1	5.9	33.7	14.2	47.9
1964	1.0	0.0	1.0	23.9	0.9	0.3	1.7	0.5	0.7	4.0	6.4	35.3	15.2	50.5
1965	**0.8**	**0.0**	**0.8**	**25.3**	**0.7**	**0.5**	**1.8**	**0.5**	**0.5**	**4.0**	**6.9**	**37.0**	**16.5**	**53.5**
1966	0.6	0.0	0.6	29.8	0.9	0.4	1.9	0.5	1.1	4.8	6.8	42.0	16.3	58.4
1967	0.5	0.0	0.5	41.3	1.0	0.1	2.0	0.5	1.0	4.6	6.9	53.3	16.6	69.8
1968	0.5	0.0	0.5	41.7	1.0	0.5	2.2	0.5	1.6	5.7	8.7	56.6	20.7	77.4
1969	0.9	0.0	0.9	45.9	0.9	0.4	2.5	0.6	1.8	6.2	11.0	64.1	26.3	90.4
1970	**0.5**	**0.0**	**0.5**	**47.2**	**1.1**	**0.4**	**2.6**	**0.6**	**1.5**	**6.2**	**12.0**	**65.9**	**29.0**	**94.9**
1971	0.4	0.0	0.4	47.6	1.1	0.5	2.5	0.6	1.3	6.0	12.9	67.0	31.1	98.1
1972	0.5	0.0	0.5	46.2	1.3	0.6	2.6	0.6	1.3	6.4	12.8	65.9	30.8	96.7
1973	0.3	0.0	0.3	39.2	1.2	0.6	2.3	0.6	1.3	6.1	13.5	59.0	32.3	91.4
1974	0.2	0.0	0.2	42.6	1.1	0.4	2.0	0.6	1.5	5.6	13.1	61.5	31.9	93.4
1975	**0.1**	**0.0**	**0.1**	**43.0**	**1.0**	**0.4**	**2.1**	**0.6**	**1.0**	**5.1**	**12.5**	**60.7**	**30.1**	**90.8**
1976	0.1	0.0	0.1	48.5	1.5	0.5	2.1	0.7	1.9	6.6	13.0	68.3	31.4	99.7
1977	0.2	0.0	0.2	47.0	1.3	0.4	1.8	0.7	1.7	5.9	13.5	66.7	32.6	99.3
1978	0.3	0.0	0.3	40.8	1.6	0.3	1.9	0.7	1.3	5.7	13.5	60.3	33.1	93.4
1979	0.7	0.0	0.7	43.4	2.7	*	0.9	0.7	0.7	5.0	13.7	62.8	33.1	95.9
1980	**0.2**	**0.0**	**0.2**	**42.5**	**1.1**	**0.1**	**0.9**	**0.8**	**0.1**	**3.0**	**13.9**	**59.6**	**33.8**	**93.4**
1981	0.2	0.0	0.2	39.8	2.0	0.1	0.8	0.8	0.1	3.8	15.4	59.2	36.8	96.0
1982	0.3	0.0	0.3	42.2	1.7	0.1	0.9	0.7	0.6	4.1	15.9	62.5	38.2	100.7
1983	0.7	*	0.8	38.4	4.8	*	1.1	0.6	0.0	6.6	16.7	62.4	39.9	102.3
1984	1.3	0.0	1.3	41.1	5.2	0.1	0.8	0.5	0.0	6.6	19.3	68.2	44.7	112.9
1985	**0.2**	**0.0**	**0.2**	**38.7**	**4.7**	**0.1**	**1.0**	**0.8**	**0.0**	**6.6**	**19.5**	**65.0**	**45.7**	**110.7**
1986	0.1	0.0	0.1	36.1	1.9	*	0.9	0.7	0.0	3.6	19.8	59.6	45.4	104.9
1987	0.1	0.0	0.1	33.7	2.1	*	1.1	0.7	*	3.9	20.3	58.0	46.3	104.3
1988	0.5	0.0	0.5	38.7	1.7	*	1.2	0.7	0.1	3.8	21.6	64.7	48.9	113.5
1989	0.1	0.0	0.1	36.9	1.3	*	1.2	0.7	0.3	3.5	22.1	62.5	49.5	112.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 180. Industrial Energy Consumption Estimates, 1960–1989, Nebraska

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**408**	**0**	**408**	**37**	**780**	**2,405**	**275**	**441**	**97**	**2,146**	**18**	**52**	**6,215**	*	**889**	**2,210**
1961	449	0	449	37	702	2,473	239	353	94	2,196	13	51	6,121	*	937	2,283
1962	468	0	468	41	705	2,087	209	311	91	2,089	37	52	5,581	*	979	2,353
1963	498	0	498	41	843	2,096	185	460	91	1,880	56	41	5,651	*	1,039	2,485
1964	447	0	447	47	654	2,399	215	382	95	1,910	42	40	5,736	*	1,094	2,606
1965	**349**	**0**	**349**	**48**	**655**	**1,956**	**250**	**314**	**130**	**1,790**	**32**	**44**	**5,171**	*	**1,182**	**2,821**
1966	395	0	395	65	714	2,681	311	505	135	1,700	68	43	6,158	*	1,252	3,003
1967	254	0	254	44	606	2,811	237	559	134	1,755	61	54	6,216	*	1,250	2,987
1968	159	0	159	50	787	2,993	113	630	148	1,505	97	74	6,346	*	1,743	4,159
1969	174	0	174	52	741	2,918	94	930	157	1,598	172	97	6,707	*	2,005	4,790
1970	**240**	**0**	**240**	**56**	**1,137**	**3,271**	**130**	**823**	**160**	**1,319**	**139**	**94**	**7,073**	*	**2,145**	**5,198**
1971	193	0	193	57	1,111	3,309	143	814	129	1,500	115	90	7,210	*	2,193	5,303
1972	218	0	218	57	889	3,544	138	1,078	138	1,241	162	94	7,284	*	2,102	5,059
1973	312	0	312	73	884	3,511	143	1,220	198	703	146	96	6,901	0	2,310	5,530
1974	319	0	319	72	976	3,313	133	1,458	190	1,611	146	97	7,925	0	2,606	6,353
1975	**308**	**0**	**308**	**74**	**754**	**3,234**	**111**	**1,811**	**193**	**1,644**	**137**	**97**	**7,982**	**0**	**3,200**	**7,718**
1976	604	0	604	65	570	4,447	125	2,547	215	1,608	161	95	9,768	0	3,542	8,532
1977	553	0	553	61	1,098	3,830	111	2,397	41	1,631	183	95	9,386	0	3,599	8,690
1978	576	0	576	52	1,606	4,558	112	1,845	44	1,612	130	104	10,012	0	3,784	9,258
1979	538	0	538	52	817	5,574	26	2,828	46	1,563	40	103	10,997	0	4,079	9,844
1980	**269**	**0**	**269**	**52**	**719**	**3,411**	**31**	**2,675**	**41**	**1,471**	**29**	**99**	**8,475**	**0**	**4,155**	**10,104**
1981	376	0	376	43	671	3,068	48	2,271	40	1,356	37	65	7,555	0	3,881	9,249
1982	324	1	325	37	736	3,352	50	2,925	36	1,205	90	0	8,394	0	3,462	8,315
1983	215	1	216	37	668	3,550	23	2,601	38	1,094	104	0	8,078	0	3,665	8,780
1984	280	0	280	39	631	3,834	30	2,040	40	961	96	0	7,633	0	3,725	8,651
1985	**261**	**0**	**261**	**33**	**473**	**4,292**	**33**	**2,216**	**38**	**1,392**	**74**	**0**	**8,518**	**0**	**3,794**	**8,896**
1986	339	0	339	20	954	4,264	143	2,182	37	1,189	240	258	9,268	0	3,757	8,615
1987	312	0	312	30	1,241	3,880	76	2,671	41	1,246	215	258	9,629	0	3,851	8,776
1988	268	0	268	32	1,262	4,352	52	3,076	40	1,065	347	265	10,458	0	4,104	9,267
1989	279	0	279	31	1,130	3,996	12	2,968	41	1,059	345	261	9,812	0	4,370	9,803

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu																	
1960	**9.0**	**0.0**	**9.0**	**38.3**	**5.2**	**14.0**	**1.6**	**1.8**	**0.6**	**11.3**	**0.1**	**0.3**	**34.8**	*	**3.0**	**85.1**	**7.5**	**92.6**
1961	9.9	0.0	9.9	38.7	4.7	14.4	1.4	1.4	0.6	11.5	0.1	0.3	34.3	*	3.2	86.1	7.8	93.9
1962	10.3	0.0	10.3	42.0	4.7	12.2	1.2	1.2	0.5	11.0	0.2	0.3	31.3	*	3.3	86.9	8.0	94.9
1963	10.9	0.0	10.9	40.6	5.6	12.2	1.0	1.8	0.5	9.9	0.4	0.2	31.7	*	3.5	86.8	8.5	95.2
1964	9.8	0.0	9.8	46.5	4.3	14.0	1.2	1.5	0.6	10.0	0.3	0.2	32.2	*	3.7	92.2	8.9	101.1
1965	**7.6**	**0.0**	**7.6**	**47.7**	**4.3**	**11.4**	**1.4**	**1.3**	**0.8**	**9.4**	**0.2**	**0.3**	**29.1**	*	**4.0**	**88.4**	**9.6**	**98.0**
1966	8.5	0.0	8.5	64.7	4.7	15.6	1.8	2.0	0.8	8.9	0.4	0.3	34.6	*	4.3	112.1	10.2	122.4
1967	5.4	0.0	5.4	43.5	4.0	16.4	1.3	2.1	0.8	9.2	0.4	0.3	34.6	*	4.3	87.8	10.2	98.0
1968	3.4	0.0	3.4	49.5	5.2	17.4	0.6	2.4	0.9	7.9	0.6	0.4	35.6	*	5.9	94.5	14.2	108.7
1969	3.7	0.0	3.7	52.1	4.9	17.0	0.5	3.5	1.0	8.4	1.1	0.6	37.0	*	6.8	99.6	16.3	115.9
1970	**4.9**	**0.0**	**4.9**	**56.9**	**7.5**	**19.1**	**0.7**	**3.1**	**1.0**	**6.9**	**0.9**	**0.6**	**39.8**	*	**7.3**	**108.9**	**17.7**	**126.7**
1971	3.9	0.0	3.9	57.1	7.4	19.3	0.8	3.1	0.8	7.9	0.7	0.5	40.4	*	7.5	109.0	18.1	127.0
1972	4.4	0.0	4.4	57.6	5.9	20.6	0.8	4.1	0.8	6.5	1.0	0.6	40.3	*	7.2	109.5	17.3	126.8
1973	6.3	0.0	6.3	73.7	5.9	20.5	0.8	4.6	1.2	3.7	0.9	0.6	38.1	0.0	7.9	126.0	18.9	144.9
1974	6.4	0.0	6.4	72.1	6.5	19.3	0.8	5.4	1.2	8.5	0.9	0.6	43.1	0.0	8.9	130.4	21.7	152.1
1975	**5.9**	**0.0**	**5.9**	**73.5**	**5.0**	**18.8**	**0.6**	**6.7**	**1.2**	**8.6**	**0.9**	**0.6**	**42.5**	**0.0**	**10.9**	**132.8**	**26.3**	**159.1**
1976	11.6	0.0	11.6	64.7	3.8	25.9	0.7	9.5	1.3	8.4	1.0	0.6	51.2	0.0	12.1	139.6	29.1	168.7
1977	10.5	0.0	10.5	61.1	7.3	22.3	0.6	8.8	0.2	8.6	1.1	0.6	49.6	0.0	12.3	133.5	29.7	163.1
1978	10.7	0.0	10.7	52.3	10.7	26.5	0.6	6.8	0.3	8.5	0.8	0.6	54.8	0.0	12.9	130.7	31.6	162.3
1979	10.1	0.0	10.1	51.8	5.4	32.5	0.1	10.4	0.3	8.2	0.2	0.6	57.8	0.0	13.9	133.6	33.6	167.2
1980	**5.2**	**0.0**	**5.2**	**50.9**	**4.8**	**19.9**	**0.2**	**9.8**	**0.3**	**7.7**	**0.2**	**0.6**	**43.4**	**0.0**	**14.2**	**113.6**	**34.5**	**148.1**
1981	7.0	0.0	7.0	42.2	4.4	17.9	0.3	8.3	0.2	7.1	0.2	0.4	38.9	0.0	13.2	101.3	31.6	132.9
1982	6.1	*	6.1	36.4	4.9	19.5	0.3	10.6	0.2	6.3	0.6	0.0	42.4	0.0	11.8	96.7	28.4	125.1
1983	4.2	*	4.3	36.7	4.4	20.7	0.1	9.4	0.2	5.7	0.7	0.0	41.3	0.0	12.5	94.7	30.0	124.7
1984	5.4	0.0	5.4	37.9	4.2	22.3	0.2	7.3	0.2	5.0	0.6	0.0	39.9	0.0	12.7	96.0	29.5	125.5
1985	**4.9**	**0.0**	**4.9**	**32.6**	**3.1**	**25.0**	**0.2**	**8.0**	**0.2**	**7.3**	**0.5**	**0.0**	**44.3**	**0.0**	**12.9**	**94.8**	**30.4**	**125.1**
1986	6.2	0.0	6.2	20.3	6.3	24.8	0.8	7.9	0.2	6.2	1.5	1.4	49.3	0.0	12.8	88.7	29.4	118.1
1987	5.8	0.0	5.8	29.6	8.2	22.6	0.4	9.8	0.3	6.5	1.4	1.4	50.6	0.0	13.1	99.2	29.9	129.1
1988	5.0	0.0	5.0	31.8	8.4	25.3	0.3	11.2	0.2	5.6	2.2	1.4	54.7	0.0	14.0	105.5	31.6	137.2
1989	5.3	0.0	5.3	30.2	7.5	23.3	0.1	10.9	0.2	5.6	2.2	1.4	51.2	0.0	14.9	101.6	33.4	135.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 181. Transportation Energy Consumption Estimates, 1960-1989, Nebraska

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**7**	**6**	**371**	**1,402**	**1,202**	**103**	**328**	**12,768**	**258**	**16,432**	**0**	**0**		
1961	2	7	416	1,636	1,309	96	319	12,681	351	16,808	0	0		
1962	2	7	423	1,649	1,463	91	291	13,306	426	17,648	0	0		
1963	2	7	428	1,891	1,491	124	291	13,922	835	18,981	0	0		
1964	2	8	443	1,898	1,530	106	306	13,419	743	18,445	0	0		
1965	**1**	**9**	**410**	**1,439**	**1,371**	**99**	**295**	**13,861**	**109**	**17,583**	**0**	**0**		
1966	1	9	362	1,428	1,510	184	307	14,615	108	18,515	0	0		
1967	1	10	333	1,990	1,849	235	291	14,910	299	19,907	0	0		
1968	*	10	556	3,075	2,124	265	319	15,843	218	22,400	0	0		
1969	*	11	233	3,151	2,038	273	313	16,377	209	22,593	0	0		
1970	*****	**13**	**199**	**3,658**	**1,783**	**217**	**319**	**17,096**	**225**	**23,497**	**0**	**0**		
1971	*	13	197	3,784	1,812	247	316	17,618	175	24,149	0	0		
1972	*	13	89	4,839	1,721	234	339	19,053	178	26,453	0	0		
1973	*	14	172	5,146	1,665	234	344	20,124	165	27,849	0	0		
1974	*	12	174	4,918	1,797	249	329	18,682	170	26,319	0	0		
1975	*****	**10**	**141**	**4,618**	**1,679**	**231**	**299**	**18,871**	**138**	**25,976**	**0**	**0**		
1976	*	10	138	5,193	1,692	275	332	19,846	35	27,511	0	0		
1977	*	12	183	6,352	1,771	220	348	20,049	26	28,948	0	0		
1978	0	9	207	7,201	1,989	254	373	20,327	5	30,354	0	0		
1979	0	7	181	6,171	1,900	175	391	18,775	14	27,605	0	0		
1980	**0**	**7**	**213**	**5,112**	**1,588**	**171**	**348**	**17,480**	**0**	**24,911**	**0**	**0**		
1981	0	6	214	4,329	1,466	210	334	16,823	3	23,377	0	0		
1982	0	5	123	5,105	1,453	173	304	16,925	0	24,084	0	0		
1983	0	4	119	6,838	1,482	206	318	16,691	0	25,654	0	0		
1984	0	5	107	6,944	1,385	89	340	16,815	0	25,678	0	0		
1985	**0**	**6**	**96**	**6,890**	**1,357**	**74**	**317**	**16,183**	**0**	**24,916**	**0**	**0**		
1986	0	4	117	7,122	1,353	46	309	16,426	*	25,374	0	0		
1987	0	4	90	7,831	1,373	54	350	16,460	*	26,157	0	0		
1988	0	5	96	9,081	1,505	62	337	17,434	0	28,514	0	0		
1989	0	5	93	7,911	1,488	80	346	17,234	0	27,151	0	0		
							Trillion Btu					Net Energy[4]		Total[4]
1960	**0.2**	**6.5**	**1.9**	**8.2**	**6.4**	**0.4**	**2.0**	**67.1**	**1.6**	**87.6**	**0.0**	**94.2**	**0.0**	**94.2**
1961	*	6.8	2.1	9.5	7.0	0.4	1.9	66.6	2.2	89.8	0.0	96.6	0.0	96.6
1962	*	6.8	2.1	9.6	7.9	0.4	1.8	69.9	2.7	94.3	0.0	101.2	0.0	101.2
1963	*	6.5	2.2	11.0	8.0	0.5	1.8	73.1	5.3	101.8	0.0	108.4	0.0	108.4
1964	*	8.1	2.2	11.1	8.2	0.4	1.9	70.5	4.7	99.0	0.0	107.1	0.0	107.1
1965	*****	**8.6**	**2.1**	**8.4**	**7.4**	**0.4**	**1.8**	**72.8**	**0.7**	**93.5**	**0.0**	**102.2**	**0.0**	**102.2**
1966	*	9.3	1.8	8.3	8.2	0.7	1.9	76.8	0.7	98.4	0.0	107.7	0.0	107.7
1967	*	10.2	1.7	11.6	10.1	0.9	1.8	78.3	1.9	106.2	0.0	116.4	0.0	116.4
1968	*	10.0	2.8	17.9	11.6	1.0	1.9	83.2	1.4	119.8	0.0	129.8	0.0	129.8
1969	*	11.4	1.2	18.4	11.2	1.0	1.9	86.0	1.3	121.0	0.0	132.4	0.0	132.4
1970	*****	**13.2**	**1.0**	**21.3**	**9.8**	**0.8**	**1.9**	**89.8**	**1.4**	**126.1**	**0.0**	**139.3**	**0.0**	**139.3**
1971	*	13.3	1.0	22.0	9.9	0.9	1.9	92.5	1.1	129.5	0.0	142.8	0.0	142.8
1972	*	13.3	0.4	28.2	9.4	0.9	2.1	100.1	1.1	142.2	0.0	155.5	0.0	155.5
1973	*	13.8	0.9	30.0	9.1	0.9	2.1	105.7	1.0	149.7	0.0	163.5	0.0	163.5
1974	*	11.6	0.9	28.6	9.9	0.9	2.0	98.1	1.1	141.5	0.0	153.2	0.0	153.2
1975	*****	**10.4**	**0.7**	**26.9**	**9.2**	**0.9**	**1.8**	**99.1**	**0.9**	**139.5**	**0.0**	**149.9**	**0.0**	**149.9**
1976	*	10.4	0.7	30.2	9.3	1.0	2.0	104.3	0.2	147.8	0.0	158.1	0.0	158.1
1977	*	12.3	0.9	37.0	9.8	0.8	2.1	105.3	0.2	156.1	0.0	168.3	0.0	168.3
1978	0.0	9.0	1.0	41.9	11.0	0.9	2.3	106.8	*	164.0	0.0	172.9	0.0	172.9
1979	0.0	7.0	0.9	35.9	10.5	0.6	2.4	98.6	0.1	149.1	0.0	156.1	0.0	156.1
1980	**0.0**	**6.9**	**1.1**	**29.8**	**8.7**	**0.6**	**2.1**	**91.8**	**0.0**	**134.1**	**0.0**	**141.0**	**0.0**	**141.0**
1981	0.0	6.0	1.1	25.2	8.0	0.8	2.0	88.4	*	125.5	0.0	131.5	0.0	131.5
1982	0.0	5.1	0.6	29.7	7.9	0.6	1.8	88.9	0.0	129.7	0.0	134.8	0.0	134.8
1983	0.0	4.0	0.6	39.8	8.1	0.7	1.9	87.7	0.0	138.9	0.0	142.9	0.0	142.9
1984	0.0	4.5	0.5	40.5	7.6	0.3	2.1	88.3	0.0	139.3	0.0	143.8	0.0	143.8
1985	**0.0**	**5.5**	**0.5**	**40.1**	**7.4**	**0.3**	**1.9**	**85.0**	**0.0**	**135.2**	**0.0**	**140.7**	**0.0**	**140.7**
1986	0.0	3.9	0.6	41.5	7.4	0.2	1.9	86.3	*	137.8	0.0	141.7	0.0	141.7
1987	0.0	4.4	0.5	45.6	7.5	0.2	2.1	86.5	*	142.4	0.0	146.8	0.0	146.8
1988	0.0	4.6	0.5	52.9	8.2	0.2	2.0	91.6	0.0	155.5	0.0	160.1	0.0	160.1
1989	0.0	4.8	0.5	46.1	8.2	0.3	2.1	90.5	0.0	147.6	0.0	152.5	0.0	152.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 182. Estimates of Energy Input at Electric Utilities, 1960–1989, Nebraska

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**256**	**0**	**256**	**31**	**96**	**64**	**0**	**160**	**0**	**959**	**0**	**48**	
1961	209	0	209	33	95	64	0	158	0	928	0	49	
1962	388	0	388	32	127	85	0	212	0	975	0	37	
1963	465	0	465	36	154	103	0	258	75	1,013	0	41	
1964	501	0	501	38	91	61	0	151	91	1,002	0	29	
1965	**486**	**0**	**486**	**36**	**107**	**71**	**0**	**178**	**-5**	**1,115**	**0**	**0**	
1966	417	0	417	40	76	51	0	127	0	1,162	0	0	
1967	501	0	501	39	66	44	0	110	0	1,163	0	0	
1968	534	0	534	49	79	53	0	131	0	1,254	0	0	
1969	901	0	901	45	111	74	0	186	0	1,237	0	0	
1970	**1,006**	**0**	**1,006**	**48**	**188**	**126**	**0**	**314**	**0**	**1,370**	**0**	**0**	
1971	947	0	947	49	76	140	0	217	0	1,359	0	0	
1972	1,228	0	1,228	49	175	280	0	455	0	1,372	0	0	
1973	1,350	0	1,350	54	153	229	0	382	599	1,371	0	0	
1974	1,228	0	1,228	48	497	251	0	748	3,996	1,294	0	0	
1975	**1,278**	**0**	**1,278**	**38**	**658**	**308**	**0**	**967**	**5,916**	**1,213**	**0**	**0**	
1976	2,012	0	2,012	20	1,000	280	0	1,279	5,824	1,276	0	0	
1977	2,277	0	2,277	16	610	278	0	888	7,452	1,221	0	0	
1978	2,367	0	2,367	13	929	338	0	1,267	7,725	1,187	0	0	
1979	3,461	0	3,461	14	546	205	0	750	8,658	1,246	0	0	
1980	**4,702**	**0**	**4,702**	**12**	**176**	**86**	**0**	**262**	**5,783**	**1,336**	**0**	**0**	
1981	5,067	0	5,067	5	13	80	0	93	5,988	1,197	0	0	
1982	5,048	0	5,048	2	*	132	0	132	8,753	1,212	0	0	
1983	5,656	0	5,656	2	*	80	0	80	6,082	1,346	0	0	
1984	6,569	0	6,569	1	0	41	0	41	5,780	1,345	0	0	
1985	**6,380**	**0**	**6,380**	**1**	**0**	**62**	**0**	**62**	**4,134**	**1,441**	**0**	**0**	
1986	5,945	0	5,945	2	53	50	0	103	7,658	1,678	0	0	
1987	6,428	0	6,428	2	59	33	0	92	8,589	1,567	0	0	
1988	7,744	0	7,744	2	76	64	0	140	6,828	1,350	0	0	
1989	7,303	0	7,303	3	61	49	0	110	8,077	1,158	0	0	
					Trillion Btu								
1960	**6.3**	**0.0**	**6.3**	**32.1**	**0.6**	**0.4**	**0.0**	**1.0**	**0.0**	**10.3**	**0.0**	**0.5**	**50.2**
1961	5.2	0.0	5.2	34.3	0.6	0.4	0.0	1.0	0.0	9.9	0.0	0.5	50.8
1962	9.5	0.0	9.5	33.5	0.8	0.5	0.0	1.3	0.0	10.3	0.0	0.4	55.0
1963	11.3	0.0	11.3	36.1	1.0	0.6	0.0	1.6	0.9	10.6	0.0	0.4	61.0
1964	12.2	0.0	12.2	37.3	0.6	0.4	0.0	0.9	1.1	10.5	0.0	0.3	62.3
1965	**11.9**	**0.0**	**11.9**	**35.9**	**0.7**	**0.4**	**0.0**	**1.1**	**-0.1**	**11.7**	**0.0**	**0.0**	**60.6**
1966	10.2	0.0	10.2	39.3	0.5	0.3	0.0	0.8	0.0	12.1	0.0	0.0	62.4
1967	12.1	0.0	12.1	39.3	0.4	0.3	0.0	0.7	0.0	12.1	0.0	0.0	64.3
1968	13.0	0.0	13.0	48.5	0.5	0.3	0.0	0.8	0.0	13.0	0.0	0.0	75.3
1969	21.9	0.0	21.9	45.1	0.7	0.4	0.0	1.1	0.0	12.9	0.0	0.0	81.1
1970	**24.1**	**0.0**	**24.1**	**48.0**	**1.2**	**0.7**	**0.0**	**1.9**	**0.0**	**14.4**	**0.0**	**0.0**	**88.4**
1971	21.7	0.0	21.7	49.2	0.5	0.8	0.0	1.3	0.0	14.2	0.0	0.0	86.5
1972	28.3	0.0	28.3	48.4	1.1	1.6	0.0	2.7	0.0	14.2	0.0	0.0	93.6
1973	30.1	0.0	30.1	53.1	1.0	1.3	0.0	2.3	6.5	14.2	0.0	0.0	106.3
1974	26.1	0.0	26.1	47.2	3.1	1.5	0.0	4.6	44.6	13.5	0.0	0.0	136.0
1975	**26.8**	**0.0**	**26.8**	**37.0**	**4.1**	**1.8**	**0.0**	**5.9**	**65.2**	**12.6**	**0.0**	**0.0**	**147.5**
1976	41.9	0.0	41.9	19.0	6.3	1.6	0.0	7.9	64.3	13.2	0.0	0.0	146.4
1977	48.5	0.0	48.5	15.1	3.8	1.6	0.0	5.5	80.2	12.7	0.0	0.0	162.1
1978	48.7	0.0	48.7	12.4	5.8	2.0	0.0	7.8	84.5	12.3	0.0	0.0	165.8
1979	66.4	0.0	66.4	13.4	3.4	1.2	0.0	4.6	94.2	12.9	0.0	0.0	191.5
1980	**88.4**	**0.0**	**88.4**	**11.3**	**1.1**	**0.5**	**0.0**	**1.6**	**63.1**	**13.9**	**0.0**	**0.0**	**178.3**
1981	91.3	0.0	91.3	4.3	0.1	0.5	0.0	0.5	66.0	12.5	0.0	0.0	174.7
1982	90.1	0.0	90.1	1.5	*	0.8	0.0	0.8	96.9	12.7	0.0	0.0	202.0
1983	99.4	0.0	99.4	1.5	*	0.5	0.0	0.5	66.3	14.2	0.0	0.0	181.8
1984	116.9	0.0	116.9	1.4	0.0	0.2	0.0	0.2	62.7	13.9	0.0	0.0	195.1
1985	**110.4**	**0.0**	**110.4**	**1.2**	**0.0**	**0.4**	**0.0**	**0.4**	**44.7**	**14.9**	**0.0**	**0.0**	**171.5**
1986	103.6	0.0	103.6	1.7	0.3	0.3	0.0	0.6	82.7	17.2	0.0	0.0	205.8
1987	110.6	0.0	110.6	1.7	0.4	0.2	0.0	0.6	92.6	16.1	0.0	0.0	221.5
1988	133.5	0.0	133.5	2.0	0.5	0.4	0.0	0.9	73.4	13.8	0.0	0.0	223.5
1989	126.5	0.0	126.5	2.5	0.4	0.3	0.0	0.7	86.6	12.0	0.0	0.0	228.3

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 183. Energy Consumption Estimates by Source, 1960-1989, Nevada

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**151**	**12**	**247**	**281**	**2,409**	**2,462**	**3**	**773**	**92**	**3,621**	**246**	**0**	**10,134**	**0**	**1,967**	**0**	**0**	**-655**	
1961	142	16	423	277	3,000	2,643	3	899	89	3,874	282	0	11,490	0	1,748	0	0	922	
1962	161	18	451	462	3,023	2,963	9	826	93	4,509	190	0	12,526	0	1,972	0	0	396	
1963	131	19	669	419	2,831	3,122	3	895	93	4,971	241	0	13,244	0	1,804	0	0	2,301	
1964	126	24	635	360	3,424	3,352	7	714	98	5,159	169	0	13,918	0	1,617	0	0	3,369	
1965	**309**	**28**	**367**	**335**	**2,775**	**2,999**	**5**	**720**	**121**	**5,504**	**137**	**0**	**12,963**	**0**	**1,595**	**0**	**0**	**1,603**	
1966	427	34	815	373	2,449	3,147	4	492	126	5,709	110	0	13,226	0	1,801	0	0	1,811	
1967	370	35	751	325	2,280	3,932	0	670	91	5,808	118	17	13,992	0	1,732	0	0	2,837	
1968	576	37	532	304	2,689	4,816	3	701	100	6,356	126	0	15,627	0	1,750	0	0	1,729	
1969	656	44	603	227	2,756	4,954	10	752	103	6,583	108	11	16,109	0	1,701	0	0	2,202	
1970	**680**	**53**	**609**	**186**	**2,834**	**4,584**	**16**	**839**	**105**	**7,374**	**143**	**11**	**16,700**	**0**	**1,646**	**0**	**0**	**2,134**	
1971	1,533	67	620	170	3,152	4,853	13	838	104	7,721	224	0	17,695	0	1,678	0	0	-6,240	
1972	3,737	70	858	166	2,959	5,287	9	769	111	8,495	281	0	18,934	0	1,563	0	0	-18,186	
1973	4,003	73	965	166	3,258	5,591	8	693	126	8,999	415	0	20,221	0	1,669	0	0	-18,491	
1974	4,467	63	1,027	180	2,527	5,572	26	689	121	8,953	809	6	19,909	0	1,600	0	0	-17,790	
1975	**4,521**	**61**	**837**	**197**	**2,565**	**5,859**	**29**	**493**	**120**	**9,633**	**1,339**	**0**	**21,070**	**0**	**1,690**	**0**	**0**	**-18,450**	
1976	5,005	67	699	143	2,762	6,157	30	442	133	10,003	723	0	21,091	0	1,555	0	0	-19,010	
1977	5,229	71	682	163	3,086	6,502	49	425	108	10,607	1,444	37	23,102	0	1,617	0	0	-23,055	
1978	4,134	65	750	186	3,929	6,884	51	380	116	11,698	2,858	45	26,897	0	1,666	0	0	-12,608	
1979	4,490	84	794	181	3,144	7,378	6	850	122	11,328	1,444	55	25,300	0	1,716	0	0	-13,440	
1980	**4,215**	**58**	**614**	**206**	**3,966**	**7,223**	**0**	**880**	**108**	**11,224**	**2,439**	**53**	**26,715**	**0**	**2,372**	**0**	**0**	**-10,964**	
1981	5,076	73	498	186	3,490	7,030	72	835	104	11,559	285	28	24,088	0	1,729	0	0	-16,327	
1982	6,617	47	663	122	3,525	6,722	18	976	95	11,311	236	32	23,699	0	1,420	0	0	-15,221	
1983	6,289	42	751	110	5,292	6,748	57	975	99	11,288	104	43	25,467	0	4,094	0	0	-20,110	
1984	6,948	42	750	98	5,565	5,927	52	866	106	11,558	98	43	25,065	0	5,613	0	0	-28,226	
1985	**5,539**	**39**	**844**	**105**	**5,410**	**5,715**	**56**	**1,128**	**99**	**11,625**	**88**	**36**	**25,105**	**0**	**4,374**	**0**	**0**	**-14,240**	
1986	7,195	34	567	124	5,517	5,952	17	1,093	97	12,212	612	36	26,225	0	4,584	0	0	-25,029	
1987	6,920	41	864	101	6,507	6,431	11	949	109	13,045	465	44	28,527	0	2,545	0	0	-13,433	
1988	8,276	48	931	120	6,809	6,416	39	1,117	105	14,078	925	56	30,596	0	2,091	0	0	-19,574	
1989	7,667	64	1,398	118	7,450	6,105	43	1,756	108	14,563	680	58	32,279	0	1,931	0	0	-14,302	
									Trillion Btu										
1960	**4.0**	**12.9**	**1.6**	**1.4**	**14.0**	**13.2**	*****	**3.1**	**0.6**	**19.0**	**1.5**	**0.0**	**54.5**	**0.0**	**21.2**	**0.0**	**0.0**	**-2.2**	**90.3**
1961	3.7	16.4	2.8	1.4	17.5	14.2	*	3.6	0.5	20.4	1.8	0.0	62.2	0.0	18.6	0.0	0.0	3.1	104.1
1962	4.2	18.1	3.0	2.3	17.6	16.0	0.1	3.3	0.6	23.7	1.2	0.0	67.7	0.0	20.8	0.0	0.0	1.4	112.3
1963	3.4	20.7	4.4	2.1	16.5	16.9	*	3.6	0.6	26.1	1.5	0.0	71.7	0.0	18.9	0.0	0.0	7.9	122.5
1964	3.2	25.6	4.2	1.8	19.9	18.1	*	2.9	0.6	27.1	1.1	0.0	75.8	0.0	16.9	0.0	0.0	11.5	133.0
1965	**7.9**	**29.4**	**2.4**	**1.7**	**16.2**	**16.3**	*****	**2.9**	**0.7**	**28.9**	**0.9**	**0.0**	**70.0**	**0.0**	**16.7**	**0.0**	**0.0**	**5.5**	**129.4**
1966	10.9	36.3	5.4	1.9	14.3	17.1	*	2.0	0.8	30.0	0.7	0.0	72.1	0.0	18.8	0.0	0.0	6.2	144.2
1967	9.4	36.8	5.0	1.6	13.3	21.5	0.0	2.6	0.6	30.5	0.7	0.1	75.9	0.0	18.1	0.0	0.0	9.7	149.8
1968	14.6	39.2	3.5	1.5	15.7	26.4	*	2.7	0.6	33.4	0.8	0.0	84.6	0.0	18.2	0.0	0.0	5.9	162.4
1969	16.7	46.7	4.0	1.1	16.1	27.3	0.1	2.9	0.6	34.6	0.7	0.1	87.4	0.0	17.8	0.0	0.0	7.5	176.0
1970	**17.3**	**56.9**	**4.0**	**0.9**	**16.5**	**25.3**	**0.1**	**3.2**	**0.6**	**38.7**	**0.9**	**0.1**	**90.4**	**0.0**	**17.3**	**0.0**	**0.0**	**7.3**	**189.1**
1971	36.4	72.0	4.1	0.9	18.4	26.8	0.1	3.2	0.6	40.6	1.4	0.0	96.0	0.0	17.6	0.0	0.0	-21.3	200.7
1972	84.4	75.2	5.7	0.8	17.2	29.3	0.1	2.9	0.7	44.6	1.8	0.0	103.1	0.0	16.2	0.0	0.0	-62.0	216.9
1973	90.1	78.0	6.4	0.8	19.0	31.1	*	2.6	0.8	47.3	2.6	0.0	110.6	0.0	17.3	0.0	0.0	-63.1	232.9
1974	100.5	67.7	6.8	0.9	14.7	31.0	0.1	2.6	0.7	47.0	5.1	*	109.0	0.0	16.7	0.0	0.0	-60.7	233.2
1975	**101.3**	**65.4**	**5.6**	**1.0**	**14.9**	**32.7**	**0.2**	**1.8**	**0.7**	**50.6**	**8.4**	**0.0**	**115.9**	**0.0**	**17.6**	**0.0**	**0.0**	**-63.0**	**237.2**
1976	111.3	71.2	4.6	0.7	16.1	34.4	0.2	1.6	0.8	52.5	4.5	0.0	115.5	0.0	16.1	0.0	0.0	-64.9	249.3
1977	115.9	74.5	4.5	0.8	18.0	36.3	0.3	1.6	0.7	55.7	9.1	0.2	127.1	0.0	16.9	0.0	0.0	-78.7	255.8
1978	91.3	66.3	5.0	0.9	22.9	38.5	0.3	1.4	0.7	61.4	18.0	0.3	149.4	0.0	17.3	0.0	0.0	-43.0	281.2
1979	99.3	85.5	5.3	0.9	18.3	41.3	*	3.1	0.7	59.5	9.1	0.3	138.6	0.0	17.8	0.0	0.0	-45.9	295.3
1980	**93.2**	**62.0**	**4.1**	**1.0**	**23.1**	**40.4**	**0.0**	**3.2**	**0.7**	**59.0**	**15.3**	**0.3**	**147.1**	**0.0**	**24.6**	**0.0**	**0.0**	**-37.4**	**289.6**
1981	112.2	78.7	3.3	0.9	20.3	39.2	0.4	3.0	0.6	60.7	1.8	0.2	130.6	0.0	18.1	0.0	0.0	-55.7	283.9
1982	146.5	49.9	4.4	0.6	20.5	37.4	0.1	3.5	0.6	59.4	1.5	0.2	128.3	0.0	14.8	0.0	0.0	-51.9	287.6
1983	140.2	44.7	5.0	0.6	30.8	37.6	0.3	3.5	0.6	59.3	0.7	0.3	138.6	0.0	43.1	0.0	0.0	-68.6	298.0
1984	155.6	44.7	5.0	0.5	32.4	32.9	0.3	3.1	0.6	60.7	0.6	0.3	136.4	0.0	57.9	0.0	0.0	-96.3	298.4
1985	**126.2**	**41.6**	**5.6**	**0.5**	**31.5**	**31.7**	**0.3**	**4.1**	**0.6**	**61.1**	**0.6**	**0.2**	**136.1**	**0.0**	**45.2**	**0.0**	**0.0**	**-48.6**	**300.6**
1986	161.6	35.8	3.8	0.6	32.1	33.0	0.1	4.0	0.6	64.1	3.8	0.2	142.4	0.0	47.0	0.0	0.0	-85.4	301.4
1987	154.9	41.7	5.7	0.5	37.9	35.7	0.1	3.5	0.7	68.5	2.9	0.3	155.7	0.0	26.1	0.0	0.0	-45.8	332.6
1988	183.5	48.4	6.2	0.6	39.7	35.6	0.2	4.1	0.6	74.0	5.8	0.3	167.1	0.0	21.4	0.0	0.0	-66.8	353.6
1989	170.3	65.6	9.3	0.6	43.4	33.9	0.2	6.5	0.7	76.5	4.3	0.3	175.7	0.0	19.9	0.0	0.0	-48.8	382.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 184. Residential Energy Consumption Estimates, 1960–1989, Nevada

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**8**	**4**	**12**	**2**	**219**	**0**	**275**	**493**	**719**	**1,788**		
1961	6	4	10	2	285	0	343	629	797	1,942		
1962	8	3	12	1	256	0	392	648	939	2,258		
1963	12	3	16	3	263	0	425	687	1,199	2,867		
1964	17	3	20	4	312	0	514	826	1,484	3,535		
1965	**22**	**3**	**25**	**4**	**286**	**0**	**519**	**805**	**1,268**	**3,029**		
1966	32	2	34	5	266	0	401	667	1,421	3,410		
1967	8	2	10	5	252	0	535	787	1,508	3,603		
1968	6	2	7	5	251	0	550	801	1,603	3,824		
1969	3	2	5	6	259	0	588	847	1,855	4,431		
1970	**22**	**2**	**24**	**7**	**328**	**0**	**621**	**949**	**1,990**	**4,821**		
1971	10	2	11	8	470	0	623	1,093	2,251	5,441		
1972	*	1	1	9	413	0	568	981	2,444	5,883		
1973	*	1	2	9	425	0	514	939	2,739	6,558		
1974	1	1	2	9	242	0	478	720	2,800	6,828		
1975	**3**	**1**	**3**	**11**	**265**	**0**	**316**	**581**	**2,803**	**6,762**		
1976	4	1	5	11	260	0	303	563	2,797	6,738		
1977	17	1	18	11	304	0	312	616	2,922	7,057		
1978	1	1	2	12	402	0	264	666	3,369	8,242		
1979	1	*	2	13	211	0	402	613	3,767	9,091		
1980	**1**	**1**	**2**	**13**	**187**	**0**	**427**	**614**	**3,697**	**8,990**		
1981	2	1	3	13	151	36	404	590	3,501	8,344		
1982	2	0	2	16	158	12	448	617	3,782	9,084		
1983	1	0	1	11	218	43	529	790	3,662	8,772		
1984	10	0	10	12	246	38	564	848	4,055	9,417		
1985	**1**	**0**	**1**	**13**	**284**	**50**	**727**	**1,061**	**4,126**	**9,675**		
1986	1	0	1	12	246	14	691	952	4,097	9,393		
1987	1	0	1	14	325	7	586	918	4,537	10,339		
1988	1	0	1	15	291	23	661	975	4,968	11,220		
1989	1	0	1	17	252	24	849	1,124	5,169	11,594		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**0.2**	**0.1**	**0.3**	**2.0**	**1.3**	**0.0**	**1.1**	**2.4**	**2.5**	**7.1**	**6.1**	**13.2**
1961	0.1	0.1	0.2	1.6	1.7	0.0	1.4	3.0	2.7	7.6	6.6	14.2
1962	0.2	0.1	0.3	1.5	1.5	0.0	1.6	3.1	3.2	8.1	7.7	15.8
1963	0.3	0.1	0.4	2.8	1.5	0.0	1.7	3.2	4.1	10.6	9.8	20.3
1964	0.4	0.1	0.5	3.9	1.8	0.0	2.1	3.9	5.1	13.4	12.1	25.4
1965	**0.6**	**0.1**	**0.6**	**4.4**	**1.7**	**0.0**	**2.1**	**3.7**	**4.3**	**13.1**	**10.3**	**23.4**
1966	0.8	0.1	0.9	5.3	1.5	0.0	1.6	3.2	4.8	14.2	11.6	25.8
1967	0.2	*	0.3	5.5	1.5	0.0	2.1	3.5	5.1	14.4	12.3	26.7
1968	0.1	*	0.2	5.8	1.5	0.0	2.1	3.6	5.5	15.0	13.0	28.1
1969	0.1	*	0.1	6.7	1.5	0.0	2.2	3.7	6.3	16.9	15.1	32.0
1970	**0.5**	*	**0.6**	**7.9**	**1.9**	**0.0**	**2.3**	**4.3**	**6.8**	**19.5**	**16.5**	**35.9**
1971	0.2	*	0.3	8.6	2.7	0.0	2.4	5.1	7.7	21.7	18.6	40.3
1972	*	*	*	9.9	2.4	0.0	2.1	4.5	8.3	22.8	20.1	42.9
1973	*	*	*	9.6	2.5	0.0	1.9	4.4	9.3	23.4	22.4	45.8
1974	*	*	*	10.0	1.4	0.0	1.8	3.2	9.6	22.8	23.3	46.1
1975	**0.1**	*	**0.1**	**11.8**	**1.5**	**0.0**	**1.2**	**2.7**	**9.6**	**24.2**	**23.1**	**47.3**
1976	0.1	*	0.1	11.4	1.5	0.0	1.1	2.6	9.5	23.7	23.0	46.6
1977	0.4	*	0.4	11.6	1.8	0.0	1.1	2.9	10.0	24.9	24.1	49.0
1978	*	*	*	11.8	2.3	0.0	1.0	3.3	11.5	26.7	28.1	54.8
1979	*	*	*	12.8	1.2	0.0	1.5	2.7	12.9	28.4	31.0	59.4
1980	*	*	*	**13.9**	**1.1**	**0.0**	**1.6**	**2.7**	**12.6**	**29.2**	**30.7**	**59.9**
1981	*	*	0.1	14.1	0.9	0.2	1.5	2.6	11.9	28.7	28.5	57.2
1982	*	0.0	*	17.1	0.9	0.1	1.6	2.6	12.9	32.7	31.0	63.7
1983	*	0.0	*	12.2	1.3	0.2	1.9	3.4	12.5	28.1	29.9	58.1
1984	0.2	0.0	0.2	12.6	1.4	0.2	2.0	3.7	13.8	30.3	32.1	62.5
1985	*	**0.0**	*	**13.4**	**1.7**	**0.3**	**2.6**	**4.6**	**14.1**	**32.0**	**33.0**	**65.0**
1986	*	0.0	*	13.0	1.4	0.1	2.5	4.0	14.0	31.0	32.1	63.0
1987	*	0.0	*	14.2	1.9	*	2.1	4.1	15.5	33.8	35.3	69.0
1988	*	0.0	*	15.2	1.7	0.1	2.4	4.2	17.0	36.4	38.3	74.7
1989	*	0.0	*	17.3	1.5	0.1	3.1	4.7	17.6	39.7	39.6	79.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 185. Commercial Energy Consumption Estimates, 1960-1989, Nevada

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**15**	**3**	**18**	**1**	**107**	**0**	**48**	**29**	**86**	**271**	**655**	**1,629**		
1961	11	3	13	*	140	3	61	30	120	354	743	1,811		
1962	16	2	18	1	126	4	69	30	75	304	840	2,019		
1963	23	2	25	1	129	0	75	40	50	294	958	2,291		
1964	31	2	33	2	153	1	91	46	51	342	1,115	2,655		
1965	**42**	**2**	**43**	**2**	**140**	**1**	**92**	**44**	**38**	**316**	**1,235**	**2,950**		
1966	60	1	61	3	130	4	71	45	28	278	1,463	3,510		
1967	15	1	17	6	123	0	94	46	24	288	1,562	3,732		
1968	10	1	12	7	123	2	97	48	30	300	1,708	4,076		
1969	6	1	7	8	127	9	104	42	27	309	1,905	4,551		
1970	**41**	**1**	**42**	**10**	**161**	**10**	**110**	**49**	**29**	**358**	**2,069**	**5,013**		
1971	18	1	19	11	231	7	110	56	46	449	2,221	5,370		
1972	1	1	1	13	202	6	100	56	81	445	2,464	5,931		
1973	1	1	1	13	209	6	91	60	60	425	2,675	6,403		
1974	2	1	2	14	119	14	84	59	55	331	2,736	6,672		
1975	**5**	**1**	**5**	**15**	**130**	**12**	**56**	**69**	**34**	**301**	**2,876**	**6,938**		
1976	8	1	8	18	127	20	54	51	38	290	2,549	6,140		
1977	32	1	32	17	149	26	55	54	22	305	2,518	6,079		
1978	3	*	3	20	197	28	47	53	20	345	2,911	7,122		
1979	2	*	3	20	104	6	71	57	1	238	2,183	5,268		
1980	**2**	*	**2**	**10**	**353**	**0**	**75**	**61**	**7**	**496**	**1,775**	**4,316**		
1981	4	*	4	8	332	18	71	68	25	514	2,035	4,851		
1982	3	0	3	8	77	6	79	73	11	245	1,906	4,578		
1983	2	0	2	12	348	3	93	129	11	584	1,954	4,681		
1984	18	0	18	12	393	4	99	202	10	709	3,183	7,393		
1985	**1**	**0**	**1**	**12**	**324**	**5**	**128**	**82**	**8**	**548**	**3,408**	**7,991**		
1986	1	0	1	11	492	2	122	83	11	710	3,454	7,919		
1987	1	0	1	14	714	1	103	85	4	909	3,737	8,517		
1988	1	0	1	15	455	12	117	81	2	666	4,032	9,104		
1989	1	0	1	15	379	8	150	81	2	619	4,295	9,635		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**0.4**	**0.1**	**0.4**	**0.9**	**0.6**	**0.0**	**0.2**	**0.2**	**0.5**	**1.5**	**2.2**	**5.1**	**5.6**	**10.7**
1961	0.3	0.1	0.3	0.4	0.8	*	0.2	0.2	0.8	2.0	2.5	5.2	6.2	11.4
1962	0.4	0.1	0.5	0.8	0.7	*	0.3	0.2	0.5	1.7	2.9	5.8	6.9	12.7
1963	0.6	*	0.6	1.5	0.8	0.0	0.3	0.2	0.3	1.6	3.3	7.0	7.8	14.8
1964	0.8	*	0.8	2.1	0.9	*	0.4	0.2	0.3	1.8	3.8	8.5	9.1	17.6
1965	**1.0**	*	**1.1**	**2.5**	**0.8**	*	**0.4**	**0.2**	**0.2**	**1.7**	**4.2**	**9.5**	**10.1**	**19.6**
1966	1.5	*	1.5	3.5	0.8	*	0.3	0.2	0.2	1.5	5.0	11.5	12.0	23.4
1967	0.4	*	0.4	6.5	0.7	0.0	0.4	0.2	0.2	1.5	5.3	13.7	12.7	26.4
1968	0.3	*	0.3	7.4	0.7	*	0.4	0.3	0.2	1.5	5.8	15.1	13.9	29.0
1969	0.2	*	0.2	8.7	0.7	0.1	0.4	0.2	0.2	1.6	6.5	16.9	15.5	32.5
1970	**1.0**	*	**1.0**	**10.4**	**0.9**	**0.1**	**0.4**	**0.3**	**0.2**	**1.8**	**7.1**	**20.3**	**17.1**	**37.4**
1971	0.4	*	0.5	11.9	1.3	*	0.4	0.3	0.3	2.4	7.6	22.3	18.3	40.7
1972	*	*	*	14.0	1.2	*	0.4	0.3	0.5	2.4	8.4	24.8	20.2	45.1
1973	*	*	*	14.0	1.2	*	0.3	0.3	0.4	2.3	9.1	25.4	21.8	47.3
1974	*	*	0.1	15.0	0.7	0.1	0.3	0.3	0.3	1.7	9.3	26.1	22.8	48.9
1975	**0.1**	*	**0.1**	**16.0**	**0.8**	**0.1**	**0.2**	**0.4**	**0.2**	**1.6**	**9.8**	**27.5**	**23.7**	**51.2**
1976	0.2	*	0.2	19.6	0.7	0.1	0.2	0.3	0.2	1.6	8.7	30.0	20.9	51.0
1977	0.7	*	0.7	18.1	0.9	0.1	0.2	0.3	0.1	1.6	8.6	29.0	20.7	49.8
1978	*	*	0.1	20.0	1.1	0.2	0.2	0.3	0.1	1.9	9.9	31.9	24.3	56.2
1979	*	*	0.1	19.0	0.6	*	0.3	0.3	*	1.2	7.4	27.7	18.0	45.7
1980	*	*	**0.1**	**10.7**	**2.1**	**0.0**	**0.3**	**0.3**	*	**2.7**	**6.1**	**19.5**	**14.7**	**34.3**
1981	0.1	*	0.1	8.9	1.9	0.1	0.3	0.4	0.2	2.8	6.9	18.8	16.6	35.3
1982	0.1	0.0	0.1	9.0	0.4	*	0.3	0.4	0.1	1.2	6.5	16.8	15.6	32.5
1983	*	0.0	*	12.5	2.0	*	0.3	0.7	0.1	3.1	6.7	22.4	16.0	38.4
1984	0.4	0.0	0.4	12.7	2.3	*	0.4	1.1	0.1	3.8	10.9	27.8	25.2	53.0
1985	*	**0.0**	*	**13.0**	**1.9**	*	**0.5**	**0.4**	**0.1**	**2.9**	**11.6**	**27.5**	**27.3**	**54.8**
1986	*	0.0	*	12.1	2.9	*	0.4	0.4	0.1	3.8	11.8	27.8	27.0	54.8
1987	*	0.0	*	13.8	4.2	*	0.4	0.4	*	5.0	12.8	31.6	29.1	60.7
1988	*	0.0	*	14.8	2.7	0.1	0.4	0.4	*	3.6	13.8	32.2	31.1	63.3
1989	*	0.0	*	15.6	2.2	*	0.6	0.4	*	3.2	14.7	33.5	32.9	66.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 186. Industrial Energy Consumption Estimates, 1960–1989, Nevada

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**111**	**8**	**119**	**3**	**247**	**575**	**3**	**445**	**18**	**120**	**118**	**0**	**1,527**	*	**793**	**1,974**		
1961	112	7	119	5	423	721	0	486	18	110	143	0	1,900	*	1,120	2,731		
1962	124	6	131	5	451	771	5	362	15	130	90	0	1,824	*	1,062	2,554		
1963	83	7	90	6	669	717	3	391	15	125	53	0	1,972	*	1,084	2,592		
1964	65	8	73	6	635	773	6	99	16	118	57	0	1,704	*	1,054	2,509		
1965	**54**	**7**	**61**	**8**	**367**	**740**	**4**	**101**	**36**	**131**	**40**	**0**	**1,419**	*	**1,059**	**2,529**		
1966	23	6	29	10	815	682	0	17	37	137	35	0	1,723	*	1,459	3,501		
1967	14	6	20	7	751	620	0	38	18	138	29	17	1,611	*	1,577	3,767		
1968	16	5	21	9	532	658	1	47	19	152	35	0	1,444	*	1,439	3,433		
1969	20	4	24	10	603	642	1	57	22	137	27	11	1,501	*	1,639	3,915		
1970	**67**	**4**	**70**	**10**	**609**	**840**	**6**	**99**	**23**	**166**	**34**	**11**	**1,788**	*	**1,635**	**3,963**		
1971	112	3	115	10	620	1,156	6	94	21	148	47	0	2,093	*	1,584	3,829		
1972	156	2	158	8	858	1,132	3	92	23	153	81	0	2,341	*	1,828	4,401		
1973	136	2	137	10	965	986	2	79	24	108	61	0	2,226	0	2,026	4,849		
1974	128	2	130	9	1,027	647	12	114	23	109	58	6	1,997	0	2,185	5,327		
1975	**75**	**2**	**77**	**10**	**837**	**705**	**17**	**107**	**26**	**115**	**44**	**0**	**1,852**	**0**	**1,964**	**4,737**		
1976	139	3	142	13	699	764	10	74	29	130	73	0	1,780	0	2,397	5,774		
1977	129	2	131	10	682	929	23	48	25	120	57	37	1,921	*	2,592	6,259		
1978	84	2	86	11	750	1,134	23	62	27	109	34	45	2,184	0	2,616	6,400		
1979	104	1	105	12	794	716	0	315	28	133	1	55	2,042	0	4,390	10,595		
1980	**145**	**2**	**147**	**7**	**614**	**651**	**0**	**374**	**25**	**111**	**1**	**53**	**1,830**	**0**	**4,936**	**12,003**		
1981	192	0	192	7	498	584	18	349	24	112	40	28	1,652	0	4,777	11,385		
1982	209	0	209	6	663	539	0	428	22	141	21	32	1,847	0	4,880	11,721		
1983	171	0	171	9	751	1,530	11	328	23	73	67	43	2,825	0	4,840	11,618		
1984	109	0	109	9	750	1,729	9	159	25	65	64	43	2,844	0	3,737	8,678		
1985	**110**	**0**	**110**	**6**	**844**	**1,540**	**1**	**245**	**23**	**131**	**29**	**36**	**2,849**	**0**	**3,808**	**8,929**		
1986	107	0	107	3	567	1,555	1	256	22	138	94	36	2,669	0	4,103	9,408		
1987	111	0	111	6	864	1,637	4	241	25	153	37	44	3,006	0	4,480	10,210		
1988	121	0	121	7	931	2,355	4	319	24	145	48	56	3,882	0	4,685	10,579		
1989	178	0	178	8	1,398	2,966	11	741	25	148	76	58	5,424	0	5,504	12,345		
	Trillion Btu																	
1960	**3.0**	**0.2**	**3.2**	**3.4**	**1.6**	**3.3**	*	**1.8**	**0.1**	**0.6**	**0.7**	**0.0**	**8.3**	*	**2.7**	**17.6**	**6.7**	**24.3**
1961	3.0	0.2	3.2	5.2	2.8	4.2	0.0	1.9	0.1	0.6	0.9	0.0	10.5	*	3.8	22.7	9.3	32.0
1962	3.3	0.2	3.5	5.1	3.0	4.5	*	1.5	0.1	0.7	0.6	0.0	10.3	*	3.6	22.5	8.7	31.3
1963	2.2	0.2	2.4	6.0	4.4	4.2	*	1.6	0.1	0.7	0.3	0.0	11.3	*	3.7	23.3	8.8	32.2
1964	1.7	0.2	1.9	6.0	4.2	4.5	*	0.4	0.1	0.6	0.4	0.0	10.2	*	3.6	21.8	8.6	30.3
1965	**1.4**	**0.2**	**1.6**	**8.4**	**2.4**	**4.3**	*	**0.4**	**0.2**	**0.7**	**0.3**	**0.0**	**8.3**	*	**3.6**	**21.9**	**8.6**	**30.5**
1966	0.6	0.1	0.8	10.1	5.4	4.0	0.0	0.1	0.2	0.7	0.2	0.0	10.6	*	5.0	26.5	11.9	38.4
1967	0.4	0.1	0.5	7.5	5.0	3.6	0.0	0.1	0.1	0.7	0.2	0.1	9.9	*	5.4	23.3	12.9	36.1
1968	0.4	0.1	0.5	9.2	3.5	3.8	*	0.2	0.1	0.8	0.2	0.0	8.7	*	4.9	23.3	11.7	35.0
1969	0.5	0.1	0.6	10.4	4.0	3.7	*	0.2	0.1	0.7	0.2	0.1	9.1	*	5.6	25.6	13.4	39.0
1970	**1.7**	**0.1**	**1.7**	**11.2**	**4.0**	**4.9**	*	**0.4**	**0.1**	**0.9**	**0.2**	**0.1**	**10.6**	*	**5.6**	**29.1**	**13.5**	**42.7**
1971	2.7	0.1	2.8	10.8	4.1	6.7	*	0.4	0.1	0.8	0.3	0.0	12.4	*	5.4	31.5	13.1	44.6
1972	3.8	*	3.9	8.4	5.7	6.6	*	0.3	0.1	0.8	0.5	0.0	14.1	*	6.2	32.6	15.0	47.6
1973	3.3	*	3.3	11.0	6.4	5.7	*	0.3	0.1	0.6	0.4	0.0	13.6	0.0	6.9	34.8	16.5	51.4
1974	3.1	*	3.2	9.9	6.8	3.8	0.1	0.4	0.1	0.6	0.4	*	12.2	0.0	7.5	32.7	18.2	50.8
1975	**1.8**	**0.1**	**1.8**	**10.7**	**5.6**	**4.1**	**0.1**	**0.4**	**0.2**	**0.6**	**0.3**	**0.0**	**11.2**	**0.0**	**6.7**	**30.4**	**16.2**	**46.6**
1976	3.1	0.1	3.1	13.5	4.6	4.5	0.1	0.3	0.2	0.7	0.5	0.0	10.7	0.0	8.2	35.5	19.7	55.2
1977	2.9	0.1	3.0	9.9	4.5	5.4	0.1	0.2	0.2	0.6	0.4	0.2	11.6	*	8.8	33.4	21.4	54.7
1978	1.9	*	2.0	11.1	5.0	6.6	0.1	0.2	0.2	0.6	0.2	0.3	13.2	0.0	8.9	35.1	21.8	57.0
1979	2.4	*	2.4	11.4	5.3	4.2	0.0	1.2	0.2	0.7	*	0.3	11.8	0.0	15.0	40.6	36.1	76.8
1980	**3.4**	*	**3.4**	**7.7**	**4.1**	**3.8**	**0.0**	**1.4**	**0.2**	**0.6**	*	**0.3**	**10.3**	**0.0**	**16.8**	**38.3**	**41.0**	**79.2**
1981	4.4	0.0	4.4	7.6	3.3	3.4	0.1	1.3	0.1	0.6	0.2	0.2	9.2	0.0	16.3	37.6	38.8	76.5
1982	4.9	0.0	4.9	6.6	4.4	3.1	0.0	1.5	0.1	0.7	0.1	0.2	10.3	0.0	16.7	38.4	40.0	78.4
1983	3.9	0.0	3.9	9.7	5.0	8.9	0.1	1.2	0.1	0.4	0.4	0.3	16.4	0.0	16.5	46.5	39.6	86.2
1984	2.5	0.0	2.5	9.4	5.0	10.1	0.1	0.6	0.1	0.3	0.4	0.3	16.8	0.0	12.8	41.5	29.6	71.1
1985	**2.6**	**0.0**	**2.6**	**6.6**	**5.6**	**9.0**	*	**0.9**	**0.1**	**0.7**	**0.2**	**0.2**	**16.7**	**0.0**	**13.0**	**38.8**	**30.5**	**69.3**
1986	2.5	0.0	2.5	3.7	3.8	9.1	*	0.9	0.1	0.7	0.6	0.2	15.4	0.0	14.0	35.6	32.1	67.7
1987	2.6	0.0	2.6	6.2	5.7	9.5	*	0.9	0.2	0.8	0.2	0.3	17.6	0.0	15.3	41.7	34.8	76.6
1988	2.8	0.0	2.8	7.2	6.2	13.7	*	1.2	0.1	0.8	0.3	0.3	22.6	0.0	16.0	48.6	36.1	84.7
1989	3.8	0.0	3.8	8.1	9.3	17.3	0.1	2.7	0.2	0.8	0.5	0.3	31.1	0.0	18.8	61.8	42.1	103.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 187. Transportation Energy Consumption Estimates, 1960-1989, Nevada

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**2**	**0**	**281**	**1,501**	**2,462**	**5**	**73**	**3,472**	**0**	**7,795**	**0**	**0**		
1961	1	0	277	1,851	2,643	9	71	3,735	0	8,585	0	0		
1962	1	0	462	1,866	2,963	3	78	4,349	0	9,721	0	0		
1963	*	0	419	1,713	3,122	5	78	4,806	79	10,222	0	0		
1964	*	*	360	2,178	3,352	11	82	4,995	14	10,992	0	0		
1965	*****	**0**	**335**	**1,599**	**2,999**	**9**	**86**	**5,329**	**7**	**10,364**	**0**	**0**		
1966	*	0	373	1,363	3,147	3	89	5,528	0	10,504	0	0		
1967	*	*	325	1,275	3,932	3	73	5,624	0	11,232	0	0		
1968	*	0	304	1,647	4,816	7	81	6,155	0	13,010	0	0		
1969	*	0	227	1,718	4,954	4	81	6,404	1	13,390	0	0		
1970	*****	**0**	**186**	**1,492**	**4,584**	**9**	**83**	**7,158**	**1**	**13,512**	**0**	**0**		
1971	*	0	170	1,285	4,853	10	82	7,517	0	13,918	0	0		
1972	*	0	166	1,196	5,287	9	88	8,286	4	15,037	0	0		
1973	*	0	166	1,616	5,591	9	101	8,831	5	16,320	0	0		
1974	*	0	180	1,491	5,572	12	97	8,785	4	16,140	0	0		
1975	*****	**0**	**197**	**1,407**	**5,859**	**13**	**94**	**9,449**	**5**	**17,023**	**0**	**0**		
1976	*	0	143	1,555	6,157	11	104	9,821	5	17,797	0	0		
1977	*	0	163	1,691	6,502	11	83	10,434	5	18,889	0	0		
1978	0	0	186	2,171	6,884	7	89	11,536	3	20,877	0	0		
1979	0	0	181	2,063	7,378	62	94	11,138	0	20,915	0	0		
1980	**0**	*****	**206**	**2,754**	**7,223**	**3**	**83**	**11,052**	**0**	**21,322**	**0**	**0**		
1981	0	*	186	2,399	7,030	12	80	11,379	0	21,086	0	0		
1982	0	*	122	2,714	6,722	21	73	11,097	0	20,749	0	0		
1983	0	*	110	3,152	6,748	25	76	11,086	3	21,201	0	0		
1984	0	*	98	3,156	5,927	44	81	11,291	3	20,601	0	0		
1985	**0**	*****	**105**	**3,209**	**5,715**	**28**	**76**	**11,411**	**0**	**20,543**	**0**	**0**		
1986	0	*	124	3,197	5,952	24	74	11,991	6	21,368	0	0		
1987	0	*	101	3,796	6,431	19	84	12,806	0	23,236	0	0		
1988	0	*	120	3,639	6,416	20	81	13,852	0	24,128	0	0		
1989	0	1	118	3,786	6,105	17	83	14,334	0	24,442	0	0		
							Trillion Btu					Net Energy[4]		Total[4]
1960	**0.1**	**0.0**	**1.4**	**8.7**	**13.2**	*****	**0.4**	**18.2**	**0.0**	**42.1**	**0.0**	**42.1**	**0.0**	**42.1**
1961	*	0.0	1.4	10.8	14.2	*	0.4	19.6	0.0	46.5	0.0	46.5	0.0	46.5
1962	*	0.0	2.3	10.9	16.0	*	0.5	22.8	0.0	52.5	0.0	52.5	0.0	52.5
1963	*	0.0	2.1	10.0	16.9	*	0.5	25.2	0.5	55.2	0.0	55.2	0.0	55.2
1964	*	0.1	1.8	12.7	18.1	*	0.5	26.2	0.1	59.5	0.0	59.6	0.0	59.6
1965	*****	**0.0**	**1.7**	**9.3**	**16.3**	*****	**0.5**	**28.0**	*****	**55.9**	**0.0**	**55.9**	**0.0**	**55.9**
1966	*	0.0	1.9	7.9	17.1	*	0.5	29.0	0.0	56.5	0.0	56.5	0.0	56.5
1967	*	*	1.6	7.4	21.5	*	0.4	29.5	0.0	60.5	0.0	60.6	0.0	60.6
1968	*	0.0	1.5	9.6	26.4	*	0.5	32.3	0.0	70.4	0.0	70.4	0.0	70.4
1969	*	0.0	1.1	10.0	27.3	*	0.5	33.6	*	72.6	0.0	72.6	0.0	72.6
1970	*****	**0.0**	**0.9**	**8.7**	**25.3**	*****	**0.5**	**37.6**	*****	**73.1**	**0.0**	**73.1**	**0.0**	**73.1**
1971	*	0.0	0.9	7.5	26.8	*	0.5	39.5	0.0	75.2	0.0	75.2	0.0	75.2
1972	*	0.0	0.8	7.0	29.3	*	0.5	43.5	*	81.3	0.0	81.3	0.0	81.3
1973	*	0.0	0.8	9.4	31.1	*	0.6	46.4	*	88.4	0.0	88.4	0.0	88.4
1974	*	0.0	0.9	8.7	31.0	*	0.6	46.1	*	87.4	0.0	87.4	0.0	87.4
1975	*****	**0.0**	**1.0**	**8.2**	**32.7**	*****	**0.6**	**49.6**	*****	**92.1**	**0.0**	**92.1**	**0.0**	**92.1**
1976	*	0.0	0.7	9.1	34.4	*	0.6	51.6	*	96.5	0.0	96.5	0.0	96.5
1977	*	0.0	0.8	9.9	36.3	*	0.5	54.8	*	102.4	0.0	102.4	0.0	102.4
1978	0.0	0.0	0.9	12.6	38.5	*	0.5	60.6	*	113.3	0.0	113.3	0.0	113.3
1979	0.0	0.0	0.9	12.0	41.3	0.2	0.6	58.5	0.0	113.5	0.0	113.5	0.0	113.5
1980	**0.0**	**0.2**	**1.0**	**16.0**	**40.4**	*****	**0.5**	**58.1**	**0.0**	**116.0**	**0.0**	**116.2**	**0.0**	**116.2**
1981	0.0	0.5	0.9	14.0	39.2	*	0.5	59.8	0.0	114.5	0.0	114.9	0.0	114.9
1982	0.0	0.3	0.6	15.8	37.4	0.1	0.4	58.3	0.0	112.7	0.0	113.0	0.0	113.0
1983	0.0	0.1	0.6	18.4	37.6	0.1	0.5	58.2	*	115.3	0.0	115.4	0.0	115.4
1984	0.0	0.1	0.5	18.4	32.9	0.2	0.5	59.3	*	111.7	0.0	111.8	0.0	111.8
1985	**0.0**	**0.1**	**0.5**	**18.7**	**31.7**	**0.1**	**0.5**	**59.9**	**0.0**	**111.4**	**0.0**	**111.5**	**0.0**	**111.5**
1986	0.0	*	0.6	18.6	33.0	0.1	0.4	63.0	*	115.8	0.0	115.9	0.0	115.9
1987	0.0	0.2	0.5	22.1	35.7	0.1	0.5	67.3	0.0	126.1	0.0	126.3	0.0	126.3
1988	0.0	0.2	0.6	21.2	35.6	0.1	0.5	72.8	0.0	130.7	0.0	130.9	0.0	130.9
1989	0.0	0.7	0.6	22.1	33.9	0.1	0.5	75.3	0.0	132.4	0.0	133.2	0.0	133.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 188. Estimates of Energy Input at Electric Utilities, 1960–1989, Nevada

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**6**	**41**	**7**	**0**	**48**	**0**	**1,967**	**0**	**0**	
1961	0	0	0	9	19	3	0	22	0	1,748	0	0	
1962	0	0	0	10	25	4	0	29	0	1,972	0	0	
1963	0	0	0	10	60	10	0	69	0	1,804	0	0	
1964	0	0	0	13	47	8	0	54	0	1,616	0	0	
1965	**180**	**0**	**180**	**13**	**51**	**8**	**0**	**60**	**0**	**1,594**	**0**	**0**	
1966	302	0	302	16	47	8	0	54	0	1,800	0	0	
1967	324	0	324	16	64	11	0	75	0	1,732	0	0	
1968	536	0	536	16	61	10	0	71	0	1,749	0	0	
1969	620	0	620	20	53	9	0	62	0	1,701	0	0	
1970	**544**	**0**	**544**	**25**	**80**	**13**	**0**	**93**	**0**	**1,645**	**0**	**0**	
1971	1,387	0	1,387	37	131	9	0	141	0	1,678	0	0	
1972	3,576	0	3,576	40	116	16	0	131	0	1,563	0	0	
1973	3,863	0	3,863	41	289	22	0	311	0	1,669	0	0	
1974	4,333	0	4,333	31	692	28	0	720	0	1,600	0	0	
1975	**4,435**	**0**	**4,435**	**25**	**1,256**	**58**	**0**	**1,314**	**0**	**1,690**	**0**	**0**	
1976	4,850	0	4,850	25	606	55	0	662	0	1,555	0	0	
1977	5,048	0	5,048	33	1,359	12	0	1,371	0	1,617	0	0	
1978	4,043	0	4,043	22	2,801	24	0	2,825	0	1,666	0	0	
1979	4,381	0	4,381	40	1,442	50	0	1,492	0	1,716	0	0	
1980	**4,064**	**0**	**4,064**	**28**	**2,431**	**22**	**0**	**2,453**	**0**	**2,372**	**0**	**0**	
1981	4,877	0	4,877	44	221	24	0	245	0	1,729	0	0	
1982	6,403	0	6,403	16	204	37	0	241	0	1,420	0	0	
1983	6,115	0	6,115	10	24	44	0	68	0	4,094	0	0	
1984	6,811	0	6,811	9	21	41	0	62	0	5,613	0	0	
1985	**5,427**	**0**	**5,427**	**8**	**51**	**54**	**0**	**104**	**0**	**4,374**	**0**	**0**	
1986	7,086	0	7,086	7	501	26	0	527	0	4,584	0	0	
1987	6,807	0	6,807	7	424	35	0	459	0	2,545	0	0	
1988	8,153	0	8,153	11	875	69	0	945	0	2,091	0	0	
1989	7,487	0	7,487	23	601	68	0	669	0	1,931	0	0	
					Trillion Btu								
1960	**0.0**	**0.0**	**0.0**	**6.6**	**0.3**	*****	**0.0**	**0.3**	**0.0**	**21.2**	**0.0**	**0.0**	**28.0**
1961	0.0	0.0	0.0	9.3	0.1	*	0.0	0.1	0.0	18.6	0.0	0.0	28.1
1962	0.0	0.0	0.0	10.6	0.2	*	0.0	0.2	0.0	20.8	0.0	0.0	31.6
1963	0.0	0.0	0.0	10.3	0.4	0.1	0.0	0.4	0.0	18.9	0.0	0.0	29.6
1964	0.0	0.0	0.0	13.4	0.3	*	0.0	0.3	0.0	16.9	0.0	0.0	30.7
1965	**4.6**	**0.0**	**4.6**	**14.1**	**0.3**	*****	**0.0**	**0.4**	**0.0**	**16.7**	**0.0**	**0.0**	**35.7**
1966	7.7	0.0	7.7	17.4	0.3	*	0.0	0.3	0.0	18.8	0.0	0.0	44.2
1967	8.2	0.0	8.2	17.3	0.4	0.1	0.0	0.5	0.0	18.1	0.0	0.0	44.1
1968	13.6	0.0	13.6	16.8	0.4	0.1	0.0	0.4	0.0	18.2	0.0	0.0	49.0
1969	15.8	0.0	15.8	21.0	0.3	0.1	0.0	0.4	0.0	17.8	0.0	0.0	54.9
1970	**14.0**	**0.0**	**14.0**	**27.4**	**0.5**	**0.1**	**0.0**	**0.6**	**0.0**	**17.3**	**0.0**	**0.0**	**59.2**
1971	32.9	0.0	32.9	40.6	0.8	0.1	0.0	0.9	0.0	17.6	0.0	0.0	91.9
1972	80.4	0.0	80.4	42.9	0.7	0.1	0.0	0.8	0.0	16.2	0.0	0.0	140.4
1973	86.7	0.0	86.7	43.3	1.8	0.1	0.0	1.9	0.0	17.3	0.0	0.0	149.2
1974	97.2	0.0	97.2	32.8	4.4	0.2	0.0	4.5	0.0	16.7	0.0	0.0	151.3
1975	**99.3**	**0.0**	**99.3**	**26.8**	**7.9**	**0.3**	**0.0**	**8.2**	**0.0**	**17.6**	**0.0**	**0.0**	**151.9**
1976	107.8	0.0	107.8	26.8	3.8	0.3	0.0	4.1	0.0	16.1	0.0	0.0	154.9
1977	111.8	0.0	111.8	34.9	8.5	0.1	0.0	8.6	0.0	16.9	0.0	0.0	172.2
1978	89.2	0.0	89.2	23.4	17.6	0.1	0.0	17.8	0.0	17.3	0.0	0.0	147.6
1979	96.8	0.0	96.8	42.4	9.1	0.3	0.0	9.4	0.0	17.8	0.0	0.0	166.3
1980	**89.7**	**0.0**	**89.7**	**29.5**	**15.3**	**0.1**	**0.0**	**15.4**	**0.0**	**24.6**	**0.0**	**0.0**	**159.3**
1981	107.6	0.0	107.6	47.6	1.4	0.1	0.0	1.5	0.0	18.1	0.0	0.0	174.8
1982	141.5	0.0	141.5	16.8	1.3	0.2	0.0	1.5	0.0	14.8	0.0	0.0	174.6
1983	136.2	0.0	136.2	10.2	0.1	0.3	0.0	0.4	0.0	43.1	0.0	0.0	189.9
1984	152.4	0.0	152.4	10.0	0.1	0.2	0.0	0.4	0.0	57.9	0.0	0.0	220.7
1985	**123.6**	**0.0**	**123.6**	**8.6**	**0.3**	**0.3**	**0.0**	**0.6**	**0.0**	**45.2**	**0.0**	**0.0**	**178.0**
1986	159.1	0.0	159.1	6.9	3.1	0.2	0.0	3.3	0.0	47.0	0.0	0.0	216.3
1987	152.2	0.0	152.2	7.3	2.7	0.2	0.0	2.9	0.0	26.1	0.0	0.0	188.5
1988	180.7	0.0	180.7	10.9	5.5	0.4	0.0	5.9	0.0	21.4	0.0	0.0	218.9
1989	166.5	0.0	166.5	23.8	3.8	0.4	0.0	4.2	0.0	19.9	0.0	0.0	214.4

[1] Includes supplemental gaseous fuels.
[2] *Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.*
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 189. Energy Consumption Estimates by Source, 1960–1989, New Hampshire

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**216**	**3**	**470**	**18**	**4,590**	**1,151**	**843**	**532**	**97**	**4,940**	**2,195**	**64**	**14,898**	**0**	**1,373**	**0**	**0**	**-1,500**	
1961	472	3	355	21	5,582	1,169	926	490	94	4,994	2,070	64	15,765	0	1,189	0	0	-2,080	
1962	473	3	398	50	5,919	1,258	933	565	85	5,182	2,449	59	16,897	0	1,358	0	0	-2,185	
1963	436	4	494	30	6,377	1,292	925	526	85	5,373	2,450	65	17,616	0	1,289	0	0	-1,427	
1964	442	4	591	38	5,831	1,327	722	612	89	5,520	2,526	63	17,321	0	1,152	0	0	-965	
1965	**407**	**4**	**424**	**46**	**5,912**	**1,097**	**758**	**657**	**84**	**5,773**	**2,416**	**65**	**17,231**	**0**	**1,053**	**0**	**0**	**-692**	
1966	360	4	496	44	6,071	1,148	673	548	87	6,191	3,831	144	19,233	0	1,227	0	0	-533	
1967	375	4	371	36	6,829	1,282	596	607	75	6,484	3,535	155	19,970	0	1,202	0	0	-408	
1968	814	4	504	43	7,227	1,451	673	719	83	7,106	2,882	173	20,860	0	1,205	0	0	-2,490	
1969	984	6	390	41	7,605	1,245	725	783	71	7,533	4,550	177	23,120	0	1,439	0	0	-4,155	
1970	**992**	**7**	**541**	**38**	**7,681**	**1,053**	**777**	**829**	**72**	**8,122**	**5,520**	**179**	**24,812**	**0**	**1,239**	**0**	**0**	**-3,659**	
1971	949	8	615	48	8,093	1,086	765	918	77	8,577	6,086	93	26,357	0	1,093	0	0	-1,716	
1972	1,129	8	697	44	8,393	1,058	706	1,144	82	9,032	5,928	97	27,180	0	1,270	0	0	-1,605	
1973	1,055	8	826	43	8,418	960	493	1,155	79	9,317	5,363	122	26,777	0	1,613	0	0	-186	
1974	946	8	567	41	7,756	968	480	1,161	75	9,218	4,346	302	24,914	0	1,465	0	0	1,603	
1975	**982**	**8**	**431**	**33**	**7,194**	**916**	**463**	**1,436**	**70**	**9,373**	**4,611**	**225**	**24,751**	**0**	**1,251**	**0**	**0**	**1,442**	
1976	756	8	487	30	8,833	876	534	1,622	78	9,917	5,960	420	28,758	0	1,515	0	0	2,335	
1977	994	8	434	37	8,349	919	439	1,893	83	10,312	5,782	447	28,694	0	1,404	0	0	2,027	
1978	784	8	456	44	8,474	841	407	1,817	89	10,531	5,572	469	28,700	0	1,131	0	0	4,572	
1979	1,083	8	426	40	5,856	774	236	1,379	94	9,787	5,781	498	24,871	0	1,212	0	0	726	
1980	**1,093**	**9**	**253**	**40**	**5,820**	**777**	**340**	**1,280**	**83**	**9,382**	**5,692**	**505**	**24,174**	**0**	**1,027**	**0**	**0**	**1,383**	
1981	900	10	350	30	5,301	585	215	1,216	80	9,256	4,919	275	22,227	0	1,361	0	0	2,443	
1982	1,028	10	368	25	5,072	637	248	1,318	73	9,151	3,837	213	20,942	0	1,250	0	0	4,743	
1983	1,091	10	391	26	4,516	574	225	1,325	76	9,405	3,843	209	20,592	0	1,353	0	0	4,563	
1984	1,263	11	968	20	4,794	820	166	1,191	81	10,035	4,529	217	22,822	0	1,255	0	0	3,408	
1985	**1,481**	**11**	**854**	**24**	**5,243**	**521**	**409**	**1,541**	**76**	**10,337**	**3,104**	**219**	**22,328**	**0**	**2,023**	**0**	**0**	**3,468**	
1986	933	10	553	38	5,781	620	193	1,697	74	11,130	6,204	218	26,507	0	2,091	0	0	4,455	
1987	1,176	12	779	28	7,541	644	267	1,966	84	11,819	5,051	228	28,406	0	2,163	0	0	5,686	
1988	1,229	13	430	37	6,804	725	227	2,163	81	12,337	5,993	236	29,032	0	1,844	0	0	5,275	
1989	1,183	14	742	33	7,559	759	263	2,609	83	12,279	5,576	232	30,134	0	1,428	0	0	7,070	
													Trillion Btu						
1960	**5.4**	**3.0**	**3.1**	**0.1**	**26.7**	**6.2**	**4.8**	**2.1**	**0.6**	**25.9**	**13.8**	**0.4**	**83.7**	**0.0**	**14.8**	**0.0**	**0.0**	**-5.1**	**101.7**
1961	12.3	3.1	2.4	0.1	32.5	6.3	5.2	2.0	0.6	26.2	13.0	0.4	88.6	0.0	12.7	0.0	0.0	-7.1	109.6
1962	12.3	3.4	2.6	0.3	34.5	6.7	5.3	2.3	0.5	27.2	15.4	0.3	95.1	0.0	14.3	0.0	0.0	-7.5	117.8
1963	11.5	3.6	3.3	0.2	37.1	6.9	5.2	2.1	0.5	28.2	15.4	0.4	99.3	0.0	13.5	0.0	0.0	-4.9	123.1
1964	11.8	3.8	3.9	0.2	34.0	7.1	4.1	2.5	0.5	29.0	15.9	0.4	97.5	0.0	12.1	0.0	0.0	-3.3	121.8
1965	**11.2**	**4.1**	**2.8**	**0.2**	**34.4**	**5.9**	**4.3**	**2.6**	**0.5**	**30.3**	**15.2**	**0.4**	**96.7**	**0.0**	**11.0**	**0.0**	**0.0**	**-2.4**	**120.6**
1966	9.7	4.2	3.3	0.2	35.4	6.2	3.8	2.2	0.5	32.5	24.1	0.8	109.0	0.0	12.8	0.0	0.0	-1.8	133.8
1967	10.2	4.5	2.5	0.2	39.8	6.9	3.4	2.3	0.5	34.1	22.2	0.9	112.6	0.0	12.5	0.0	0.0	-1.4	138.5
1968	22.3	4.2	3.3	0.2	42.1	7.8	3.8	2.7	0.5	37.3	18.1	1.0	116.9	0.0	12.5	0.0	0.0	-8.5	147.4
1969	27.0	5.8	2.6	0.2	44.3	6.7	4.1	3.0	0.4	39.6	28.6	1.0	130.4	0.0	15.0	0.0	0.0	-14.2	164.1
1970	**27.1**	**6.8**	**3.6**	**0.2**	**44.7**	**5.7**	**4.4**	**3.1**	**0.4**	**42.7**	**34.7**	**1.0**	**140.5**	**0.0**	**13.0**	**0.0**	**0.0**	**-12.5**	**175.0**
1971	25.5	7.7	4.1	0.2	47.1	5.8	4.3	3.5	0.5	45.1	38.3	0.5	149.4	0.0	11.5	0.0	0.0	-5.9	188.1
1972	30.6	8.0	4.6	0.2	48.9	5.7	4.0	4.3	0.5	47.4	37.3	0.5	153.5	0.0	13.2	0.0	0.0	-5.5	199.8
1973	28.3	8.1	5.5	0.2	49.0	5.2	2.8	4.3	0.5	48.9	33.7	0.7	150.8	0.0	16.8	0.0	0.0	-0.6	203.4
1974	25.3	8.4	3.8	0.2	45.2	5.2	2.7	4.3	0.5	48.4	27.3	1.8	139.4	0.0	15.3	0.0	0.0	5.5	193.8
1975	**26.2**	**7.7**	**2.9**	**0.2**	**41.9**	**4.9**	**2.6**	**5.3**	**0.4**	**49.2**	**29.0**	**1.3**	**137.8**	**0.0**	**13.0**	**0.0**	**0.0**	**4.9**	**189.6**
1976	20.3	7.9	3.2	0.2	51.4	4.7	3.0	6.0	0.5	52.1	37.5	2.4	161.0	0.0	15.7	0.0	0.0	8.0	213.0
1977	26.5	7.6	2.9	0.2	48.6	4.9	2.5	7.0	0.5	54.2	36.3	2.6	159.7	0.0	14.7	0.0	0.0	6.9	215.3
1978	20.4	8.2	3.0	0.2	49.4	4.5	2.3	6.7	0.5	55.3	35.0	2.7	159.7	0.0	11.7	0.0	0.0	15.6	215.6
1979	29.1	8.7	2.8	0.2	34.1	4.2	1.3	5.1	0.6	51.4	36.3	2.8	138.9	0.0	12.5	0.0	0.0	2.5	191.7
1980	**29.3**	**9.7**	**1.7**	**0.2**	**33.9**	**4.2**	**1.9**	**4.7**	**0.5**	**49.3**	**35.8**	**2.9**	**135.0**	**0.0**	**10.7**	**0.0**	**0.0**	**4.7**	**189.4**
1981	24.2	10.4	2.3	0.1	30.9	3.1	1.2	4.4	0.5	48.6	30.9	1.5	123.7	0.0	14.2	0.0	0.0	8.3	180.9
1982	27.6	10.3	2.4	0.1	29.5	3.4	1.4	4.8	0.4	48.1	24.1	1.2	115.5	0.0	13.1	0.0	0.0	16.2	182.7
1983	29.4	9.9	2.6	0.1	26.3	3.1	1.3	4.8	0.5	49.4	24.2	1.2	113.4	0.0	14.2	0.0	0.0	15.6	182.4
1984	34.1	10.8	6.4	0.1	27.9	4.5	0.9	4.3	0.5	52.7	28.5	1.2	127.0	0.0	13.0	0.0	0.0	11.6	196.5
1985	**39.7**	**10.9**	**5.7**	**0.1**	**30.5**	**2.8**	**2.3**	**5.6**	**0.5**	**54.3**	**19.5**	**1.2**	**122.5**	**0.0**	**20.9**	**0.0**	**0.0**	**11.8**	**205.9**
1986	25.1	10.6	3.7	0.2	33.7	3.3	1.1	6.2	0.4	58.5	39.0	1.2	147.3	0.0	21.5	0.0	0.0	15.2	219.5
1987	31.6	12.3	5.2	0.1	43.9	3.5	1.5	7.2	0.5	62.1	31.8	1.3	157.0	0.0	22.2	0.0	0.0	19.4	242.5
1988	32.8	13.3	2.9	0.2	39.6	3.9	1.3	7.9	0.5	64.8	37.7	1.3	160.1	0.0	18.9	0.0	0.0	18.0	243.0
1989	31.6	14.2	4.9	0.2	44.0	4.1	1.5	9.6	0.5	64.5	35.1	1.3	165.7	0.0	14.8	0.0	0.0	24.1	250.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 190. Residential Energy Consumption Estimates, 1960-1989, New Hampshire

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**0**	**12**	**12**	**2**	**3,622**	**803**	**412**	**4,837**	**619**	**1,540**
1961	0	11	11	2	4,455	890	365	5,710	662	1,613
1962	0	10	10	2	4,762	881	421	6,064	708	1,702
1963	0	9	9	2	5,181	878	381	6,441	751	1,795
1964	0	9	9	3	4,633	679	444	5,757	802	1,909
1965	**0**	**8**	**8**	**3**	**4,724**	**710**	**460**	**5,894**	**868**	**2,072**
1966	0	7	7	2	4,714	606	366	5,687	931	2,235
1967	0	6	6	3	5,294	547	378	6,219	1,051	2,511
1968	0	6	6	3	5,769	606	404	6,780	1,168	2,786
1969	0	5	5	3	6,039	644	482	7,165	1,308	3,124
1970	**0**	**5**	**5**	**4**	**6,039**	**705**	**474**	**7,218**	**1,476**	**3,577**
1971	0	5	5	4	6,378	690	512	7,580	1,666	4,029
1972	0	3	3	4	6,631	629	607	7,866	1,910	4,597
1973	0	3	3	4	6,643	452	589	7,685	2,065	4,944
1974	0	3	3	4	6,094	441	561	7,096	2,118	5,165
1975	**0**	**3**	**3**	**4**	**5,709**	**406**	**692**	**6,807**	**2,148**	**5,181**
1976	0	2	2	4	7,054	468	737	8,258	2,321	5,591
1977	0	2	2	4	6,620	394	752	7,767	2,345	5,663
1978	0	2	2	4	6,687	364	871	7,922	2,421	5,923
1979	0	1	1	4	4,314	216	559	5,089	2,464	5,946
1980	**0**	**2**	**2**	**4**	**3,519**	**322**	**588**	**4,430**	**2,478**	**6,026**
1981	0	4	4	4	3,477	206	587	4,269	2,481	5,913
1982	0	7	7	5	3,223	234	597	4,053	2,460	5,910
1983	*	8	8	4	3,023	217	710	3,950	2,514	6,022
1984	0	7	7	5	3,101	160	787	4,048	2,758	6,403
1985	**0**	**5**	**5**	**5**	**3,241**	**387**	**881**	**4,509**	**2,851**	**6,685**
1986	0	7	7	5	3,239	179	1,072	4,490	3,075	7,049
1987	0	6	6	6	3,943	231	1,196	5,370	3,261	7,433
1988	0	7	7	6	3,692	202	1,407	5,301	3,464	7,822
1989	*	4	5	6	4,308	229	1,711	6,248	3,542	7,946

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**31.5**	**36.7**
1961	37.0	42.5
1962	39.3	45.1
1963	41.8	47.9
1964	38.1	44.6
1965	**39.2**	**46.3**
1966	38.1	45.7
1967	41.9	50.5
1968	45.2	54.7
1969	48.7	59.4
1970	**49.8**	**62.0**
1971	52.7	66.5
1972	55.3	71.0
1973	54.8	71.7
1974	51.7	69.4
1975	**49.3**	**67.0**
1976	58.6	77.7
1977	55.5	74.8
1978	56.5	76.7
1979	40.7	61.0
1980	**37.4**	**58.0**
1981	36.7	56.9
1982	35.4	55.6
1983	34.6	55.1
1984	36.1	58.0
1985	**38.9**	**61.7**
1986	39.7	63.7
1987	45.7	71.1
1988	45.9	72.5
1989	51.3	78.4

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Trillion Btu									
1960	**0.0**	**0.3**	**0.3**	**1.8**	**21.1**	**4.6**	**1.7**	**27.3**	**2.1**	**5.3**
1961	0.0	0.3	0.3	2.0	25.9	5.0	1.5	32.5	2.3	5.5
1962	0.0	0.2	0.2	2.2	27.7	5.0	1.7	34.4	2.4	5.8
1963	0.0	0.2	0.2	2.3	30.2	5.0	1.5	36.7	2.6	6.1
1964	0.0	0.2	0.2	2.5	27.0	3.9	1.8	32.6	2.7	6.5
1965	**0.0**	**0.2**	**0.2**	**2.7**	**27.5**	**4.0**	**1.8**	**33.4**	**3.0**	**7.1**
1966	0.0	0.2	0.2	2.4	27.5	3.4	1.5	32.4	3.2	7.6
1967	0.0	0.1	0.1	2.8	30.8	3.1	1.5	35.4	3.6	8.6
1968	0.0	0.1	0.1	2.5	33.6	3.4	1.5	38.6	4.0	9.5
1969	0.0	0.1	0.1	3.5	35.2	3.7	1.8	40.7	4.5	10.7
1970	**0.0**	**0.1**	**0.1**	**3.7**	**35.2**	**4.0**	**1.8**	**41.0**	**5.0**	**12.2**
1971	0.0	0.1	0.1	4.0	37.2	3.9	1.9	43.0	5.7	13.7
1972	0.0	0.1	0.1	4.3	38.6	3.6	2.3	44.5	6.5	15.7
1973	0.0	0.1	0.1	4.3	38.7	2.6	2.2	43.5	7.0	16.9
1974	0.0	0.1	0.1	4.4	35.5	2.5	2.1	40.1	7.2	17.6
1975	**0.0**	**0.1**	**0.1**	**3.8**	**33.3**	**2.3**	**2.6**	**38.1**	**7.3**	**17.7**
1976	0.0	0.1	0.1	4.1	41.1	2.7	2.7	46.5	7.9	19.1
1977	0.0	0.1	0.1	3.8	38.6	2.2	2.8	43.6	8.0	19.3
1978	0.0	*	*	4.0	39.0	2.1	3.2	44.2	8.3	20.2
1979	0.0	*	*	3.9	25.1	1.2	2.1	28.4	8.4	20.3
1980	**0.0**	*	*	**4.4**	**20.5**	**1.8**	**2.2**	**24.5**	**8.5**	**20.6**
1981	0.0	0.1	0.1	4.6	20.3	1.2	2.1	23.6	8.5	20.2
1982	0.0	0.2	0.2	4.6	18.8	1.3	2.2	22.3	8.4	20.2
1983	*	0.2	0.2	4.4	17.6	1.2	2.6	21.4	8.6	20.5
1984	0.0	0.2	0.2	4.7	18.1	0.9	2.8	21.8	9.4	21.8
1985	**0.0**	**0.1**	**0.1**	**4.8**	**18.9**	**2.2**	**3.2**	**24.2**	**9.7**	**22.8**
1986	0.0	0.2	0.2	5.2	18.9	1.0	3.9	23.8	10.5	24.1
1987	0.0	0.2	0.2	5.8	23.0	1.3	4.4	28.7	11.1	25.4
1988	0.0	0.2	0.2	6.1	21.5	1.1	5.1	27.8	11.8	26.7
1989	*	0.1	0.1	6.4	25.1	1.3	6.3	32.7	12.1	27.1

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**31.5**	**36.7**
1961	37.0	42.5
1962	39.3	45.1
1963	41.8	47.9
1964	38.1	44.6
1965	**39.2**	**46.3**
1966	38.1	45.7
1967	41.9	50.5
1968	45.2	54.7
1969	48.7	59.4
1970	**49.8**	**62.0**
1971	52.7	66.5
1972	55.3	71.0
1973	54.8	71.7
1974	51.7	69.4
1975	**49.3**	**67.0**
1976	58.6	77.7
1977	55.5	74.8
1978	56.5	76.7
1979	40.7	61.0
1980	**37.4**	**58.0**
1981	36.7	56.9
1982	35.4	55.6
1983	34.6	55.1
1984	36.1	58.0
1985	**38.9**	**61.7**
1986	39.7	63.7
1987	45.7	71.1
1988	45.9	72.5
1989	51.3	78.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 191. Commercial Energy Consumption Estimates, 1960-1989, New Hampshire

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**0**	**8**	**8**	**1**	**376**	**30**	**73**	**37**	**18**	**534**	**371**	**922**		
1961	0	8	8	1	463	33	64	41	20	621	399	973		
1962	0	7	7	1	495	33	74	44	33	679	427	1,026		
1963	0	6	6	1	538	33	67	44	34	716	454	1,085		
1964	0	6	6	1	481	25	78	42	37	664	481	1,146		
1965	**0**	**5**	**5**	**1**	**491**	**26**	**81**	**43**	**26**	**667**	**468**	**1,117**		
1966	0	4	4	1	490	22	65	46	56	679	474	1,136		
1967	0	4	4	1	550	20	67	47	30	714	549	1,311		
1968	0	4	4	1	600	22	71	49	25	768	588	1,404		
1969	0	3	3	2	628	24	85	59	60	856	636	1,519		
1970	**0**	**3**	**3**	**2**	**628**	**26**	**84**	**46**	**71**	**854**	**699**	**1,694**		
1971	0	3	3	3	663	26	90	47	84	910	769	1,859		
1972	0	2	2	3	689	23	107	49	89	958	841	2,023		
1973	0	2	2	2	690	17	104	50	81	942	910	2,180		
1974	0	2	2	2	633	16	99	49	60	857	884	2,157		
1975	**0**	**2**	**2**	**3**	**593**	**15**	**122**	**52**	**56**	**839**	**883**	**2,131**		
1976	0	2	2	3	733	17	130	53	70	1,004	925	2,229		
1977	0	2	2	3	688	15	133	54	72	961	977	2,359		
1978	0	1	1	3	695	13	154	58	50	970	1,038	2,539		
1979	0	1	1	3	448	8	99	56	15	626	1,075	2,594		
1980	**0**	**1**	**1**	**4**	**1,044**	**9**	**104**	**116**	**372**	**1,645**	**1,110**	**2,699**		
1981	0	3	3	4	533	4	104	91	469	1,200	1,182	2,817		
1982	0	4	4	4	591	8	105	76	626	1,407	1,223	2,938		
1983	1	5	6	4	404	5	125	67	310	911	1,342	3,216		
1984	0	5	5	4	415	4	139	67	300	925	1,484	3,447		
1985	**0**	**3**	**3**	**5**	**550**	**19**	**155**	**126**	**60**	**911**	**1,582**	**3,711**		
1986	0	5	5	4	897	10	189	146	330	1,573	1,718	3,940		
1987	0	4	4	5	1,675	21	211	129	198	2,234	1,910	4,352		
1988	0	4	4	5	1,153	20	248	142	358	1,922	2,046	4,620		
1989	1	3	3	5	1,186	26	302	128	209	1,852	2,123	4,763		
							Trillion Btu							
1960	**0.0**	**0.2**	**0.2**	**0.5**	**2.2**	**0.2**	**0.3**	**0.2**	**0.1**	**3.0**	**1.3**	**4.9**	**3.1**	**8.1**
1961	0.0	0.2	0.2	0.5	2.7	0.2	0.3	0.2	0.1	3.5	1.4	5.6	3.3	8.9
1962	0.0	0.2	0.2	0.7	2.9	0.2	0.3	0.2	0.2	3.8	1.5	6.1	3.5	9.6
1963	0.0	0.1	0.1	0.7	3.1	0.2	0.3	0.2	0.2	4.0	1.5	6.4	3.7	10.1
1964	0.0	0.1	0.1	0.7	2.8	0.1	0.3	0.2	0.2	3.7	1.6	6.2	3.9	10.1
1965	**0.0**	**0.1**	**0.1**	**0.8**	**2.9**	**0.1**	**0.3**	**0.2**	**0.2**	**3.7**	**1.6**	**6.3**	**3.8**	**10.1**
1966	0.0	0.1	0.1	0.9	2.9	0.1	0.3	0.2	0.4	3.8	1.6	6.5	3.9	10.4
1967	0.0	0.1	0.1	1.4	3.2	0.1	0.3	0.2	0.2	4.0	1.9	7.4	4.5	11.8
1968	0.0	0.1	0.1	1.2	3.5	0.1	0.3	0.3	0.2	4.3	2.0	7.6	4.8	12.4
1969	0.0	0.1	0.1	1.7	3.7	0.1	0.3	0.3	0.4	4.8	2.2	8.7	5.2	13.9
1970	**0.0**	**0.1**	**0.1**	**2.3**	**3.7**	**0.1**	**0.3**	**0.2**	**0.4**	**4.8**	**2.4**	**9.5**	**5.8**	**15.3**
1971	0.0	0.1	0.1	2.5	3.9	0.1	0.3	0.2	0.5	5.1	2.6	10.4	6.3	16.7
1972	0.0	0.1	0.1	2.6	4.0	0.1	0.4	0.3	0.6	5.4	2.9	10.9	6.9	17.8
1973	0.0	0.1	0.1	2.3	4.0	0.1	0.4	0.3	0.5	5.3	3.1	10.8	7.4	18.2
1974	0.0	*	*	2.4	3.7	0.1	0.4	0.3	0.4	4.8	3.0	10.3	7.4	17.6
1975	**0.0**	*	*	**2.6**	**3.5**	**0.1**	**0.5**	**0.3**	**0.4**	**4.6**	**3.0**	**10.3**	**7.3**	**17.6**
1976	0.0	*	*	2.6	4.3	0.1	0.5	0.3	0.4	5.6	3.2	11.4	7.6	19.0
1977	0.0	*	*	2.6	4.0	0.1	0.5	0.3	0.5	5.3	3.3	11.3	8.0	19.3
1978	0.0	*	*	3.0	4.0	0.1	0.6	0.3	0.3	5.3	3.5	11.9	8.7	20.6
1979	0.0	*	*	3.5	2.6	*	0.4	0.3	0.1	3.4	3.7	10.6	8.9	19.5
1980	**0.0**	*	*	**4.2**	**6.1**	**0.1**	**0.4**	**0.6**	**2.3**	**9.5**	**3.8**	**17.5**	**9.2**	**26.7**
1981	0.0	0.1	0.1	4.5	3.1	*	0.4	0.5	3.0	6.9	4.0	15.5	9.6	25.1
1982	0.0	0.1	0.1	4.5	3.4	*	0.4	0.4	3.9	8.2	4.2	17.0	10.0	27.0
1983	*	0.1	0.1	4.5	2.4	*	0.5	0.3	1.9	5.1	4.6	14.4	11.0	25.4
1984	0.0	0.1	0.1	4.2	2.4	*	0.5	0.4	1.9	5.2	5.1	14.6	11.8	26.3
1985	**0.0**	**0.1**	**0.1**	**5.1**	**3.2**	**0.1**	**0.6**	**0.7**	**0.4**	**4.9**	**5.4**	**15.5**	**12.7**	**28.1**
1986	0.0	0.1	0.1	4.6	5.2	0.1	0.7	0.8	2.1	8.8	5.9	19.4	13.4	32.8
1987	0.0	0.1	0.1	4.7	9.8	0.1	0.8	0.7	1.2	12.6	6.5	23.9	14.8	38.8
1988	0.0	0.1	0.1	5.2	6.7	0.1	0.9	0.7	2.3	10.7	7.0	23.0	15.8	38.8
1989	*	0.1	0.1	5.5	6.9	0.2	1.1	0.7	1.3	10.2	7.2	23.0	16.3	39.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 192. Industrial Energy Consumption Estimates, 1960–1989, New Hampshire

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**96**	**4**	**100**	**1**	**470**	**280**	**10**	**47**	**22**	**66**	**727**	**64**	**1,686**	**239**	**596**	**1,483**
1961	98	3	102	1	355	367	3	60	22	57	800	64	1,727	203	625	1,523
1962	89	3	92	1	398	374	19	69	21	79	1,348	59	2,368	212	675	1,622
1963	58	4	62	1	494	408	14	77	21	52	1,365	65	2,496	234	734	1,754
1964	34	4	38	1	591	375	18	88	22	52	1,491	63	2,700	184	799	1,903
1965	**32**	**4**	**36**	**1**	**424**	**421**	**22**	**114**	**24**	**53**	**1,046**	**65**	**2,168**	**170**	**902**	**2,152**
1966	31	3	34	1	496	420	44	116	24	55	2,251	144	3,550	186	995	2,387
1967	24	3	27	*	371	474	28	161	19	44	1,377	155	2,629	180	1,082	2,584
1968	21	3	24	*	504	493	44	240	21	40	1,037	173	2,552	177	1,273	3,036
1969	21	2	23	1	390	521	57	213	17	31	2,428	177	3,834	180	1,367	3,265
1970	**8**	**2**	**9**	**1**	**541**	**511**	**46**	**267**	**17**	**38**	**2,842**	**179**	**4,442**	**184**	**1,452**	**3,519**
1971	10	1	11	1	615	575	49	310	20	34	3,366	93	5,062	164	1,562	3,775
1972	4	1	5	1	697	584	54	424	21	37	3,580	97	5,494	176	1,693	4,076
1973	4	1	5	1	826	560	24	456	18	27	3,248	122	5,282	179	1,845	4,416
1974	9	1	10	1	567	486	23	495	18	40	2,398	302	4,329	173	1,806	4,403
1975	**5**	**1**	**6**	**1**	**431**	**460**	**42**	**617**	**22**	**31**	**2,266**	**225**	**4,092**	**178**	**1,839**	**4,436**
1976	0	1	1	1	487	528	49	749	24	29	2,830	420	5,117	185	2,025	4,877
1977	31	1	32	1	434	507	30	1,000	23	26	2,880	447	5,347	188	2,092	5,052
1978	1	1	2	1	456	492	30	767	25	22	2,023	469	4,284	166	2,317	5,669
1979	1	1	2	1	426	410	12	686	26	17	597	498	2,671	162	2,427	5,857
1980	**9**	**1**	**10**	**1**	**253**	**558**	**9**	**514**	**23**	**27**	**923**	**505**	**2,812**	**155**	**2,406**	**5,851**
1981	2	1	3	1	350	571	5	516	22	18	417	275	2,174	155	2,421	5,770
1982	57	1	58	1	368	489	6	607	20	19	589	213	2,311	155	2,345	5,632
1983	58	0	58	1	391	270	3	480	21	21	874	209	2,270	155	2,414	5,783
1984	53	0	53	2	968	277	2	247	23	31	848	217	2,612	155	2,545	5,909
1985	**39**	**1**	**40**	**1**	**854**	**384**	**3**	**486**	**21**	**61**	**712**	**219**	**2,740**	**155**	**2,974**	**6,974**
1986	2	2	4	1	553	341	4	423	21	67	1,249	218	2,876	155	3,079	7,060
1987	2	1	3	2	779	534	15	543	23	64	1,011	228	3,197	155	3,202	7,298
1988	0	1	1	2	430	497	5	496	23	68	667	236	2,420	155	3,339	7,540
1989	14	1	15	2	742	539	7	585	23	91	269	232	2,488	155	3,420	7,671

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Total[4]
	Trillion Btu																
1960	**2.4**	**0.1**	**2.5**	**0.7**	**3.1**	**1.6**	**0.1**	**0.2**	**0.1**	**0.3**	**4.6**	**0.4**	**10.4**	**2.6**	**2.0**	**18.1**	**5.1**	**23.2**
1961	2.4	0.1	2.5	0.6	2.4	2.1	*	0.2	0.1	0.3	5.0	0.4	10.6	2.2	2.1	18.0	5.2	23.2
1962	2.2	0.1	2.2	0.5	2.6	2.2	0.1	0.3	0.1	0.4	8.5	0.3	14.6	2.2	2.3	21.9	5.5	27.4
1963	1.4	0.1	1.5	0.6	3.3	2.4	0.1	0.3	0.1	0.3	8.6	0.4	15.4	2.5	2.5	22.5	6.0	28.4
1964	0.8	0.1	0.9	0.6	3.9	2.2	0.1	0.4	0.1	0.3	9.4	0.4	16.7	1.9	2.7	22.8	6.5	29.3
1965	**0.8**	**0.1**	**0.9**	**0.7**	**2.8**	**2.5**	**0.1**	**0.5**	**0.1**	**0.3**	**6.6**	**0.4**	**13.2**	**1.8**	**3.1**	**19.6**	**7.3**	**26.9**
1966	0.7	0.1	0.8	0.9	3.3	2.4	0.3	0.5	0.1	0.3	14.2	0.8	21.8	1.9	3.4	28.9	8.1	37.0
1967	0.6	0.1	0.6	0.3	2.5	2.8	0.2	0.6	0.1	0.2	8.7	0.9	15.9	1.9	3.7	22.4	8.8	31.2
1968	0.5	0.1	0.6	0.5	3.3	2.9	0.2	0.9	0.1	0.2	6.5	1.0	15.2	1.8	4.3	22.5	10.4	32.8
1969	0.5	*	0.5	0.7	2.6	3.0	0.3	0.8	0.1	0.2	15.3	1.0	23.3	1.9	4.7	31.1	11.1	42.2
1970	**0.2**	*	**0.2**	**0.8**	**3.6**	**3.0**	**0.3**	**1.0**	**0.1**	**0.2**	**17.9**	**1.0**	**27.0**	**1.9**	**5.0**	**34.9**	**12.0**	**46.9**
1971	0.2	*	0.3	1.0	4.1	3.4	0.3	1.2	0.1	0.2	21.2	0.5	30.9	1.7	5.3	39.1	12.9	52.0
1972	0.1	*	0.1	1.0	4.6	3.4	0.3	1.6	0.1	0.2	22.5	0.5	33.3	1.8	5.8	42.0	13.9	56.0
1973	0.1	*	0.1	1.4	5.5	3.3	0.1	1.7	0.1	0.1	20.4	0.7	31.9	1.9	6.3	41.6	15.1	56.6
1974	0.2	*	0.2	1.3	3.8	2.8	0.1	1.8	0.1	0.2	15.1	1.8	25.7	1.8	6.2	35.2	15.0	50.2
1975	**0.1**	*	**0.1**	**1.1**	**2.9**	**2.7**	**0.2**	**2.3**	**0.1**	**0.2**	**14.2**	**1.3**	**23.9**	**1.9**	**6.3**	**33.3**	**15.1**	**48.4**
1976	0.0	*	*	1.2	3.2	3.1	0.3	2.8	0.1	0.2	17.8	2.4	29.9	1.9	6.9	39.9	16.6	56.5
1977	0.7	*	0.7	1.2	2.9	3.0	0.2	3.7	0.1	0.1	18.1	2.6	30.6	2.0	7.1	41.7	17.2	58.9
1978	*	*	*	1.2	3.0	2.9	0.2	2.8	0.2	0.1	12.7	2.7	24.6	1.7	7.9	35.4	19.3	54.8
1979	*	*	*	1.3	2.8	2.4	0.1	2.5	0.2	0.1	3.8	2.8	14.6	1.7	8.3	25.9	20.0	45.9
1980	**0.2**	*	**0.2**	**1.0**	**1.7**	**3.2**	**0.1**	**1.9**	**0.1**	**0.1**	**5.8**	**2.9**	**15.8**	**1.6**	**8.2**	**26.9**	**20.0**	**46.9**
1981	*	*	0.1	1.2	2.3	3.3	*	1.9	0.1	0.1	2.6	1.5	11.9	1.6	8.3	23.1	19.7	42.8
1982	1.4	*	1.4	1.1	2.4	2.8	*	2.2	0.1	0.1	3.7	1.2	12.6	1.6	8.0	24.7	19.2	43.9
1983	1.4	0.0	1.4	0.9	2.6	1.6	*	1.7	0.1	0.1	5.5	1.2	12.8	1.6	8.2	25.0	19.7	44.7
1984	1.3	0.0	1.3	1.8	6.4	1.6	*	0.9	0.1	0.2	5.3	1.2	15.8	1.6	8.7	29.1	20.2	49.3
1985	**1.0**	*	**1.0**	**0.9**	**5.7**	**2.2**	*	**1.8**	**0.1**	**0.3**	**4.5**	**1.2**	**15.8**	**1.6**	**10.1**	**29.5**	**23.8**	**53.2**
1986	*	*	0.1	0.7	3.7	2.0	*	1.5	0.1	0.4	7.9	1.2	16.7	1.6	10.5	29.7	24.1	53.8
1987	*	*	0.1	1.8	5.2	3.1	0.1	2.0	0.1	0.3	6.4	1.3	18.4	1.6	10.9	32.8	24.9	57.7
1988	0.0	*	*	2.0	2.9	2.9	*	1.8	0.1	0.4	4.2	1.3	13.6	1.6	11.4	28.6	25.7	54.3
1989	0.3	*	0.4	2.3	4.9	3.1	*	2.2	0.1	0.5	1.7	1.3	13.8	1.6	11.7	29.8	26.2	55.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 193. Transportation Energy Consumption Estimates, 1960–1989, New Hampshire

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**2**	**0**	**18**	**209**	**1,151**	*	**74**	**4,837**	**49**	**6,338**	**0**	**0**		
1961	*	0	21	221	1,169	*	72	4,897	206	6,586	0	0		
1962	*	0	50	215	1,258	1	64	5,059	70	6,717	0	0		
1963	*	0	30	177	1,292	1	64	5,277	68	6,909	0	0		
1964	*	0	38	269	1,327	1	67	5,426	0	7,128	0	0		
1965	*	**0**	**46**	**178**	**1,097**	**1**	**60**	**5,677**	**1**	**7,061**	**0**	**0**		
1966	*	0	44	336	1,148	2	63	6,090	0	7,682	0	0		
1967	*	*	36	377	1,282	2	56	6,393	286	8,432	0	0		
1968	*	0	43	242	1,451	4	61	7,017	137	8,955	0	0		
1969	*	0	41	275	1,245	4	54	7,442	113	9,174	0	0		
1970	*	**0**	**38**	**319**	**1,053**	**5**	**55**	**8,038**	**69**	**9,577**	**0**	**0**		
1971	*	0	48	281	1,086	6	57	8,495	36	10,009	0	0		
1972	*	0	44	296	1,023	6	61	8,946	40	10,415	0	0		
1973	*	0	43	436	935	6	60	9,240	20	10,741	0	0		
1974	*	0	41	486	948	5	58	9,129	26	10,693	0	0		
1975	*	**0**	**33**	**418**	**903**	**5**	**48**	**9,290**	**9**	**10,706**	**0**	**0**		
1976	0	0	30	508	866	6	53	9,835	5	11,303	0	0		
1977	*	0	37	530	913	8	60	10,232	0	11,780	0	0		
1978	0	0	44	597	837	25	64	10,451	0	12,018	0	0		
1979	0	0	40	681	771	35	67	9,714	861	12,170	0	0		
1980	**0**	*	**40**	**687**	**771**	**74**	**60**	**9,240**	**49**	**10,921**	**0**	**0**		
1981	0	*	30	705	582	10	58	9,147	49	10,580	0	0		
1982	0	*	25	755	633	9	53	9,056	29	10,559	0	0		
1983	0	*	26	798	574	11	55	9,317	0	10,781	0	0		
1984	0	*	20	972	820	19	59	9,937	0	11,828	0	0		
1985	**0**	*	**24**	**1,038**	**521**	**18**	**55**	**10,149**	**0**	**11,805**	**0**	**0**		
1986	0	*	38	1,269	620	13	53	10,917	90	12,999	0	0		
1987	0	*	28	1,361	644	16	60	11,626	294	14,029	0	0		
1988	0	*	37	1,400	725	11	58	12,126	161	14,519	0	0		
1989	0	*	33	1,464	759	12	60	12,060	24	14,411	0	0		
			Trillion Btu									Net Energy[4]		Total[4]
1960	*	**0.0**	**0.1**	**1.2**	**6.2**	*	**0.5**	**25.4**	**0.3**	**33.6**	**0.0**	**33.7**	**0.0**	**33.7**
1961	*	0.0	0.1	1.3	6.3	*	0.4	25.7	1.3	35.1	0.0	35.1	0.0	35.1
1962	*	0.0	0.3	1.3	6.7	*	0.4	26.6	0.4	35.6	0.0	35.7	0.0	35.7
1963	*	0.0	0.2	1.0	6.9	*	0.4	27.7	0.4	36.6	0.0	36.7	0.0	36.7
1964	*	0.0	0.2	1.6	7.1	*	0.4	28.5	0.0	37.8	0.0	37.8	0.0	37.8
1965	*	**0.0**	**0.2**	**1.0**	**5.9**	*	**0.4**	**29.8**	*	**37.3**	**0.0**	**37.3**	**0.0**	**37.3**
1966	*	0.0	0.2	2.0	6.2	*	0.4	32.0	0.0	40.7	0.0	40.7	0.0	40.7
1967	*	*	0.2	2.2	6.9	*	0.3	33.6	1.8	45.0	0.0	45.0	0.0	45.0
1968	*	0.0	0.2	1.4	7.8	*	0.4	36.9	0.9	47.5	0.0	47.5	0.0	47.5
1969	*	0.0	0.2	1.6	6.7	*	0.3	39.1	0.7	48.6	0.0	48.6	0.0	48.6
1970	*	**0.0**	**0.2**	**1.9**	**5.7**	*	**0.3**	**42.2**	**0.4**	**50.7**	**0.0**	**50.7**	**0.0**	**50.7**
1971	*	0.0	0.2	1.6	5.8	*	0.3	44.6	0.2	52.9	0.0	52.9	0.0	52.9
1972	*	0.0	0.2	1.7	5.5	*	0.4	47.0	0.2	55.1	0.0	55.1	0.0	55.1
1973	*	0.0	0.2	2.5	5.0	*	0.4	48.5	0.1	56.8	0.0	56.8	0.0	56.8
1974	*	0.0	0.2	2.8	5.1	*	0.4	48.0	0.2	56.6	0.0	56.6	0.0	56.6
1975	*	**0.0**	**0.2**	**2.4**	**4.8**	*	**0.3**	**48.8**	**0.1**	**56.6**	**0.0**	**56.6**	**0.0**	**56.6**
1976	0.0	0.0	0.2	3.0	4.7	*	0.3	51.7	*	59.8	0.0	59.8	0.0	59.8
1977	*	0.0	0.2	3.1	4.9	*	0.4	53.8	0.0	62.3	0.0	62.3	0.0	62.3
1978	0.0	0.0	0.2	3.5	4.5	0.1	0.4	54.9	0.0	63.6	0.0	63.6	0.0	63.6
1979	0.0	0.0	0.2	4.0	4.2	0.1	0.4	51.0	5.4	65.3	0.0	65.3	0.0	65.3
1980	**0.0**	*	**0.2**	**4.0**	**4.1**	**0.3**	**0.4**	**48.5**	**0.3**	**57.8**	**0.0**	**57.9**	**0.0**	**57.9**
1981	0.0	0.1	0.1	4.1	3.1	*	0.3	48.1	0.3	56.1	0.0	56.2	0.0	56.2
1982	0.0	0.1	0.1	4.4	3.4	*	0.3	47.6	0.2	56.0	0.0	56.1	0.0	56.1
1983	0.0	*	0.1	4.6	3.1	*	0.3	48.9	0.0	57.2	0.0	57.2	0.0	57.2
1984	0.0	*	0.1	5.7	4.5	0.1	0.4	52.2	0.0	62.9	0.0	62.9	0.0	62.9
1985	**0.0**	**0.1**	**0.1**	**6.0**	**2.8**	**0.1**	**0.3**	**53.3**	**0.0**	**62.7**	**0.0**	**62.8**	**0.0**	**62.8**
1986	0.0	*	0.2	7.4	3.3	*	0.3	57.3	0.6	69.2	0.0	69.2	0.0	69.2
1987	0.0	*	0.1	7.9	3.5	0.1	0.4	61.1	1.9	74.9	0.0	74.9	0.0	74.9
1988	0.0	*	0.2	8.2	3.9	*	0.4	63.7	1.0	77.4	0.0	77.4	0.0	77.4
1989	0.0	*	0.2	8.5	4.1	*	0.4	63.4	0.2	76.7	0.0	76.8	0.0	76.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 194. Estimates of Energy Input at Electric Utilities, 1960–1989, New Hampshire

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**94**	**0**	**94**	**0**	**1,401**	**102**	**0**	**1,504**	**0**	**1,134**	**0**	**0**	
1961	351	0	351	0	1,045	76	0	1,121	0	987	0	0	
1962	364	0	364	0	997	73	0	1,070	0	1,146	0	0	
1963	358	0	358	0	982	72	0	1,054	0	1,056	0	0	
1964	390	0	390	0	998	73	0	1,071	0	968	0	0	
1965	**358**	**0**	**358**	**0**	**1,343**	**98**	**0**	**1,441**	**0**	**882**	**0**	**0**	
1966	315	0	315	0	1,525	111	0	1,636	0	1,041	0	0	
1967	338	0	338	0	1,842	134	0	1,977	0	1,022	0	0	
1968	781	0	781	0	1,682	123	0	1,805	0	1,028	0	0	
1969	953	0	953	0	1,949	142	0	2,092	0	1,259	0	0	
1970	**975**	**0**	**975**	**0**	**2,537**	**184**	**0**	**2,721**	**0**	**1,056**	**0**	**0**	
1971	930	0	930	*	2,601	195	0	2,796	0	929	0	0	
1972	1,118	0	1,118	*	2,219	227	0	2,446	0	1,094	0	0	
1973	1,045	0	1,045	*	2,015	113	0	2,127	0	1,435	0	0	
1974	931	0	931	*	1,863	77	0	1,940	0	1,292	0	0	
1975	**972**	**0**	**972**	*	**2,279**	**27**	**0**	**2,306**	**0**	**1,073**	**0**	**0**	
1976	751	0	751	*	3,055	21	0	3,076	0	1,330	0	0	
1977	959	0	959	*	2,830	10	0	2,840	0	1,216	0	0	
1978	779	0	779	0	3,499	7	0	3,506	0	965	0	0	
1979	1,079	0	1,079	*	4,308	7	0	4,314	0	1,050	0	0	
1980	**1,080**	**0**	**1,080**	**0**	**4,348**	**18**	**0**	**4,366**	**0**	**872**	**0**	**0**	
1981	890	0	890	*	3,984	19	0	4,003	0	1,206	0	0	
1982	959	0	959	0	2,593	19	0	2,612	0	1,095	0	0	
1983	1,019	0	1,019	*	2,659	20	0	2,680	0	1,198	0	0	
1984	1,198	0	1,198	*	3,381	29	0	3,410	0	1,100	0	0	
1985	**1,433**	**0**	**1,433**	**0**	**2,332**	**31**	**0**	**2,363**	**0**	**1,868**	**0**	**0**	
1986	917	0	917	0	4,535	35	0	4,569	0	1,936	0	0	
1987	1,163	0	1,163	*	3,548	28	0	3,576	0	2,007	0	0	
1988	1,217	0	1,217	*	4,808	62	0	4,870	0	1,688	0	0	
1989	1,160	0	1,160	*	5,074	61	0	5,135	0	1,273	0	0	
					Trillion Btu								
1960	**2.4**	**0.0**	**2.4**	**0.0**	**8.8**	**0.6**	**0.0**	**9.4**	**0.0**	**12.2**	**0.0**	**0.0**	**24.0**
1961	9.3	0.0	9.3	0.0	6.6	0.4	0.0	7.0	0.0	10.5	0.0	0.0	26.9
1962	9.7	0.0	9.7	0.0	6.3	0.4	0.0	6.7	0.0	12.1	0.0	0.0	28.5
1963	9.6	0.0	9.6	0.0	6.2	0.4	0.0	6.6	0.0	11.1	0.0	0.0	27.3
1964	10.5	0.0	10.5	0.0	6.3	0.4	0.0	6.7	0.0	10.1	0.0	0.0	27.3
1965	**10.0**	**0.0**	**10.0**	**0.0**	**8.4**	**0.6**	**0.0**	**9.0**	**0.0**	**9.2**	**0.0**	**0.0**	**28.2**
1966	8.6	0.0	8.6	0.0	9.6	0.6	0.0	10.2	0.0	10.8	0.0	0.0	29.7
1967	9.4	0.0	9.4	0.0	11.6	0.8	0.0	12.4	0.0	10.7	0.0	0.0	32.4
1968	21.5	0.0	21.5	0.0	10.6	0.7	0.0	11.3	0.0	10.7	0.0	0.0	43.5
1969	26.2	0.0	26.2	0.0	12.3	0.8	0.0	13.1	0.0	13.2	0.0	0.0	52.5
1970	**26.7**	**0.0**	**26.7**	**0.0**	**16.0**	**1.1**	**0.0**	**17.0**	**0.0**	**11.1**	**0.0**	**0.0**	**54.9**
1971	25.1	0.0	25.1	0.2	16.3	1.1	0.0	17.5	0.0	9.7	0.0	0.0	52.5
1972	30.4	0.0	30.4	0.1	14.0	1.3	0.0	15.3	0.0	11.4	0.0	0.0	57.1
1973	28.1	0.0	28.1	0.2	12.7	0.7	0.0	13.3	0.0	14.9	0.0	0.0	56.5
1974	24.9	0.0	24.9	0.4	11.7	0.4	0.0	12.2	0.0	13.5	0.0	0.0	50.9
1975	**26.0**	**0.0**	**26.0**	**0.2**	**14.3**	**0.2**	**0.0**	**14.5**	**0.0**	**11.2**	**0.0**	**0.0**	**51.8**
1976	20.2	0.0	20.2	*	19.2	0.1	0.0	19.3	0.0	13.8	0.0	0.0	53.3
1977	25.6	0.0	25.6	*	17.8	0.1	0.0	17.8	0.0	12.7	0.0	0.0	56.2
1978	20.3	0.0	20.3	0.0	22.0	*	0.0	22.0	0.0	10.0	0.0	0.0	52.3
1979	29.0	0.0	29.0	*	27.1	*	0.0	27.1	0.0	10.9	0.0	0.0	67.0
1980	**29.0**	**0.0**	**29.0**	**0.0**	**27.3**	**0.1**	**0.0**	**27.4**	**0.0**	**9.1**	**0.0**	**0.0**	**65.5**
1981	24.0	0.0	24.0	0.1	25.0	0.1	0.0	25.2	0.0	12.6	0.0	0.0	61.9
1982	25.9	0.0	25.9	0.0	16.3	0.1	0.0	16.4	0.0	11.4	0.0	0.0	53.8
1983	27.6	0.0	27.6	*	16.7	0.1	0.0	16.8	0.0	12.6	0.0	0.0	57.1
1984	32.4	0.0	32.4	0.1	21.3	0.2	0.0	21.4	0.0	11.4	0.0	0.0	65.3
1985	**38.6**	**0.0**	**38.6**	**0.0**	**14.7**	**0.2**	**0.0**	**14.8**	**0.0**	**19.3**	**0.0**	**0.0**	**72.7**
1986	24.7	0.0	24.7	0.0	28.5	0.2	0.0	28.7	0.0	19.9	0.0	0.0	73.2
1987	31.2	0.0	31.2	*	22.3	0.2	0.0	22.5	0.0	20.6	0.0	0.0	74.3
1988	32.4	0.0	32.4	0.1	30.2	0.4	0.0	30.6	0.0	17.3	0.0	0.0	80.4
1989	31.0	0.0	31.0	*	31.9	0.4	0.0	32.3	0.0	13.2	0.0	0.0	76.4

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 195. Energy Consumption Estimates by Source, 1960–1989, New Jersey

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**6,424**	**139**	**4,657**	**1,147**	**46,051**	**2,125**	**2,468**	**3,213**	**1,879**	**48,706**	**42,854**	**12,752**	**165,853**	**0**	**45**	**0**	**0**	**4,034**	
1961	7,367	154	5,021	1,020	47,452	2,184	2,566	3,208	1,829	49,175	43,016	12,675	168,145	0	19	0	0	5,645	
1962	7,452	174	5,424	1,874	49,101	3,045	2,200	3,587	1,778	50,349	49,841	12,808	180,008	0	23	0	0	7,113	
1963	7,357	188	5,368	1,541	51,683	3,582	2,197	3,958	1,778	52,214	50,186	16,414	188,920	0	16	0	0	7,305	
1964	7,874	200	5,243	1,345	52,146	3,982	1,887	4,591	1,867	52,380	49,313	20,706	193,458	0	19	0	0	5,632	
1965	**9,034**	**210**	**5,340**	**1,153**	**53,611**	**5,280**	**2,096**	**4,268**	**2,052**	**55,149**	**42,900**	**20,479**	**192,329**	**0**	**-31**	**0**	**0**	**5,282**	
1966	9,043	227	5,313	1,109	56,518	6,295	2,030	4,727	2,131	56,076	51,033	22,109	207,343	0	-131	0	0	5,541	
1967	7,625	251	5,137	566	58,426	7,560	2,053	4,925	1,831	57,376	64,611	22,372	224,857	0	-202	0	0	9,374	
1968	7,255	268	5,335	331	60,461	9,043	1,636	5,681	2,012	60,819	67,190	24,446	236,954	0	-342	0	0	10,911	
1969	5,471	305	5,716	180	62,670	7,217	1,759	6,458	1,917	62,447	73,562	24,804	246,730	107	-379	0	0	11,715	
1970	**4,946**	**323**	**5,828**	**160**	**63,391**	**6,705**	**1,829**	**6,748**	**1,952**	**66,231**	**80,770**	**25,026**	**258,641**	**3,454**	**-403**	**0**	**0**	**5,934**	
1971	3,730	327	6,029	121	64,551	6,712	1,842	6,834	1,993	68,308	75,446	23,255	255,091	3,825	-309	0	0	17,339	
1972	1,279	321	6,310	118	71,884	8,522	1,975	7,961	2,134	74,054	80,262	26,171	279,390	4,356	-217	0	0	27,072	
1973	2,609	302	7,355	106	74,951	8,146	1,544	8,110	2,278	75,830	79,176	27,844	285,341	3,585	-333	0	0	29,793	
1974	3,379	275	6,308	137	68,360	7,068	1,267	7,840	2,182	75,512	63,532	27,409	259,615	3,673	-282	0	0	38,446	
1975	**2,397**	**244**	**5,012**	**92**	**59,630**	**6,267**	**1,211**	**7,328**	**1,741**	**77,617**	**49,463**	**26,246**	**234,607**	**3,146**	**-272**	**0**	**0**	**70,001**	
1976	2,717	322	4,452	88	61,119	6,787	1,740	7,668	1,934	79,469	57,772	23,780	244,809	3,855	-245	0	0	71,445	
1977	2,746	247	5,489	104	59,302	8,420	2,519	7,940	2,369	77,535	59,682	26,014	249,375	6,959	-167	0	0	59,889	
1978	2,337	229	6,017	111	56,692	7,849	2,379	8,149	2,545	80,604	58,167	27,668	250,179	8,169	-173	0	0	68,510	
1979	2,273	261	5,500	92	50,687	8,498	1,961	7,913	2,663	75,640	61,030	31,545	245,529	6,611	-283	0	0	80,813	
1980	**2,634**	**340**	**4,369**	**83**	**52,854**	**8,781**	**1,694**	**7,383**	**2,371**	**72,740**	**53,617**	**30,947**	**234,839**	**7,627**	**-282**	**0**	**0**	**74,427**	
1981	2,889	390	4,931	75	50,660	18,097	1,461	6,243	2,274	72,379	37,777	29,122	223,017	11,675	-231	0	0	64,880	
1982	2,986	376	4,835	141	45,479	34,169	1,406	6,257	2,074	73,334	33,415	23,322	224,432	14,039	-222	0	0	63,821	
1983	3,485	405	6,112	155	39,307	37,077	1,793	6,292	2,171	77,650	26,578	21,974	219,109	6,328	-228	0	0	83,997	
1984	3,196	418	6,241	135	40,820	42,383	948	7,005	2,315	77,257	26,361	24,997	228,463	5,610	-246	0	0	89,555	
1985	**3,943**	**379**	**4,733**	**184**	**40,389**	**43,910**	**636**	**5,670**	**2,158**	**75,391**	**20,810**	**22,424**	**216,305**	**17,770**	**-244**	**0**	**0**	**68,366**	
1986	2,961	353	5,565	159	44,963	39,197	620	5,643	2,110	80,694	23,326	26,975	229,250	14,770	-286	0	0	90,018	
1987	3,434	421	5,312	201	43,820	43,323	755	6,480	2,385	81,137	17,588	27,999	228,999	22,697	-309	0	0	64,875	
1988	3,058	414	4,332	152	46,124	40,820	638	6,362	2,300	81,188	18,867	29,118	229,901	23,890	-219	0	0	73,972	
1989	3,545	457	4,032	128	45,037	44,140	751	5,325	2,359	81,366	17,161	29,669	229,968	23,032	-258	0	0	73,670	
													Trillion Btu						
1960	**168.8**	**144.1**	**30.9**	**5.8**	**268.2**	**11.5**	**14.0**	**12.9**	**11.4**	**255.9**	**269.4**	**75.8**	**955.8**	**0.0**	**0.5**	**0.0**	**0.0**	**13.8**	**1,282.9**
1961	194.0	159.2	33.3	5.1	276.4	11.8	14.6	12.9	11.1	258.3	270.4	75.3	969.2	0.0	0.2	0.0	0.0	19.3	1,341.8
1962	195.9	180.3	36.0	9.5	286.0	16.6	12.5	14.4	10.8	264.5	313.4	76.1	1,039.6	0.0	0.2	0.0	0.0	24.3	1,440.4
1963	193.0	197.1	35.6	7.8	301.1	19.7	12.5	15.9	10.8	274.3	315.5	95.9	1,088.9	0.0	0.2	0.0	0.0	24.9	1,504.1
1964	206.6	209.7	34.8	6.8	303.7	21.9	10.7	18.4	11.3	275.2	310.0	118.8	1,111.7	0.0	0.2	0.0	0.0	19.2	1,547.3
1965	**236.6**	**219.2**	**35.4**	**5.8**	**312.3**	**29.4**	**11.9**	**17.1**	**12.4**	**289.7**	**269.7**	**117.4**	**1,101.2**	**0.0**	**-0.3**	**0.0**	**0.0**	**18.0**	**1,574.7**
1966	236.6	236.8	35.3	5.6	329.2	35.1	11.5	19.0	12.9	294.6	320.8	125.9	1,189.9	0.0	-1.4	0.0	0.0	18.9	1,680.8
1967	198.6	261.5	34.1	2.9	340.3	42.2	11.6	18.9	11.1	301.4	406.2	127.1	1,295.9	0.0	-2.1	0.0	0.0	32.0	1,786.0
1968	188.7	278.4	35.4	1.7	352.2	50.6	9.3	21.7	12.2	319.5	422.4	138.9	1,363.8	0.0	-3.6	0.0	0.0	37.2	1,864.6
1969	141.2	316.1	37.9	0.9	365.1	40.3	10.0	24.6	11.6	328.0	462.5	140.7	1,421.6	1.2	-4.0	0.0	0.0	40.0	1,916.1
1970	**123.3**	**331.2**	**38.7**	**0.8**	**369.3**	**37.5**	**10.4**	**25.5**	**11.8**	**347.9**	**507.8**	**141.8**	**1,491.5**	**37.9**	**-4.2**	**0.0**	**0.0**	**20.2**	**1,999.9**
1971	91.5	335.3	40.0	0.6	376.0	37.5	10.4	25.8	12.1	358.8	474.3	132.4	1,468.0	41.5	-3.2	0.0	0.0	59.2	1,992.1
1972	32.0	329.6	41.9	0.6	418.7	47.8	11.2	29.9	12.9	389.0	504.6	149.4	1,606.1	47.0	-2.3	0.0	0.0	92.4	2,104.9
1973	66.1	309.7	48.8	0.5	436.6	45.7	8.8	30.4	13.8	398.3	497.8	159.2	1,639.9	39.1	-3.5	0.0	0.0	101.7	2,153.0
1974	82.5	282.2	41.9	0.7	398.2	39.6	7.2	29.2	13.2	396.7	399.4	156.0	1,482.1	41.0	-2.9	0.0	0.0	131.2	2,016.0
1975	**60.5**	**251.7**	**33.3**	**0.5**	**347.3**	**35.1**	**6.9**	**27.2**	**10.6**	**407.7**	**311.0**	**149.9**	**1,329.4**	**34.6**	**-2.8**	**0.0**	**0.0**	**238.8**	**1,912.2**
1976	70.6	332.5	29.5	0.4	356.0	38.1	9.9	28.5	11.7	417.4	363.2	136.6	1,391.4	42.6	-2.5	0.0	0.0	243.8	2,078.3
1977	71.0	255.5	36.4	0.5	345.4	47.3	14.3	29.2	14.4	407.3	375.2	149.6	1,419.7	74.9	-1.7	0.0	0.0	204.3	2,023.7
1978	60.8	236.9	39.9	0.6	330.2	44.0	13.5	29.9	15.4	423.4	365.7	158.9	1,421.6	89.4	-1.8	0.0	0.0	233.8	2,040.6
1979	59.2	269.9	36.5	0.5	295.3	47.7	11.1	29.1	16.1	397.3	383.7	179.7	1,397.1	71.9	-2.9	0.0	0.0	275.7	2,070.9
1980	**68.7**	**351.0**	**29.0**	**0.4**	**307.9**	**49.3**	**9.6**	**27.1**	**14.4**	**382.1**	**337.1**	**174.9**	**1,331.8**	**83.2**	**-2.9**	**0.0**	**0.0**	**253.9**	**2,085.7**
1981	75.5	403.4	32.7	0.4	295.1	102.2	8.3	22.7	13.8	380.2	237.5	164.4	1,257.3	128.8	-2.4	0.0	0.0	221.4	2,083.9
1982	78.4	387.3	32.1	0.7	264.9	193.3	8.0	22.6	12.6	385.2	210.1	131.4	1,260.9	155.5	-2.3	0.0	0.0	217.8	2,097.5
1983	91.6	418.0	40.6	0.8	229.0	209.8	10.2	22.7	13.2	407.9	167.1	125.7	1,226.8	69.0	-2.4	0.0	0.0	286.6	2,089.6
1984	84.0	428.3	41.4	0.7	237.8	239.9	5.4	25.2	14.0	405.8	165.7	139.8	1,275.7	60.8	-2.5	0.0	0.0	305.6	2,151.8
1985	**103.3**	**389.1**	**31.4**	**0.9**	**235.3**	**248.6**	**3.6**	**20.4**	**13.1**	**396.0**	**130.8**	**125.6**	**1,205.8**	**192.1**	**-2.5**	**0.0**	**0.0**	**233.3**	**2,121.0**
1986	77.9	363.0	36.9	0.8	261.9	221.8	3.5	20.5	12.8	423.9	146.6	152.1	1,281.0	159.5	-2.9	0.0	0.0	307.1	2,185.6
1987	90.5	432.4	35.2	1.0	255.3	245.2	4.3	23.7	14.5	426.2	110.6	156.8	1,272.8	244.6	-3.2	0.0	0.0	221.4	2,258.4
1988	81.1	425.0	28.7	0.8	268.7	231.1	3.6	23.2	13.9	426.5	118.6	163.7	1,278.8	256.7	-2.2	0.0	0.0	252.4	2,291.8
1989	94.0	469.0	26.8	0.6	262.3	249.9	4.3	19.6	14.3	427.4	107.9	166.5	1,279.7	247.0	-2.7	0.0	0.0	251.4	2,338.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 196. Residential Energy Consumption Estimates, 1960-1989, New Jersey

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**23**	**232**	**255**	**75**	**25,587**	**1,200**	**737**	**27,524**	**5,080**	**12,635**		
1961	23	210	233	88	26,252	1,331	662	28,244	5,617	13,689		
1962	17	183	200	96	27,252	1,109	743	29,104	5,844	14,049		
1963	19	174	193	103	28,705	1,089	844	30,638	6,286	15,033		
1964	8	166	174	107	28,444	892	1,116	30,452	6,815	16,231		
1965	**12**	**146**	**158**	**114**	**29,038**	**969**	**672**	**30,679**	**7,410**	**17,692**		
1966	6	124	129	123	29,071	939	792	30,801	8,224	19,734		
1967	5	111	116	135	30,256	933	750	31,939	8,960	21,405		
1968	2	105	107	137	31,524	726	745	32,995	9,933	23,699		
1969	5	93	97	145	32,223	741	811	33,775	10,948	26,151		
1970	**1**	**89**	**90**	**140**	**32,933**	**769**	**834**	**34,536**	**12,131**	**29,398**		
1971	1	85	85	143	32,623	863	810	34,296	12,855	31,079		
1972	1	65	66	150	35,119	958	923	37,001	13,566	32,655		
1973	8	64	72	137	35,546	796	883	37,225	14,836	35,517		
1974	3	57	60	136	31,103	602	905	32,610	14,305	34,879		
1975	**1**	**47**	**47**	**129**	**30,655**	**431**	**964**	**32,050**	**14,495**	**34,964**		
1976	0	44	44	148	31,391	707	1,156	33,253	15,003	36,141		
1977	0	43	43	134	29,738	1,026	1,184	31,948	15,393	37,169		
1978	0	35	35	136	28,119	946	1,134	30,199	15,691	38,388		
1979	0	28	28	125	21,486	247	798	22,530	15,797	38,123		
1980	**0**	**34**	**34**	**136**	**23,976**	**262**	**777**	**25,015**	**16,329**	**39,707**		
1981	2	56	58	146	23,162	193	946	24,301	16,026	38,195		
1982	0	56	56	149	19,292	353	842	20,487	15,759	37,850		
1983	0	50	50	147	16,041	310	1,000	17,352	16,869	40,415		
1984	1	19	20	152	16,451	451	973	17,875	17,157	39,841		
1985	**4**	**58**	**62**	**151**	**18,071**	**411**	**946**	**19,428**	**17,177**	**40,280**		
1986	*	36	36	158	17,268	327	1,063	18,657	18,089	41,473		
1987	0	17	17	169	17,440	294	1,082	18,815	19,308	44,004		
1988	0	14	14	182	17,480	218	1,403	19,101	20,656	46,649		
1989	*	8	9	196	15,926	279	1,382	17,587	20,695	46,420		
					Trillion Btu							
1960	**0.6**	**5.7**	**6.3**	**77.7**	**149.0**	**6.8**	**3.0**	**158.8**	**17.3**	**260.2**	**43.1**	**303.3**
1961	0.6	5.2	5.8	91.3	152.9	7.5	2.7	163.1	19.2	279.4	46.7	326.1
1962	0.4	4.5	4.9	99.7	158.7	6.3	3.0	168.0	19.9	292.6	47.9	340.6
1963	0.5	4.2	4.7	107.5	167.2	6.2	3.4	176.8	21.4	310.4	51.3	361.6
1964	0.2	4.0	4.2	112.0	165.7	5.1	4.5	175.2	23.3	314.7	55.4	370.1
1965	**0.3**	**3.5**	**3.8**	**119.6**	**169.1**	**5.5**	**2.7**	**177.3**	**25.3**	**326.0**	**60.4**	**386.4**
1966	0.1	3.0	3.1	127.8	169.3	5.3	3.2	177.8	28.1	336.8	67.3	404.1
1967	0.1	2.6	2.7	140.5	176.2	5.3	2.9	184.4	30.6	358.3	73.0	431.3
1968	0.1	2.4	2.5	142.2	183.6	4.1	2.8	190.6	33.9	369.2	80.9	450.0
1969	0.1	2.1	2.3	150.9	187.7	4.2	3.1	195.0	37.4	385.5	89.2	474.7
1970	*	**2.1**	**2.1**	**143.9**	**191.8**	**4.4**	**3.2**	**199.3**	**41.4**	**386.7**	**100.3**	**487.0**
1971	*	2.0	2.0	146.9	190.0	4.9	3.1	198.0	43.9	390.8	106.0	496.8
1972	*	1.5	1.5	153.8	204.6	5.4	3.5	213.5	46.3	415.1	111.4	526.5
1973	0.2	1.5	1.6	140.3	207.1	4.5	3.3	214.9	50.6	407.4	121.2	528.6
1974	0.1	1.3	1.3	139.4	181.2	3.4	3.4	188.0	48.8	377.5	119.0	496.5
1975	*	**1.0**	**1.1**	**133.4**	**178.6**	**2.4**	**3.6**	**184.6**	**49.5**	**368.5**	**119.3**	**487.8**
1976	0.0	1.0	1.0	152.5	182.9	4.0	4.3	191.1	51.2	395.9	123.3	519.2
1977	0.0	1.0	1.0	138.7	173.2	5.8	4.4	183.4	52.5	375.7	126.8	502.5
1978	0.0	0.9	0.9	141.1	163.8	5.4	4.2	173.3	53.5	368.8	131.0	499.8
1979	0.0	0.7	0.7	129.3	125.2	1.4	2.9	129.5	53.9	313.4	130.1	443.5
1980	**0.0**	**0.8**	**0.8**	**140.9**	**139.7**	**1.5**	**2.9**	**144.0**	**55.7**	**341.4**	**135.5**	**476.9**
1981	0.1	1.3	1.4	150.8	134.9	1.1	3.4	139.5	54.7	346.3	130.3	476.6
1982	0.0	1.4	1.4	153.4	112.4	2.0	3.0	117.4	53.8	326.0	129.1	455.1
1983	0.0	1.2	1.2	150.9	93.4	1.8	3.6	98.8	57.6	308.6	137.9	446.5
1984	*	0.5	0.5	154.9	95.8	2.6	3.5	101.9	58.5	315.8	135.9	451.7
1985	**0.1**	**1.3**	**1.4**	**154.3**	**105.3**	**2.3**	**3.4**	**111.0**	**58.6**	**325.3**	**137.4**	**462.7**
1986	*	0.9	0.9	162.4	100.6	1.9	3.9	106.3	61.7	331.3	141.5	472.8
1987	0.0	0.5	0.5	172.8	101.6	1.7	4.0	107.2	65.9	346.3	150.1	496.5
1988	0.0	0.4	0.4	186.0	101.8	1.2	5.1	108.2	70.5	365.1	159.2	524.2
1989	*	0.2	0.2	200.4	92.8	1.6	5.1	99.4	70.6	370.7	158.4	529.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 197. Commercial Energy Consumption Estimates, 1960–1989, New Jersey

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**42**	**155**	**197**	**10**	**8,640**	**466**	**130**	**308**	**7,117**	**16,661**	**4,391**	**10,922**		
1961	42	140	182	12	8,864	517	117	336	9,251	19,085	4,921	11,993		
1962	32	122	154	14	9,202	431	131	333	10,213	20,310	5,325	12,803		
1963	35	116	151	16	9,693	423	149	388	9,114	19,766	5,756	13,766		
1964	15	111	126	21	9,605	347	197	383	8,549	19,081	6,354	15,132		
1965	**23**	**97**	**120**	**20**	**9,805**	**377**	**119**	**420**	**7,473**	**18,194**	**6,945**	**16,583**		
1966	10	82	93	23	9,816	365	140	487	9,864	20,672	7,605	18,248		
1967	9	74	83	29	10,217	363	132	530	12,082	23,323	8,163	19,502		
1968	4	70	74	33	10,645	282	131	556	11,444	23,059	8,973	21,409		
1969	9	62	71	35	10,881	288	143	599	11,209	23,121	9,800	23,411		
1970	**2**	**59**	**61**	**56**	**11,121**	**299**	**147**	**613**	**11,415**	**23,595**	**10,807**	**26,188**		
1971	1	56	58	60	11,016	335	143	752	9,796	22,042	11,708	28,305		
1972	1	43	45	63	11,859	372	163	570	9,508	22,472	12,779	30,760		
1973	15	43	57	62	12,003	309	156	621	9,740	22,828	13,897	33,271		
1974	6	38	44	58	10,503	234	160	596	8,290	19,782	13,574	33,096		
1975	**1**	**31**	**32**	**53**	**10,351**	**168**	**170**	**634**	**6,484**	**17,807**	**13,848**	**33,404**		
1976	0	30	30	90	10,600	275	204	615	9,225	20,918	14,648	35,284		
1977	0	28	28	54	10,042	399	209	512	8,354	19,516	15,158	36,601		
1978	0	23	23	48	9,495	368	200	727	7,502	18,291	15,857	38,795		
1979	0	18	18	52	7,255	96	141	1,061	10,472	19,025	16,141	38,953		
1980	**0**	**22**	**22**	**60**	**9,167**	**39**	**137**	**297**	**10,950**	**20,590**	**16,879**	**41,045**		
1981	4	37	41	75	7,662	57	167	308	6,404	14,597	17,262	41,141		
1982	0	38	38	79	7,030	96	149	323	4,623	12,221	17,725	42,572		
1983	0	34	34	80	7,166	51	177	729	2,662	10,785	18,647	44,674		
1984	3	12	15	84	7,350	27	172	647	2,582	10,777	19,691	45,725		
1985	**7**	**39**	**46**	**83**	**5,638**	**35**	**167**	**660**	**2,174**	**8,674**	**20,911**	**49,035**		
1986	1	24	25	86	8,889	55	188	652	1,718	11,501	22,181	50,856		
1987	0	12	12	94	7,787	63	191	665	1,676	10,381	23,679	53,966		
1988	0	10	10	101	7,899	54	248	647	2,093	10,941	25,527	57,647		
1989	1	6	6	117	8,167	129	244	669	785	9,993	26,866	60,262		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**1.0**	**3.8**	**4.9**	**10.7**	**50.3**	**2.6**	**0.5**	**1.6**	**44.7**	**99.9**	**15.0**	**130.4**	**37.3**	**167.7**
1961	1.0	3.5	4.5	12.7	51.6	2.9	0.5	1.8	58.2	115.0	16.8	149.0	40.9	189.9
1962	0.8	3.0	3.8	14.2	53.6	2.4	0.5	1.8	64.2	122.5	18.2	158.7	43.7	202.4
1963	0.9	2.8	3.7	16.5	56.5	2.4	0.6	2.0	57.3	118.8	19.6	158.6	47.0	205.6
1964	0.4	2.7	3.0	22.4	55.9	2.0	0.8	2.0	53.8	114.5	21.7	161.6	51.6	213.2
1965	**0.6**	**2.4**	**2.9**	**21.1**	**57.1**	**2.1**	**0.5**	**2.2**	**47.0**	**108.9**	**23.7**	**156.7**	**56.6**	**213.2**
1966	0.3	2.0	2.2	23.5	57.2	2.1	0.6	2.6	62.0	124.4	25.9	176.1	62.3	238.4
1967	0.2	1.7	2.0	29.8	59.5	2.1	0.5	2.8	76.0	140.8	27.9	200.4	66.5	267.0
1968	0.1	1.6	1.7	33.8	62.0	1.6	0.5	2.9	71.9	139.0	30.6	205.1	73.0	278.1
1969	0.2	1.4	1.6	35.8	63.4	1.6	0.5	3.1	70.5	139.2	33.4	210.1	79.9	289.9
1970	*****	**1.4**	**1.4**	**57.4**	**64.8**	**1.7**	**0.6**	**3.2**	**71.8**	**142.0**	**36.9**	**237.7**	**89.4**	**327.1**
1971	*	1.3	1.4	61.8	64.2	1.9	0.5	3.9	61.6	132.1	39.9	235.2	96.6	331.8
1972	*	1.0	1.0	64.5	69.1	2.1	0.6	3.0	59.8	134.6	43.6	243.7	105.0	348.7
1973	0.3	1.0	1.3	63.5	69.9	1.8	0.6	3.3	61.2	136.7	47.4	249.0	113.5	362.5
1974	0.1	0.8	1.0	59.7	61.2	1.3	0.6	3.1	52.1	118.3	46.3	225.4	112.9	338.3
1975	*****	**0.7**	**0.7**	**55.0**	**60.3**	**1.0**	**0.6**	**3.3**	**40.8**	**106.0**	**47.3**	**208.9**	**114.0**	**322.9**
1976	0.0	0.7	0.7	93.6	61.7	1.6	0.8	3.2	58.0	125.3	50.0	269.5	120.4	389.9
1977	0.0	0.7	0.7	55.7	58.5	2.3	0.8	2.7	52.5	116.7	51.7	224.9	124.9	349.8
1978	0.0	0.6	0.6	49.7	55.3	2.1	0.7	3.8	47.2	109.1	54.1	213.5	132.4	345.8
1979	0.0	0.4	0.4	54.2	42.3	0.5	0.5	5.6	65.8	114.7	55.1	224.4	132.9	357.3
1980	**0.0**	**0.5**	**0.5**	**62.5**	**53.4**	**0.2**	**0.5**	**1.6**	**68.8**	**124.5**	**57.6**	**245.1**	**140.0**	**385.1**
1981	0.1	0.9	1.0	77.1	44.6	0.3	0.6	1.6	40.3	87.4	58.9	224.4	140.4	364.8
1982	0.0	0.9	0.9	81.2	41.0	0.5	0.5	1.7	29.1	72.8	60.5	215.4	145.3	360.6
1983	0.0	0.8	0.8	81.9	41.7	0.3	0.6	3.8	16.7	63.2	63.6	209.6	152.4	362.1
1984	0.1	0.3	0.4	85.6	42.8	0.2	0.6	3.4	16.2	63.2	67.2	216.4	156.0	372.4
1985	**0.2**	**0.9**	**1.1**	**85.3**	**32.8**	**0.2**	**0.6**	**3.5**	**13.7**	**50.8**	**71.3**	**208.5**	**167.3**	**375.8**
1986	*	0.6	0.6	88.0	51.8	0.3	0.7	3.4	10.8	67.0	75.7	231.3	173.5	404.8
1987	0.0	0.3	0.3	96.8	45.4	0.4	0.7	3.5	10.5	60.4	80.8	238.3	184.1	422.4
1988	0.0	0.2	0.2	103.9	46.0	0.3	0.9	3.4	13.2	63.8	87.1	255.0	196.7	451.7
1989	*	0.2	0.2	120.3	47.6	0.7	0.9	3.5	4.9	57.6	91.7	269.8	205.6	475.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 198. Industrial Energy Consumption Estimates, 1960–1989, New Jersey

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**2,295**	**73**	**2,368**	**28**	**4,657**	**6,719**	**802**	**2,340**	**1,194**	**612**	**18,822**	**12,752**	**47,898**	**10**	**8,021**	**19,952**
1961	2,191	65	2,256	30	5,021	6,811	718	2,422	1,162	624	21,335	12,675	50,768	8	8,540	20,815
1962	2,295	60	2,356	36	5,424	7,393	660	2,696	1,161	632	23,249	12,808	54,024	7	9,329	22,426
1963	1,978	67	2,045	40	5,368	7,733	684	2,947	1,161	589	22,536	16,414	57,432	5	9,917	23,717
1964	1,835	76	1,911	43	5,243	7,544	648	3,252	1,219	551	19,589	20,706	58,752	7	10,605	25,257
1965	**1,854**	**67**	**1,921**	**52**	**5,340**	**8,423**	**750**	**3,438**	**1,433**	**532**	**17,049**	**20,479**	**57,443**	**4**	**11,519**	**27,503**
1966	1,637	57	1,693	59	5,313	8,901	727	3,728	1,488	507	20,067	22,109	62,841	5	12,587	30,202
1967	1,479	57	1,536	63	5,137	9,118	757	3,965	1,292	452	23,907	22,372	67,000	8	12,964	30,971
1968	1,413	49	1,463	71	5,335	9,244	628	4,734	1,420	441	22,725	24,446	68,973	6	13,693	32,670
1969	929	41	970	77	5,716	9,613	730	5,426	1,353	414	22,213	24,804	70,269	6	14,859	35,494
1970	**706**	**34**	**740**	**80**	**5,828**	**9,560**	**761**	**5,665**	**1,379**	**401**	**22,609**	**25,026**	**71,228**	**4**	**15,215**	**36,872**
1971	119	26	145	82	6,029	9,126	644	5,765	1,363	353	19,838	23,232	66,350	5	15,395	37,221
1972	45	17	62	83	6,310	9,786	645	6,764	1,459	311	18,066	26,171	69,513	6	15,970	38,441
1973	84	16	100	78	7,355	9,849	439	6,958	1,641	291	19,323	27,844	73,701	5	16,734	40,062
1974	142	17	159	65	6,308	8,252	430	6,665	1,572	308	17,025	27,409	67,969	3	16,224	39,558
1975	**45**	**22**	**67**	**52**	**5,012**	**7,963**	**612**	**6,096**	**1,136**	**233**	**14,809**	**26,246**	**62,107**	**4**	**14,562**	**35,126**
1976	15	24	39	73	4,452	8,212	758	6,207	1,262	219	18,347	23,780	63,239	3	15,313	36,886
1977	75	20	94	51	5,489	8,019	1,094	6,427	1,657	194	17,578	26,014	66,473	4	15,624	37,728
1978	39	17	56	43	6,017	7,419	1,065	6,643	1,780	189	16,475	27,668	67,256	5	16,365	40,037
1979	7	11	18	52	5,500	9,531	1,618	6,866	1,862	159	24,173	31,545	81,255	3	16,579	40,011
1980	**14**	**19**	**33**	**63**	**4,369**	**7,339**	**1,393**	**6,429**	**1,658**	**147**	**17,694**	**30,947**	**69,977**	**3**	**16,345**	**39,745**
1981	7	15	22	89	4,931	9,715	1,211	4,928	1,590	145	9,221	29,122	60,863	3	16,311	38,874
1982	90	58	148	82	4,835	8,400	957	5,102	1,450	121	9,019	23,322	53,207	3	15,233	36,587
1983	222	47	269	81	6,112	3,625	1,432	4,918	1,518	113	3,944	21,974	43,638	3	15,380	36,848
1984	248	60	308	85	6,241	3,718	470	5,716	1,619	94	3,826	24,997	46,681	3	15,681	36,414
1985	**237**	**122**	**359**	**81**	**4,733**	**2,539**	**190**	**4,472**	**1,509**	**462**	**3,373**	**22,424**	**39,702**	**3**	**15,657**	**36,715**
1986	231	32	263	70	5,565	3,430	239	4,312	1,476	466	3,389	26,975	45,851	3	15,631	35,837
1987	292	32	324	80	5,312	2,967	398	5,138	1,668	516	4,295	27,999	48,293	3	15,665	35,700
1988	249	12	261	78	4,332	3,199	366	4,643	1,609	525	3,862	29,118	47,653	3	15,844	35,779
1989	280	6	286	85	4,032	3,474	343	3,630	1,650	500	1,794	29,669	45,093	3	15,713	35,246

Year	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu				
1960	**0.1**	**27.4**	**406.0**	**68.1**	**474.0**
1961	0.1	29.1	424.8	71.0	495.8
1962	0.1	31.8	456.0	76.5	532.6
1963	0.1	33.8	472.6	80.9	553.5
1964	0.1	36.2	478.1	86.2	564.3
1965	*****	**39.3**	**481.6**	**93.8**	**575.4**
1966	0.1	42.9	517.4	103.0	620.4
1967	0.1	44.2	543.4	105.7	649.1
1968	0.1	46.7	561.0	111.5	672.5
1969	0.1	50.7	564.8	121.1	685.9
1970	*****	**51.9**	**567.0**	**125.8**	**692.8**
1971	0.1	52.5	526.3	127.0	653.3
1972	0.1	54.5	542.2	131.2	673.4
1973	0.1	57.1	566.4	136.7	703.1
1974	*	55.4	517.6	135.0	652.5
1975	*****	**49.7**	**462.1**	**119.9**	**582.0**
1976	*	52.2	494.2	125.9	620.1
1977	*	53.3	492.9	128.7	621.6
1978	0.1	55.8	489.8	136.6	626.4
1979	*	56.6	581.3	136.5	717.8
1980	*****	**55.8**	**521.8**	**135.6**	**657.4**
1981	*	55.7	494.9	132.6	627.5
1982	*	52.0	442.2	124.8	567.0
1983	*	52.5	390.7	125.7	516.4
1984	*	53.5	408.4	124.2	532.6
1985	*****	**53.4**	**367.1**	**125.3**	**492.3**
1986	*	53.3	390.3	122.3	512.6
1987	*	53.4	413.6	121.8	535.4
1988	*	54.1	407.0	122.1	529.1
1989	*	53.6	400.5	120.3	520.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 199. Transportation Energy Consumption Estimates, 1960-1989, New Jersey

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**40**	**1**	**1,147**	**4,748**	**2,125**	**6**	**685**	**47,786**	**5,754**	**62,252**	**4**	**9**		
1961	10	*	1,020	5,252	2,184	8	667	48,214	3,878	61,222	4	10		
1962	9	*	1,874	4,965	3,045	17	617	49,384	7,332	67,233	4	10		
1963	8	1	1,541	5,222	3,582	18	617	51,237	8,222	70,439	4	9		
1964	7	*	1,345	6,180	3,982	26	648	51,446	9,544	73,170	4	8		
1965	**6**	*	**1,153**	**5,964**	**5,280**	**40**	**619**	**54,198**	**6,431**	**73,684**	**4**	**9**		
1966	5	*	1,109	8,234	6,295	67	643	55,081	5,584	77,013	4	9		
1967	4	1	566	8,151	7,560	78	539	56,394	7,221	80,509	3	7		
1968	3	*	331	8,221	9,043	71	592	59,822	7,185	85,265	3	6		
1969	2	1	180	8,898	7,217	78	563	61,434	7,163	85,533	29	70		
1970	**1**	**1**	**160**	**8,558**	**6,705**	**102**	**574**	**65,217**	**9,081**	**90,396**	**31**	**76**		
1971	*	1	121	8,936	6,712	115	630	67,204	9,784	93,502	32	77		
1972	*	1	118	9,041	7,160	110	674	73,173	11,595	101,872	34	83		
1973	*	1	106	9,926	7,166	113	637	74,919	9,771	102,637	33	80		
1974	*	1	137	9,883	6,270	110	610	74,608	6,095	97,714	39	96		
1975	*	*	**92**	**8,907**	**5,777**	**98**	**605**	**76,750**	**4,246**	**96,475**	**44**	**106**		
1976	*	1	88	9,165	5,641	102	672	78,635	7,187	101,489	43	104		
1977	*	1	104	9,783	6,012	120	712	76,828	7,850	101,408	38	93		
1978	0	1	111	10,289	6,211	171	765	79,687	7,719	104,953	32	78		
1979	0	1	92	11,112	7,606	108	800	74,419	7,532	101,671	34	83		
1980	**0**	*	**83**	**10,243**	**8,088**	**40**	**713**	**72,296**	**12,053**	**103,516**	**32**	**77**		
1981	0	1	75	9,367	17,518	202	683	71,926	12,290	112,061	35	84		
1982	0	1	141	10,407	33,809	166	623	72,890	11,688	129,724	35	84		
1983	0	1	155	11,477	37,077	196	653	76,807	12,374	138,740	27	65		
1984	0	2	135	12,269	42,383	145	696	76,517	11,666	143,810	57	133		
1985	**0**	**2**	**184**	**13,470**	**43,910**	**85**	**649**	**74,270**	**10,265**	**142,833**	**88**	**205**		
1986	0	3	159	14,680	39,197	80	634	79,575	9,729	144,054	92	211		
1987	0	3	201	14,603	43,323	69	717	79,956	6,946	145,815	94	214		
1988	0	3	152	15,889	40,820	69	691	80,016	5,366	143,002	85	192		
1989	0	4	128	15,347	44,140	69	709	80,196	6,723	147,312	85	191		
												Net Energy[4]		
			Trillion Btu											
1960	**1.0**	**0.6**	**5.8**	**27.7**	**11.5**	*	**4.2**	**251.0**	**36.2**	**336.3**	*	**337.9**	*	**338.0**
1961	0.3	0.5	5.1	30.6	11.8	*	4.0	253.3	24.4	329.3	*	330.0	*	330.0
1962	0.2	0.3	9.5	28.9	16.6	0.1	3.7	259.4	46.1	364.3	*	364.9	*	364.9
1963	0.2	0.6	7.8	30.4	19.7	0.1	3.7	269.1	51.7	382.5	*	383.3	*	383.3
1964	0.2	0.5	6.8	36.0	21.9	0.1	3.9	270.2	60.0	399.0	*	399.7	*	399.7
1965	**0.2**	**0.5**	**5.8**	**34.7**	**29.4**	**0.2**	**3.8**	**284.7**	**40.4**	**399.0**	*	**399.6**	*	**399.7**
1966	0.1	0.4	5.6	48.0	35.1	0.3	3.9	289.3	35.1	417.3	*	417.8	*	417.9
1967	0.1	0.7	2.9	47.5	42.2	0.3	3.3	296.2	45.4	437.8	*	438.6	*	438.6
1968	0.1	0.5	1.7	47.9	50.6	0.3	3.6	314.2	45.2	463.4	*	464.0	*	464.0
1969	*	0.6	0.9	51.8	40.3	0.3	3.4	322.7	45.0	464.5	0.1	465.3	0.2	465.5
1970	*	**1.0**	**0.8**	**49.8**	**37.5**	**0.4**	**3.5**	**342.6**	**57.1**	**491.7**	**0.1**	**492.8**	**0.3**	**493.1**
1971	*	0.9	0.6	52.1	37.5	0.4	3.8	353.0	61.5	509.0	0.1	510.0	0.3	510.2
1972	*	0.7	0.6	52.7	40.1	0.4	4.1	384.4	72.9	555.1	0.1	556.0	0.3	556.3
1973	*	0.7	0.5	57.8	40.2	0.4	3.9	393.5	61.4	557.8	0.1	558.6	0.3	558.9
1974	*	0.6	0.7	57.6	35.1	0.4	3.7	391.9	38.3	527.7	0.1	528.4	0.3	528.7
1975	*	**0.4**	**0.5**	**51.9**	**32.3**	**0.4**	**3.7**	**403.2**	**26.7**	**518.6**	**0.1**	**519.1**	**0.4**	**519.5**
1976	*	0.5	0.4	53.4	31.6	0.4	4.1	413.1	45.2	548.1	0.1	548.8	0.4	549.1
1977	*	0.6	0.5	57.0	33.7	0.4	4.3	403.6	49.4	548.8	0.1	549.6	0.3	549.9
1978	0.0	0.5	0.6	59.9	34.8	0.6	4.6	418.6	48.5	567.6	0.1	568.3	0.3	568.5
1979	0.0	0.6	0.5	64.7	42.7	0.4	4.9	390.9	47.4	551.4	0.1	552.1	0.3	552.4
1980	**0.0**	**0.5**	**0.4**	**59.7**	**45.4**	**0.1**	**4.3**	**379.8**	**75.8**	**565.5**	**0.1**	**566.1**	**0.3**	**566.3**
1981	0.0	0.7	0.4	54.6	98.9	0.7	4.1	377.8	77.3	613.8	0.1	614.6	0.3	614.9
1982	0.0	1.0	0.7	60.6	191.2	0.6	3.8	382.9	73.5	713.3	0.1	714.4	0.3	714.7
1983	0.0	1.0	0.8	66.9	209.8	0.7	4.0	403.5	77.8	763.4	0.1	764.5	0.2	764.7
1984	0.0	2.4	0.7	71.5	239.9	0.5	4.2	401.9	73.3	792.0	0.2	794.7	0.5	795.1
1985	**0.0**	**2.3**	**0.9**	**78.5**	**248.6**	**0.3**	**3.9**	**390.1**	**64.5**	**786.9**	**0.3**	**789.5**	**0.7**	**790.2**
1986	0.0	2.9	0.8	85.5	221.8	0.3	3.8	418.0	61.2	791.5	0.3	794.7	0.7	795.4
1987	0.0	3.5	1.0	85.1	245.2	0.3	4.3	420.0	43.7	799.6	0.3	803.4	0.7	804.1
1988	0.0	2.9	0.8	92.6	231.1	0.3	4.2	420.3	33.7	782.9	0.3	786.1	0.7	786.8
1989	0.0	4.1	0.6	89.4	249.9	0.3	4.3	421.3	42.3	808.1	0.3	812.5	0.7	813.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 200. Estimates of Energy Input at Electric Utilities, 1960–1989, New Jersey

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**3,563**	**1**	**3,565**	**25**	**11,160**	**357**	**0**	**11,518**	**0**	**35**	**0**	**0**	
1961	4,685	1	4,685	23	8,553	274	0	8,826	0	11	0	0	
1962	4,732	1	4,732	28	9,048	289	0	9,337	0	15	0	0	
1963	4,960	*	4,960	29	10,315	330	0	10,645	0	10	0	0	
1964	5,652	4	5,657	28	11,630	372	0	12,002	0	12	0	0	
1965	**6,829**	*	**6,829**	**22**	**11,947**	**382**	**0**	**12,329**	**0**	**-35**	**0**	**0**	
1966	7,123	0	7,123	23	15,519	496	0	16,016	0	-136	0	0	
1967	5,888	0	5,888	24	21,401	685	0	22,086	0	-209	0	0	
1968	5,608	0	5,608	28	25,836	827	0	26,662	0	-348	0	0	
1969	4,332	0	4,332	47	32,977	1,055	0	34,032	107	-385	0	0	
1970	**4,054**	**0**	**4,054**	**46**	**37,665**	**1,220**	**0**	**38,885**	**3,454**	**-407**	**0**	**0**	
1971	3,442	0	3,442	40	36,028	2,850	23	38,902	3,825	-314	0	0	
1972	1,107	0	1,107	25	41,093	7,440	0	48,533	4,356	-224	0	0	
1973	2,380	0	2,380	24	40,343	8,607	0	48,950	3,585	-338	0	0	
1974	3,117	0	3,117	15	32,123	9,418	0	41,541	3,673	-285	0	0	
1975	**2,250**	**0**	**2,250**	**9**	**23,924**	**2,244**	**0**	**26,168**	**3,146**	**-276**	**0**	**0**	
1976	2,604	0	2,604	10	23,012	2,897	0	25,909	3,855	-249	0	0	
1977	2,581	0	2,581	7	25,901	4,129	0	30,030	6,959	-172	0	0	
1978	2,222	0	2,222	1	26,471	3,008	0	29,479	8,169	-178	0	0	
1979	2,209	0	2,209	31	18,853	2,195	0	21,049	6,611	-286	0	0	
1980	**2,545**	**0**	**2,545**	**80**	**12,919**	**2,821**	**0**	**15,740**	**7,627**	**-286**	**0**	**0**	
1981	2,768	0	2,768	80	9,861	1,334	0	11,195	11,675	-234	0	0	
1982	2,744	0	2,744	66	8,086	709	0	8,794	14,039	-225	0	0	
1983	3,132	0	3,132	97	7,597	996	0	8,593	6,328	-231	0	0	
1984	2,853	0	2,853	95	8,287	1,033	0	9,320	5,610	-249	0	0	
1985	**3,476**	**0**	**3,476**	**61**	**4,997**	**671**	**0**	**5,668**	**17,770**	**-247**	**0**	**0**	
1986	2,637	0	2,637	37	8,489	697	0	9,186	14,770	-289	0	0	
1987	3,081	0	3,081	75	4,671	1,024	0	5,695	22,697	-312	0	0	
1988	2,773	0	2,773	51	7,547	1,657	0	9,204	23,890	-222	0	0	
1989	3,244	0	3,244	55	7,859	2,123	0	9,982	23,032	-261	0	0	
	Trillion Btu												
1960	**95.4**	*	**95.4**	**26.4**	**70.2**	**2.1**	**0.0**	**72.2**	**0.0**	**0.4**	**0.0**	**0.0**	**194.4**
1961	125.3	*	125.3	23.7	53.8	1.6	0.0	55.4	0.0	0.1	0.0	0.0	204.5
1962	126.6	*	126.6	28.5	56.9	1.7	0.0	58.6	0.0	0.2	0.0	0.0	213.9
1963	132.2	*	132.2	30.2	64.8	1.9	0.0	66.8	0.0	0.1	0.0	0.0	229.2
1964	150.3	0.1	150.3	29.4	73.1	2.2	0.0	75.3	0.0	0.1	0.0	0.0	255.1
1965	**180.7**	*	**180.7**	**23.4**	**75.1**	**2.2**	**0.0**	**77.3**	**0.0**	**-0.4**	**0.0**	**0.0**	**281.1**
1966	187.8	0.0	187.8	23.9	97.6	2.9	0.0	100.5	0.0	-1.4	0.0	0.0	310.7
1967	154.8	0.0	154.8	24.8	134.6	4.0	0.0	138.5	0.0	-2.2	0.0	0.0	316.0
1968	147.2	0.0	147.2	28.5	162.4	4.8	0.0	167.2	0.0	-3.6	0.0	0.0	339.4
1969	112.5	0.0	112.5	48.9	207.3	6.1	0.0	213.5	1.2	-4.0	0.0	0.0	372.1
1970	**101.1**	**0.0**	**101.1**	**47.1**	**236.8**	**7.1**	**0.0**	**243.9**	**37.9**	**-4.3**	**0.0**	**0.0**	**425.8**
1971	84.7	0.0	84.7	41.0	226.5	16.6	0.1	243.3	41.5	-3.3	0.0	0.0	407.2
1972	28.0	0.0	28.0	25.8	258.4	43.1	0.0	301.5	47.0	-2.3	0.0	0.0	399.9
1973	60.9	0.0	60.9	25.2	253.6	50.0	0.0	303.6	39.1	-3.5	0.0	0.0	425.3
1974	76.5	0.0	76.5	15.5	202.0	54.7	0.0	256.7	41.0	-3.0	0.0	0.0	386.7
1975	**57.2**	**0.0**	**57.2**	**8.8**	**150.4**	**13.0**	**0.0**	**163.4**	**34.6**	**-2.9**	**0.0**	**0.0**	**261.2**
1976	68.0	0.0	68.0	10.3	144.7	16.7	0.0	161.4	42.6	-2.6	0.0	0.0	279.7
1977	67.0	0.0	67.0	7.4	162.8	23.7	0.0	186.5	74.9	-1.8	0.0	0.0	334.1
1978	58.0	0.0	58.0	0.8	166.4	17.3	0.0	183.7	89.4	-1.8	0.0	0.0	330.0
1979	57.6	0.0	57.6	31.9	118.5	12.7	0.0	131.2	71.9	-3.0	0.0	0.0	289.7
1980	**66.6**	**0.0**	**66.6**	**82.2**	**81.2**	**16.3**	**0.0**	**97.5**	**83.2**	**-3.0**	**0.0**	**0.0**	**326.6**
1981	72.6	0.0	72.6	83.0	62.0	7.7	0.0	69.7	128.8	-2.4	0.0	0.0	351.6
1982	72.4	0.0	72.4	67.7	50.8	4.1	0.0	54.9	155.5	-2.4	0.0	0.0	348.1
1983	82.8	0.0	82.8	100.5	47.8	5.8	0.0	53.6	69.0	-2.4	0.0	0.0	303.4
1984	75.4	0.0	75.4	98.8	52.1	6.0	0.0	58.1	60.8	-2.6	0.0	0.0	290.5
1985	**92.0**	**0.0**	**92.0**	**64.2**	**31.4**	**3.9**	**0.0**	**35.3**	**192.1**	**-2.6**	**0.0**	**0.0**	**381.1**
1986	69.8	0.0	69.8	38.2	53.4	4.1	0.0	57.4	159.5	-3.0	0.0	0.0	321.9
1987	81.6	0.0	81.6	77.6	29.4	6.0	0.0	35.3	244.6	-3.2	0.0	0.0	435.9
1988	73.9	0.0	73.9	52.8	47.4	9.7	0.0	57.1	256.7	-2.3	0.0	0.0	438.1
1989	86.4	0.0	86.4	57.2	49.4	12.4	0.0	61.8	247.0	-2.7	0.0	0.0	449.7

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 201. Energy Consumption Estimates by Source, 1960-1989, New Mexico

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**174**	**200**	**964**	**201**	**3,067**	**2,186**	**485**	**3,014**	**226**	**9,555**	**191**	**484**	**20,372**	**0**	**69**	**0**	**0**	**951**	
1961	143	212	1,012	179	2,845	2,321	188	3,258	220	9,674	323	500	20,520	0	52	0	0	1,147	
1962	108	239	1,008	288	3,518	2,564	130	3,069	308	10,036	284	542	21,747	0	64	0	0	1,484	
1963	876	217	1,027	280	3,625	2,673	170	3,099	308	10,410	224	544	22,361	0	44	0	0	-2,806	
1964	1,720	204	1,171	315	3,950	2,778	372	3,903	324	10,505	173	616	24,108	0	9	0	0	-7,072	
1965	**2,450**	**202**	**1,388**	**239**	**3,895**	**2,530**	**376**	**3,334**	**237**	**10,806**	**699**	**645**	**24,148**	**0**	**43**	**0**	**0**	**-14,477**	
1966	2,055	223	1,227	201	3,565	2,736	617	2,945	246	11,150	401	662	23,752	0	68	0	0	-12,003	
1967	2,481	256	1,142	143	3,005	3,175	866	3,233	218	11,279	116	671	23,847	0	35	0	0	-14,190	
1968	2,397	261	1,457	129	4,178	3,728	864	3,842	239	11,860	98	730	27,124	0	43	0	0	-12,371	
1969	2,813	252	967	126	4,527	3,260	1,077	4,605	265	12,547	102	736	28,213	0	64	0	0	-14,788	
1970	**5,529**	**270**	**1,208**	**111**	**5,410**	**3,110**	**994**	**4,413**	**270**	**13,146**	**220**	**731**	**29,615**	**0**	**66**	**0**	**0**	**-27,673**	
1971	6,690	269	813	117	5,404	2,994	631	4,310	282	14,161	430	723	29,865	0	27	0	0	-30,718	
1972	6,857	288	965	107	6,565	2,862	660	5,026	302	15,085	650	810	33,032	0	20	0	0	-32,869	
1973	7,534	257	995	85	7,647	2,723	1,150	4,520	298	16,060	1,588	941	36,008	0	65	0	0	-37,177	
1974	7,930	257	1,365	107	6,922	2,749	626	4,338	286	15,719	2,374	1,512	35,998	0	73	0	0	-39,692	
1975	**7,425**	**240**	**1,632**	**81**	**6,717**	**2,667**	**654**	**3,865**	**317**	**16,493**	**3,046**	**1,450**	**36,923**	**0**	**63**	**0**	**0**	**-39,258**	
1976	7,698	279	1,462	79	7,324	2,440	566	3,853	352	17,423	2,454	1,622	37,575	0	76	0	0	-38,790	
1977	8,590	230	1,198	82	8,805	2,595	832	3,938	331	18,005	2,274	1,437	39,497	0	28	0	0	-41,857	
1978	8,079	214	1,432	82	9,512	2,338	791	3,604	356	18,922	1,333	1,526	39,895	0	30	0	0	-34,708	
1979	8,563	211	1,421	80	9,429	2,647	895	4,496	372	17,976	1,041	1,831	40,189	0	68	0	0	-34,932	
1980	**11,458**	**222**	**1,138**	**167**	**7,967**	**2,673**	**1,339**	**4,710**	**332**	**16,913**	**1,033**	**1,801**	**38,074**	**0**	**94**	**0**	**0**	**-46,980**	
1981	10,750	196	1,164	136	12,471	2,554	767	3,120	318	16,972	854	1,085	39,441	0	88	0	0	-43,925	
1982	12,312	204	1,448	129	7,978	2,629	585	2,720	290	17,144	792	1,082	34,799	0	79	0	0	-49,333	
1983	14,469	179	1,774	106	6,754	2,638	1,937	2,736	304	17,088	3,441	1,386	38,165	0	89	0	0	-56,245	
1984	13,979	162	1,901	83	7,147	2,999	2,473	5,573	324	17,447	4,860	1,041	43,848	0	94	0	0	-46,412	
1985	**14,589**	**151**	**1,501**	**95**	**8,517**	**2,873**	**1,787**	**3,415**	**302**	**17,900**	**2,679**	**1,013**	**40,082**	**0**	**128**	**0**	**0**	**-47,260**	
1986	13,245	134	1,616	104	9,711	2,783	918	1,819	295	18,298	1,657	1,151	38,352	0	166	0	0	-37,803	
1987	14,395	153	2,069	87	10,654	2,983	947	1,599	334	18,897	602	1,286	39,456	0	164	0	0	-41,812	
1988	14,715	173	2,113	55	10,229	2,812	922	1,654	322	19,328	667	1,515	39,616	0	100	0	0	-42,892	
1989	15,295	196	1,666	96	8,977	2,849	720	7,272	330	18,888	2,004	1,569	44,369	0	232	0	0	-47,377	
													Trillion Btu						
1960	**4.1**	**207.3**	**6.4**	**1.0**	**17.9**	**11.7**	**2.7**	**12.1**	**1.4**	**50.2**	**1.2**	**2.9**	**107.5**	**0.0**	**0.7**	**0.0**	**0.0**	**3.2**	**322.8**
1961	3.3	218.9	6.7	0.9	16.6	12.5	1.1	13.1	1.3	50.8	2.0	3.0	108.0	0.0	0.6	0.0	0.0	3.9	334.7
1962	2.5	247.1	6.7	1.5	20.5	13.8	0.7	12.3	1.9	52.7	1.8	3.3	115.1	0.0	0.7	0.0	0.0	5.1	370.4
1963	15.8	239.9	6.8	1.4	21.1	14.4	1.0	12.4	1.9	54.7	1.4	3.3	118.4	0.0	0.5	0.0	0.0	-9.6	364.9
1964	31.3	226.7	7.8	1.6	23.0	15.0	2.1	15.7	2.0	55.2	1.1	3.7	127.0	0.0	0.1	0.0	0.0	-24.1	361.0
1965	**44.3**	**224.3**	**9.2**	**1.2**	**22.7**	**13.7**	**2.1**	**13.4**	**1.4**	**56.8**	**4.4**	**3.9**	**128.8**	**0.0**	**0.4**	**0.0**	**0.0**	**-49.4**	**348.3**
1966	37.0	247.4	8.1	1.0	20.8	14.8	3.5	11.8	1.5	58.6	2.5	4.0	126.6	0.0	0.7	0.0	0.0	-41.0	370.8
1967	44.1	280.4	7.6	0.7	17.5	17.3	4.9	12.4	1.3	59.2	0.7	4.0	125.7	0.0	0.4	0.0	0.0	-48.4	402.2
1968	43.0	286.3	9.7	0.7	24.3	20.3	4.9	14.7	1.5	62.3	0.6	4.4	143.3	0.0	0.4	0.0	0.0	-42.2	430.8
1969	50.2	276.6	6.4	0.6	26.4	17.8	6.1	17.5	1.6	65.9	0.6	4.4	147.4	0.0	0.7	0.0	0.0	-50.5	424.4
1970	**99.4**	**292.5**	**8.0**	**0.6**	**31.5**	**17.0**	**5.6**	**16.7**	**1.6**	**69.1**	**1.4**	**4.4**	**155.9**	**0.0**	**0.7**	**0.0**	**0.0**	**-94.4**	**454.1**
1971	120.7	291.7	5.4	0.6	31.5	16.3	3.6	16.3	1.7	74.4	2.7	4.3	156.8	0.0	0.3	0.0	0.0	-104.8	464.7
1972	123.8	311.9	6.4	0.5	38.2	15.6	3.7	18.9	1.8	79.2	4.1	4.9	173.5	0.0	0.2	0.0	0.0	-112.1	497.2
1973	134.5	274.0	6.6	0.4	44.5	14.9	6.5	16.9	1.8	84.4	10.0	5.7	191.7	0.0	0.7	0.0	0.0	-126.8	474.1
1974	140.9	273.4	9.1	0.5	40.3	15.0	3.5	16.2	1.7	82.6	14.9	9.1	193.0	0.0	0.8	0.0	0.0	-135.4	472.7
1975	**132.5**	**255.6**	**10.8**	**0.4**	**39.1**	**14.6**	**3.7**	**14.4**	**1.9**	**86.6**	**19.1**	**8.7**	**199.5**	**0.0**	**0.7**	**0.0**	**0.0**	**-133.9**	**454.3**
1976	137.5	294.9	9.7	0.4	42.7	13.4	3.2	14.3	2.1	91.5	15.4	9.7	202.4	0.0	0.8	0.0	0.0	-132.4	503.3
1977	153.9	242.9	8.0	0.4	51.3	14.2	4.7	14.5	2.0	94.6	14.3	8.6	212.6	0.0	0.3	0.0	0.0	-142.8	466.9
1978	145.7	225.5	9.5	0.4	55.4	12.8	4.5	13.2	2.2	99.4	8.4	9.2	214.9	0.0	0.3	0.0	0.0	-118.4	468.0
1979	152.9	223.1	9.4	0.4	54.9	14.5	5.1	16.5	2.3	94.4	6.5	11.0	215.1	0.0	0.7	0.0	0.0	-119.2	472.6
1980	**202.9**	**231.3**	**7.6**	**0.8**	**46.4**	**14.6**	**7.6**	**17.3**	**2.0**	**88.8**	**6.5**	**10.8**	**202.4**	**0.0**	**1.0**	**0.0**	**0.0**	**-160.3**	**477.3**
1981	196.9	205.4	7.7	0.7	72.6	13.9	4.3	11.4	1.9	89.2	5.4	6.8	214.0	0.0	0.9	0.0	0.0	-149.9	467.4
1982	225.5	213.4	9.6	0.7	46.5	14.3	3.3	9.8	1.8	90.1	5.0	6.8	187.8	0.0	0.8	0.0	0.0	-168.3	459.2
1983	263.7	184.6	11.8	0.5	39.3	14.4	11.0	9.9	1.8	89.8	21.6	8.5	208.7	0.0	0.9	0.0	0.0	-191.9	465.9
1984	252.9	169.8	12.6	0.4	41.6	16.4	14.0	20.1	2.0	91.6	30.6	6.3	235.6	0.0	1.0	0.0	0.0	-158.4	500.9
1985	**268.4**	**162.3**	**10.0**	**0.5**	**49.6**	**15.7**	**10.1**	**12.3**	**1.8**	**94.0**	**16.8**	**6.3**	**217.1**	**0.0**	**1.3**	**0.0**	**0.0**	**-161.3**	**487.9**
1986	241.6	144.5	10.7	0.5	56.6	15.2	5.2	6.6	1.8	96.1	10.4	7.1	210.3	0.0	1.7	0.0	0.0	-129.0	469.1
1987	260.7	164.6	13.7	0.4	62.1	16.4	5.4	5.9	2.0	99.3	3.8	7.8	216.7	0.0	1.7	0.0	0.0	-142.7	501.0
1988	266.1	185.2	14.0	0.3	59.6	15.4	5.2	6.0	2.0	101.5	4.2	9.1	217.3	0.0	1.0	0.0	0.0	-146.3	523.4
1989	279.5	205.1	11.1	0.5	52.3	15.6	4.1	26.8	2.0	99.2	12.6	9.4	233.5	0.0	2.4	0.0	0.0	-161.6	558.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 202. Residential Energy Consumption Estimates, 1960–1989, New Mexico

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**15**	**0**	**15**	**20**	**3**	**17**	**1,441**	**1,461**	**872**	**2,169**		
1961	12	0	12	23	2	6	1,717	1,725	930	2,266		
1962	11	0	11	24	2	4	1,547	1,553	1,013	2,435		
1963	7	0	7	25	2	8	1,565	1,575	1,125	2,691		
1964	6	0	6	22	3	12	1,829	1,844	1,249	2,975		
1965	**4**	**0**	**4**	**24**	**2**	**14**	**1,518**	**1,534**	**988**	**2,360**		
1966	2	0	2	29	1	27	1,302	1,331	1,071	2,569		
1967	2	0	2	31	1	8	1,603	1,612	1,127	2,693		
1968	1	0	1	32	1	19	1,780	1,801	1,233	2,941		
1969	1	0	1	28	2	31	2,124	2,157	1,351	3,226		
1970	*	**0**	*	**31**	**3**	**29**	**2,004**	**2,036**	**1,475**	**3,574**		
1971	*	0	*	32	3	20	1,869	1,893	1,629	3,939		
1972	0	0	0	35	4	25	2,083	2,112	1,775	4,273		
1973	0	0	0	24	5	58	1,753	1,816	1,956	4,682		
1974	0	0	0	25	4	29	1,600	1,633	2,044	4,983		
1975	**0**	**0**	**0**	**28**	**5**	**27**	**1,270**	**1,301**	**1,957**	**4,720**		
1976	0	0	0	36	5	31	1,231	1,267	2,053	4,944		
1977	0	0	0	26	8	39	1,363	1,411	2,154	5,202		
1978	0	0	0	26	7	38	1,124	1,170	2,249	5,502		
1979	1	0	1	28	5	42	1,257	1,304	2,397	5,785		
1980	**15**	**0**	**15**	**29**	**11**	**132**	**1,209**	**1,352**	**2,453**	**5,965**		
1981	2	0	2	25	18	85	820	923	2,355	5,613		
1982	4	0	4	26	24	178	1,078	1,280	2,419	5,809		
1983	4	0	4	27	17	287	1,282	1,585	2,569	6,155		
1984	3	0	3	27	17	450	785	1,251	3,039	7,058		
1985	**3**	**0**	**3**	**22**	**21**	**383**	**2,408**	**2,811**	**3,098**	**7,266**		
1986	2	0	2	24	35	281	1,067	1,383	3,144	7,208		
1987	2	0	2	28	13	344	1,072	1,429	3,306	7,535		
1988	1	0	1	28	12	208	1,020	1,239	3,394	7,664		
1989	3	0	3	27	11	103	1,594	1,708	3,463	7,767		
					Trillion Btu							
1960	**0.3**	**0.0**	**0.3**	**21.1**	*	**0.1**	**5.8**	**5.9**	**3.0**	**30.3**	**7.4**	**37.7**
1961	0.3	0.0	0.3	23.3	*	*	6.9	6.9	3.2	33.7	7.7	41.4
1962	0.2	0.0	0.2	24.3	*	*	6.2	6.2	3.5	34.3	8.3	42.6
1963	0.2	0.0	0.2	27.2	*	*	6.3	6.3	3.8	37.5	9.2	46.7
1964	0.1	0.0	0.1	24.8	*	0.1	7.3	7.4	4.3	36.6	10.1	46.8
1965	**0.1**	**0.0**	**0.1**	**26.9**	*	**0.1**	**6.1**	**6.2**	**3.4**	**36.5**	**8.1**	**44.5**
1966	0.1	0.0	0.1	32.6	*	0.2	5.2	5.4	3.7	41.7	8.8	50.5
1967	*	0.0	*	34.1	*	*	6.2	6.2	3.8	44.2	9.2	53.4
1968	*	0.0	*	34.7	*	0.1	6.8	6.9	4.2	45.8	10.0	55.8
1969	*	0.0	*	30.8	*	0.2	8.1	8.3	4.6	43.7	11.0	54.7
1970	*	**0.0**	*	**33.3**	*	**0.2**	**7.6**	**7.8**	**5.0**	**46.1**	**12.2**	**58.3**
1971	*	0.0	*	35.1	*	0.1	7.1	7.2	5.6	47.8	13.4	61.3
1972	0.0	0.0	0.0	37.7	*	0.1	7.8	8.0	6.1	51.8	14.6	66.4
1973	0.0	0.0	0.0	25.6	*	0.3	6.6	6.9	6.7	39.2	16.0	55.1
1974	0.0	0.0	0.0	27.2	*	0.2	6.0	6.2	7.0	40.3	17.0	57.3
1975	**0.0**	**0.0**	**0.0**	**29.9**	*	**0.2**	**4.7**	**4.9**	**6.7**	**41.5**	**16.1**	**57.6**
1976	0.0	0.0	0.0	38.9	*	0.2	4.6	4.8	7.0	50.7	16.9	67.5
1977	0.0	0.0	0.0	27.3	*	0.2	5.0	5.3	7.4	39.9	17.7	57.7
1978	0.0	0.0	0.0	27.4	*	0.2	4.1	4.4	7.7	39.5	18.8	58.3
1979	*	0.0	*	29.7	*	0.2	4.6	4.9	8.2	42.8	19.7	62.5
1980	**0.3**	**0.0**	**0.3**	**29.9**	**0.1**	**0.7**	**4.4**	**5.3**	**8.4**	**43.9**	**20.4**	**64.2**
1981	*	0.0	*	26.0	0.1	0.5	3.0	3.6	8.0	37.6	19.2	56.8
1982	0.1	0.0	0.1	27.8	0.1	1.0	3.9	5.0	8.3	41.2	19.8	61.0
1983	0.1	0.0	0.1	27.7	0.1	1.6	4.6	6.4	8.8	42.9	21.0	63.9
1984	0.1	0.0	0.1	29.1	0.1	2.5	2.8	5.5	10.4	45.0	24.1	69.1
1985	**0.1**	**0.0**	**0.1**	**23.9**	**0.1**	**2.2**	**8.7**	**11.0**	**10.6**	**45.5**	**24.8**	**70.3**
1986	*	0.0	*	26.0	0.2	1.6	3.9	5.7	10.7	42.5	24.6	67.1
1987	*	0.0	*	29.8	0.1	2.0	3.9	5.9	11.3	47.0	25.7	72.7
1988	*	0.0	*	29.9	0.1	1.2	3.7	5.0	11.6	46.5	26.1	72.6
1989	0.1	0.0	0.1	27.9	0.1	0.6	5.9	6.5	11.8	46.3	26.5	72.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* *Btu value less than 0.05, and physical unit value less than 0.5.*
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 203. Commercial Energy Consumption Estimates, 1960-1989, New Mexico

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**27**	**0**	**27**	**9**	**107**	**4**	**254**	**46**	**0**	**412**	**963**	**2,395**		
1961	22	0	22	10	93	1	303	49	0	446	1,061	2,585		
1962	20	0	20	13	86	1	273	52	0	412	1,159	2,787		
1963	13	0	13	10	74	2	276	54	0	407	1,261	3,015		
1964	10	0	10	12	98	3	323	52	0	476	1,397	3,327		
1965	**7**	**0**	**7**	**13**	**65**	**4**	**268**	**54**	**0**	**391**	**1,485**	**3,547**		
1966	5	0	5	14	51	7	230	57	0	345	1,661	3,985		
1967	3	0	3	27	38	2	283	61	0	384	1,779	4,249		
1968	2	0	2	31	55	5	314	64	0	439	1,875	4,474		
1969	1	0	1	29	68	8	375	68	0	519	2,063	4,928		
1970	**1**	**0**	**1**	**33**	**114**	**8**	**354**	**70**	**0**	**545**	**2,216**	**5,371**		
1971	1	0	1	34	127	5	330	70	0	532	2,440	5,899		
1972	0	0	0	32	138	7	368	69	0	581	2,684	6,460		
1973	0	0	0	26	206	15	309	72	0	603	2,925	7,003		
1974	0	0	0	25	167	8	282	85	0	542	2,978	7,260		
1975	**0**	**0**	**0**	**23**	**179**	**7**	**224**	**91**	**0**	**501**	**2,743**	**6,618**		
1976	0	0	0	34	197	8	217	95	0	517	2,988	7,198		
1977	0	0	0	25	299	10	241	97	0	647	3,143	7,589		
1978	0	0	0	26	278	10	198	101	0	588	3,156	7,721		
1979	2	0	2	26	190	11	222	104	0	527	3,263	7,875		
1980	**29**	**0**	**29**	**25**	**133**	**659**	**213**	**108**	**0**	**1,113**	**3,380**	**8,219**		
1981	3	0	3	20	681	526	145	120	0	1,472	3,299	7,863		
1982	8	0	8	22	558	153	190	124	0	1,026	3,494	8,392		
1983	7	0	7	22	487	1,186	226	106	618	2,623	3,470	8,313		
1984	5	0	5	23	478	1,383	139	95	897	2,991	4,606	10,695		
1985	**5**	**0**	**5**	**17**	**452**	**571**	**425**	**113**	**12**	**1,573**	**4,664**	**10,937**		
1986	3	0	3	21	406	175	188	116	0	885	4,855	11,131		
1987	4	0	4	20	707	242	189	122	0	1,261	5,171	11,785		
1988	2	0	2	31	561	566	180	118	0	1,425	5,329	12,036		
1989	5	0	5	28	506	146	281	119	0	1,052	5,699	12,784		
							Trillion Btu							
1960	**0.6**	**0.0**	**0.6**	**9.3**	**0.6**	*****	**1.0**	**0.2**	**0.0**	**1.9**	**3.3**	**15.2**	**8.2**	**23.3**
1961	0.5	0.0	0.5	10.6	0.5	*	1.2	0.3	0.0	2.0	3.6	16.8	8.8	25.6
1962	0.5	0.0	0.5	13.2	0.5	*	1.1	0.3	0.0	1.9	4.0	19.5	9.5	29.0
1963	0.3	0.0	0.3	11.1	0.4	*	1.1	0.3	0.0	1.8	4.3	17.5	10.3	27.8
1964	0.2	0.0	0.2	13.8	0.6	*	1.3	0.3	0.0	2.2	4.8	21.0	11.4	32.3
1965	**0.2**	**0.0**	**0.2**	**13.9**	**0.4**	*****	**1.1**	**0.3**	**0.0**	**1.8**	**5.1**	**20.9**	**12.1**	**33.0**
1966	0.1	0.0	0.1	15.5	0.3	*	0.9	0.3	0.0	1.6	5.7	22.8	13.6	36.4
1967	0.1	0.0	0.1	30.1	0.2	*	1.1	0.3	0.0	1.6	6.1	37.9	14.5	52.4
1968	0.1	0.0	0.1	33.7	0.3	*	1.2	0.3	0.0	1.9	6.4	42.1	15.3	57.3
1969	*	0.0	*	31.5	0.4	*	1.4	0.4	0.0	2.2	7.0	40.8	16.8	57.6
1970	*****	**0.0**	*****	**35.8**	**0.7**	*****	**1.3**	**0.4**	**0.0**	**2.4**	**7.6**	**45.8**	**18.3**	**64.1**
1971	*	0.0	*	36.6	0.7	*	1.2	0.4	0.0	2.4	8.3	47.3	20.1	67.4
1972	0.0	0.0	0.0	35.2	0.8	*	1.4	0.4	0.0	2.6	9.2	47.0	22.0	69.0
1973	0.0	0.0	0.0	27.5	1.2	0.1	1.2	0.4	0.0	2.8	10.0	40.3	23.9	64.2
1974	0.0	0.0	0.0	27.1	1.0	*	1.1	0.4	0.0	2.5	10.2	39.7	24.8	64.5
1975	**0.0**	**0.0**	**0.0**	**24.5**	**1.0**	*****	**0.8**	**0.5**	**0.0**	**2.4**	**9.4**	**36.3**	**22.6**	**58.9**
1976	0.0	0.0	0.0	35.9	1.1	*	0.8	0.5	0.0	2.5	10.2	48.6	24.6	73.2
1977	0.0	0.0	0.0	27.3	1.7	0.1	0.9	0.5	0.0	3.2	10.7	41.2	25.9	67.1
1978	0.0	0.0	0.0	27.3	1.6	0.1	0.7	0.5	0.0	2.9	10.8	41.0	26.3	67.3
1979	*	0.0	*	28.1	1.1	0.1	0.8	0.5	0.0	2.5	11.1	41.8	26.9	68.7
1980	**0.6**	**0.0**	**0.6**	**25.7**	**0.8**	**3.7**	**0.8**	**0.6**	**0.0**	**5.9**	**11.5**	**43.6**	**28.0**	**71.7**
1981	0.1	0.0	0.1	21.5	4.0	3.0	0.5	0.6	0.0	8.1	11.3	41.0	26.8	67.8
1982	0.2	0.0	0.2	22.8	3.3	0.9	0.7	0.7	0.0	5.5	11.9	40.4	28.6	69.0
1983	0.1	0.0	0.1	23.3	2.8	6.7	0.8	0.6	3.9	14.8	11.8	50.1	28.4	78.5
1984	0.1	0.0	0.1	24.4	2.8	7.8	0.5	0.5	5.6	17.3	15.7	57.4	36.5	93.9
1985	**0.1**	**0.0**	**0.1**	**18.2**	**2.6**	**3.2**	**1.5**	**0.6**	**0.1**	**8.1**	**15.9**	**42.3**	**37.3**	**79.6**
1986	0.1	0.0	0.1	22.4	2.4	1.0	0.7	0.6	0.0	4.7	16.6	43.6	38.0	81.6
1987	0.1	0.0	0.1	21.5	4.1	1.4	0.7	0.6	0.0	6.8	17.6	46.1	40.2	86.3
1988	*	0.0	*	33.3	3.3	3.2	0.7	0.6	0.0	7.8	18.2	59.3	41.1	100.4
1989	0.1	0.0	0.1	29.9	2.9	0.8	1.0	0.6	0.0	5.4	19.4	54.9	43.6	98.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 204. Industrial Energy Consumption Estimates, 1960-1989, New Mexico

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	105	0	105	120	964	1,028	463	1,194	67	295	59	484	4,555	0	1,548	3,851
1961	76	0	76	118	1,012	900	181	1,091	65	269	156	500	4,174	0	1,648	4,016
1962	49	0	49	139	1,008	1,042	126	1,103	66	264	179	542	4,329	0	1,771	4,257
1963	26	0	26	120	1,027	954	160	1,115	66	257	124	544	4,246	0	1,841	4,403
1964	37	0	37	108	1,171	1,382	356	1,511	69	223	112	616	5,440	0	1,920	4,573
1965	22	0	22	97	1,388	1,206	358	1,345	72	241	621	645	5,876	0	1,299	3,103
1966	14	0	14	112	1,227	982	582	1,243	75	235	310	662	5,316	0	1,410	3,384
1967	18	0	18	122	1,142	736	857	1,196	71	193	39	671	4,904	0	1,520	3,631
1968	17	0	17	123	1,457	1,322	840	1,529	78	212	60	730	6,228	0	1,663	3,968
1969	13	0	13	112	967	1,511	1,038	1,838	103	185	61	736	6,439	0	1,794	4,285
1970	11	0	11	121	1,208	2,127	957	1,813	104	192	123	731	7,256	0	1,911	4,632
1971	12	0	12	125	813	1,995	605	1,830	116	200	75	723	6,357	0	2,057	4,973
1972	8	0	8	126	965	2,397	628	2,255	124	191	223	810	7,593	0	2,168	5,219
1973	19	0	19	112	995	2,864	1,077	2,223	104	155	825	941	9,186	0	2,182	5,223
1974	7	0	7	107	1,365	2,180	590	2,232	100	153	1,319	1,512	9,451	0	2,050	4,998
1975	0	0	0	95	1,632	2,299	620	2,160	120	145	1,342	1,450	9,769	0	1,960	4,728
1976	8	0	8	111	1,462	2,419	527	2,201	133	135	1,477	1,622	9,976	0	2,166	5,218
1977	18	0	18	86	1,198	3,254	782	2,113	118	128	1,304	1,437	10,336	0	2,382	5,752
1978	83	0	83	76	1,432	3,046	744	2,060	127	105	908	1,526	9,947	0	2,645	6,471
1979	93	0	93	67	1,421	3,576	842	3,008	133	104	245	1,831	11,159	0	2,922	7,052
1980	8	0	8	74	1,138	2,196	548	3,260	118	84	858	1,801	10,003	0	2,945	7,161
1981	125	1	126	57	1,164	3,514	156	2,029	113	72	801	1,085	8,935	0	3,212	7,656
1982	127	0	127	76	1,448	1,629	254	1,363	103	55	625	1,082	6,559	0	2,934	7,048
1983	99	0	99	69	1,774	2,477	465	1,122	108	47	2,671	1,386	10,051	0	2,778	6,655
1984	75	0	75	71	1,901	2,433	641	4,575	116	210	3,875	1,041	14,790	0	3,396	7,885
1985	83	0	83	58	1,501	3,669	833	494	108	361	2,627	1,013	10,605	0	4,111	9,640
1986	93	0	93	44	1,616	3,795	462	483	105	341	1,616	1,151	9,571	0	3,902	8,947
1987	49	0	49	62	2,069	4,026	360	268	119	328	571	1,286	9,028	0	3,855	8,785
1988	51	0	51	56	2,113	3,572	149	380	115	333	625	1,515	8,801	0	4,032	9,106
1989	37	0	37	61	1,666	2,244	471	5,281	118	347	1,968	1,569	13,664	0	4,208	9,439

Trillion Btu

Year	Bituminous Coal and Lignite	Anthracite	Coal Total	Natural Gas	Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG	Lubricants	Motor Gasoline	Residual Fuel	Other	Petroleum Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses	Total[4]
1960	2.4	0.0	2.4	124.5	6.4	6.0	2.6	4.8	0.4	1.6	0.4	2.9	25.0	0.0	5.3	157.2	13.1	170.3
1961	1.7	0.0	1.7	121.6	6.7	5.2	1.0	4.4	0.4	1.4	1.0	3.0	23.2	0.0	5.6	152.2	13.7	165.9
1962	1.1	0.0	1.1	144.3	6.7	6.1	0.7	4.4	0.4	1.4	1.1	3.3	24.1	0.0	6.0	175.5	14.5	190.0
1963	0.6	0.0	0.6	133.0	6.8	5.6	0.9	4.5	0.4	1.3	0.8	3.3	23.5	0.0	6.3	163.4	15.0	178.4
1964	0.8	0.0	0.8	119.9	7.8	8.1	2.0	6.1	0.4	1.2	0.7	3.7	29.9	0.0	6.6	157.1	15.6	172.7
1965	0.5	0.0	0.5	107.1	9.2	7.0	2.0	5.4	0.4	1.3	3.9	3.9	33.1	0.0	4.4	145.2	10.6	155.8
1966	0.3	0.0	0.3	124.5	8.1	5.7	3.3	5.0	0.5	1.2	1.9	4.0	29.8	0.0	4.8	159.4	11.5	170.9
1967	0.4	0.0	0.4	134.2	7.6	4.3	4.9	4.6	0.4	1.0	0.2	4.0	27.0	0.0	5.2	166.8	12.4	179.2
1968	0.4	0.0	0.4	135.2	9.7	7.7	4.8	5.8	0.5	1.1	0.4	4.4	34.3	0.0	5.7	175.6	13.5	189.1
1969	0.3	0.0	0.3	123.2	6.4	8.8	5.9	7.0	0.6	1.0	0.4	4.4	34.5	0.0	6.1	164.1	14.6	178.7
1970	0.2	0.0	0.2	131.2	8.0	12.4	5.4	6.8	0.6	1.0	0.8	4.4	39.5	0.0	6.5	177.4	15.8	193.2
1971	0.3	0.0	0.3	135.3	5.4	11.6	3.4	6.9	0.7	1.1	0.5	4.3	33.9	0.0	7.0	176.5	17.0	193.4
1972	0.2	0.0	0.2	136.8	6.4	14.0	3.6	8.5	0.8	1.0	1.4	4.9	40.4	0.0	7.4	184.8	17.8	202.6
1973	0.4	0.0	0.4	120.2	6.6	16.7	6.1	8.3	0.6	0.8	5.2	5.7	50.0	0.0	7.4	178.0	17.8	195.9
1974	0.2	0.0	0.2	114.4	9.1	12.7	3.3	8.3	0.6	0.8	8.3	9.1	52.2	0.0	7.0	173.8	17.1	190.8
1975	0.0	0.0	0.0	102.6	10.8	13.4	3.5	8.0	0.7	0.8	8.4	8.7	54.4	0.0	6.7	163.7	16.1	179.8
1976	0.2	0.0	0.2	118.6	9.7	14.1	3.0	8.2	0.8	0.7	9.3	9.7	55.5	0.0	7.4	181.6	17.8	199.4
1977	0.4	0.0	0.4	92.5	8.0	19.0	4.4	7.8	0.7	0.7	8.2	8.6	57.3	0.0	8.1	158.3	19.6	177.9
1978	1.7	0.0	1.7	80.4	9.5	17.7	4.2	7.6	0.8	0.6	5.7	9.2	55.2	0.0	9.0	146.4	22.1	168.5
1979	2.0	0.0	2.0	71.8	9.4	20.8	4.8	11.1	0.8	0.5	1.5	11.0	60.0	0.0	10.0	143.8	24.1	167.8
1980	0.2	0.0	0.2	77.6	7.6	12.8	3.1	12.0	0.7	0.4	5.4	10.8	52.8	0.0	10.0	140.6	24.4	165.1
1981	2.7	*	2.7	60.3	7.7	20.5	0.9	7.4	0.7	0.4	5.0	6.8	49.4	0.0	11.0	123.4	26.1	149.6
1982	2.8	0.0	2.8	80.4	9.6	9.5	1.4	4.9	0.6	0.3	3.9	6.8	37.1	0.0	10.0	130.2	24.0	154.3
1983	2.1	0.0	2.1	71.6	11.8	14.4	2.6	4.1	0.7	0.2	16.8	8.5	59.1	0.0	9.5	142.3	22.7	165.0
1984	1.6	0.0	1.6	75.8	12.6	14.2	3.6	16.5	0.7	1.1	24.4	6.3	79.4	0.0	11.6	168.4	26.9	195.3
1985	1.8	0.0	1.8	63.5	10.0	21.4	4.7	1.8	0.7	1.9	16.5	6.3	63.2	0.0	14.0	142.5	32.9	175.4
1986	2.0	0.0	2.0	47.2	10.7	22.1	2.6	1.8	0.6	1.8	10.2	7.1	56.9	0.0	13.3	119.5	30.5	150.0
1987	1.0	0.0	1.0	66.6	13.7	23.5	2.0	1.0	0.7	1.7	3.6	7.8	54.1	0.0	13.2	134.8	30.0	164.8
1988	1.1	0.0	1.1	60.6	14.0	20.8	0.8	1.4	0.7	1.8	3.9	9.1	52.6	0.0	13.8	128.0	31.1	159.1
1989	0.9	0.0	0.9	64.0	11.1	13.1	2.7	19.4	0.7	1.8	12.4	9.4	70.5	0.0	14.4	149.8	32.2	182.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 205. Transportation Energy Consumption Estimates, 1960-1989, New Mexico

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**2**	**17**	**201**	**1,919**	**2,186**	**124**	**159**	**9,213**	**25**	**13,826**	**0**		**0**	
1961	*	26	179	1,840	2,321	147	155	9,356	62	14,060	0		0	
1962	*	25	288	2,380	2,564	146	243	9,720	37	15,378	0		0	
1963	*	23	280	2,589	2,673	143	243	10,099	35	16,062	0		0	
1964	*	20	315	2,461	2,778	241	255	10,230	1	16,281	0		0	
1965	*****	**25**	**239**	**2,618**	**2,530**	**203**	**165**	**10,511**	**36**	**16,301**	**0**		**0**	
1966	*	21	201	2,526	2,736	170	171	10,858	41	16,703	0		0	
1967	*	24	143	2,223	3,175	152	147	11,025	12	16,877	0		0	
1968	*	26	129	2,795	3,728	218	161	11,584	5	18,621	0		0	
1969	*	28	126	2,943	3,260	268	163	12,294	2	19,056	0		0	
1970	*****	**30**	**111**	**3,158**	**3,110**	**243**	**166**	**12,884**	**11**	**19,684**	**0**		**0**	
1971	*	29	117	3,265	2,994	280	166	13,891	7	20,721	0		0	
1972	*	36	107	4,015	2,862	320	178	14,825	0	22,306	0		0	
1973	*	30	85	4,550	2,723	235	194	15,832	0	23,619	0		0	
1974	*	32	107	4,538	2,749	224	186	15,480	0	23,285	0		0	
1975	**0**	**29**	**81**	**4,200**	**2,667**	**211**	**197**	**16,257**	**0**	**23,615**	**0**		**0**	
1976	*	28	79	4,664	2,440	204	219	17,193	0	24,799	0		0	
1977	*	22	82	5,213	2,595	221	213	17,780	0	26,103	0		0	
1978	0	23	82	6,156	2,338	220	229	18,716	0	27,741	0		0	
1979	0	29	80	5,639	2,647	10	240	17,769	0	26,384	0		0	
1980	**0**	**38**	**167**	**5,411**	**2,673**	**29**	**213**	**16,721**	**0**	**25,214**	**0**		**0**	
1981	0	39	136	8,134	2,554	125	205	16,780	0	27,933	0		0	
1982	0	35	129	5,608	2,629	89	187	16,966	0	25,607	0		0	
1983	0	30	106	3,691	2,638	106	195	16,936	*	23,672	0		0	
1984	0	9	83	4,184	2,999	75	208	17,142	*	24,691	0		0	
1985	**0**	**26**	**95**	**4,330**	**2,873**	**89**	**194**	**17,427**	**0**	**25,007**	**0**		**0**	
1986	0	26	104	5,433	2,783	80	190	17,841	0	26,431	0		0	
1987	0	26	87	5,855	2,983	70	215	18,446	0	27,655	0		0	
1988	0	37	55	6,032	2,812	74	207	18,877	0	28,057	0		0	
1989	0	52	96	6,167	2,849	115	212	18,421	0	27,861	0		0	
			Trillion Btu											
1960	*****	**17.6**	**1.0**	**11.2**	**11.7**	**0.5**	**1.0**	**48.4**	**0.2**	**73.9**	**0.0**	**91.5**	**0.0**	**91.5**
1961	*	26.7	0.9	10.7	12.5	0.6	0.9	49.1	0.4	75.2	0.0	101.8	0.0	101.8
1962	*	26.3	1.5	13.9	13.8	0.6	1.5	51.1	0.2	82.5	0.0	108.8	0.0	108.8
1963	*	25.7	1.4	15.1	14.4	0.6	1.5	53.1	0.2	86.2	0.0	111.9	0.0	111.9
1964	*	22.0	1.6	14.3	15.0	1.0	1.5	53.7	*	87.1	0.0	109.1	0.0	109.1
1965	*****	**27.6**	**1.2**	**15.3**	**13.7**	**0.8**	**1.0**	**55.2**	**0.2**	**87.4**	**0.0**	**115.0**	**0.0**	**115.0**
1966	*	23.4	1.0	14.7	14.8	0.7	1.0	57.0	0.3	89.6	0.0	113.0	0.0	113.0
1967	*	26.8	0.7	13.0	17.3	0.6	0.9	57.9	0.1	90.4	0.0	117.2	0.0	117.2
1968	*	28.6	0.7	16.3	20.3	0.8	1.0	60.9	*	99.9	0.0	128.5	0.0	128.5
1969	*	31.3	0.6	17.1	17.8	1.0	1.0	64.6	*	102.1	0.0	133.4	0.0	133.4
1970	*****	**32.8**	**0.6**	**18.4**	**17.0**	**0.9**	**1.0**	**67.7**	**0.1**	**105.7**	**0.0**	**138.5**	**0.0**	**138.5**
1971	*	31.5	0.6	19.0	16.3	1.1	1.0	73.0	*	111.0	0.0	142.5	0.0	142.5
1972	*	39.6	0.5	23.4	15.6	1.2	1.1	77.9	0.0	119.7	0.0	159.3	0.0	159.3
1973	*	31.8	0.4	26.5	14.9	0.9	1.2	83.2	0.0	127.1	0.0	158.9	0.0	158.9
1974	*	34.7	0.5	26.4	15.0	0.8	1.1	81.3	0.0	125.3	0.0	160.0	0.0	160.0
1975	**0.0**	**31.2**	**0.4**	**24.5**	**14.6**	**0.8**	**1.2**	**85.4**	**0.0**	**126.9**	**0.0**	**158.1**	**0.0**	**158.1**
1976	*	29.8	0.4	27.2	13.4	0.8	1.3	90.3	0.0	133.3	0.0	163.1	0.0	163.1
1977	*	23.7	0.4	30.4	14.2	0.8	1.3	93.4	0.0	140.5	0.0	164.2	0.0	164.2
1978	0.0	24.4	0.4	35.9	12.8	0.8	1.4	98.3	0.0	149.6	0.0	174.0	0.0	174.0
1979	0.0	31.0	0.4	32.8	14.5	*	1.5	93.3	0.0	142.6	0.0	173.6	0.0	173.6
1980	**0.0**	**40.2**	**0.8**	**31.5**	**14.6**	**0.1**	**1.3**	**87.8**	**0.0**	**136.2**	**0.0**	**176.3**	**0.0**	**176.3**
1981	0.0	41.4	0.7	47.4	13.9	0.5	1.2	88.1	0.0	151.8	0.0	193.2	0.0	193.2
1982	0.0	36.7	0.7	32.7	14.3	0.3	1.1	89.1	0.0	138.2	0.0	174.9	0.0	174.9
1983	0.0	31.6	0.5	21.5	14.4	0.4	1.2	89.0	*	126.9	0.0	158.5	0.0	158.5
1984	0.0	9.9	0.4	24.4	16.4	0.3	1.3	90.0	*	132.7	0.0	142.6	0.0	142.6
1985	**0.0**	**28.2**	**0.5**	**25.2**	**15.7**	**0.3**	**1.2**	**91.5**	**0.0**	**134.4**	**0.0**	**162.7**	**0.0**	**162.7**
1986	0.0	27.9	0.5	31.6	15.2	0.3	1.2	93.7	0.0	142.5	0.0	170.4	0.0	170.4
1987	0.0	27.8	0.4	34.1	16.4	0.3	1.3	96.9	0.0	149.4	0.0	177.1	0.0	177.1
1988	0.0	39.8	0.3	35.1	15.4	0.3	1.3	99.2	0.0	151.5	0.0	191.3	0.0	191.3
1989	0.0	55.0	0.5	35.9	15.6	0.4	1.3	96.8	0.0	150.5	0.0	205.5	0.0	205.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 206. Estimates of Energy Input at Electric Utilities, 1960–1989, New Mexico

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**26**	**0**	**26**	**34**	**107**	**10**	**0**	**117**	**0**	**69**	**0**	**0**	
1961	33	0	33	35	105	10	0	115	0	52	0	0	
1962	28	0	28	38	68	7	0	75	0	64	0	0	
1963	829	0	829	39	65	6	0	72	0	44	0	0	
1964	1,667	0	1,667	42	61	6	0	67	0	9	0	0	
1965	**2,418**	**0**	**2,418**	**44**	**42**	**4**	**0**	**46**	**0**	**43**	**0**	**0**	
1966	2,033	0	2,033	46	51	5	0	56	0	68	0	0	
1967	2,459	0	2,459	50	64	6	0	70	0	35	0	0	
1968	2,376	0	2,376	49	33	3	0	36	0	43	0	0	
1969	2,798	0	2,798	54	38	4	0	42	0	64	0	0	
1970	**5,518**	**0**	**5,518**	**55**	**86**	**8**	**0**	**94**	**0**	**66**	**0**	**0**	
1971	6,677	0	6,677	49	349	14	0	363	0	27	0	0	
1972	6,850	0	6,850	59	427	12	0	440	0	20	0	0	
1973	7,514	0	7,514	66	763	22	0	785	0	65	0	0	
1974	7,923	0	7,923	68	1,055	32	0	1,087	0	73	0	0	
1975	**7,425**	**0**	**7,425**	**65**	**1,704**	**34**	**0**	**1,738**	**0**	**63**	**0**	**0**	
1976	7,690	0	7,690	70	977	39	0	1,016	0	76	0	0	
1977	8,571	0	8,571	70	970	31	0	1,000	0	28	0	0	
1978	7,996	0	7,996	63	426	24	0	450	0	30	0	0	
1979	8,467	0	8,467	60	796	19	0	815	0	68	0	0	
1980	**11,406**	**0**	**11,406**	**56**	**175**	**216**	**0**	**391**	**0**	**94**	**0**	**0**	
1981	10,619	0	10,619	55	53	124	0	178	0	88	0	0	
1982	12,173	0	12,173	45	168	159	0	327	0	79	0	0	
1983	14,359	0	14,359	31	151	83	0	234	0	89	0	0	
1984	13,896	0	13,896	31	88	36	0	124	0	94	0	0	
1985	**14,498**	**0**	**14,498**	**28**	**41**	**45**	**0**	**86**	**0**	**128**	**0**	**0**	
1986	13,147	0	13,147	20	41	42	0	83	0	166	0	0	
1987	14,340	0	14,340	18	30	52	0	83	0	164	0	0	
1988	14,661	0	14,661	21	42	52	0	94	0	100	0	0	
1989	15,250	0	15,250	27	36	49	0	84	0	232	0	0	
					Trillion Btu								
1960	**0.6**	**0.0**	**0.6**	**34.9**	**0.7**	**0.1**	**0.0**	**0.7**	**0.0**	**0.7**	**0.0**	**0.0**	**37.0**
1961	0.8	0.0	0.8	36.7	0.7	0.1	0.0	0.7	0.0	0.6	0.0	0.0	38.8
1962	0.6	0.0	0.6	39.0	0.4	*	0.0	0.5	0.0	0.7	0.0	0.0	40.7
1963	14.7	0.0	14.7	42.9	0.4	*	0.0	0.4	0.0	0.5	0.0	0.0	58.5
1964	30.1	0.0	30.1	46.2	0.4	*	0.0	0.4	0.0	0.1	0.0	0.0	76.8
1965	**43.5**	**0.0**	**43.5**	**48.7**	**0.3**	*	**0.0**	**0.3**	**0.0**	**0.4**	**0.0**	**0.0**	**93.0**
1966	36.5	0.0	36.5	51.4	0.3	*	0.0	0.3	0.0	0.7	0.0	0.0	89.0
1967	43.6	0.0	43.6	55.1	0.4	*	0.0	0.4	0.0	0.4	0.0	0.0	99.6
1968	42.5	0.0	42.5	54.1	0.2	*	0.0	0.2	0.0	0.4	0.0	0.0	97.3
1969	49.9	0.0	49.9	59.8	0.2	*	0.0	0.3	0.0	0.7	0.0	0.0	110.7
1970	**99.1**	**0.0**	**99.1**	**59.5**	**0.5**	*	**0.0**	**0.6**	**0.0**	**0.7**	**0.0**	**0.0**	**159.9**
1971	120.4	0.0	120.4	53.3	2.2	0.1	0.0	2.3	0.0	0.3	0.0	0.0	176.3
1972	123.6	0.0	123.6	62.6	2.7	0.1	0.0	2.8	0.0	0.2	0.0	0.0	189.2
1973	134.1	0.0	134.1	69.0	4.8	0.1	0.0	4.9	0.0	0.7	0.0	0.0	208.6
1974	140.8	0.0	140.8	70.0	6.6	0.2	0.0	6.8	0.0	0.8	0.0	0.0	218.4
1975	**132.5**	**0.0**	**132.5**	**67.4**	**10.7**	**0.2**	**0.0**	**10.9**	**0.0**	**0.7**	**0.0**	**0.0**	**211.5**
1976	137.3	0.0	137.3	71.7	6.1	0.2	0.0	6.4	0.0	0.8	0.0	0.0	216.2
1977	153.6	0.0	153.6	72.2	6.1	0.2	0.0	6.3	0.0	0.3	0.0	0.0	232.3
1978	144.0	0.0	144.0	65.9	2.7	0.1	0.0	2.8	0.0	0.3	0.0	0.0	213.1
1979	150.9	0.0	150.9	62.5	5.0	0.1	0.0	5.1	0.0	0.7	0.0	0.0	219.1
1980	**201.8**	**0.0**	**201.8**	**57.9**	**1.1**	**1.3**	**0.0**	**2.4**	**0.0**	**1.0**	**0.0**	**0.0**	**263.1**
1981	194.1	0.0	194.1	56.1	0.3	0.7	0.0	1.1	0.0	0.9	0.0	0.0	252.2
1982	222.5	0.0	222.5	45.7	1.1	0.9	0.0	2.0	0.0	0.8	0.0	0.0	271.0
1983	261.3	0.0	261.3	30.4	1.0	0.5	0.0	1.4	0.0	0.9	0.0	0.0	294.1
1984	251.1	0.0	251.1	30.7	0.6	0.2	0.0	0.8	0.0	1.0	0.0	0.0	283.5
1985	**266.4**	**0.0**	**266.4**	**28.5**	**0.3**	**0.3**	**0.0**	**0.5**	**0.0**	**1.3**	**0.0**	**0.0**	**296.8**
1986	239.5	0.0	239.5	21.0	0.3	0.2	0.0	0.5	0.0	1.7	0.0	0.0	262.7
1987	259.5	0.0	259.5	18.9	0.2	0.3	0.0	0.5	0.0	1.7	0.0	0.0	280.6
1988	264.9	0.0	264.9	21.6	0.3	0.3	0.0	0.6	0.0	1.0	0.0	0.0	288.2
1989	278.4	0.0	278.4	28.3	0.2	0.3	0.0	0.5	0.0	2.4	0.0	0.0	309.6

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 207. Energy Consumption Estimates by Source, 1960-1989, New York

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**26,413**	**419**	**5,424**	**13,729**	**82,380**	**9,411**	**5,302**	**2,849**	**2,312**	**95,706**	**77,563**	**3,004**	**297,681**	**0**	**15,709**	**0**	**0**	**-18,429**	
1961	24,177	435	5,173	16,647	87,041	12,164	6,627	2,817	2,250	97,078	84,031	4,157	317,985	0	19,449	0	0	-21,058	
1962	23,635	474	5,667	5,019	95,580	16,489	5,731	2,948	2,207	100,832	88,898	4,492	327,864	61	21,768	0	0	-13,071	
1963	24,540	507	6,210	4,471	96,452	17,498	5,579	3,271	2,206	103,411	88,045	5,566	332,709	591	20,163	0	0	-10,786	
1964	28,096	514	5,582	3,793	95,721	18,771	5,351	3,764	2,317	105,763	83,465	6,941	331,468	382	20,335	0	0	-13,791	
1965	**28,735**	**545**	**6,234**	**2,427**	**104,033**	**23,620**	**5,623**	**3,174**	**2,221**	**109,226**	**104,296**	**6,766**	**367,620**	**727**	**20,072**	**0**	**0**	**-10,286**	
1966	27,998	632	6,377	1,440	102,293	26,017	5,250	3,302	2,307	113,612	118,446	7,792	386,837	798	22,910	0	0	-10,757	
1967	27,989	589	5,413	647	106,672	32,171	5,575	3,253	2,146	115,616	130,202	7,938	409,632	1,153	23,883	0	0	-13,942	
1968	26,987	640	5,106	417	108,208	34,763	6,364	3,697	2,358	119,748	132,204	8,132	420,998	1,074	25,050	0	0	-14,807	
1969	25,597	684	5,369	305	110,015	38,562	6,622	4,415	2,159	128,808	136,383	8,743	441,382	1,272	27,477	0	0	-13,475	
1970	**23,935**	**711**	**5,612**	**249**	**111,107**	**38,338**	**6,994**	**4,506**	**2,199**	**130,737**	**152,252**	**8,488**	**460,481**	**4,273**	**25,995**	**0**	**0**	**-14,477**	
1971	17,592	717	5,763	219	113,875	39,280	7,640	4,757	2,238	136,999	158,357	8,525	477,654	6,521	26,273	0	0	-19,130	
1972	14,282	693	5,667	183	119,408	43,509	7,730	5,303	2,397	140,964	161,435	9,446	496,040	6,465	29,387	0	0	-20,566	
1973	14,613	683	7,558	163	121,012	43,403	5,946	5,179	2,063	145,099	169,105	9,859	509,387	7,227	31,657	0	0	-11,776	
1974	15,146	627	6,835	215	109,483	38,230	5,396	4,753	1,976	134,343	152,776	10,202	464,207	9,272	31,908	0	0	-12,502	
1975	**12,678**	**577**	**5,733**	**274**	**105,118**	**38,634**	**5,206**	**5,188**	**1,948**	**133,461**	**144,721**	**9,423**	**449,706**	**13,111**	**29,955**	**0**	**0**	**-17,753**	
1976	14,456	596	5,513	254	115,090	38,574	6,809	5,580	2,164	143,459	152,639	8,938	479,020	15,659	31,271	0	0	-14,789	
1977	13,519	562	5,595	272	115,468	39,197	5,727	5,865	2,090	141,083	156,520	10,401	482,219	20,590	28,754	0	0	-17,493	
1978	12,034	570	6,085	277	113,553	38,907	5,510	5,928	2,244	144,925	150,720	11,130	479,281	21,701	30,952	0	0	-14,555	
1979	12,585	624	5,659	312	90,071	35,746	3,621	5,663	2,349	137,083	127,846	11,940	420,290	18,507	38,411	0	71	-12,261	
1980	**12,503**	**737**	**4,983**	**320**	**72,559**	**35,936**	**2,309**	**5,631**	**2,091**	**127,422**	**115,488**	**12,060**	**378,801**	**19,276**	**33,641**	**0**	**13**	**-5,317**	
1981	12,388	760	5,424	271	64,120	25,383	2,072	5,215	2,006	129,730	95,745	10,182	340,149	17,444	40,000	0	1	-16,047	
1982	11,514	775	5,400	198	62,116	4,827	2,561	4,878	1,829	129,867	95,706	7,814	315,196	14,438	40,690	0	9	-8,319	
1983	10,676	720	5,732	225	56,756	3,790	3,506	4,905	1,915	127,144	76,067	6,464	286,505	16,376	46,670	0	17	-20,606	
1984	11,895	790	5,387	189	59,227	3,887	1,776	4,983	2,042	113,249	66,464	7,092	264,297	21,187	47,737	0	11	-35,095	
1985	**11,944**	**763**	**7,208**	**221**	**62,013**	**3,856**	**2,411**	**4,948**	**1,903**	**136,352**	**59,596**	**6,851**	**285,360**	**24,092**	**44,477**	**0**	*****	**-24,439**	
1986	9,931	729	6,438	256	70,542	3,738	1,552	4,959	1,861	136,801	69,562	7,515	303,225	22,084	45,175	0	0	-12,520	
1987	11,471	779	6,553	126	73,069	2,904	2,382	5,275	2,104	142,598	69,492	8,986	313,490	22,926	43,241	0	*	-19,148	
1988	12,955	790	7,989	104	75,460	4,915	2,431	5,396	2,029	133,365	82,004	9,233	322,926	24,175	36,327	0	0	-7,860	
1989	14,105	846	4,967	89	76,608	6,047	2,343	5,856	2,081	133,419	73,964	9,012	314,386	22,847	28,696	0	0	1,289	
									Trillion Btu										
1960	**691.6**	**434.1**	**36.0**	**69.3**	**479.9**	**52.6**	**30.1**	**11.4**	**14.0**	**502.7**	**487.6**	**17.8**	**1,701.5**	**0.0**	**169.0**	**0.0**	**0.0**	**-62.9**	**2,933.4**
1961	634.0	450.6	34.3	84.0	507.0	68.2	37.6	11.3	13.6	510.0	528.3	24.7	1,819.1	0.0	207.1	0.0	0.0	-71.9	3,039.0
1962	620.9	491.1	37.6	25.3	556.8	92.7	32.5	11.8	13.4	529.7	558.9	26.8	1,885.4	0.7	229.8	0.0	0.0	-44.6	3,183.3
1963	643.9	520.7	41.2	22.6	561.8	98.4	31.6	13.1	13.4	543.2	553.5	32.7	1,911.6	7.0	211.3	0.0	0.0	-36.8	3,257.8
1964	739.6	527.9	37.0	19.1	557.6	105.6	30.3	15.1	14.1	555.6	524.7	39.7	1,898.9	4.6	212.7	0.0	0.0	-47.1	3,336.7
1965	**755.2**	**558.7**	**41.4**	**12.3**	**606.0**	**133.2**	**31.9**	**12.7**	**13.5**	**573.8**	**655.7**	**38.6**	**2,119.1**	**8.6**	**209.8**	**0.0**	**0.0**	**-35.1**	**3,616.2**
1966	731.4	645.7	42.3	7.3	595.9	146.8	29.8	13.2	14.0	596.8	744.7	44.2	2,234.9	9.3	238.6	0.0	0.0	-36.7	3,823.2
1967	726.6	602.7	35.9	3.3	621.4	181.6	31.6	12.5	13.0	607.3	818.6	45.0	2,370.2	13.3	249.1	0.0	0.0	-47.6	3,914.3
1968	700.1	653.3	33.9	2.1	630.3	196.2	36.1	14.1	14.3	629.0	831.2	45.9	2,433.2	12.1	260.5	0.0	0.0	-50.5	4,008.7
1969	656.5	698.0	35.6	1.5	640.8	217.9	37.5	16.8	13.1	676.6	857.4	49.5	2,546.9	14.0	287.1	0.0	0.0	-46.0	4,156.5
1970	**598.9**	**725.8**	**37.2**	**1.3**	**647.2**	**216.7**	**39.7**	**17.0**	**13.3**	**686.8**	**957.2**	**47.8**	**2,664.3**	**46.9**	**272.8**	**0.0**	**0.0**	**-49.4**	**4,259.3**
1971	435.7	731.6	38.2	1.1	663.3	222.1	43.3	17.9	13.6	719.7	995.6	48.2	2,763.0	70.7	275.3	0.0	0.0	-65.3	4,210.9
1972	355.4	707.3	37.6	0.9	695.5	246.1	43.8	19.9	14.5	740.5	1,014.9	53.5	2,867.4	69.8	305.0	0.0	0.0	-70.2	4,234.7
1973	369.3	703.0	50.2	0.8	704.9	245.5	33.7	19.4	12.5	762.2	1,063.2	55.9	2,948.3	78.8	328.9	0.0	0.0	-40.2	4,388.1
1974	374.2	641.9	45.4	1.1	637.7	216.2	30.6	17.7	12.0	705.7	960.5	57.7	2,684.6	103.5	333.2	0.0	0.0	-42.7	4,094.7
1975	**312.5**	**585.5**	**38.0**	**1.4**	**612.3**	**218.5**	**29.5**	**19.3**	**11.8**	**701.1**	**909.9**	**53.4**	**2,595.2**	**144.4**	**311.7**	**0.0**	**0.0**	**-60.6**	**3,888.8**
1976	363.8	604.3	36.6	1.3	670.4	218.2	38.6	20.7	13.1	753.6	959.6	50.9	2,763.0	173.0	324.4	0.0	0.0	-50.5	4,178.0
1977	336.9	567.9	37.1	1.4	672.6	221.7	32.5	21.6	12.7	741.1	984.0	59.5	2,784.2	221.7	300.0	0.0	0.0	-59.7	4,151.0
1978	297.3	576.5	40.4	1.4	661.4	220.1	31.2	21.8	13.6	761.3	947.6	63.5	2,762.3	237.4	320.7	0.0	0.0	-49.7	4,144.6
1979	315.2	633.6	37.6	1.6	524.7	202.2	20.5	20.8	14.2	720.1	803.8	67.3	2,412.8	201.3	397.7	0.0	0.7	-41.8	3,919.5
1980	**313.7**	**755.9**	**33.1**	**1.6**	**422.7**	**203.3**	**13.1**	**20.7**	**12.7**	**669.3**	**726.1**	**67.5**	**2,170.0**	**210.3**	**349.5**	**0.0**	**0.1**	**-18.1**	**3,781.4**
1981	308.7	775.7	36.0	1.4	373.5	143.5	11.7	19.0	12.2	681.5	602.0	57.5	1,938.2	192.4	418.1	0.0	*	-54.8	3,578.3
1982	289.0	793.1	35.8	1.0	361.8	27.0	14.5	17.6	11.1	682.2	601.7	43.9	1,796.7	159.9	425.4	0.0	0.1	-28.4	3,435.7
1983	268.0	739.8	38.0	1.1	330.6	21.1	19.9	17.7	11.6	667.9	478.2	36.5	1,622.7	178.6	491.0	0.0	0.2	-70.3	3,230.0
1984	299.9	811.3	35.7	1.0	345.0	21.5	10.1	17.9	12.4	594.9	417.9	39.0	1,495.3	229.7	492.8	0.0	0.1	-119.7	3,209.5
1985	**301.4**	**784.7**	**47.8**	**1.1**	**361.2**	**21.4**	**13.7**	**17.8**	**11.5**	**716.3**	**374.7**	**37.9**	**1,603.4**	**260.5**	**459.8**	**0.0**	*****	**-83.4**	**3,326.5**
1986	253.3	749.9	42.7	1.3	410.9	20.8	8.8	18.1	11.3	718.6	437.3	41.6	1,711.4	238.5	463.5	0.0	0.0	-42.7	3,373.9
1987	294.3	801.9	43.5	0.6	425.6	16.0	13.5	19.3	12.8	749.1	436.9	50.2	1,767.5	247.1	443.3	0.0	*	-65.3	3,488.8
1988	333.0	813.1	53.0	0.5	439.6	27.4	13.8	19.7	12.3	700.6	515.6	51.9	1,834.3	259.7	371.8	0.0	0.0	-26.8	3,585.1
1989	362.6	870.4	33.0	0.4	446.2	33.8	13.3	21.6	12.6	700.8	465.0	50.5	1,777.3	245.0	296.5	0.0	0.0	4.4	3,556.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 208. Residential Energy Consumption Estimates, 1960-1989, New York

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**146**	**927**	**1,074**	**225**	**44,927**	**4,174**	**2,130**	**51,232**	**12,496**	**31,082**
1961	148	841	989	240	48,253	5,205	2,103	55,560	13,512	32,931
1962	165	733	897	255	53,768	4,565	2,196	60,528	14,032	33,735
1963	122	695	818	264	53,810	4,406	2,386	60,602	14,938	35,725
1964	94	664	758	270	53,137	4,055	2,807	59,999	15,905	37,879
1965	**111**	**583**	**694**	**288**	**57,623**	**4,161**	**2,254**	**64,037**	**17,027**	**40,655**
1966	91	495	585	324	55,883	3,811	2,284	61,979	18,316	43,949
1967	54	443	497	314	58,263	3,858	2,170	64,291	19,602	46,830
1968	48	419	466	319	59,988	4,990	2,319	67,298	21,394	51,045
1969	31	370	401	331	59,954	5,310	2,829	68,092	23,255	55,548
1970	**26**	**356**	**381**	**347**	**60,128**	**5,581**	**2,782**	**68,491**	**25,492**	**61,777**
1971	20	339	359	352	59,366	5,783	2,869	68,018	26,691	64,529
1972	17	260	277	363	61,612	5,981	3,215	70,808	27,787	66,885
1973	22	257	279	343	62,320	4,867	3,094	70,281	29,508	70,643
1974	34	227	261	341	57,642	4,251	2,824	64,717	28,193	68,741
1975	**41**	**187**	**228**	**327**	**55,966**	**3,746**	**3,078**	**62,790**	**28,710**	**69,253**
1976	12	177	189	340	61,560	5,126	3,222	69,908	29,462	70,970
1977	24	170	194	326	61,894	3,909	3,311	69,113	29,780	71,910
1978	62	140	203	331	61,775	3,493	3,069	68,337	29,942	73,253
1979	43	111	154	313	44,455	1,962	2,560	48,978	30,204	72,892
1980	**47**	**134**	**181**	**334**	**37,690**	**1,723**	**2,511**	**41,923**	**30,583**	**74,367**
1981	78	157	234	337	35,045	1,509	2,668	39,222	30,702	73,170
1982	120	166	287	343	31,660	1,836	2,501	35,997	30,626	73,559
1983	76	104	180	322	29,404	1,497	2,974	33,874	31,803	76,194
1984	98	126	224	337	30,155	1,090	3,125	34,370	32,836	76,250
1985	**73**	**134**	**208**	**320**	**30,992**	**1,459**	**3,322**	**35,773**	**32,757**	**76,816**
1986	102	104	206	337	34,065	1,120	3,404	38,589	33,771	77,429
1987	69	104	173	334	36,220	1,840	3,741	41,801	35,294	80,436
1988	65	74	139	357	36,422	1,923	3,860	42,206	37,460	84,597
1989	59	79	137	365	34,788	1,353	4,169	40,310	37,878	84,964

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu											
1960	**3.6**	**22.9**	**26.5**	**232.5**	**261.7**	**23.7**	**8.5**	**293.9**	**42.6**	**595.5**	**106.1**	**701.6**
1961	3.6	20.9	24.6	248.0	281.1	29.5	8.4	319.0	46.1	637.7	112.4	750.0
1962	4.1	18.1	22.1	263.5	313.2	25.9	8.8	347.9	47.9	681.4	115.1	796.5
1963	3.0	16.8	19.8	271.4	313.4	25.0	9.6	348.0	51.0	690.1	121.9	812.0
1964	2.3	16.0	18.4	276.9	309.5	23.0	11.3	343.8	54.3	693.3	129.2	822.5
1965	**2.7**	**14.2**	**16.9**	**295.0**	**335.7**	**23.6**	**9.0**	**368.3**	**58.1**	**738.3**	**138.7**	**877.0**
1966	2.2	12.0	14.2	331.5	325.5	21.6	9.2	356.3	62.5	764.5	150.0	914.4
1967	1.3	10.4	11.7	320.9	339.4	21.9	8.3	369.6	66.9	769.1	159.8	928.8
1968	1.2	9.8	10.9	326.0	349.4	28.3	8.9	386.6	73.0	796.5	174.2	970.6
1969	0.7	8.6	9.3	338.3	349.2	30.1	10.8	390.1	79.3	817.1	189.5	1,006.6
1970	**0.6**	**8.3**	**9.0**	**353.8**	**350.2**	**31.6**	**10.5**	**392.4**	**87.0**	**842.2**	**210.8**	**1,052.9**
1971	0.5	8.0	8.4	359.5	345.8	32.8	10.8	389.4	91.1	848.4	220.2	1,068.6
1972	0.4	6.1	6.5	370.6	358.9	33.9	12.1	404.9	94.8	876.8	228.2	1,105.0
1973	0.5	5.8	6.3	352.9	363.0	27.6	11.6	402.2	100.7	862.1	241.0	1,103.2
1974	0.8	5.1	5.8	348.8	335.8	24.1	10.5	370.4	96.2	821.2	234.5	1,055.8
1975	**1.0**	**4.2**	**5.1**	**332.2**	**326.0**	**21.2**	**11.4**	**358.7**	**98.0**	**794.0**	**236.3**	**1,030.3**
1976	0.3	4.0	4.3	344.7	358.6	29.1	12.0	399.6	100.5	849.1	242.1	1,091.3
1977	0.6	4.1	4.7	329.1	360.5	22.2	12.2	394.9	101.6	830.3	245.4	1,075.6
1978	1.5	3.4	4.9	334.9	359.8	19.8	11.3	390.9	102.2	832.9	249.9	1,082.8
1979	1.0	2.7	3.7	317.2	259.0	11.1	9.4	279.5	103.1	703.5	248.7	952.2
1980	**1.1**	**3.1**	**4.2**	**341.5**	**219.5**	**9.8**	**9.2**	**238.5**	**104.3**	**688.6**	**253.7**	**942.3**
1981	1.9	3.7	5.6	342.7	204.1	8.6	9.7	222.4	104.8	675.5	249.7	925.1
1982	2.9	4.1	7.0	350.3	184.4	10.4	9.0	203.9	104.5	665.7	251.0	916.7
1983	1.9	2.5	4.4	330.3	171.3	8.5	10.7	190.5	108.5	633.8	260.0	893.8
1984	2.4	3.2	5.6	345.8	175.7	6.2	11.2	193.1	112.0	656.5	260.2	916.7
1985	**1.8**	**3.1**	**4.9**	**328.8**	**180.5**	**8.3**	**12.0**	**200.8**	**111.8**	**646.2**	**262.1**	**908.3**
1986	2.5	2.5	5.0	345.9	198.4	6.4	12.4	217.2	115.2	683.4	264.2	947.6
1987	1.7	2.7	4.4	344.4	211.0	10.4	13.7	235.1	120.4	704.4	274.4	978.9
1988	1.6	1.9	3.5	367.5	212.2	10.9	14.1	237.2	127.8	736.0	288.6	1,024.6
1989	1.5	2.1	3.6	375.4	202.6	7.7	15.4	225.7	129.2	733.9	289.9	1,023.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 209. Commercial Energy Consumption Estimates, 1960-1989, New York

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**272**	**618**	**890**	**63**	**15,225**	**468**	**376**	**636**	**28,208**	**44,913**	**17,497**	**43,520**		
1961	274	561	835	71	16,352	584	371	683	31,231	49,221	12,862	31,349		
1962	306	488	794	74	18,220	512	387	687	31,637	51,444	13,397	32,207		
1963	227	464	690	81	18,235	494	421	762	30,390	50,301	20,472	48,959		
1964	175	443	618	81	18,007	455	495	798	27,011	46,766	22,179	52,822		
1965	**207**	**389**	**596**	**87**	**19,527**	**467**	**398**	**828**	**37,514**	**58,733**	**23,617**	**56,387**		
1966	168	330	498	118	18,937	427	403	864	40,898	61,530	25,167	60,389		
1967	100	295	395	122	19,744	433	383	931	46,504	67,994	26,980	64,455		
1968	89	279	368	123	20,328	560	409	876	45,075	67,248	29,018	69,236		
1969	57	247	304	128	20,317	595	499	994	43,824	66,230	31,175	74,469		
1970	**48**	**237**	**285**	**139**	**20,376**	**626**	**491**	**1,052**	**43,318**	**65,863**	**33,250**	**80,576**		
1971	37	226	263	145	20,118	648	506	1,093	39,759	62,124	34,726	83,956		
1972	32	174	205	147	20,879	671	567	1,143	38,354	61,613	36,623	88,152		
1973	41	171	212	143	21,119	546	546	1,114	38,763	62,088	38,837	92,976		
1974	63	151	214	136	19,533	477	498	1,115	33,691	55,314	36,537	89,086		
1975	**75**	**125**	**200**	**128**	**18,965**	**420**	**543**	**1,162**	**28,482**	**49,573**	**37,804**	**91,189**		
1976	22	118	141	144	20,861	575	569	1,126	33,788	56,918	38,205	92,029		
1977	45	113	158	131	20,974	438	584	1,102	35,102	58,200	38,548	93,083		
1978	116	94	209	143	20,934	392	542	1,135	31,914	54,916	39,640	96,979		
1979	80	74	154	144	15,065	220	452	1,166	22,336	39,239	39,806	96,065		
1980	**87**	**90**	**177**	**162**	**14,492**	**169**	**443**	**1,035**	**25,431**	**41,569**	**40,556**	**98,618**		
1981	144	104	249	167	12,598	158	471	1,144	13,763	28,133	42,651	101,650		
1982	224	111	334	165	13,598	199	441	1,045	18,776	34,060	42,818	102,842		
1983	141	69	210	162	11,928	1,289	525	974	12,442	27,159	44,190	105,870		
1984	181	84	265	170	12,233	437	551	1,073	12,068	26,362	48,026	111,523		
1985	**136**	**90**	**226**	**165**	**11,835**	**391**	**586**	**1,911**	**11,594**	**26,317**	**49,017**	**114,944**		
1986	189	69	258	168	16,471	116	601	1,856	12,619	31,663	50,743	116,342		
1987	129	69	198	167	14,782	182	660	1,368	13,315	30,307	52,732	120,178		
1988	120	50	170	188	14,720	96	681	1,105	13,312	29,915	55,701	125,790		
1989	109	52	162	196	15,473	254	736	1,348	6,944	24,753	56,548	126,843		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**6.7**	**15.3**	**22.0**	**65.2**	**88.7**	**2.7**	**1.5**	**3.3**	**177.3**	**273.5**	**59.7**	**420.4**	**148.5**	**568.9**
1961	6.7	13.9	20.7	73.3	95.2	3.3	1.5	3.6	196.4	300.0	43.9	437.9	107.0	544.9
1962	7.5	12.0	19.6	76.8	106.1	2.9	1.6	3.6	198.9	313.1	45.7	455.1	109.9	565.0
1963	5.6	11.2	16.8	83.6	106.2	2.8	1.7	4.0	191.1	305.8	69.9	476.0	167.0	643.0
1964	4.3	10.7	15.0	83.3	104.9	2.6	2.0	4.2	169.8	283.5	75.7	457.5	180.2	637.7
1965	**5.1**	**9.5**	**14.5**	**88.8**	**113.7**	**2.6**	**1.6**	**4.3**	**235.9**	**358.2**	**80.6**	**542.1**	**192.4**	**734.5**
1966	4.1	8.0	12.1	120.4	110.3	2.4	1.6	4.5	257.1	376.0	85.9	594.4	206.0	800.5
1967	2.4	6.9	9.4	124.9	115.0	2.5	1.5	4.9	292.4	416.2	92.1	642.5	219.9	862.4
1968	2.2	6.5	8.7	125.5	118.4	3.2	1.6	4.6	283.4	411.1	99.0	644.3	236.2	880.5
1969	1.4	5.7	7.1	131.0	118.3	3.4	1.9	5.2	275.5	404.4	106.4	648.8	254.1	902.9
1970	**1.1**	**5.6**	**6.7**	**142.4**	**118.7**	**3.5**	**1.9**	**5.5**	**272.3**	**402.0**	**113.4**	**664.5**	**274.9**	**939.5**
1971	0.9	5.3	6.2	148.5	117.2	3.7	1.9	5.7	250.0	378.5	118.5	651.7	286.5	938.1
1972	0.7	4.1	4.8	150.3	121.6	3.8	2.1	6.0	241.1	374.7	125.0	654.7	300.8	955.5
1973	1.0	3.9	4.8	147.0	123.0	3.1	2.0	5.9	243.7	377.7	132.5	662.1	317.2	979.3
1974	1.5	3.4	4.8	139.4	113.8	2.7	1.9	5.9	211.8	336.0	124.7	604.9	304.0	908.9
1975	**1.8**	**2.8**	**4.5**	**130.2**	**110.5**	**2.4**	**2.0**	**6.1**	**179.1**	**300.0**	**129.0**	**563.7**	**311.1**	**874.9**
1976	0.5	2.7	3.2	145.5	121.5	3.3	2.1	5.9	212.4	345.2	130.4	624.3	314.0	938.3
1977	1.1	2.7	3.8	132.3	122.2	2.5	2.1	5.8	220.7	353.3	131.5	620.9	317.6	938.5
1978	2.8	2.3	5.0	144.7	121.9	2.2	2.0	6.0	200.6	332.8	135.3	617.7	330.9	948.6
1979	1.9	1.8	3.7	145.4	87.8	1.2	1.7	6.1	140.4	237.2	135.8	522.2	327.8	850.0
1980	**2.1**	**2.0**	**4.2**	**165.5**	**84.4**	**1.0**	**1.6**	**5.4**	**159.9**	**252.3**	**138.4**	**560.4**	**336.5**	**896.8**
1981	3.5	2.5	6.0	170.2	73.4	0.9	1.7	6.0	86.5	168.5	145.5	490.2	346.8	837.0
1982	5.4	2.7	8.2	168.3	79.2	1.1	1.6	5.5	118.0	205.5	146.1	528.0	350.9	878.9
1983	3.5	1.7	5.2	166.0	69.5	7.3	1.9	5.1	78.2	162.0	150.8	484.0	361.2	845.2
1984	4.5	2.1	6.6	174.7	71.3	2.5	2.0	5.6	75.9	157.2	163.9	502.3	380.5	882.9
1985	**3.4**	**2.1**	**5.4**	**170.0**	**68.9**	**2.2**	**2.1**	**10.0**	**72.9**	**156.2**	**167.2**	**498.9**	**392.2**	**891.1**
1986	4.7	1.7	6.3	172.1	95.9	0.7	2.2	9.7	79.3	187.9	173.1	539.5	397.0	936.4
1987	3.2	1.8	5.0	172.2	86.1	1.0	2.4	7.2	83.7	180.4	179.9	537.6	410.0	947.6
1988	3.0	1.3	4.3	193.4	85.7	0.5	2.5	5.8	83.7	178.3	190.1	566.0	429.2	995.2
1989	2.7	1.4	4.1	202.1	90.1	1.4	2.7	7.1	43.7	145.0	192.9	544.2	432.8	977.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 210. Industrial Energy Consumption Estimates, 1960–1989, New York

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**11,416**	**531**	**11,947**	**72**	**5,424**	**12,930**	**660**	**325**	**944**	**3,369**	**22,444**	**3,004**	**49,099**	**341**	**14,428**	**35,888**
1961	10,682	472	11,154	62	5,173	13,463	838	320	918	3,360	24,856	4,157	53,085	288	20,439	49,814
1962	10,747	452	11,199	74	5,667	14,946	654	333	999	2,747	24,984	4,492	54,823	301	25,420	61,112
1963	11,262	499	11,761	76	6,210	14,905	678	431	999	2,874	24,174	5,566	55,837	286	20,452	48,912
1964	13,028	568	13,596	83	5,582	14,752	842	423	1,049	3,396	21,527	6,941	54,513	261	21,360	50,872
1965	**13,304**	**506**	**13,811**	**93**	**6,234**	**16,909**	**996**	**485**	**1,099**	**3,708**	**29,213**	**6,766**	**65,409**	**275**	**23,101**	**55,156**
1966	13,342	441	13,782	114	6,377	16,365	1,012	559	1,141	3,488	31,849	7,792	68,584	321	24,478	58,734
1967	12,984	440	13,424	62	5,413	16,855	1,284	636	1,061	2,957	36,229	7,938	72,373	326	25,046	59,835
1968	12,320	392	12,712	92	5,106	16,625	814	907	1,165	2,678	35,363	8,132	70,790	292	25,166	60,044
1969	11,676	337	12,013	114	5,369	17,031	717	1,013	985	3,617	34,213	8,743	71,688	277	27,303	65,219
1970	**11,842**	**283**	**12,125**	**116**	**5,612**	**16,810**	**787**	**1,125**	**1,003**	**3,281**	**33,696**	**8,488**	**70,803**	**269**	**27,152**	**65,799**
1971	8,605	225	8,830	117	5,763	16,769	1,208	1,244	1,149	3,085	30,975	8,525	68,718	253	27,006	65,292
1972	7,566	166	7,732	104	5,667	17,805	1,079	1,377	1,231	3,518	30,108	9,446	70,230	251	27,549	66,312
1973	8,165	159	8,324	125	7,558	18,373	533	1,386	1,014	2,787	30,592	9,859	72,103	209	29,883	71,540
1974	7,847	167	8,014	109	6,835	16,712	669	1,284	971	2,018	26,830	9,820	65,139	174	29,854	72,793
1975	**5,942**	**183**	**6,125**	**105**	**5,733**	**15,761**	**1,039**	**1,442**	**998**	**1,351**	**23,039**	**9,423**	**58,786**	**188**	**27,247**	**65,723**
1976	7,903	205	8,108	104	5,513	17,544	1,109	1,633	1,109	1,349	27,501	8,938	64,695	242	28,650	69,014
1977	6,360	176	6,537	98	5,595	18,223	1,379	1,796	1,027	1,779	28,537	10,401	68,738	237	30,914	74,649
1978	5,204	151	5,355	91	6,085	18,204	1,625	2,138	1,102	2,056	25,462	11,130	67,802	242	32,057	78,427
1979	5,890	113	6,003	88	5,659	17,711	1,439	2,536	1,154	1,221	25,405	11,940	67,065	243	32,894	79,384
1980	**5,553**	**146**	**5,699**	**114**	**4,983**	**9,339**	**417**	**2,598**	**1,027**	**1,535**	**14,815**	**12,060**	**46,776**	**233**	**32,110**	**78,081**
1981	5,317	103	5,420	122	5,424	6,129	405	1,917	985	4,155	7,987	10,182	37,185	233	32,240	76,837
1982	4,141	91	4,232	111	5,400	6,105	526	1,795	898	1,047	10,184	7,814	33,769	233	30,484	73,218
1983	3,507	68	3,575	98	5,732	4,883	720	1,240	941	829	4,164	6,464	24,974	233	31,424	75,285
1984	4,006	67	4,073	108	5,387	5,008	249	1,151	1,003	613	4,039	7,092	24,542	233	28,789	66,853
1985	**3,665**	**58**	**3,723**	**101**	**7,208**	**4,816**	**561**	**926**	**935**	**1,224**	**3,861**	**6,851**	**26,381**	**233**	**28,659**	**67,205**
1986	3,137	32	3,169	88	6,438	3,148	316	870	914	1,252	3,815	7,515	24,269	233	28,107	64,442
1987	3,224	48	3,272	97	6,553	3,866	360	800	1,033	1,284	3,669	8,986	26,552	233	28,726	65,467
1988	3,487	40	3,527	92	7,989	3,705	412	758	997	1,411	3,607	9,233	28,113	233	30,155	68,100
1989	3,613	35	3,649	97	4,967	3,846	736	823	1,022	1,389	1,909	9,012	23,704	233	31,448	70,541

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Million Kilowatthours	
1960	**737.7**	**122.5**	**860.2**
1961	750.4	170.0	920.3
1962	792.8	208.5	1,001.3
1963	796.6	166.9	963.5
1964	844.2	173.6	1,017.8
1965	**933.0**	**188.2**	**1,121.2**
1966	976.9	200.4	1,177.3
1967	938.2	204.2	1,142.4
1968	939.1	204.9	1,143.9
1969	953.7	222.5	1,176.3
1970	**948.7**	**224.5**	**1,173.3**
1971	850.7	222.8	1,073.4
1972	819.3	226.3	1,045.5
1973	881.5	244.1	1,125.6
1974	814.0	248.4	1,062.3
1975	**709.2**	**224.2**	**933.5**
1976	803.5	235.5	1,039.0
1977	787.2	254.7	1,041.9
1978	745.3	267.6	1,012.9
1979	756.7	270.9	1,027.5
1980	**649.3**	**266.4**	**915.7**
1981	591.8	262.2	854.0
1982	527.6	249.8	777.4
1983	448.5	256.9	705.3
1984	459.0	228.1	687.1
1985	**455.3**	**229.3**	**684.6**
1986	413.8	219.9	633.6
1987	442.3	223.4	665.7
1988	458.7	232.4	691.1
1989	443.0	240.7	683.7

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity: Net Energy[4]	Electricity: Total[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu																	
1960	**298.7**	**13.1**	**311.9**	**74.2**	**36.0**	**75.3**	**3.7**	**1.3**	**5.7**	**17.7**	**141.1**	**17.8**	**298.7**	**3.7**	**49.2**	**737.7**	**122.5**	**860.2**
1961	279.1	11.7	290.8	63.7	34.3	78.4	4.8	1.3	5.6	17.6	156.3	24.7	323.0	3.1	69.7	750.4	170.0	920.3
1962	281.0	11.2	292.2	76.7	37.6	87.1	3.7	1.3	6.1	14.4	157.1	26.8	334.0	3.2	86.7	792.8	208.5	1,001.3
1963	293.9	12.0	306.0	78.4	41.2	86.8	3.8	1.7	6.1	15.1	152.0	32.7	339.4	3.0	69.8	796.6	166.9	963.5
1964	340.8	13.7	354.5	85.3	37.0	85.9	4.8	1.7	6.4	17.8	135.3	39.7	328.7	2.7	72.9	844.2	173.6	1,017.8
1965	**347.8**	**12.3**	**360.1**	**95.3**	**41.4**	**98.5**	**5.6**	**1.9**	**6.7**	**19.5**	**183.7**	**38.6**	**395.9**	**2.9**	**78.8**	**933.0**	**188.2**	**1,121.2**
1966	347.2	10.7	357.8	116.8	42.3	95.3	5.7	2.2	6.9	18.3	200.2	44.2	415.3	3.3	83.5	976.9	200.4	1,177.3
1967	336.7	10.3	347.0	63.7	35.9	98.2	7.3	2.4	6.4	15.5	227.8	45.0	438.6	3.4	85.5	938.2	204.2	1,142.4
1968	318.7	9.1	327.8	94.2	33.9	96.8	4.6	3.5	7.1	14.1	222.3	45.9	428.2	3.0	85.9	939.1	204.9	1,143.9
1969	301.1	7.8	308.9	116.5	35.6	99.2	4.1	3.9	6.0	19.0	215.1	49.5	432.3	2.9	93.2	953.7	222.5	1,176.3
1970	**301.8**	**6.6**	**308.4**	**118.0**	**37.2**	**97.9**	**4.5**	**4.3**	**6.1**	**17.2**	**211.8**	**47.8**	**426.9**	**2.8**	**92.6**	**948.7**	**224.5**	**1,173.3**
1971	217.5	5.3	222.8	119.5	38.2	97.7	6.8	4.7	7.0	16.2	194.7	48.2	413.6	2.7	92.1	850.7	222.8	1,073.4
1972	191.7	3.9	195.6	105.7	37.6	103.7	6.1	5.2	7.5	18.5	189.3	53.5	421.4	2.6	94.0	819.3	226.3	1,045.5
1973	211.0	3.6	214.6	128.3	50.2	107.0	3.0	5.2	6.2	14.6	192.3	55.9	434.4	2.2	102.0	881.5	244.1	1,125.6
1974	203.3	3.7	207.1	111.4	45.4	97.4	3.8	4.8	5.9	10.6	168.7	55.4	391.9	1.8	101.9	814.0	248.4	1,062.3
1975	**151.5**	**4.1**	**155.5**	**106.2**	**38.0**	**91.8**	**5.9**	**5.4**	**6.1**	**7.1**	**144.8**	**53.4**	**352.5**	**2.0**	**93.0**	**709.2**	**224.2**	**933.5**
1976	204.3	4.6	208.9	105.6	36.6	102.2	6.3	6.1	6.7	7.1	172.9	50.9	388.7	2.5	97.8	803.5	235.5	1,039.0
1977	163.3	4.2	167.6	99.5	37.1	106.1	7.8	6.6	6.2	9.3	179.4	59.5	412.2	2.5	105.5	787.2	254.7	1,041.9
1978	132.9	3.7	136.6	92.2	40.4	106.0	9.2	7.8	6.7	10.8	160.1	63.5	404.6	2.5	109.4	745.3	267.6	1,012.9
1979	151.2	2.7	154.0	89.2	37.6	103.2	8.2	9.3	7.0	6.4	159.7	67.3	398.7	2.5	112.2	756.7	270.9	1,027.5
1980	**143.2**	**3.3**	**146.5**	**116.4**	**33.1**	**54.4**	**2.4**	**9.5**	**6.2**	**8.1**	**93.1**	**67.5**	**274.3**	**2.4**	**109.6**	**649.3**	**266.4**	**915.7**
1981	136.3	2.4	138.7	124.2	36.0	35.7	2.3	7.0	6.0	21.8	50.2	57.5	216.5	2.4	110.0	591.8	262.2	854.0
1982	106.1	2.2	108.3	113.1	35.8	35.6	3.0	6.5	5.4	5.5	64.0	43.9	199.7	2.4	104.0	527.6	249.8	777.4
1983	89.2	1.7	90.9	100.1	38.0	28.4	4.1	4.5	5.7	4.4	26.2	36.5	147.8	2.5	107.2	448.5	256.9	705.3
1984	102.0	1.7	103.6	110.6	35.7	29.2	1.4	4.1	6.1	3.2	25.4	39.0	144.2	2.4	98.2	459.0	228.1	687.1
1985	**93.5**	**1.3**	**94.8**	**103.6**	**47.8**	**28.1**	**3.2**	**3.3**	**5.7**	**6.4**	**24.3**	**37.9**	**156.7**	**2.4**	**97.8**	**455.3**	**229.3**	**684.6**
1986	80.9	0.8	81.7	90.0	42.7	18.3	1.8	3.2	5.5	6.6	24.0	41.6	143.7	2.4	95.9	413.8	219.9	633.6
1987	83.4	1.3	84.7	100.0	43.5	22.5	2.0	2.9	6.3	6.7	23.1	50.2	157.3	2.4	98.0	442.3	223.4	665.7
1988	90.4	1.0	91.4	94.3	53.0	21.6	2.3	2.8	6.0	7.4	22.7	51.9	167.7	2.4	102.9	458.7	232.4	691.1
1989	93.4	1.0	94.4	100.3	33.0	22.4	4.2	3.0	6.2	7.3	12.0	50.5	138.6	2.4	107.3	443.0	240.7	683.7

[1] Includes supplemental gaseous fuels.
[2] *Liquefied petroleum gases* (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 211. Transportation Energy Consumption Estimates, 1960-1989, New York

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**201**	**2**	**13,729**	**8,758**	**9,411**	**18**	**1,368**	**91,701**	**17,060**	**142,046**	**2,095**	**5,211**		
1961	49	2	16,647	8,276	12,164	24	1,332	93,035	15,210	146,688	2,308	5,624		
1962	44	3	5,019	7,810	16,489	31	1,208	97,399	17,020	144,976	2,315	5,566		
1963	43	3	4,471	8,596	17,498	34	1,207	99,775	16,954	148,535	2,244	5,366		
1964	49	3	3,793	8,892	18,771	39	1,268	101,568	17,903	152,233	2,084	4,963		
1965	**44**	**3**	**2,427**	**8,800**	**23,620**	**38**	**1,122**	**104,690**	**16,158**	**156,856**	**2,056**	**4,908**		
1966	40	4	1,440	9,568	26,017	56	1,166	109,260	17,659	165,166	2,087	5,007		
1967	32	7	647	10,183	32,171	63	1,085	111,729	17,812	173,690	2,002	4,782		
1968	27	3	417	9,440	34,763	63	1,192	116,195	18,488	180,559	1,914	4,567		
1969	20	3	305	10,438	38,562	74	1,174	124,197	16,867	191,616	1,857	4,436		
1970	**19**	**3**	**249**	**10,653**	**38,338**	**107**	**1,196**	**126,403**	**18,450**	**195,396**	**1,906**	**4,618**		
1971	11	3	219	10,361	39,280	138	1,089	132,821	18,609	202,516	1,860	4,497		
1972	8	3	183	10,359	39,669	144	1,166	136,302	14,957	202,780	1,868	4,497		
1973	6	3	163	11,941	40,639	153	1,048	141,197	17,085	212,226	1,768	4,233		
1974	4	3	215	10,867	35,979	147	1,004	131,210	12,503	191,925	1,896	4,624		
1975	**1**	**3**	**274**	**10,488**	**37,252**	**125**	**950**	**130,948**	**8,862**	**188,899**	**2,080**	**5,017**		
1976	1	3	254	11,979	36,887	156	1,055	140,984	8,772	200,087	2,067	4,979		
1977	*	3	272	11,931	38,210	174	1,063	138,202	7,575	197,427	2,105	5,082		
1978	0	3	277	11,593	38,286	179	1,142	141,734	6,159	199,371	1,749	4,279		
1979	0	3	312	12,006	35,327	115	1,195	134,695	12,188	195,838	1,989	4,800		
1980	**0**	**4**	**320**	**10,309**	**35,916**	**79**	**1,064**	**124,853**	**11,344**	**183,885**	**2,061**	**5,012**		
1981	0	4	271	9,443	25,381	159	1,020	124,431	11,737	172,443	2,093	4,988		
1982	0	4	198	10,110	4,815	140	931	127,775	11,214	155,184	2,051	4,926		
1983	0	3	225	9,938	3,790	167	974	125,340	2,100	142,534	2,081	4,987		
1984	0	5	189	11,019	3,887	156	1,039	111,563	2,005	129,859	2,259	5,246		
1985	**0**	**4**	**221**	**13,551**	**3,856**	**113**	**968**	**133,217**	**921**	**152,848**	**2,241**	**5,256**		
1986	0	3	256	15,509	3,738	84	947	133,693	1,024	155,252	2,287	5,244		
1987	0	7	126	16,759	2,904	74	1,070	139,946	1,412	162,292	2,217	5,053		
1988	0	5	104	18,450	4,915	96	1,032	130,848	2,244	157,690	2,326	5,253		
1989	0	5	89	18,865	6,047	128	1,059	130,682	475	157,346	2,328	5,222		
							Trillion Btu							
1960	**5.2**	**2.4**	**69.3**	**51.0**	**52.6**	**0.1**	**8.3**	**481.7**	**107.3**	**770.3**	**7.1**	**785.0**	**17.8**	**802.8**
1961	1.3	2.5	84.0	48.2	68.2	0.1	8.1	488.7	95.6	793.0	7.9	804.6	19.2	823.8
1962	1.1	2.8	25.3	45.5	92.7	0.1	7.3	511.6	107.0	789.6	7.9	801.4	19.0	820.4
1963	1.1	3.0	22.6	50.1	98.4	0.1	7.3	524.1	106.6	809.2	7.7	821.0	18.3	839.3
1964	1.3	2.9	19.1	51.8	105.6	0.2	7.7	533.5	112.6	830.5	7.1	841.7	16.9	858.7
1965	**1.1**	**3.4**	**12.3**	**51.3**	**133.2**	**0.2**	**6.8**	**549.9**	**101.6**	**855.2**	**7.0**	**866.8**	**16.7**	**883.5**
1966	1.0	3.7	7.3	55.7	146.8	0.2	7.1	573.9	111.0	902.1	7.1	914.0	17.1	931.0
1967	0.8	6.9	3.3	59.3	181.6	0.2	6.6	586.9	112.0	949.9	6.8	964.4	16.3	980.8
1968	0.7	3.4	2.1	55.0	196.2	0.2	7.2	610.4	116.2	987.4	6.5	998.0	15.6	1,013.6
1969	0.5	2.8	1.5	60.8	217.9	0.3	7.1	652.4	106.0	1,046.1	6.3	1,055.7	15.1	1,070.8
1970	**0.5**	**3.2**	**1.3**	**62.1**	**216.7**	**0.4**	**7.3**	**664.0**	**116.0**	**1,067.7**	**6.5**	**1,077.9**	**15.8**	**1,093.7**
1971	0.3	3.5	1.1	60.4	222.1	0.5	6.6	697.7	117.0	1,105.3	6.3	1,115.4	15.3	1,130.8
1972	0.2	3.5	0.9	60.3	224.3	0.5	7.1	716.0	94.0	1,103.2	6.4	1,113.2	15.3	1,128.6
1973	0.1	3.1	0.8	69.6	229.9	0.6	6.4	741.7	107.4	1,156.3	6.0	1,165.6	14.4	1,180.0
1974	0.1	3.1	1.1	63.3	203.4	0.5	6.1	689.2	78.6	1,042.3	6.5	1,052.0	15.8	1,067.7
1975	*****	**3.0**	**1.4**	**61.1**	**210.7**	**0.5**	**5.8**	**687.9**	**55.7**	**1,023.0**	**7.1**	**1,033.0**	**17.1**	**1,050.2**
1976	*	3.0	1.3	69.8	208.6	0.6	6.4	740.6	55.1	1,082.4	7.1	1,092.5	17.0	1,109.5
1977	*	2.7	1.4	69.5	216.1	0.6	6.4	726.0	47.6	1,067.7	7.2	1,077.6	17.3	1,094.9
1978	0.0	3.4	1.4	67.5	216.6	0.7	6.9	744.5	38.7	1,076.3	6.0	1,085.7	14.6	1,100.3
1979	0.0	3.4	1.6	69.9	199.8	0.4	7.2	707.6	76.6	1,063.2	6.8	1,073.4	16.4	1,089.7
1980	**0.0**	**3.6**	**1.6**	**60.1**	**203.2**	**0.3**	**6.5**	**655.9**	**71.3**	**998.8**	**7.0**	**1,009.4**	**17.1**	**1,026.5**
1981	0.0	3.9	1.4	55.0	143.5	0.6	6.2	653.6	73.8	934.1	7.1	945.1	17.0	962.1
1982	0.0	4.2	1.0	58.9	26.9	0.5	5.6	671.2	70.5	834.6	7.0	845.8	16.8	862.6
1983	0.0	3.4	1.1	57.9	21.1	0.6	5.9	658.4	13.2	758.2	7.1	768.7	17.0	785.7
1984	0.0	5.1	1.0	64.2	21.5	0.6	6.3	586.0	12.6	692.2	7.7	704.9	17.9	722.8
1985	**0.0**	**3.6**	**1.1**	**78.9**	**21.4**	**0.4**	**5.9**	**699.8**	**5.8**	**813.3**	**7.6**	**824.6**	**17.9**	**842.5**
1986	0.0	3.5	1.3	90.3	20.8	0.3	5.7	702.3	6.4	827.2	7.8	838.4	17.9	856.3
1987	0.0	6.8	0.6	97.6	16.0	0.3	6.5	735.1	8.9	865.0	7.6	879.4	17.2	896.6
1988	0.0	4.9	0.5	107.5	27.4	0.4	6.3	687.3	14.1	843.5	7.9	856.3	17.9	874.2
1989	0.0	5.4	0.4	109.9	33.8	0.5	6.4	686.5	3.0	840.5	7.9	853.9	17.8	871.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 212. Estimates of Energy Input at Electric Utilities, 1960-1989, New York

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**12,179**	**123**	**12,302**	**58**	**9,851**	**540**	**0**	**10,391**	**0**	**15,369**	**0**	**0**	
1961	11,068	82	11,149	61	12,733	698	0	13,432	0	19,160	0	0	
1962	10,642	58	10,700	69	15,256	837	0	16,093	61	21,467	0	0	
1963	11,228	0	11,228	82	16,527	907	0	17,434	591	19,877	0	0	
1964	13,075	0	13,075	77	17,024	934	0	17,957	382	20,074	0	0	
1965	**13,591**	**0**	**13,591**	**74**	**21,410**	**1,174**	**0**	**22,584**	**727**	**19,797**	**0**	**0**	
1966	13,092	0	13,092	72	28,040	1,538	0	29,578	798	22,589	0	0	
1967	13,641	0	13,641	84	29,657	1,627	0	31,284	1,153	23,557	0	0	
1968	13,414	0	13,414	102	33,278	1,825	0	35,103	1,074	24,757	0	0	
1969	12,860	0	12,860	107	41,480	2,275	0	43,755	1,272	27,199	0	0	
1970	**11,125**	**0**	**11,125**	**106**	**56,787**	**3,139**	**0**	**59,927**	**4,273**	**25,726**	**0**	**0**	
1971	8,130	0	8,130	99	69,014	7,263	0	76,277	6,521	26,021	0	0	
1972	6,060	0	6,060	75	78,017	12,592	0	90,609	6,465	29,135	0	0	
1973	5,793	0	5,793	70	82,665	10,024	0	92,689	7,227	31,448	0	0	
1974	6,653	0	6,653	38	79,751	6,978	382	87,111	9,272	31,735	0	0	
1975	**6,124**	**0**	**6,124**	**14**	**84,338**	**5,319**	**0**	**89,658**	**13,111**	**29,766**	**0**	**0**	
1976	6,017	0	6,017	5	82,579	4,832	0	87,411	15,659	31,030	0	0	
1977	6,629	0	6,629	4	85,307	3,433	0	88,740	20,590	28,517	0	0	
1978	6,267	0	6,267	1	87,186	1,669	0	88,855	21,701	30,710	0	0	
1979	6,274	0	6,274	76	67,918	1,253	0	69,171	18,507	38,168	0	71	
1980	**6,446**	**0**	**6,446**	**124**	**63,898**	**749**	**0**	**64,647**	**19,276**	**33,408**	**0**	**13**	
1981	6,485	0	6,485	131	62,258	907	0	63,165	17,444	39,767	0	1	
1982	6,662	0	6,662	153	55,531	655	0	56,186	14,438	40,457	0	9	
1983	6,711	0	6,711	136	57,361	603	0	57,964	16,376	46,436	0	17	
1984	7,333	0	7,333	170	48,352	813	0	49,165	21,187	47,504	0	11	
1985	**7,787**	**0**	**7,787**	**173**	**43,220**	**821**	**0**	**44,041**	**24,092**	**44,243**	**0**	*	
1986	6,298	0	6,298	134	52,104	1,349	0	53,453	22,084	44,942	0	0	
1987	7,828	0	7,828	173	51,096	1,442	0	52,538	22,926	43,007	0	*	
1988	9,120	0	9,120	148	62,840	2,162	0	65,002	24,175	36,094	0	0	
1989	10,158	0	10,158	182	64,636	3,636	0	68,272	22,847	28,463	0	0	
	Trillion Btu												
1960	**323.9**	**2.2**	**326.1**	**59.8**	**61.9**	**3.1**	**0.0**	**65.1**	**0.0**	**165.4**	**0.0**	**0.0**	**616.4**
1961	295.2	1.4	296.7	63.1	80.1	4.1	0.0	84.1	0.0	204.1	0.0	0.0	647.9
1962	284.9	1.0	285.9	71.3	95.9	4.9	0.0	100.8	0.7	226.6	0.0	0.0	685.3
1963	300.3	0.0	300.3	84.3	103.9	5.3	0.0	109.2	7.0	208.3	0.0	0.0	709.2
1964	350.4	0.0	350.4	79.5	107.0	5.4	0.0	112.5	4.6	210.0	0.0	0.0	757.0
1965	**362.6**	**0.0**	**362.6**	**76.1**	**134.6**	**6.8**	**0.0**	**141.4**	**8.6**	**206.9**	**0.0**	**0.0**	**795.7**
1966	346.2	0.0	346.2	73.2	176.3	9.0	0.0	185.2	9.3	235.3	0.0	0.0	849.2
1967	357.6	0.0	357.6	86.3	186.5	9.5	0.0	195.9	13.3	245.7	0.0	0.0	899.0
1968	352.1	0.0	352.1	104.3	209.2	10.6	0.0	219.9	12.1	257.4	0.0	0.0	945.8
1969	330.7	0.0	330.7	109.5	260.8	13.3	0.0	274.0	14.0	284.2	0.0	0.0	1,012.5
1970	**274.4**	**0.0**	**274.4**	**108.4**	**357.0**	**18.3**	**0.0**	**375.3**	**46.9**	**270.0**	**0.0**	**0.0**	**1,074.9**
1971	198.0	0.0	198.0	100.6	433.9	42.3	0.0	476.2	70.7	272.6	0.0	0.0	1,118.1
1972	148.3	0.0	148.3	77.2	490.5	72.8	0.0	563.2	69.8	302.4	0.0	0.0	1,160.9
1973	143.4	0.0	143.4	71.6	519.7	58.0	0.0	577.7	78.8	326.7	0.0	0.0	1,198.2
1974	156.4	0.0	156.4	39.3	501.4	40.3	2.3	544.0	103.5	331.4	0.0	0.0	1,174.5
1975	**147.3**	**0.0**	**147.3**	**14.0**	**530.2**	**30.8**	**0.0**	**561.0**	**144.4**	**309.8**	**0.0**	**0.0**	**1,176.4**
1976	147.4	0.0	147.4	5.4	519.2	27.9	0.0	547.1	173.0	321.9	0.0	0.0	1,194.8
1977	160.8	0.0	160.8	4.2	536.3	19.8	0.0	556.2	221.7	297.6	0.0	0.0	1,240.5
1978	150.8	0.0	150.8	1.3	548.1	9.6	0.0	557.8	237.4	318.2	0.0	0.0	1,265.4
1979	153.7	0.0	153.7	78.2	427.0	7.2	0.0	434.2	201.3	395.2	0.0	0.7	1,263.4
1980	**158.8**	**0.0**	**158.8**	**128.9**	**401.7**	**4.4**	**0.0**	**406.1**	**210.3**	**347.0**	**0.0**	**0.1**	**1,251.2**
1981	158.4	0.0	158.4	134.7	391.4	5.3	0.0	396.7	192.4	415.7	0.0	*	1,297.8
1982	165.5	0.0	165.5	157.2	349.1	3.8	0.0	352.9	159.9	422.9	0.0	0.1	1,258.5
1983	167.6	0.0	167.6	140.0	360.6	3.5	0.0	364.1	178.6	488.5	0.0	0.2	1,339.0
1984	184.1	0.0	184.1	175.2	304.0	4.7	0.0	308.7	229.7	490.4	0.0	0.1	1,388.3
1985	**196.2**	**0.0**	**196.2**	**178.7**	**271.7**	**4.8**	**0.0**	**276.5**	**260.5**	**457.4**	**0.0**	*	**1,369.3**
1986	160.2	0.0	160.2	138.4	327.6	7.9	0.0	335.4	238.5	461.1	0.0	0.0	1,333.7
1987	200.2	0.0	200.2	178.5	321.2	8.4	0.0	329.6	247.1	441.0	0.0	*	1,396.4
1988	233.7	0.0	233.7	153.1	395.1	12.6	0.0	407.7	259.7	369.4	0.0	0.0	1,423.6
1989	260.5	0.0	260.5	187.1	406.4	21.2	0.0	427.5	245.0	294.0	0.0	0.0	1,414.2

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 213. Energy Consumption Estimates by Source, 1960–1989, North Carolina

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**8,948**	**45**	**2,617**	**692**	**13,445**	**3,401**	**12,091**	**2,635**	**724**	**35,875**	**4,603**	**233**	**76,316**	**0**	**4,998**	**0**	**0**	**735**	
1961	9,433	51	2,676	622	13,465	3,474	13,364	2,618	704	38,114	4,801	483	80,323	0	4,721	0	0	333	
1962	10,082	56	3,153	742	15,709	3,854	14,122	3,109	745	38,651	3,705	535	84,326	0	5,491	0	0	-1,759	
1963	11,008	62	2,625	679	16,002	4,048	13,573	3,484	745	40,524	3,314	689	85,683	0	4,363	0	0	-302	
1964	11,455	69	2,716	740	16,349	4,154	12,219	3,789	782	41,633	3,726	866	86,974	0	5,989	0	0	-1,129	
1965	**12,708**	**76**	**2,699**	**714**	**17,182**	**3,649**	**12,717**	**4,188**	**835**	**43,144**	**4,723**	**876**	**90,728**	**0**	**5,385**	**0**	**0**	**-6,408**	
1966	14,921	87	3,265	347	20,522	3,896	12,726	4,467	868	45,613	5,262	1,091	98,057	0	4,379	0	0	-8,763	
1967	16,126	98	3,475	304	20,213	4,497	11,921	4,438	735	47,855	5,365	1,441	100,243	0	5,036	0	0	-9,948	
1968	17,741	115	3,493	296	19,632	5,259	13,198	4,484	807	50,564	4,673	1,431	103,838	0	4,722	0	0	-10,465	
1969	18,996	137	3,616	286	20,045	4,952	12,086	5,090	835	53,573	6,015	1,579	108,077	0	4,955	0	0	-11,461	
1970	**20,417**	**151**	**3,621**	**151**	**22,612**	**4,702**	**11,612**	**5,489**	**851**	**56,348**	**6,778**	**1,425**	**113,589**	**0**	**4,374**	**0**	**0**	**-9,690**	
1971	20,391	161	3,779	201	21,583	4,740	11,051	5,372	915	58,679	10,409	1,762	118,491	0	5,917	0	0	-5,730	
1972	20,653	164	4,124	245	23,065	4,144	9,528	5,916	979	63,390	15,870	1,980	129,241	0	6,438	0	0	-6,679	
1973	21,856	161	4,610	285	25,157	3,914	7,655	6,050	1,080	65,888	15,892	2,145	132,678	0	7,113	0	0	-3,595	
1974	21,943	140	3,919	237	22,703	3,907	6,081	5,834	1,034	66,364	13,699	1,905	125,682	0	6,890	0	0	4,124	
1975	**20,055**	**115**	**3,049**	**219**	**21,259**	**3,809**	**5,832**	**6,445**	**944**	**66,935**	**7,779**	**1,836**	**118,104**	**1,405**	**7,055**	**0**	**0**	**22,308**	
1976	22,625	101	2,989	155	24,212	3,715	6,191	7,022	1,048	70,030	12,790	2,320	130,473	2,511	5,652	0	0	12,578	
1977	22,985	73	3,542	228	27,276	4,087	6,327	6,360	1,205	72,296	14,685	2,794	138,799	5,664	5,287	0	0	15,930	
1978	20,816	82	3,554	256	24,634	4,338	5,808	7,706	1,294	75,198	12,355	2,890	138,033	9,917	5,482	0	0	22,132	
1979	22,949	131	3,509	237	29,434	4,332	3,666	7,873	1,354	71,154	11,997	3,049	136,605	6,809	7,917	0	0	12,362	
1980	**25,466**	**153**	**3,089**	**215**	**24,116**	**5,209**	**3,259**	**7,979**	**1,206**	**66,222**	**9,058**	**3,076**	**123,429**	**5,775**	**5,486**	**0**	**0**	**10,592**	
1981	26,816	152	2,160	268	21,225	5,319	2,356	7,533	1,156	66,515	5,621	3,140	115,294	6,246	2,930	0	0	11,974	
1982	25,356	142	2,209	185	20,179	5,747	2,332	6,943	1,054	65,854	5,756	2,533	112,792	9,126	5,408	0	0	-3,977	
1983	23,918	137	3,216	188	24,644	6,404	1,549	6,981	1,104	67,201	5,802	2,096	119,187	12,363	6,142	0	0	5,745	
1984	22,417	144	3,850	167	26,065	6,413	1,514	7,132	1,177	69,921	5,627	2,625	124,492	20,232	6,369	0	0	5,420	
1985	**22,052**	**134**	**3,450**	**174**	**24,824**	**6,668**	**2,164**	**7,700**	**1,097**	**70,839**	**4,357**	**2,445**	**123,719**	**19,303**	**4,094**	**0**	**0**	**23,756**	
1986	23,242	136	4,533	227	27,613	7,123	1,998	7,486	1,073	74,006	4,039	4,953	133,050	20,286	2,521	0	0	31,101	
1987	19,965	149	4,022	218	28,380	7,749	2,098	8,538	1,213	76,542	4,447	5,394	138,600	28,600	5,101	0	0	37,205	
1988	20,506	152	4,490	236	31,546	8,318	2,218	8,137	1,170	79,036	4,568	5,471	145,190	29,146	2,893	0	0	46,216	
1989	22,239	162	3,766	231	27,059	7,689	1,647	9,854	1,200	77,740	2,655	5,309	137,150	29,212	6,999	0	0	28,268	
									Trillion Btu										
1960	**231.4**	**47.0**	**17.4**	**3.5**	**78.3**	**18.2**	**68.6**	**10.6**	**4.4**	**188.4**	**28.9**	**1.4**	**419.7**	**0.0**	**53.8**	**0.0**	**0.0**	**2.5**	**754.4**
1961	244.2	52.3	17.8	3.1	78.4	18.6	75.8	10.5	4.3	200.2	30.2	2.9	441.8	0.0	50.3	0.0	0.0	1.1	789.7
1962	260.5	58.3	20.9	3.7	91.5	20.7	80.1	12.5	4.5	203.0	23.3	3.2	463.5	0.0	58.0	0.0	0.0	-6.0	834.3
1963	282.9	64.5	17.4	3.4	93.2	21.8	77.0	14.0	4.5	212.9	20.8	4.0	469.0	0.0	45.7	0.0	0.0	-1.0	861.2
1964	295.0	70.9	18.0	3.7	95.2	22.4	69.3	15.2	4.7	218.7	23.4	4.9	475.6	0.0	62.7	0.0	0.0	-3.9	900.4
1965	**325.9**	**78.2**	**17.9**	**3.6**	**100.1**	**19.7**	**72.1**	**16.8**	**5.1**	**226.6**	**29.7**	**5.0**	**496.6**	**0.0**	**56.3**	**0.0**	**0.0**	**-21.9**	**935.1**
1966	380.3	89.4	21.7	1.8	119.5	21.1	72.2	17.9	5.3	239.6	33.1	6.1	538.2	0.0	45.6	0.0	0.0	-29.9	1,023.6
1967	405.4	100.8	23.1	1.5	117.7	24.4	67.6	17.0	4.5	251.4	33.7	8.2	549.1	0.0	52.5	0.0	0.0	-33.9	1,073.9
1968	446.6	117.8	23.2	1.5	114.4	28.5	74.8	17.1	4.9	265.6	29.4	8.1	567.5	0.0	49.1	0.0	0.0	-35.7	1,145.3
1969	472.8	140.2	24.0	1.4	116.8	27.0	68.5	19.4	5.1	281.4	37.8	9.0	590.4	0.0	51.8	0.0	0.0	-39.1	1,216.0
1970	**491.4**	**154.9**	**24.0**	**0.8**	**131.7**	**25.7**	**65.8**	**20.7**	**5.2**	**296.0**	**42.6**	**8.0**	**620.6**	**0.0**	**45.9**	**0.0**	**0.0**	**-33.1**	**1,279.7**
1971	484.6	164.4	25.1	1.0	125.7	25.9	62.7	20.3	5.5	308.2	65.4	9.9	649.8	0.0	62.0	0.0	0.0	-19.5	1,341.3
1972	492.8	167.8	27.4	1.2	134.4	22.6	54.0	22.2	5.9	333.0	99.8	11.2	711.7	0.0	66.8	0.0	0.0	-22.8	1,416.3
1973	531.7	165.2	30.6	1.4	146.5	21.4	43.4	22.7	6.5	346.1	99.9	12.1	730.7	0.0	73.9	0.0	0.0	-12.3	1,489.3
1974	522.8	143.7	26.0	1.2	132.2	21.3	34.5	21.8	6.3	348.6	86.1	10.7	688.7	0.0	71.9	0.0	0.0	14.1	1,441.2
1975	**476.5**	**116.9**	**20.2**	**1.1**	**123.8**	**20.8**	**33.1**	**23.9**	**5.7**	**351.6**	**48.9**	**10.3**	**639.6**	**15.5**	**73.4**	**0.0**	**0.0**	**76.1**	**1,398.0**
1976	544.5	103.0	19.8	0.8	141.0	20.3	35.1	26.1	6.4	367.9	80.4	13.1	710.9	27.7	58.6	0.0	0.0	42.9	1,487.6
1977	548.1	73.9	23.5	1.1	158.9	22.4	35.9	23.4	7.3	379.8	92.3	15.9	760.5	61.0	55.2	0.0	0.0	54.4	1,553.0
1978	499.9	83.7	23.6	1.3	143.5	23.8	32.9	28.3	7.8	395.0	77.7	16.3	750.3	108.5	56.8	0.0	0.0	75.5	1,574.6
1979	558.6	133.8	23.3	1.2	171.5	23.8	20.8	29.0	8.2	373.8	75.4	17.0	743.9	74.1	82.0	0.0	0.0	42.2	1,634.5
1980	**624.7**	**155.2**	**20.5**	**1.1**	**140.5**	**28.7**	**18.5**	**29.3**	**7.3**	**347.9**	**56.9**	**17.0**	**667.7**	**63.0**	**57.0**	**0.0**	**0.0**	**36.1**	**1,603.7**
1981	655.3	154.3	14.3	1.4	123.6	29.4	13.4	27.4	7.0	349.4	35.3	17.5	618.8	68.9	30.6	0.0	0.0	40.9	1,568.8
1982	622.1	146.8	14.7	0.9	117.5	31.8	13.2	25.1	6.4	345.9	36.2	14.1	605.9	101.1	56.5	0.0	0.0	-13.6	1,518.8
1983	595.0	141.1	21.3	1.0	143.6	35.6	8.8	25.2	6.7	353.0	36.5	11.6	643.2	134.8	64.6	0.0	0.0	19.6	1,598.4
1984	558.9	148.7	25.5	0.8	151.8	35.5	8.6	25.7	7.1	367.3	35.4	14.4	672.1	219.4	65.7	0.0	0.0	18.5	1,683.5
1985	**550.5**	**138.4**	**22.9**	**0.9**	**144.6**	**37.0**	**12.3**	**27.7**	**6.7**	**372.1**	**27.4**	**13.5**	**665.1**	**208.7**	**42.3**	**0.0**	**0.0**	**81.1**	**1,686.0**
1986	583.2	140.3	30.1	1.1	160.8	39.7	11.3	27.2	6.5	388.8	25.4	27.1	718.1	219.1	25.9	0.0	0.0	106.1	1,792.6
1987	500.9	153.3	26.7	1.1	165.3	43.2	11.9	31.2	7.4	402.1	28.0	29.6	746.4	308.2	52.3	0.0	0.0	126.9	1,888.0
1988	515.4	156.6	29.8	1.2	183.8	46.4	12.6	29.7	7.1	415.2	28.7	30.2	784.6	313.1	29.6	0.0	0.0	157.7	1,957.0
1989	556.8	166.8	25.0	1.2	157.6	42.8	9.3	36.3	7.3	408.4	16.7	29.2	733.8	313.3	72.3	0.0	0.0	96.5	1,939.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 214. Residential Energy Consumption Estimates, 1960-1989, North Carolina

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**348**	**0**	**348**	**9**	**5,887**	**10,429**	**1,615**	**17,931**	**5,796**	**14,417**
1961	283	0	283	10	5,928	11,715	1,602	19,246	6,344	15,462
1962	311	0	311	12	6,917	12,042	1,902	20,860	6,682	16,064
1963	261	0	261	14	6,672	11,517	2,111	20,301	7,269	17,384
1964	229	0	229	14	6,581	10,379	2,271	19,232	7,864	18,729
1965	**190**	**0**	**190**	**15**	**6,654**	**10,547**	**2,563**	**19,765**	**8,601**	**20,537**
1966	223	0	223	18	7,829	10,571	2,662	21,062	9,541	22,893
1967	208	0	208	21	7,774	10,493	2,527	20,793	10,337	24,695
1968	193	0	193	25	8,086	11,064	2,497	21,647	11,759	28,057
1969	189	0	189	28	7,876	10,476	2,800	21,153	13,198	31,527
1970	**153**	**0**	**153**	**27**	**8,663**	**10,045**	**3,003**	**21,711**	**14,660**	**35,527**
1971	131	0	131	30	8,243	9,539	2,926	20,709	15,787	38,167
1972	124	0	124	33	8,960	8,119	3,107	20,185	16,578	39,903
1973	142	0	142	28	8,899	6,904	2,597	18,401	18,480	44,243
1974	140	0	140	27	7,502	5,434	2,303	15,240	18,591	45,329
1975	**129**	**0**	**129**	**27**	**7,261**	**4,901**	**2,245**	**14,408**	**18,999**	**45,828**
1976	101	0	101	34	8,126	5,295	2,400	15,821	19,987	48,145
1977	83	0	83	32	8,551	4,924	2,360	15,835	21,851	52,764
1978	83	0	83	35	7,414	4,427	2,788	14,629	22,648	55,408
1979	52	0	52	32	9,434	3,106	2,664	15,204	22,614	54,575
1980	**60**	**0**	**60**	**34**	**7,044**	**2,747**	**2,846**	**12,637**	**24,377**	**59,277**
1981	48	0	48	33	5,516	1,939	2,784	10,239	24,928	59,410
1982	54	0	54	32	4,910	2,025	2,521	9,456	24,007	57,662
1983	45	1	45	31	5,582	1,214	2,997	9,793	25,237	60,464
1984	42	0	42	32	5,724	1,292	3,335	10,351	26,930	62,536
1985	**68**	**1**	**69**	**29**	**4,880**	**1,810**	**3,296**	**9,986**	**26,852**	**62,968**
1986	54	0	54	32	4,980	1,685	3,298	9,963	29,506	67,649
1987	57	0	57	36	5,684	1,838	3,783	11,305	31,507	71,804
1988	71	0	71	38	5,735	1,884	3,728	11,348	32,212	72,744
1989	54	0	54	39	4,676	1,471	5,114	11,262	32,784	73,536

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**137.2**	**186.4**
1961	145.9	198.6
1962	158.6	213.4
1963	158.2	217.5
1964	153.3	217.2
1965	**157.9**	**228.0**
1966	173.3	251.4
1967	176.9	261.1
1968	189.5	285.2
1969	194.1	301.6
1970	**200.4**	**321.6**
1971	201.3	331.5
1972	203.2	339.3
1973	196.3	347.3
1974	177.3	331.9
1975	**174.3**	**330.6**
1976	191.2	355.5
1977	195.8	375.9
1978	193.5	382.6
1979	193.7	379.9
1980	**186.1**	**388.3**
1981	172.9	375.6
1982	165.1	361.8
1983	169.7	376.0
1984	179.1	392.5
1985	**173.5**	**388.4**
1986	185.3	416.2
1987	203.3	448.3
1988	208.9	457.1
1989	207.5	458.4

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity: Net Energy[4]	Electrical System Energy Losses[3]	Electricity: Total[4]
	Trillion Btu										
1960	**8.6**	**0.0**	**8.6**	**8.9**	**34.3**	**59.1**	**6.5**	**99.9**	**19.8**	**137.2**	**49.2**	**186.4**
1961	7.0	0.0	7.0	9.8	34.5	66.4	6.4	107.4	21.6	145.9	52.8	198.6
1962	7.7	0.0	7.7	11.9	40.3	68.3	7.6	116.2	22.8	158.6	54.8	213.4
1963	6.5	0.0	6.5	14.3	38.9	65.3	8.5	112.6	24.8	158.2	59.3	217.5
1964	5.7	0.0	5.7	14.5	38.3	58.9	9.1	106.3	26.8	153.3	63.9	217.2
1965	**4.7**	**0.0**	**4.7**	**15.1**	**38.8**	**59.8**	**10.3**	**108.8**	**29.3**	**157.9**	**70.1**	**228.0**
1966	5.5	0.0	5.5	19.0	45.6	59.9	10.7	116.2	32.6	173.3	78.1	251.4
1967	5.1	0.0	5.1	22.0	45.3	59.5	9.7	114.5	35.3	176.9	84.3	261.1
1968	4.7	0.0	4.7	25.3	47.1	62.7	9.5	119.4	40.1	189.5	95.7	285.2
1969	4.6	0.0	4.6	28.5	45.9	59.4	10.7	115.9	45.0	194.1	107.6	301.6
1970	**3.6**	**0.0**	**3.6**	**28.0**	**50.5**	**57.0**	**11.3**	**118.8**	**50.0**	**200.4**	**121.2**	**321.6**
1971	3.1	0.0	3.1	31.2	48.0	54.1	11.0	113.1	53.9	201.3	130.2	331.5
1972	2.9	0.0	2.9	33.8	52.2	46.0	11.7	109.9	56.6	203.2	136.2	339.3
1973	3.3	0.0	3.3	29.2	51.8	39.1	9.7	100.7	63.1	196.3	151.0	347.3
1974	3.2	0.0	3.2	27.5	43.7	30.8	8.6	83.1	63.4	177.3	154.7	331.9
1975	**3.0**	**0.0**	**3.0**	**28.0**	**42.3**	**27.8**	**8.3**	**78.4**	**64.8**	**174.3**	**156.4**	**330.6**
1976	2.4	0.0	2.4	34.3	47.3	30.0	8.9	86.3	68.2	191.2	164.3	355.5
1977	2.0	0.0	2.0	32.9	49.8	27.9	8.7	86.4	74.6	195.8	180.0	375.9
1978	1.9	0.0	1.9	35.8	43.2	25.1	10.2	78.5	77.3	193.5	189.1	382.6
1979	1.3	0.0	1.3	32.9	55.0	17.6	9.8	82.4	77.2	193.7	186.2	379.9
1980	**1.5**	**0.0**	**1.5**	**34.4**	**41.0**	**15.6**	**10.5**	**67.1**	**83.2**	**186.1**	**202.3**	**388.3**
1981	1.2	0.0	1.2	33.4	32.1	11.0	10.1	53.3	85.1	172.9	202.7	375.6
1982	1.3	0.0	1.3	32.6	28.6	11.5	9.1	49.2	81.9	165.1	196.7	361.8
1983	1.1	*	1.1	32.3	32.5	6.9	10.8	50.2	86.1	169.7	206.3	376.0
1984	1.0	0.0	1.0	33.5	33.3	7.3	12.0	52.7	91.9	179.1	213.4	392.5
1985	**1.7**	*	**1.7**	**29.6**	**28.4**	**10.3**	**11.9**	**50.6**	**91.6**	**173.5**	**214.8**	**388.4**
1986	1.4	0.0	1.4	32.7	29.0	9.6	12.0	50.6	100.7	185.3	230.8	416.2
1987	1.4	0.0	1.4	37.0	33.1	10.4	13.8	57.4	107.5	203.3	245.0	448.3
1988	1.8	0.0	1.8	39.5	33.4	10.7	13.6	57.7	109.9	208.9	248.2	457.1
1989	1.3	0.0	1.3	39.9	27.2	8.3	18.8	54.4	111.9	207.5	250.9	458.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 215. Commercial Energy Consumption Estimates, 1960-1989, North Carolina

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**647**	**0**	**647**	**4**	**1,156**	**248**	**285**	**206**	**122**	**2,018**	**2,667**	**6,634**		
1961	526	0	526	4	1,164	279	283	225	113	2,063	2,927	7,135		
1962	577	0	577	5	1,358	287	336	235	95	2,311	3,258	7,832		
1963	485	0	485	6	1,310	274	373	256	88	2,301	3,545	8,478		
1964	426	0	426	7	1,292	247	401	265	100	2,306	4,065	9,680		
1965	**352**	**0**	**352**	**7**	**1,307**	**251**	**452**	**278**	**120**	**2,409**	**5,360**	**12,797**		
1966	414	0	414	10	1,538	252	470	293	134	2,686	5,958	14,296		
1967	386	0	386	17	1,527	250	446	309	143	2,675	6,627	15,832		
1968	358	0	358	21	1,588	264	441	326	127	2,745	7,670	18,301		
1969	351	0	351	25	1,547	250	494	332	163	2,785	8,638	20,634		
1970	**284**	**0**	**284**	**22**	**1,701**	**239**	**530**	**355**	**179**	**3,004**	**9,697**	**23,499**		
1971	243	0	243	26	1,619	227	516	366	282	3,010	10,634	25,708		
1972	230	0	230	24	1,760	193	548	377	363	3,241	11,517	27,721		
1973	263	0	263	23	1,748	164	458	400	304	3,074	12,812	30,673		
1974	259	0	259	21	1,473	129	406	399	277	2,686	12,383	30,193		
1975	**240**	**0**	**240**	**22**	**1,426**	**117**	**396**	**414**	**233**	**2,586**	**11,679**	**28,170**		
1976	188	0	188	20	1,596	126	424	431	384	2,960	12,298	29,624		
1977	155	0	155	18	1,679	117	417	434	450	3,097	13,188	31,846		
1978	154	0	154	20	1,456	105	492	447	347	2,848	13,631	33,348		
1979	97	0	97	24	1,853	74	470	457	371	3,225	13,655	32,954		
1980	**111**	**0**	**111**	**26**	**1,673**	**118**	**502**	**790**	**491**	**3,574**	**14,258**	**34,671**		
1981	90	0	90	26	1,343	45	491	801	102	2,782	15,681	37,373		
1982	101	0	101	25	885	33	445	689	185	2,237	15,760	37,854		
1983	83	*	83	25	2,932	94	529	664	169	4,388	16,357	39,188		
1984	78	0	78	26	3,007	41	589	1,524	164	5,325	18,264	42,411		
1985	**125**	**1**	**126**	**25**	**2,649**	**111**	**582**	**632**	**224**	**4,198**	**19,163**	**44,937**		
1986	101	0	101	25	2,418	87	582	647	152	3,887	20,858	47,823		
1987	105	0	105	30	2,934	79	668	722	44	4,446	22,110	50,389		
1988	132	0	132	32	3,087	119	658	683	207	4,754	23,117	52,205		
1989	99	0	99	33	2,351	86	902	625	99	4,064	24,273	54,447		
	Trillion Btu													
1960	**16.0**	**0.0**	**16.0**	**3.8**	**6.7**	**1.4**	**1.1**	**1.1**	**0.8**	**11.1**	**9.1**	**40.1**	**22.6**	**62.7**
1961	13.0	0.0	13.0	4.3	6.8	1.6	1.1	1.2	0.7	11.4	10.0	38.7	24.3	63.0
1962	14.3	0.0	14.3	5.1	7.9	1.6	1.3	1.2	0.6	12.7	11.1	43.2	26.7	69.9
1963	12.0	0.0	12.0	6.2	7.6	1.6	1.5	1.3	0.6	12.6	12.1	42.8	28.9	71.8
1964	10.5	0.0	10.5	6.9	7.5	1.4	1.6	1.4	0.6	12.6	13.9	43.8	33.0	76.8
1965	**8.7**	**0.0**	**8.7**	**7.5**	**7.6**	**1.4**	**1.8**	**1.5**	**0.8**	**13.1**	**18.3**	**47.5**	**43.7**	**91.2**
1966	10.2	0.0	10.2	9.8	9.0	1.4	1.9	1.5	0.8	14.6	20.3	55.0	48.8	103.8
1967	9.4	0.0	9.4	17.6	8.9	1.4	1.7	1.6	0.9	14.5	22.6	64.2	54.0	118.2
1968	8.7	0.0	8.7	21.2	9.3	1.5	1.7	1.7	0.8	14.9	26.2	71.0	62.4	133.5
1969	8.5	0.0	8.5	25.2	9.0	1.4	1.9	1.7	1.0	15.1	29.5	78.2	70.4	148.6
1970	**6.7**	**0.0**	**6.7**	**22.0**	**9.9**	**1.4**	**2.0**	**1.9**	**1.1**	**16.3**	**33.1**	**78.1**	**80.2**	**158.3**
1971	5.7	0.0	5.7	27.0	9.4	1.3	1.9	1.9	1.8	16.4	36.3	85.3	87.7	173.1
1972	5.4	0.0	5.4	24.7	10.2	1.1	2.1	2.0	2.3	17.7	39.3	87.1	94.6	181.7
1973	6.2	0.0	6.2	23.7	10.2	0.9	1.7	2.1	1.9	16.8	43.7	90.4	104.7	195.1
1974	6.0	0.0	6.0	21.5	8.6	0.7	1.5	2.1	1.7	14.7	42.3	84.5	103.0	187.5
1975	**5.6**	**0.0**	**5.6**	**22.0**	**8.3**	**0.7**	**1.5**	**2.2**	**1.5**	**14.1**	**39.8**	**81.6**	**96.1**	**177.7**
1976	4.5	0.0	4.5	20.4	9.3	0.7	1.6	2.3	2.4	16.3	42.0	83.1	101.1	184.2
1977	3.7	0.0	3.7	18.7	9.8	0.7	1.5	2.3	2.8	17.1	45.0	84.4	108.7	193.0
1978	3.6	0.0	3.6	20.8	8.5	0.6	1.8	2.3	2.2	15.4	46.5	86.3	113.8	200.1
1979	2.3	0.0	2.3	24.4	10.8	0.4	1.7	2.4	2.3	17.7	46.6	91.0	112.4	203.5
1980	**2.7**	**0.0**	**2.7**	**26.5**	**9.7**	**0.7**	**1.8**	**4.1**	**3.1**	**19.5**	**48.6**	**97.3**	**118.3**	**215.6**
1981	2.2	0.0	2.2	26.7	7.8	0.3	1.8	4.2	0.6	14.7	53.5	97.1	127.5	224.6
1982	2.5	0.0	2.5	25.7	5.2	0.2	1.6	3.6	1.2	11.7	53.8	93.7	129.2	222.8
1983	2.1	*	2.1	25.5	17.1	0.5	1.9	3.5	1.1	24.1	55.8	107.5	133.7	241.2
1984	1.9	0.0	1.9	27.1	17.5	0.2	2.1	8.0	1.0	28.9	62.3	120.2	144.7	264.9
1985	**3.1**	*	**3.1**	**25.9**	**15.4**	**0.6**	**2.1**	**3.3**	**1.4**	**22.9**	**65.4**	**117.3**	**153.3**	**270.6**
1986	2.5	0.0	2.5	26.3	14.1	0.5	2.1	3.4	1.0	21.1	71.2	121.1	163.2	284.2
1987	2.6	0.0	2.6	30.9	17.1	0.4	2.4	3.8	0.3	24.0	75.4	133.1	171.9	305.0
1988	3.3	0.0	3.3	33.4	18.0	0.7	2.4	3.6	1.3	25.9	78.9	141.6	178.1	319.7
1989	2.5	0.0	2.5	34.2	13.7	0.5	3.3	3.3	0.6	21.4	82.8	140.9	185.8	326.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Energy Information Administration

Table 218. Estimates of Energy Input at Electric Utilities, 1960-1989, North Carolina

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**5,488**	**0**	**5,488**	**5**	**19**	**60**	**0**	**79**	**0**	**4,951**	**0**	**0**
1961	6,055	0	6,055	2	15	48	0	63	0	4,676	0	0
1962	6,685	0	6,685	3	13	41	0	54	0	5,450	0	0
1963	7,645	0	7,645	3	15	47	0	62	0	4,329	0	0
1964	8,317	0	8,317	2	21	69	0	91	0	5,951	0	0
1965	**9,595**	**0**	**9,595**	**3**	**16**	**53**	**0**	**70**	**0**	**5,349**	**0**	**0**
1966	11,535	0	11,535	3	20	63	0	83	0	4,351	0	0
1967	12,885	0	12,885	2	8	27	0	36	0	5,011	0	0
1968	14,706	0	14,706	4	41	133	0	174	0	4,703	0	0
1969	16,273	0	16,273	8	164	529	0	693	0	4,936	0	0
1970	**17,709**	**0**	**17,709**	**21**	**445**	**1,432**	**0**	**1,877**	**0**	**4,363**	**0**	**0**
1971	18,142	0	18,142	21	1,098	939	0	2,037	0	5,910	0	0
1972	18,763	0	18,763	17	4,111	883	0	4,995	0	6,428	0	0
1973	19,900	0	19,900	8	6,067	573	0	6,640	0	7,107	0	0
1974	20,014	0	20,014	1	4,812	601	0	5,413	0	6,887	0	0
1975	**18,206**	**0**	**18,206**	*****	**237**	**93**	**0**	**330**	**1,405**	**7,050**	**0**	**0**
1976	20,981	0	20,981	*	626	228	0	853	2,511	5,650	0	0
1977	21,235	0	21,235	*	329	859	0	1,188	5,664	5,282	0	0
1978	18,998	0	18,998	*	1,316	639	0	1,955	9,917	5,478	0	0
1979	21,138	0	21,138	1	236	163	0	398	6,809	7,913	0	0
1980	**23,920**	**0**	**23,920**	**2**	*****	**561**	**0**	**561**	**5,775**	**5,483**	**0**	**0**
1981	24,950	0	24,950	1	0	480	0	480	6,246	2,927	0	0
1982	23,540	0	23,540	*	1	330	0	331	9,126	5,405	0	0
1983	21,913	0	21,913	*	0	464	0	464	12,363	6,139	0	0
1984	20,306	0	20,306	*	1	335	0	336	20,232	6,366	0	0
1985	**19,610**	**0**	**19,610**	**1**	**0**	**443**	**0**	**443**	**19,303**	**4,091**	**0**	**0**
1986	20,542	0	20,542	1	0	349	0	349	20,286	2,518	0	0
1987	17,255	0	17,255	1	0	435	0	435	28,600	5,098	0	0
1988	17,766	0	17,766	1	0	458	0	458	29,146	2,890	0	0
1989	19,516	0	19,516	2	0	557	0	557	29,212	6,996	0	0

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Heavy Oil[2]	Light Oil[3]	Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Trillion Btu												
1960	**144.0**	**0.0**	**144.0**	**4.8**	**0.1**	**0.4**	**0.0**	**0.5**	**0.0**	**53.3**	**0.0**	**0.0**	**202.6**
1961	158.9	0.0	158.9	2.2	0.1	0.3	0.0	0.4	0.0	49.8	0.0	0.0	211.3
1962	174.8	0.0	174.8	2.6	0.1	0.2	0.0	0.3	0.0	57.5	0.0	0.0	235.3
1963	198.1	0.0	198.1	2.9	0.1	0.3	0.0	0.4	0.0	45.4	0.0	0.0	246.8
1964	216.0	0.0	216.0	2.3	0.1	0.4	0.0	0.5	0.0	62.3	0.0	0.0	281.1
1965	**247.7**	**0.0**	**247.7**	**3.0**	**0.1**	**0.3**	**0.0**	**0.4**	**0.0**	**55.9**	**0.0**	**0.0**	**307.0**
1966	295.8	0.0	295.8	2.7	0.1	0.4	0.0	0.5	0.0	45.3	0.0	0.0	344.3
1967	325.1	0.0	325.1	2.1	0.1	0.2	0.0	0.2	0.0	52.3	0.0	0.0	379.7
1968	371.4	0.0	371.4	4.3	0.3	0.8	0.0	1.0	0.0	48.9	0.0	0.0	425.6
1969	406.1	0.0	406.1	8.6	1.0	3.1	0.0	4.1	0.0	51.6	0.0	0.0	470.3
1970	**427.0**	**0.0**	**427.0**	**21.6**	**2.8**	**8.3**	**0.0**	**11.1**	**0.0**	**45.8**	**0.0**	**0.0**	**505.6**
1971	431.9	0.0	431.9	21.4	6.9	5.5	0.0	12.4	0.0	61.9	0.0	0.0	527.6
1972	448.7	0.0	448.7	17.5	25.8	5.1	0.0	31.0	0.0	66.7	0.0	0.0	563.8
1973	485.9	0.0	485.9	8.0	38.1	3.3	0.0	41.5	0.0	73.8	0.0	0.0	609.3
1974	478.1	0.0	478.1	1.1	30.3	3.5	0.0	33.8	0.0	71.9	0.0	0.0	584.9
1975	**433.1**	**0.0**	**433.1**	**0.1**	**1.5**	**0.5**	**0.0**	**2.0**	**15.5**	**73.4**	**0.0**	**0.0**	**524.1**
1976	505.2	0.0	505.2	*	3.9	1.3	0.0	5.3	27.7	58.6	0.0	0.0	596.9
1977	506.8	0.0	506.8	*	2.1	5.0	0.0	7.1	61.0	55.1	0.0	0.0	630.0
1978	457.0	0.0	457.0	*	8.3	3.7	0.0	12.0	108.5	56.8	0.0	0.0	634.2
1979	515.0	0.0	515.0	0.6	1.5	0.9	0.0	2.4	74.1	81.9	0.0	0.0	674.0
1980	**586.9**	**0.0**	**586.9**	**1.8**	*****	**3.3**	**0.0**	**3.3**	**63.0**	**57.0**	**0.0**	**0.0**	**711.9**
1981	609.8	0.0	609.8	0.9	0.0	2.8	0.0	2.8	68.9	30.6	0.0	0.0	713.1
1982	577.6	0.0	577.6	0.1	*	1.9	0.0	1.9	101.1	56.5	0.0	0.0	737.2
1983	545.4	0.0	545.4	0.2	0.0	2.7	0.0	2.7	134.8	64.6	0.0	0.0	747.6
1984	506.7	0.0	506.7	0.1	*	2.0	0.0	2.0	219.4	65.7	0.0	0.0	793.9
1985	**489.8**	**0.0**	**489.8**	**0.6**	**0.0**	**2.6**	**0.0**	**2.6**	**208.7**	**42.3**	**0.0**	**0.0**	**744.0**
1986	515.7	0.0	515.7	1.2	0.0	2.0	0.0	2.0	219.1	25.8	0.0	0.0	763.9
1987	433.1	0.0	433.1	1.2	0.0	2.5	0.0	2.5	308.2	52.3	0.0	0.0	797.3
1988	446.8	0.0	446.8	1.1	0.0	2.7	0.0	2.7	313.1	29.6	0.0	0.0	793.3
1989	489.1	0.0	489.1	1.7	0.0	3.2	0.0	3.2	313.3	72.3	0.0	0.0	879.6

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 219. Energy Consumption Estimates by Source, 1960-1989, North Dakota

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**2,101**	**26**	**1,123**	**66**	**3,773**	**2,103**	**904**	**1,212**	**202**	**7,719**	**687**	**803**	**18,592**	**0**	**1,060**	**0**	**0**	**-3,501**	
1961	2,082	28	852	63	3,703	2,138	843	1,264	196	7,343	578	783	17,763	0	1,407	0	0	-4,865	
1962	1,971	31	803	156	4,484	2,308	861	1,280	184	7,852	536	775	19,238	0	1,293	0	0	-4,160	
1963	1,732	32	1,149	138	4,573	2,375	939	1,446	184	8,044	565	827	20,241	0	1,483	0	0	-3,707	
1964	1,834	33	940	163	4,545	2,455	923	1,208	193	8,100	679	897	20,103	0	1,877	0	0	-5,113	
1965	**1,719**	**32**	**795**	**165**	**5,170**	**2,069**	**52**	**1,154**	**167**	**8,212**	**868**	**925**	**19,576**	**0**	**2,497**	**0**	**0**	**-6,185**	
1966	2,520	32	920	142	5,896	2,151	81	1,310	173	8,196	713	988	20,571	0	1,928	0	0	-5,872	
1967	3,150	32	1,393	130	5,924	2,385	192	1,300	145	8,164	565	998	21,196	0	2,770	0	0	-10,764	
1968	3,466	33	1,308	128	6,096	2,795	118	1,622	160	8,510	616	1,012	22,365	0	2,499	0	0	-11,239	
1969	3,595	33	1,335	92	5,913	2,513	119	1,755	163	8,502	559	1,016	21,967	0	2,938	0	0	-12,027	
1970	**4,186**	**33**	**1,402**	**95**	**4,975**	**2,074**	**245**	**1,719**	**166**	**8,766**	**728**	**985**	**21,154**	**0**	**3,108**	**0**	**0**	**-14,183**	
1971	5,049	34	1,716	113	4,923	2,225	239	1,709	147	9,182	654	954	21,863	0	3,919	0	0	-19,882	
1972	5,434	36	1,211	96	5,206	2,044	185	1,832	158	9,575	777	964	22,047	0	3,939	0	0	-19,921	
1973	5,272	32	1,514	93	4,750	1,857	136	1,607	159	9,993	899	1,043	22,053	0	3,367	0	0	-17,020	
1974	5,696	35	1,335	92	4,421	1,941	103	1,584	152	9,630	1,174	1,069	21,502	0	4,084	0	0	-19,946	
1975	**5,100**	**37**	**1,054**	**85**	**4,446**	**1,855**	**70**	**1,580**	**158**	**10,044**	**1,089**	**1,071**	**21,453**	**0**	**4,511**	**0**	**0**	**-18,295**	
1976	6,924	41	1,095	85	4,079	1,800	61	1,663	176	10,411	1,033	1,078	21,483	0	3,720	0	0	-22,745	
1977	8,073	38	911	79	4,097	1,905	71	1,594	177	10,430	955	1,075	21,295	0	1,569	0	0	-19,413	
1978	9,706	39	1,143	97	4,229	1,837	76	1,962	190	10,782	906	1,127	22,349	0	5,214	0	0	-33,275	
1979	11,099	29	919	102	8,323	1,824	0	1,711	199	9,795	910	1,174	24,957	0	6,009	0	0	-40,402	
1980	**12,346**	**23**	**753**	**64**	**8,139**	**1,702**	**15**	**1,302**	**177**	**9,167**	**716**	**1,127**	**23,162**	**0**	**5,364**	**0**	**0**	**-43,747**	
1981	13,018	34	745	47	7,689	1,629	14	1,451	170	9,523	1,119	699	23,086	0	5,265	0	0	-45,422	
1982	14,977	28	761	35	7,248	1,583	26	1,446	155	9,340	1,129	725	22,448	0	7,155	0	0	-56,627	
1983	16,190	26	1,090	24	6,867	1,495	21	1,455	163	9,017	1,508	906	22,546	0	8,029	0	0	-64,903	
1984	19,656	30	996	31	7,486	1,707	21	772	173	8,867	1,389	920	22,362	0	7,105	0	0	-64,185	
1985	**22,958**	**28**	**1,047**	**4**	**7,505**	**1,682**	**23**	**781**	**162**	**8,820**	**608**	**871**	**21,501**	**0**	**4,818**	**0**	*****	**-58,109**	
1986	23,587	25	877	37	7,405	1,646	16	2,446	158	8,580	454	877	22,497	0	3,304	0	*	-54,161	
1987	24,101	25	884	29	6,819	1,254	7	2,284	179	8,816	371	980	21,623	0	3,365	0	*	-56,029	
1988	28,029	29	956	32	6,776	1,315	13	2,306	172	8,599	376	1,159	21,704	0	2,273	0	0	-67,436	
1989	27,401	30	924	31	7,010	1,336	12	2,505	177	8,394	378	1,172	21,939	0	1,948	0	0	-62,334	
									Trillion Btu										
1960	**30.5**	**27.4**	**7.5**	**0.3**	**22.0**	**11.3**	**5.1**	**4.9**	**1.2**	**40.5**	**4.3**	**4.8**	**101.9**	**0.0**	**11.4**	**0.0**	**0.0**	**-11.9**	**159.3**
1961	30.0	29.3	5.7	0.3	21.6	11.5	4.8	5.1	1.2	38.6	3.6	4.7	96.9	0.0	15.0	0.0	0.0	-16.6	154.6
1962	28.4	32.0	5.3	0.8	26.1	12.4	4.9	5.1	1.1	41.2	3.4	4.7	105.0	0.0	13.7	0.0	0.0	-14.2	164.9
1963	24.9	32.3	7.6	0.7	26.6	12.7	5.3	5.8	1.1	42.3	3.5	5.0	110.7	0.0	15.5	0.0	0.0	-12.6	170.8
1964	26.5	33.4	6.2	0.8	26.5	13.2	5.2	4.8	1.2	42.5	4.3	5.4	110.2	0.0	19.6	0.0	0.0	-17.4	172.2
1965	**24.7**	**32.4**	**5.3**	**0.8**	**30.1**	**11.1**	**0.3**	**4.6**	**1.0**	**43.1**	**5.5**	**5.6**	**107.4**	**0.0**	**26.1**	**0.0**	**0.0**	**-21.1**	**169.6**
1966	36.0	31.9	6.1	0.7	34.3	11.5	0.5	5.3	1.0	43.1	4.5	5.9	112.9	0.0	20.1	0.0	0.0	-20.0	180.9
1967	44.0	32.0	9.2	0.7	34.5	12.8	1.1	5.0	0.9	42.9	3.6	6.0	116.6	0.0	28.9	0.0	0.0	-36.7	184.8
1968	48.5	33.3	8.7	0.6	35.5	15.0	0.7	6.2	1.0	44.7	3.9	6.1	122.4	0.0	26.0	0.0	0.0	-38.3	191.8
1969	50.0	32.9	8.9	0.5	34.4	13.6	0.7	6.7	1.0	44.7	3.5	6.1	119.9	0.0	30.7	0.0	0.0	-41.0	192.5
1970	**57.5**	**33.7**	**9.3**	**0.5**	**29.0**	**11.2**	**1.4**	**6.5**	**1.0**	**46.0**	**4.6**	**5.9**	**115.4**	**0.0**	**32.6**	**0.0**	**0.0**	**-48.4**	**190.8**
1971	67.7	34.6	11.4	0.6	28.7	12.0	1.4	6.4	0.9	48.2	4.1	5.7	119.4	0.0	41.1	0.0	0.0	-67.8	194.9
1972	72.8	37.6	8.0	0.5	30.3	11.0	1.0	6.9	1.0	50.3	4.9	5.8	119.7	0.0	40.9	0.0	0.0	-68.0	203.1
1973	71.1	33.2	10.0	0.5	27.7	10.0	0.8	6.0	1.0	52.5	5.7	6.3	120.4	0.0	35.0	0.0	0.0	-58.1	201.6
1974	76.5	35.5	8.9	0.5	25.7	10.5	0.6	5.9	0.9	50.6	7.4	6.4	117.4	0.0	42.6	0.0	0.0	-68.1	204.0
1975	**67.9**	**36.9**	**7.0**	**0.4**	**25.9**	**10.0**	**0.4**	**5.9**	**1.0**	**52.8**	**6.8**	**6.4**	**116.6**	**0.0**	**46.9**	**0.0**	**0.0**	**-62.4**	**205.9**
1976	91.5	41.2	7.3	0.4	23.8	9.7	0.3	6.2	1.1	54.7	6.5	6.5	116.4	0.0	38.6	0.0	0.0	-77.6	210.1
1977	107.3	37.6	6.0	0.4	23.9	10.3	0.4	5.9	1.1	54.8	6.0	6.5	115.2	0.0	16.4	0.0	0.0	-66.2	210.3
1978	129.8	39.1	7.6	0.5	24.6	9.9	0.4	7.2	1.2	56.6	5.7	6.8	120.5	0.0	54.0	0.0	0.0	-113.5	229.9
1979	148.1	29.2	6.1	0.5	48.5	9.9	0.0	6.3	1.2	51.5	5.7	7.1	136.7	0.0	62.2	0.0	0.0	-137.9	238.4
1980	**163.3**	**24.0**	**5.0**	**0.3**	**47.4**	**9.2**	**0.1**	**4.8**	**1.1**	**48.2**	**4.5**	**6.8**	**127.3**	**0.0**	**55.7**	**0.0**	**0.0**	**-149.3**	**221.1**
1981	172.4	35.9	4.9	0.2	44.8	8.8	0.1	5.3	1.0	50.0	7.0	4.4	126.6	0.0	55.0	0.0	0.0	-155.0	235.0
1982	198.9	29.1	5.0	0.2	42.2	8.5	0.1	5.2	0.9	49.1	7.1	4.5	123.0	0.0	74.8	0.0	0.0	-193.2	232.6
1983	213.4	27.3	7.2	0.1	40.0	8.1	0.1	5.3	1.0	47.4	9.5	5.5	124.2	0.0	84.5	0.0	0.0	-221.4	227.9
1984	256.7	31.6	6.6	0.2	43.6	9.2	0.1	2.8	1.1	46.6	8.7	5.6	124.4	0.0	73.3	0.0	0.0	-219.0	267.1
1985	**302.0**	**29.8**	**6.9**	*****	**43.7**	**9.1**	**0.1**	**2.8**	**1.0**	**46.3**	**3.8**	**5.4**	**119.2**	**0.0**	**49.8**	**0.0**	*****	**-198.3**	**302.5**
1986	310.9	26.6	5.8	0.2	43.1	8.9	0.1	8.9	1.0	45.1	2.9	5.5	121.4	0.0	33.9	0.0	*	-184.8	307.9
1987	319.3	26.0	5.9	0.1	39.7	6.8	*	8.4	1.1	46.3	2.3	6.0	116.6	0.0	34.5	0.0	*	-191.2	305.3
1988	369.8	30.2	6.3	0.2	39.5	7.1	0.1	8.4	1.0	45.2	2.4	7.0	117.2	0.0	23.3	0.0	0.0	-230.1	310.3
1989	361.7	31.6	6.1	0.2	40.8	7.2	0.1	9.2	1.1	44.1	2.4	7.1	118.2	0.0	20.1	0.0	0.0	-212.7	319.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 220. Residential Energy Consumption Estimates, 1960–1989, North Dakota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**195**	**0**	**195**	**4**	**874**	**860**	**787**	**2,521**	**728**	**1,810**		
1961	182	0	182	4	867	828	794	2,489	710	1,732		
1962	177	0	177	5	963	851	821	2,635	755	1,815		
1963	141	0	141	5	992	930	856	2,778	800	1,914		
1964	121	0	121	6	942	910	759	2,610	847	2,017		
1965	**108**	**0**	**108**	**7**	**1,269**	**40**	**758**	**2,067**	**911**	**2,176**		
1966	114	0	114	7	1,432	59	869	2,360	1,087	2,607		
1967	98	0	98	6	1,397	120	887	2,405	1,131	2,703		
1968	80	0	80	7	1,419	107	1,096	2,622	1,214	2,896		
1969	64	0	64	8	1,363	108	1,243	2,714	1,294	3,090		
1970	**50**	**0**	**50**	**8**	**1,103**	**190**	**1,283**	**2,576**	**1,399**	**3,391**		
1971	43	0	43	9	891	184	1,261	2,336	1,472	3,558		
1972	36	0	36	10	1,016	139	1,318	2,473	1,598	3,847		
1973	35	0	35	8	811	91	1,196	2,098	1,623	3,885		
1974	59	0	59	10	809	23	1,172	2,004	1,739	4,240		
1975	**53**	**0**	**53**	**10**	**776**	**21**	**1,181**	**1,978**	**1,901**	**4,584**		
1976	45	0	45	10	655	27	1,268	1,949	2,050	4,938		
1977	65	0	65	10	441	24	1,183	1,647	2,148	5,188		
1978	95	0	95	12	448	17	1,355	1,820	2,399	5,869		
1979	65	0	65	12	1,596	0	772	2,368	2,516	6,072		
1980	**50**	**0**	**50**	**10**	**1,173**	**5**	**511**	**1,689**	**2,456**	**5,972**		
1981	59	0	59	9	1,065	14	653	1,733	2,651	6,317		
1982	75	0	75	11	912	22	376	1,310	2,900	6,965		
1983	83	0	83	10	915	18	447	1,380	2,702	6,472		
1984	88	0	88	10	988	18	204	1,210	2,953	6,858		
1985	**69**	**0**	**69**	**10**	**1,119**	**21**	**279**	**1,419**	**3,012**	**7,062**		
1986	62	0	62	9	1,056	8	990	2,054	2,954	6,773		
1987	36	0	36	8	895	5	898	1,799	2,788	6,353		
1988	49	0	49	9	965	7	1,193	2,165	3,050	6,888		
1989	61	0	61	10	913	11	1,226	2,150	3,060	6,865		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**3.0**	**0.0**	**3.0**	**4.0**	**5.1**	**4.9**	**3.2**	**13.1**	**2.5**	**22.6**	**6.2**	**28.8**
1961	2.8	0.0	2.8	4.3	5.1	4.7	3.2	12.9	2.4	22.5	5.9	28.4
1962	2.8	0.0	2.8	4.9	5.6	4.8	3.3	13.7	2.6	23.9	6.2	30.1
1963	2.2	0.0	2.2	4.9	5.8	5.3	3.4	14.5	2.7	24.3	6.5	30.8
1964	1.9	0.0	1.9	5.5	5.5	5.2	3.0	13.7	2.9	24.0	6.9	30.9
1965	**1.7**	**0.0**	**1.7**	**6.6**	**7.4**	**0.2**	**3.0**	**10.7**	**3.1**	**22.0**	**7.4**	**29.5**
1966	1.8	0.0	1.8	6.7	8.3	0.3	3.5	12.2	3.7	24.4	8.9	33.3
1967	1.5	0.0	1.5	6.5	8.1	0.7	3.4	12.2	3.9	24.1	9.2	33.3
1968	1.2	0.0	1.2	7.2	8.3	0.6	4.2	13.1	4.1	25.6	9.9	35.5
1969	1.0	0.0	1.0	7.7	7.9	0.6	4.7	13.3	4.4	26.4	10.5	36.9
1970	**0.7**	**0.0**	**0.7**	**8.4**	**6.4**	**1.1**	**4.8**	**12.4**	**4.8**	**26.3**	**11.6**	**37.9**
1971	0.6	0.0	0.6	8.8	5.2	1.0	4.8	11.0	5.0	25.4	12.1	37.6
1972	0.5	0.0	0.5	10.7	5.9	0.8	5.0	11.7	5.5	28.3	13.1	41.4
1973	0.5	0.0	0.5	8.4	4.7	0.5	4.5	9.7	5.5	24.2	13.3	37.4
1974	0.9	0.0	0.9	9.6	4.7	0.1	4.4	9.2	5.9	25.6	14.5	40.1
1975	**0.7**	**0.0**	**0.7**	**10.2**	**4.5**	**0.1**	**4.4**	**9.0**	**6.5**	**26.5**	**15.6**	**42.1**
1976	0.6	0.0	0.6	10.2	3.8	0.2	4.7	8.7	7.0	26.5	16.8	43.3
1977	0.9	0.0	0.9	10.2	2.6	0.1	4.3	7.1	7.3	25.4	17.7	43.1
1978	1.3	0.0	1.3	12.4	2.6	0.1	5.0	7.7	8.2	29.5	20.0	49.6
1979	0.9	0.0	0.9	11.6	9.3	0.0	2.8	12.1	8.6	33.2	20.7	53.9
1980	**0.7**	**0.0**	**0.7**	**10.1**	**6.8**	*****	**1.9**	**8.7**	**8.4**	**27.9**	**20.4**	**48.3**
1981	0.8	0.0	0.8	9.3	6.2	0.1	2.4	8.7	9.0	27.8	21.6	49.4
1982	1.0	0.0	1.0	11.2	5.3	0.1	1.4	6.8	9.9	28.9	23.8	52.7
1983	1.1	0.0	1.1	10.1	5.3	0.1	1.6	7.1	9.2	27.5	22.1	49.6
1984	1.1	0.0	1.1	10.5	5.8	0.1	0.7	6.6	10.1	28.3	23.4	51.7
1985	**0.9**	**0.0**	**0.9**	**11.0**	**6.5**	**0.1**	**1.0**	**7.6**	**10.3**	**29.8**	**24.1**	**53.9**
1986	0.8	0.0	0.8	9.8	6.2	*	3.6	9.8	10.1	30.4	23.1	53.5
1987	0.5	0.0	0.5	8.5	5.2	*	3.3	8.5	9.5	27.0	21.7	48.6
1988	0.6	0.0	0.6	9.7	5.6	*	4.4	10.0	10.4	30.7	23.5	54.2
1989	0.8	0.0	0.8	10.3	5.3	0.1	4.5	9.9	10.4	31.4	23.4	54.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 221. Commercial Energy Consumption Estimates, 1960–1989, North Dakota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**362**	**0**	**362**	**3**	**198**	**0**	**139**	**32**	**73**	**442**	**304**	**757**		
1961	338	0	338	3	197	0	140	35	34	405	356	868		
1962	330	0	330	4	218	0	145	35	12	410	374	899		
1963	262	0	262	5	225	0	151	33	22	431	401	958		
1964	225	0	225	4	214	0	134	45	98	490	419	998		
1965	**201**	**0**	**201**	**5**	**288**	**0**	**134**	**179**	**209**	**809**	**443**	**1,058**		
1966	211	0	211	6	325	0	153	194	175	847	589	1,414		
1967	183	0	183	6	317	0	157	136	66	676	601	1,436		
1968	148	0	148	7	322	0	193	151	18	685	611	1,457		
1969	119	0	119	7	309	0	219	106	57	691	661	1,580		
1970	**93**	**0**	**93**	**8**	**250**	**0**	**226**	**151**	**104**	**731**	**696**	**1,686**		
1971	80	0	80	9	202	0	222	158	71	653	667	1,614		
1972	67	0	67	10	230	0	233	114	167	743	723	1,739		
1973	64	0	64	10	184	0	211	109	225	729	812	1,943		
1974	110	0	110	12	183	0	207	108	534	1,032	835	2,035		
1975	**99**	**0**	**99**	**12**	**176**	**0**	**208**	**95**	**493**	**972**	**805**	**1,942**		
1976	84	0	84	12	148	0	224	79	462	913	871	2,099		
1977	120	0	120	11	100	0	209	76	344	729	897	2,166		
1978	177	0	177	12	102	0	239	81	394	815	1,118	2,735		
1979	121	0	121	12	362	0	136	71	430	1,000	1,146	2,766		
1980	**93**	**0**	**93**	**11**	**642**	**0**	**90**	**73**	**400**	**1,206**	**1,145**	**2,784**		
1981	110	0	110	9	392	0	115	80	60	647	1,243	2,963		
1982	138	0	138	11	210	4	66	82	208	571	1,347	3,234		
1983	154	0	154	10	423	*	79	85	139	725	1,264	3,029		
1984	163	0	163	10	456	*	36	20	128	640	1,950	4,529		
1985	**128**	**0**	**128**	**10**	**484**	*	**49**	**69**	**77**	**679**	**2,026**	**4,751**		
1986	114	0	114	9	314	*	175	71	94	654	2,005	4,596		
1987	68	0	68	8	242	1	159	73	35	509	1,970	4,491		
1988	90	0	90	10	154	1	211	73	50	488	1,987	4,486		
1989	114	0	114	11	186	1	216	61	35	499	1,989	4,460		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**5.6**	**0.0**	**5.6**	**2.9**	**1.2**	**0.0**	**0.6**	**0.2**	**0.5**	**2.3**	**1.0**	**11.9**	**2.6**	**14.5**
1961	5.3	0.0	5.3	3.3	1.1	0.0	0.6	0.2	0.2	2.1	1.2	11.8	3.0	14.8
1962	5.1	0.0	5.1	4.2	1.3	0.0	0.6	0.2	0.1	2.1	1.3	12.7	3.1	15.7
1963	4.1	0.0	4.1	4.6	1.3	0.0	0.6	0.2	0.1	2.2	1.4	12.2	3.3	15.5
1964	3.5	0.0	3.5	4.2	1.2	0.0	0.5	0.2	0.6	2.6	1.4	11.8	3.4	15.2
1965	**3.1**	**0.0**	**3.1**	**5.0**	**1.7**	**0.0**	**0.5**	**0.9**	**1.3**	**4.5**	**1.5**	**14.1**	**3.6**	**17.7**
1966	3.3	0.0	3.3	6.2	1.9	0.0	0.6	1.0	1.1	4.6	2.0	16.1	4.8	20.9
1967	2.8	0.0	2.8	6.1	1.8	0.0	0.6	0.7	0.4	3.6	2.1	14.5	4.9	19.4
1968	2.3	0.0	2.3	7.1	1.9	0.0	0.7	0.8	0.1	3.5	2.1	15.0	5.0	20.0
1969	1.8	0.0	1.8	7.5	1.8	0.0	0.8	0.6	0.4	3.5	2.3	15.1	5.4	20.5
1970	**1.4**	**0.0**	**1.4**	**8.6**	**1.5**	**0.0**	**0.9**	**0.8**	**0.7**	**3.8**	**2.4**	**16.1**	**5.8**	**21.8**
1971	1.2	0.0	1.2	9.3	1.2	0.0	0.8	0.8	0.4	3.3	2.3	16.1	5.5	21.6
1972	1.0	0.0	1.0	10.2	1.3	0.0	0.9	0.6	1.0	3.9	2.5	17.5	5.9	23.4
1973	1.0	0.0	1.0	10.1	1.1	0.0	0.8	0.6	1.4	3.8	2.8	17.7	6.6	24.3
1974	1.6	0.0	1.6	11.6	1.1	0.0	0.8	0.6	3.4	5.8	2.8	21.8	6.9	28.7
1975	**1.4**	**0.0**	**1.4**	**12.4**	**1.0**	**0.0**	**0.8**	**0.5**	**3.1**	**5.4**	**2.7**	**21.9**	**6.6**	**28.6**
1976	1.1	0.0	1.1	12.2	0.9	0.0	0.8	0.4	2.9	5.0	3.0	21.3	7.2	28.5
1977	1.6	0.0	1.6	11.2	0.6	0.0	0.8	0.4	2.2	3.9	3.1	19.8	7.4	27.2
1978	2.4	0.0	2.4	11.8	0.6	0.0	0.9	0.4	2.5	4.4	3.8	22.4	9.3	31.7
1979	1.6	0.0	1.6	12.0	2.1	0.0	0.5	0.4	2.7	5.7	3.9	23.3	9.4	32.7
1980	**1.2**	**0.0**	**1.2**	**11.6**	**3.7**	**0.0**	**0.3**	**0.4**	**2.5**	**7.0**	**3.9**	**23.7**	**9.5**	**33.2**
1981	1.5	0.0	1.5	9.8	2.3	0.0	0.4	0.4	0.4	3.5	4.2	19.0	10.1	29.1
1982	1.8	0.0	1.8	11.7	1.2	*	0.2	0.4	1.3	3.2	4.6	21.3	11.0	32.4
1983	2.0	0.0	2.0	10.3	2.5	*	0.3	0.4	0.9	4.1	4.3	20.7	10.3	31.0
1984	2.1	0.0	2.1	10.4	2.7	*	0.1	0.1	0.8	3.7	6.7	22.9	15.5	38.4
1985	**1.7**	**0.0**	**1.7**	**10.7**	**2.8**	*	**0.2**	**0.4**	**0.5**	**3.8**	**6.9**	**23.2**	**16.2**	**39.4**
1986	1.5	0.0	1.5	9.5	1.8	*	0.6	0.4	0.6	3.4	6.8	21.2	15.7	36.9
1987	0.9	0.0	0.9	8.3	1.4	*	0.6	0.4	0.2	2.6	6.7	18.5	15.3	33.8
1988	1.2	0.0	1.2	10.4	0.9	*	0.8	0.4	0.3	2.4	6.8	20.7	15.3	36.0
1989	1.5	0.0	1.5	11.1	1.1	*	0.8	0.3	0.2	2.4	6.8	21.8	15.2	37.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 224. Estimates of Energy Input at Electric Utilities, 1960-1989, North Dakota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**1,014**	**0**	**1,014**	*	**15**	**4**	**0**	**20**	**0**	**1,060**	**0**	**0**	
1961	1,131	0	1,131	*	15	4	0	20	0	1,407	0	0	
1962	1,102	0	1,102	*	11	3	0	14	0	1,293	0	0	
1963	956	0	956	*	8	2	0	10	0	1,483	0	0	
1964	1,065	0	1,065	*	4	1	0	4	0	1,877	0	0	
1965	**964**	**0**	**964**	*	**2**	**1**	**0**	**3**	**0**	**2,497**	**0**	**0**	
1966	1,730	0	1,730	*	2	*	0	2	0	1,928	0	0	
1967	2,415	0	2,415	*	11	3	0	15	0	2,770	0	0	
1968	2,878	0	2,878	*	21	6	0	27	0	2,499	0	0	
1969	2,900	0	2,900	*	10	3	0	12	0	2,938	0	0	
1970	**3,519**	**0**	**3,519**	*	**25**	**7**	**0**	**32**	**0**	**3,108**	**0**	**0**	
1971	4,486	0	4,486	*	213	5	0	219	0	3,919	0	0	
1972	4,896	0	4,896	*	29	8	0	38	0	3,939	0	0	
1973	4,830	0	4,830	*	10	4	0	14	0	3,367	0	0	
1974	5,200	0	5,200	*	19	2	0	21	0	4,084	0	0	
1975	**4,377**	**0**	**4,377**	*	**18**	**2**	**0**	**20**	**0**	**4,511**	**0**	**0**	
1976	6,423	0	6,423	*	30	18	0	47	0	3,720	0	0	
1977	7,404	0	7,404	*	75	21	0	96	0	1,569	0	0	
1978	8,746	0	8,746	*	47	26	0	74	0	5,214	0	0	
1979	10,138	0	10,138	*	61	145	0	207	0	6,009	0	0	
1980	**11,618**	**0**	**11,618**	*	**0**	**68**	**0**	**68**	**0**	**5,364**	**0**	**0**	
1981	12,358	0	12,358	*	0	91	0	91	0	5,265	0	0	
1982	14,100	0	14,100	*	0	88	0	88	0	7,155	0	0	
1983	15,386	0	15,386	*	0	98	0	98	0	8,029	0	0	
1984	16,953	0	16,953	*	0	163	0	163	0	7,105	0	0	
1985	**17,354**	**0**	**17,354**	*	**0**	**74**	**0**	**74**	**0**	**4,818**	**0**	*	
1986	17,291	0	17,291	*	0	57	0	57	0	3,304	0	*	
1987	17,434	0	17,434	*	0	50	0	50	0	3,365	0	*	
1988	21,686	0	21,686	*	0	46	0	46	0	2,273	0	0	
1989	20,538	0	20,538	*	0	72	0	72	0	1,948	0	0	
	Trillion Btu												
1960	**14.0**	**0.0**	**14.0**	**0.1**	**0.1**	*	**0.0**	**0.1**	**0.0**	**11.4**	**0.0**	**0.0**	**25.7**
1961	15.5	0.0	15.5	*	0.1	*	0.0	0.1	0.0	15.0	0.0	0.0	30.7
1962	15.2	0.0	15.2	0.3	0.1	*	0.0	0.1	0.0	13.7	0.0	0.0	29.2
1963	13.2	0.0	13.2	0.1	*	*	0.0	0.1	0.0	15.5	0.0	0.0	28.8
1964	14.9	0.0	14.9	*	*	*	0.0	*	0.0	19.6	0.0	0.0	34.6
1965	**13.4**	**0.0**	**13.4**	*	*	*	**0.0**	*	**0.0**	**26.1**	**0.0**	**0.0**	**39.6**
1966	24.2	0.0	24.2	*	*	*	0.0	*	0.0	20.1	0.0	0.0	44.4
1967	33.1	0.0	33.1	*	0.1	*	0.0	0.1	0.0	28.9	0.0	0.0	62.1
1968	39.8	0.0	39.8	*	0.1	*	0.0	0.2	0.0	26.0	0.0	0.0	65.9
1969	39.9	0.0	39.9	0.1	0.1	*	0.0	0.1	0.0	30.7	0.0	0.0	70.7
1970	**48.1**	**0.0**	**48.1**	**0.4**	**0.2**	*	**0.0**	**0.2**	**0.0**	**32.6**	**0.0**	**0.0**	**81.3**
1971	59.9	0.0	59.9	0.4	1.3	*	0.0	1.4	0.0	41.1	0.0	0.0	102.7
1972	65.4	0.0	65.4	0.3	0.2	*	0.0	0.2	0.0	40.9	0.0	0.0	106.8
1973	65.0	0.0	65.0	0.4	0.1	*	0.0	0.1	0.0	35.0	0.0	0.0	100.4
1974	69.6	0.0	69.6	0.1	0.1	*	0.0	0.1	0.0	42.6	0.0	0.0	112.4
1975	**58.4**	**0.0**	**58.4**	**0.2**	**0.1**	*	**0.0**	**0.1**	**0.0**	**46.9**	**0.0**	**0.0**	**105.6**
1976	84.9	0.0	84.9	*	0.2	0.1	0.0	0.3	0.0	38.6	0.0	0.0	123.8
1977	98.4	0.0	98.4	*	0.5	0.1	0.0	0.6	0.0	16.4	0.0	0.0	115.4
1978	117.1	0.0	117.1	*	0.3	0.2	0.0	0.5	0.0	54.0	0.0	0.0	171.6
1979	135.3	0.0	135.3	*	0.4	0.8	0.0	1.2	0.0	62.2	0.0	0.0	198.8
1980	**153.8**	**0.0**	**153.8**	*	**0.0**	**0.4**	**0.0**	**0.4**	**0.0**	**55.7**	**0.0**	**0.0**	**209.9**
1981	163.7	0.0	163.7	*	0.0	0.5	0.0	0.5	0.0	55.0	0.0	0.0	219.3
1982	187.3	0.0	187.3	*	0.0	0.5	0.0	0.5	0.0	74.8	0.0	0.0	262.7
1983	202.9	0.0	202.9	*	0.0	0.6	0.0	0.6	0.0	84.5	0.0	0.0	287.9
1984	221.1	0.0	221.1	*	0.0	0.9	0.0	0.9	0.0	73.3	0.0	0.0	295.4
1985	**228.2**	**0.0**	**228.2**	*	**0.0**	**0.4**	**0.0**	**0.4**	**0.0**	**49.8**	**0.0**	*	**278.5**
1986	227.5	0.0	227.5	*	0.0	0.3	0.0	0.3	0.0	33.9	0.0	*	261.7
1987	230.2	0.0	230.2	*	0.0	0.3	0.0	0.3	0.0	34.5	0.0	*	265.0
1988	285.6	0.0	285.6	*	0.0	0.3	0.0	0.3	0.0	23.3	0.0	0.0	309.1
1989	270.3	0.0	270.3	*	0.0	0.4	0.0	0.4	0.0	20.1	0.0	0.0	290.8

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 225. Energy Consumption Estimates by Source, 1960-1989, Ohio

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**51,256**	**700**	**6,862**	**1,395**	**23,919**	**1,808**	**3,955**	**3,680**	**3,064**	**78,170**	**11,605**	**9,624**	**144,082**	**0**	**20**	**0**	**8**	**49,779**	
1961	46,980	721	6,019	1,366	23,541	1,969	2,540	3,995	2,982	77,874	9,206	10,409	139,901	0	21	0	7	54,963	
1962	49,892	758	6,613	2,133	24,321	2,486	3,296	4,711	3,051	80,740	8,247	11,065	146,665	0	17	0	6	52,712	
1963	50,530	799	6,612	2,158	26,265	2,546	3,439	5,006	3,050	81,478	7,856	11,716	150,127	0	8	0	3	54,216	
1964	51,747	825	6,707	2,187	27,167	2,800	3,191	4,731	3,204	83,138	9,214	14,369	156,710	17	10	0	8	57,232	
1965	**54,023**	**880**	**7,344**	**2,125**	**27,663**	**3,075**	**6,328**	**5,441**	**3,312**	**86,271**	**10,963**	**15,016**	**167,539**	**22**	**11**	**0**	**7**	**52,423**	
1966	58,177	945	7,157	1,626	30,655	3,685	5,920	5,678	3,441	90,452	8,225	15,396	172,235	1	10	0	7	47,669	
1967	57,918	963	7,022	1,174	30,654	4,996	6,734	6,900	3,092	92,064	6,874	15,268	174,778	0	10	0	6	45,313	
1968	61,043	988	9,755	1,070	33,843	5,763	7,430	7,783	3,396	97,629	6,006	15,825	188,499	0	8	0	5	42,675	
1969	64,691	1,032	9,115	833	34,318	6,212	7,182	9,286	3,564	101,780	6,191	15,973	194,456	0	8	0	3	41,071	
1970	**66,863**	**1,053**	**9,017**	**712**	**34,458**	**5,857**	**6,494**	**8,712**	**3,631**	**106,296**	**6,445**	**16,580**	**198,203**	**0**	**7**	**0**	**5**	**49,736**	
1971	64,537	1,087	8,555	682	35,209	6,448	6,079	8,988	3,535	108,167	5,254	16,011	198,928	0	9	0	4	45,590	
1972	66,683	1,148	9,125	628	41,416	6,961	4,991	10,148	3,785	113,594	5,849	17,198	213,695	0	9	0	4	58,067	
1973	68,942	1,104	10,867	625	41,933	6,967	4,843	10,292	4,266	119,261	7,119	18,377	224,550	0	8	0	3	63,277	
1974	71,570	1,087	9,099	593	41,270	5,812	4,054	10,222	4,086	117,606	8,398	17,865	219,005	0	10	0	3	63,611	
1975	**70,764**	**957**	**8,749**	**491**	**42,168**	**6,039**	**3,600**	**9,910**	**3,609**	**118,808**	**10,399**	**17,304**	**221,076**	**0**	**7**	**0**	*	**41,054**	
1976	71,933	1,006	7,918	468	51,267	6,389	4,894	10,383	4,009	122,219	11,597	19,539	238,682	0	8	0	1	55,802	
1977	73,227	847	9,210	467	52,239	6,882	5,069	10,507	3,818	126,130	15,251	21,040	250,611	468	6	0	1	75,372	
1978	71,124	930	9,608	455	54,670	7,075	4,525	11,423	4,100	126,987	14,109	22,288	255,239	2,425	5	0	1	72,239	
1979	72,252	898	8,967	442	45,290	6,815	3,573	46,635	4,290	121,618	11,316	23,469	272,416	3,163	4	0	1	55,948	
1980	**64,914**	**897**	**7,324**	**473**	**48,833**	**7,219**	**2,452**	**44,263**	**3,821**	**113,232**	**6,918**	**23,344**	**257,880**	**2,119**	**6**	**0**	**1**	**47,144**	
1981	65,595	870	6,903	408	45,122	5,745	2,751	39,689	3,664	110,193	5,846	17,304	237,624	4,407	6	0	*	43,633	
1982	58,953	814	7,364	393	40,393	5,485	2,563	40,793	3,341	105,904	2,444	14,977	223,658	3,226	5	0	*	24,499	
1983	55,301	747	6,744	397	33,347	5,821	1,895	41,043	3,498	107,106	4,093	15,627	219,571	4,904	135	0	9	41,134	
1984	57,049	785	6,881	322	36,139	6,832	1,971	32,439	3,730	109,043	3,803	17,581	218,741	4,312	164	0	203	76,626	
1985	**57,979**	**733**	**6,339**	**330**	**35,980**	**7,204**	**2,600**	**32,822**	**3,477**	**108,737**	**2,767**	**16,220**	**216,475**	**1,943**	**175**	**0**	**265**	**83,515**	
1986	59,325	717	7,341	375	35,839	9,924	1,581	17,715	3,399	111,935	2,770	16,903	207,784	24	172	0	279	72,869	
1987	59,350	715	9,006	239	33,518	10,800	1,283	17,825	3,843	115,823	2,166	18,931	213,432	7,513	225	0	352	69,177	
1988	61,096	805	6,356	331	37,060	9,218	1,566	14,104	3,706	117,047	2,998	19,691	212,077	8,455	187	0	351	66,589	
1989	61,016	814	10,622	250	38,238	10,405	1,446	16,414	3,801	116,158	2,807	19,621	219,763	12,661	130	0	316	65,880	
									Trillion Btu										
1960	**1,269.4**	**724.8**	**45.5**	**7.0**	**139.3**	**9.8**	**22.4**	**14.8**	**18.6**	**410.6**	**73.0**	**57.5**	**798.5**	**0.0**	**0.2**	**0.0**	**0.1**	**169.8**	**2,962.9**
1961	1,159.3	746.5	39.9	6.9	137.1	10.7	14.4	16.0	18.1	409.1	57.9	62.2	772.3	0.0	0.2	0.0	0.1	187.5	2,865.9
1962	1,229.7	784.6	43.9	10.8	141.7	13.6	18.7	18.9	18.5	424.1	51.9	66.2	808.2	0.0	0.2	0.0	0.1	179.9	3,002.6
1963	1,243.8	826.1	43.9	10.9	153.0	13.9	19.5	20.1	18.5	428.0	49.4	69.7	826.9	0.0	0.1	0.0	*	185.0	3,082.0
1964	1,272.3	852.7	44.5	11.0	158.2	15.4	18.1	19.0	19.4	436.7	57.9	83.7	864.0	0.2	0.1	0.0	0.1	195.3	3,184.7
1965	**1,324.4**	**909.4**	**48.7**	**10.7**	**161.1**	**17.0**	**35.9**	**21.8**	**20.1**	**453.2**	**68.9**	**87.5**	**925.0**	**0.3**	**0.1**	**0.0**	**0.1**	**178.9**	**3,338.1**
1966	1,420.4	975.8	47.5	8.2	178.6	20.5	33.6	22.8	20.9	475.1	51.7	89.0	947.8	*	0.1	0.0	0.1	162.6	3,506.9
1967	1,405.5	994.6	46.6	5.9	178.6	27.8	38.2	26.5	18.8	483.6	43.2	88.5	957.7	0.0	0.1	0.0	0.1	154.6	3,512.5
1968	1,478.6	1,018.5	64.7	5.4	197.1	32.1	42.1	29.7	20.6	512.8	37.8	91.6	1,034.0	0.0	0.1	0.0	0.1	145.6	3,676.9
1969	1,556.1	1,064.0	60.5	4.2	199.9	34.8	40.7	35.3	21.6	534.7	38.9	92.2	1,062.8	0.0	0.1	0.0	*	140.1	3,823.1
1970	**1,571.4**	**1,077.2**	**59.8**	**3.6**	**200.7**	**32.8**	**36.8**	**32.9**	**22.0**	**558.4**	**40.5**	**95.7**	**1,083.3**	**0.0**	**0.1**	**0.0**	**0.1**	**169.7**	**3,901.7**
1971	1,490.5	1,112.1	56.8	3.4	205.1	36.2	34.5	33.9	21.4	568.2	33.0	92.7	1,085.2	0.0	0.1	0.0	*	155.6	3,843.5
1972	1,561.0	1,174.2	60.6	3.2	241.2	39.1	28.3	38.2	23.0	596.7	36.8	99.6	1,166.5	0.0	0.1	0.0	*	198.1	4,100.0
1973	1,622.8	1,131.8	72.1	3.2	244.3	39.2	27.5	38.6	25.9	626.5	44.8	106.5	1,228.3	0.0	0.1	0.0	*	215.9	4,198.9
1974	1,642.1	1,114.9	60.4	3.0	240.4	32.6	23.0	38.1	24.8	617.8	52.8	103.3	1,196.2	0.0	0.1	0.0	*	217.0	4,170.4
1975	**1,619.1**	**978.9**	**58.1**	**2.5**	**245.6**	**33.9**	**20.4**	**36.8**	**21.9**	**624.1**	**65.4**	**100.4**	**1,209.1**	**0.0**	**0.1**	**0.0**	*	**140.1**	**3,947.2**
1976	1,653.3	1,031.1	52.5	2.4	298.6	35.9	27.7	38.5	24.3	642.0	72.9	112.7	1,307.6	0.0	0.1	0.0	*	190.4	4,182.5
1977	1,669.2	867.8	61.1	2.4	304.3	38.7	28.7	38.6	23.2	662.6	95.9	121.4	1,376.9	5.0	0.1	0.0	*	257.2	4,176.1
1978	1,622.4	951.0	63.8	2.3	318.5	39.8	25.7	41.9	24.9	667.1	88.7	128.4	1,400.9	26.5	*	0.0	*	246.5	4,247.3
1979	1,668.4	920.4	59.5	2.2	263.8	38.4	20.3	171.6	26.0	638.9	71.1	134.1	1,426.0	34.4	*	0.0	*	190.9	4,240.2
1980	**1,528.1**	**911.3**	**48.6**	**2.4**	**284.5**	**40.6**	**13.9**	**162.6**	**23.2**	**594.8**	**43.5**	**132.8**	**1,346.9**	**23.1**	**0.1**	**0.0**	*	**160.9**	**3,970.3**
1981	1,534.9	890.4	45.8	2.1	262.8	32.4	15.6	144.6	22.2	578.8	36.8	99.6	1,240.7	48.6	0.1	0.0	*	148.9	3,863.5
1982	1,392.0	837.1	48.9	2.0	235.3	30.9	14.5	147.5	20.3	556.3	15.4	86.3	1,157.3	35.7	0.1	0.0	*	83.6	3,505.8
1983	1,321.1	772.7	44.8	2.0	194.2	32.8	10.7	148.3	21.2	562.6	25.7	90.6	1,133.0	53.5	1.4	0.0	0.1	140.4	3,422.1
1984	1,361.8	814.4	45.7	1.6	210.5	38.5	11.2	116.7	22.6	572.8	23.9	100.3	1,143.8	46.8	1.7	0.0	2.1	261.4	3,632.0
1985	**1,389.5**	**765.4**	**42.1**	**1.7**	**209.6**	**40.6**	**14.7**	**118.3**	**21.1**	**571.2**	**17.4**	**93.6**	**1,130.2**	**21.0**	**1.8**	**0.0**	**2.7**	**285.0**	**3,595.5**
1986	1,431.8	749.7	48.7	1.9	208.8	56.0	9.0	64.5	20.6	588.0	17.4	97.5	1,112.3	0.3	1.8	0.0	2.9	248.6	3,547.4
1987	1,433.1	747.1	59.8	1.2	195.2	61.0	7.3	65.2	23.3	608.4	13.6	108.4	1,143.5	81.0	2.3	0.0	3.6	236.0	3,646.5
1988	1,474.7	837.5	42.2	1.7	215.9	52.0	8.9	51.5	22.5	614.8	18.8	113.2	1,141.5	90.8	1.9	0.0	3.6	227.2	3,777.2
1989	1,463.9	848.3	70.5	1.3	222.7	58.7	8.2	60.5	23.1	610.2	17.6	112.4	1,185.2	135.8	1.3	0.0	3.3	224.8	3,862.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 226. Residential Energy Consumption Estimates, 1960–1989, Ohio

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**1,177**	**29**	**1,206**	**362**	**7,270**	**1,837**	**1,750**	**10,857**	**10,786**	**26,830**		
1961	989	26	1,015	374	7,316	1,278	1,873	10,467	11,374	27,721		
1962	1,095	23	1,118	390	7,254	1,629	2,124	11,007	11,999	28,847		
1963	859	22	881	403	7,762	1,820	1,999	11,581	12,549	30,012		
1964	770	21	790	402	7,385	1,466	2,055	10,906	13,525	32,212		
1965	**778**	**18**	**797**	**412**	**7,795**	**3,626**	**2,293**	**13,715**	**14,504**	**34,630**		
1966	813	15	828	434	8,746	3,416	2,566	14,728	15,740	37,768		
1967	717	14	730	442	9,052	3,084	3,493	15,630	16,791	40,114		
1968	633	13	647	445	9,308	3,187	3,558	16,053	18,453	44,027		
1969	565	12	577	456	9,215	3,193	4,233	16,640	20,382	48,686		
1970	**560**	**11**	**571**	**460**	**9,320**	**2,979**	**3,892**	**16,191**	**22,266**	**53,958**		
1971	479	11	489	461	9,212	2,797	4,096	16,105	23,606	57,071		
1972	414	8	422	478	10,149	2,464	4,697	17,310	25,269	60,824		
1973	393	8	401	439	10,698	2,449	4,784	17,931	27,227	65,183		
1974	533	7	540	436	10,397	2,237	4,704	17,337	27,859	67,928		
1975	**393**	**6**	**399**	**428**	**10,776**	**2,060**	**4,876**	**17,713**	**27,890**	**67,275**		
1976	416	6	421	440	13,494	2,904	5,013	21,411	28,725	69,194		
1977	481	5	486	402	14,389	2,948	4,721	22,058	30,679	74,080		
1978	512	4	516	417	14,204	2,637	4,601	21,443	31,466	76,982		
1979	332	3	336	374	7,746	1,618	3,184	12,548	31,899	76,983		
1980	**192**	**4**	**196**	**394**	**7,430**	**1,016**	**2,556**	**11,003**	**33,459**	**81,361**		
1981	245	2	246	377	5,696	1,016	2,780	9,493	32,863	78,320		
1982	250	2	252	369	4,488	912	2,640	8,040	32,798	78,776		
1983	295	2	297	330	3,118	877	3,140	7,135	33,418	80,063		
1984	333	2	335	350	3,367	1,222	5,239	9,829	34,090	79,162		
1985	**296**	**7**	**304**	**328**	**4,474**	**1,431**	**5,523**	**11,428**	**33,945**	**79,600**		
1986	368	1	369	327	4,583	1,191	5,467	11,242	35,220	80,752		
1987	283	2	285	326	4,162	942	5,722	10,827	36,711	83,666		
1988	252	4	256	351	4,656	1,131	6,329	12,116	38,713	87,426		
1989	189	4	192	359	4,573	945	6,611	12,129	38,792	87,014		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**28.1**	**0.7**	**28.8**	**374.5**	**42.3**	**10.4**	**7.0**	**59.8**	**36.8**	**499.9**	**91.5**	**591.4**
1961	23.6	0.7	24.2	387.1	42.6	7.2	7.5	57.4	38.8	507.5	94.6	602.1
1962	26.1	0.6	26.6	404.1	42.3	9.2	8.5	60.0	40.9	531.7	98.4	630.1
1963	20.4	0.5	21.0	416.4	45.2	10.3	8.0	63.6	42.8	543.8	102.4	646.2
1964	18.3	0.5	18.8	415.3	43.0	8.3	8.2	59.6	46.1	539.8	109.9	649.7
1965	**18.5**	**0.4**	**18.9**	**425.6**	**45.4**	**20.6**	**9.2**	**75.2**	**49.5**	**569.2**	**118.2**	**687.3**
1966	19.2	0.4	19.6	448.4	50.9	19.4	10.3	80.6	53.7	602.3	128.9	731.2
1967	16.9	0.3	17.2	457.0	52.7	17.5	13.4	83.6	57.3	615.1	136.9	751.9
1968	14.9	0.3	15.2	458.8	54.2	18.1	13.6	85.9	63.0	622.8	150.2	773.0
1969	13.2	0.3	13.5	470.6	53.7	18.1	16.1	87.9	69.5	641.5	166.1	807.6
1970	**12.8**	**0.3**	**13.1**	**470.6**	**54.3**	**16.9**	**14.7**	**85.9**	**76.0**	**645.5**	**184.1**	**829.6**
1971	10.9	0.2	11.1	471.4	53.7	15.9	15.5	85.0	80.5	648.1	194.7	842.8
1972	9.4	0.2	9.6	489.8	59.1	14.0	17.7	90.7	86.2	676.4	207.5	883.9
1973	8.9	0.2	9.1	450.7	62.3	13.9	17.9	94.1	92.9	646.8	222.4	869.2
1974	11.9	0.2	12.1	447.7	60.6	12.7	17.5	90.8	95.1	645.6	231.8	877.3
1975	**8.8**	**0.1**	**8.9**	**438.1**	**62.8**	**11.7**	**18.1**	**92.6**	**95.2**	**634.7**	**229.5**	**864.3**
1976	9.5	0.1	9.7	451.7	78.6	16.5	18.6	113.7	98.0	673.0	236.1	909.1
1977	10.9	0.1	11.0	412.1	83.8	16.7	17.4	117.9	104.7	645.7	252.8	898.5
1978	11.6	0.1	11.7	426.8	82.7	15.0	16.9	114.6	107.4	660.5	262.7	923.1
1979	7.6	0.1	7.7	383.3	45.1	9.2	11.7	66.0	108.8	565.9	262.7	828.5
1980	**4.5**	**0.1**	**4.6**	**400.1**	**43.3**	**5.8**	**9.4**	**58.4**	**114.2**	**577.2**	**277.6**	**854.8**
1981	5.7	*	5.8	385.8	33.2	5.8	10.1	49.1	112.1	552.8	267.2	820.0
1982	5.9	*	5.9	380.2	26.1	5.2	9.5	40.9	111.9	538.9	268.8	807.6
1983	7.0	*	7.1	340.9	18.2	5.0	11.3	34.5	114.0	496.4	273.2	769.6
1984	7.9	*	8.0	363.3	19.6	6.9	18.9	45.4	116.3	533.0	270.1	803.1
1985	**7.1**	**0.2**	**7.2**	**342.0**	**26.1**	**8.1**	**19.9**	**54.1**	**115.8**	**519.1**	**271.6**	**790.7**
1986	8.8	*	8.8	342.4	26.7	6.8	19.9	53.4	120.2	524.7	275.5	800.3
1987	6.8	*	6.9	341.2	24.2	5.3	20.9	50.5	125.3	523.9	285.5	809.3
1988	6.1	0.1	6.2	364.6	27.1	6.4	23.1	56.6	132.1	559.6	298.3	857.9
1989	4.5	0.1	4.6	374.2	26.6	5.4	24.3	56.3	132.4	567.6	296.9	864.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 227. Commercial Energy Consumption Estimates, 1960-1989, Ohio

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**2,187**	**19**	**2,206**	**108**	**1,443**	**95**	**309**	**541**	**2,118**	**4,507**	**7,592**	**18,885**		
1961	1,836	18	1,854	116	1,452	66	331	531	1,535	3,916	7,853	19,140		
1962	2,033	15	2,048	124	1,440	85	375	567	1,342	3,808	8,311	19,981		
1963	1,595	14	1,610	131	1,541	94	353	565	1,247	3,800	8,620	20,614		
1964	1,430	14	1,443	121	1,466	76	363	572	1,610	4,087	9,833	23,419		
1965	**1,446**	**12**	**1,458**	**127**	**1,548**	**188**	**405**	**572**	**1,997**	**4,710**	**10,386**	**24,799**		
1966	1,510	10	1,520	137	1,736	177	453	588	1,355	4,310	11,285	27,078		
1967	1,331	9	1,340	153	1,797	160	616	325	1,050	3,948	12,046	28,778		
1968	1,176	9	1,185	165	1,848	165	628	377	857	3,874	13,243	31,596		
1969	1,049	8	1,057	175	1,829	166	747	368	903	4,013	15,446	36,897		
1970	**1,040**	**7**	**1,047**	**183**	**1,850**	**155**	**687**	**401**	**824**	**3,917**	**17,084**	**41,399**		
1971	889	7	896	190	1,829	145	723	392	719	3,808	18,140	43,856		
1972	768	5	774	208	2,015	128	829	517	585	4,073	19,646	47,287		
1973	730	5	736	197	2,124	127	844	626	669	4,391	21,160	50,658		
1974	990	5	995	192	2,064	116	830	607	799	4,416	21,195	51,679		
1975	**729**	**4**	**733**	**169**	**2,139**	**107**	**861**	**956**	**1,457**	**5,520**	**20,046**	**48,354**		
1976	772	4	776	179	2,679	151	885	912	1,640	6,267	20,845	50,212		
1977	893	4	896	149	2,857	153	833	743	2,099	6,685	21,842	52,743		
1978	951	3	954	172	2,820	137	812	766	1,830	6,365	21,556	52,736		
1979	617	2	619	158	1,538	84	562	955	1,338	4,477	22,405	54,070		
1980	**357**	**3**	**360**	**166**	**2,591**	**130**	**451**	**2,058**	**380**	**5,610**	**23,325**	**56,719**		
1981	454	1	455	161	2,597	67	491	1,186	28	4,368	26,035	62,048		
1982	464	1	465	158	2,104	61	466	837	178	3,646	26,522	63,700		
1983	548	1	549	144	3,575	345	554	789	29	5,292	27,076	64,869		
1984	619	1	620	155	3,861	300	925	2,142	26	7,253	27,984	64,984		
1985	**550**	**5**	**555**	**143**	**2,036**	**670**	**975**	**603**	**100**	**4,384**	**29,179**	**68,426**		
1986	683	*	684	139	2,127	191	965	1,863	193	5,339	30,481	69,886		
1987	526	1	527	147	2,116	166	1,010	2,016	52	5,360	31,779	72,424		
1988	467	3	470	159	2,232	237	1,117	3,028	85	6,698	33,325	75,257		
1989	351	2	353	162	1,687	260	1,167	2,058	23	5,195	34,478	77,337		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**52.2**	**0.5**	**52.6**	**111.7**	**8.4**	**0.5**	**1.2**	**2.8**	**13.3**	**26.3**	**25.9**	**216.6**	**64.4**	**281.0**
1961	43.8	0.4	44.2	120.0	8.5	0.4	1.3	2.8	9.7	22.6	26.8	213.6	65.3	278.9
1962	48.4	0.4	48.8	128.7	8.4	0.5	1.5	3.0	8.4	21.8	28.4	227.7	68.2	295.9
1963	38.0	0.3	38.3	135.2	9.0	0.5	1.4	3.0	7.8	21.7	29.4	224.7	70.3	295.0
1964	34.0	0.3	34.3	124.9	8.5	0.4	1.5	3.0	10.1	23.6	33.6	216.3	79.9	296.2
1965	**34.3**	**0.3**	**34.6**	**131.0**	**9.0**	**1.1**	**1.6**	**3.0**	**12.6**	**27.3**	**35.4**	**228.3**	**84.6**	**313.0**
1966	35.7	0.2	35.9	141.0	10.1	1.0	1.8	3.1	8.5	24.5	38.5	240.0	92.4	332.4
1967	31.3	0.2	31.5	158.4	10.5	0.9	2.4	1.7	6.6	22.0	41.1	253.1	98.2	351.3
1968	27.7	0.2	27.9	170.5	10.8	0.9	2.4	2.0	5.4	21.5	45.2	265.1	107.8	372.9
1969	24.5	0.2	24.7	180.8	10.7	0.9	2.8	1.9	5.7	22.0	52.7	280.2	125.9	406.1
1970	**23.8**	**0.2**	**24.0**	**187.6**	**10.8**	**0.9**	**2.6**	**2.1**	**5.2**	**21.5**	**58.3**	**291.5**	**141.3**	**432.7**
1971	20.2	0.2	20.4	194.2	10.7	0.8	2.7	2.1	4.5	20.8	61.9	297.2	149.6	446.9
1972	17.4	0.1	17.5	213.1	11.7	0.7	3.1	2.7	3.7	22.0	67.0	319.6	161.3	481.0
1973	16.6	0.1	16.7	201.8	12.4	0.7	3.2	3.3	4.2	23.8	72.2	314.4	172.8	487.3
1974	22.1	0.1	22.2	197.7	12.0	0.7	3.1	3.2	5.0	24.0	72.3	316.3	176.3	492.6
1975	**16.3**	**0.1**	**16.4**	**173.4**	**12.5**	**0.6**	**3.2**	**5.0**	**9.2**	**30.4**	**68.4**	**288.6**	**165.0**	**453.6**
1976	17.7	0.1	17.8	184.1	15.6	0.9	3.3	4.8	10.3	34.8	71.1	307.8	171.3	479.1
1977	20.3	0.1	20.3	152.8	16.6	0.9	3.1	3.9	13.2	37.7	74.5	285.3	180.0	465.3
1978	21.5	0.1	21.6	176.6	16.4	0.8	3.0	4.0	11.5	35.7	73.5	307.5	179.9	487.4
1979	14.2	0.1	14.2	162.2	9.0	0.5	2.1	5.0	8.4	24.9	76.4	277.8	184.5	462.3
1980	**8.3**	**0.1**	**8.3**	**168.9**	**15.1**	**0.7**	**1.7**	**10.8**	**2.4**	**30.7**	**79.6**	**287.5**	**193.5**	**481.0**
1981	10.7	*	10.7	164.8	15.1	0.4	1.8	6.2	0.2	23.7	88.8	288.0	211.7	499.7
1982	10.9	*	11.0	162.2	12.3	0.3	1.7	4.4	1.1	19.8	90.5	283.5	217.3	500.9
1983	13.0	*	13.0	148.5	20.8	2.0	2.0	4.1	0.2	29.1	92.4	283.0	221.3	504.3
1984	14.7	*	14.8	161.1	22.5	1.7	3.3	11.2	0.2	38.9	95.5	310.3	221.7	532.0
1985	**13.1**	**0.1**	**13.2**	**149.6**	**11.9**	**3.8**	**3.5**	**3.2**	**0.6**	**23.0**	**99.6**	**285.4**	**233.5**	**518.9**
1986	16.4	*	16.4	145.5	12.4	1.1	3.5	9.8	1.2	28.0	104.0	293.9	238.5	532.4
1987	12.7	*	12.7	153.6	12.3	0.9	3.7	10.6	0.3	27.9	108.4	302.6	247.1	549.7
1988	11.3	0.1	11.4	165.1	13.0	1.3	4.1	15.9	0.5	34.9	113.7	325.1	256.8	581.9
1989	8.4	0.1	8.4	168.3	9.8	1.5	4.3	10.8	0.1	26.6	117.6	320.9	263.9	584.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 230. Estimates of Energy Input at Electric Utilities, 1960–1989, Ohio

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**21,559**	**0**	**21,559**	**3**	**94**	**107**	**0**	**201**	**0**	**7**	**0**	**8**	
1961	20,784	0	20,784	2	96	109	0	205	0	6	0	7	
1962	22,106	0	22,106	2	98	111	0	209	0	5	0	6	
1963	23,143	0	23,143	2	103	117	0	220	0	0	0	3	
1964	23,684	0	23,684	3	103	117	0	220	17	8	0	8	
1965	**24,923**	**0**	**24,923**	**3**	**105**	**119**	**0**	**223**	**22**	**10**	**0**	**7**	
1966	26,806	0	26,806	5	147	167	0	314	1	9	0	7	
1967	28,646	0	28,646	6	162	184	0	345	0	10	0	6	
1968	31,414	0	31,414	11	231	263	0	495	0	8	0	5	
1969	34,112	0	34,112	17	272	309	0	581	0	8	0	3	
1970	**35,321**	**0**	**35,321**	**21**	**697**	**791**	**0**	**1,487**	**0**	**7**	**0**	**5**	
1971	38,424	0	38,424	21	635	1,272	0	1,907	0	9	0	4	
1972	40,171	0	40,171	16	885	2,331	0	3,216	0	9	0	4	
1973	43,631	0	43,631	16	1,820	1,708	0	3,528	0	8	0	3	
1974	44,751	0	44,751	21	2,610	2,734	0	5,343	0	10	0	3	
1975	**47,321**	**0**	**47,321**	**6**	**1,312**	**2,568**	**0**	**3,880**	**0**	**7**	**0**	*	
1976	49,349	0	49,349	5	1,226	2,949	0	4,175	0	8	0	1	
1977	50,507	0	50,507	3	2,600	3,218	0	5,817	468	5	0	1	
1978	49,656	0	49,656	3	3,716	3,448	0	7,164	2,425	4	0	1	
1979	52,075	0	52,075	6	2,715	1,679	0	4,394	3,163	4	0	1	
1980	**48,537**	**0**	**48,537**	**5**	**605**	**1,643**	**0**	**2,248**	**2,119**	**6**	**0**	**1**	
1981	48,460	0	48,460	2	216	840	0	1,056	4,407	6	0	*	
1982	45,759	0	45,759	1	143	734	0	876	3,226	5	0	*	
1983	44,017	0	44,017	1	104	523	0	626	4,904	135	0	9	
1984	45,025	0	45,025	1	111	478	0	589	4,312	164	0	203	
1985	**46,700**	**0**	**46,700**	**1**	**141**	**508**	**0**	**649**	**1,943**	**175**	**0**	**265**	
1986	47,785	0	47,785	1	82	493	0	576	24	172	0	279	
1987	47,520	0	47,520	1	90	519	0	608	7,513	225	0	352	
1988	48,893	0	48,893	1	387	533	0	921	8,455	187	0	351	
1989	50,479	0	50,479	1	510	508	0	1,018	12,661	130	0	316	
	Trillion Btu												
1960	**512.5**	**0.0**	**512.5**	**3.1**	**0.6**	**0.6**	**0.0**	**1.2**	**0.0**	**0.1**	**0.0**	**0.1**	**516.9**
1961	494.5	0.0	494.5	2.2	0.6	0.6	0.0	1.2	0.0	0.1	0.0	0.1	498.2
1962	524.9	0.0	524.9	2.5	0.6	0.6	0.0	1.3	0.0	0.1	0.0	0.1	528.8
1963	550.3	0.0	550.3	2.3	0.6	0.7	0.0	1.3	0.0	0.0	0.0	*	553.9
1964	559.9	0.0	559.9	3.1	0.6	0.7	0.0	1.3	0.2	0.1	0.0	0.1	564.7
1965	**587.3**	**0.0**	**587.3**	**3.0**	**0.7**	**0.7**	**0.0**	**1.3**	**0.3**	**0.1**	**0.0**	**0.1**	**592.1**
1966	626.8	0.0	626.8	4.8	0.9	1.0	0.0	1.9	*	0.1	0.0	0.1	633.7
1967	668.5	0.0	668.5	6.6	1.0	1.1	0.0	2.1	0.0	0.1	0.0	0.1	677.3
1968	732.6	0.0	732.6	11.3	1.5	1.5	0.0	3.0	0.0	0.1	0.0	0.1	747.1
1969	789.0	0.0	789.0	17.9	1.7	1.8	0.0	3.5	0.0	0.1	0.0	*	810.6
1970	**794.7**	**0.0**	**794.7**	**21.9**	**4.4**	**4.6**	**0.0**	**9.0**	**0.0**	**0.1**	**0.0**	**0.1**	**825.7**
1971	850.9	0.0	850.9	21.3	4.0	7.4	0.0	11.4	0.0	0.1	0.0	*	883.7
1972	906.9	0.0	906.9	15.3	5.6	13.5	0.0	19.1	0.0	0.1	0.0	*	941.4
1973	990.4	0.0	990.4	15.3	11.4	9.9	0.0	21.4	0.0	0.1	0.0	*	1,027.2
1974	979.5	0.0	979.5	19.9	16.4	15.9	0.0	32.3	0.0	0.1	0.0	*	1,031.9
1975	**1,037.2**	**0.0**	**1,037.2**	**5.3**	**8.2**	**14.9**	**0.0**	**23.2**	**0.0**	**0.1**	**0.0**	*	**1,065.8**
1976	1,085.9	0.0	1,085.9	4.4	7.7	17.1	0.0	24.9	0.0	0.1	0.0	*	1,115.3
1977	1,100.5	0.0	1,100.5	2.4	16.3	18.7	0.0	35.1	5.0	0.1	0.0	*	1,143.0
1978	1,083.9	0.0	1,083.9	2.1	23.4	20.1	0.0	43.4	26.5	*	0.0	*	1,155.9
1979	1,158.1	0.0	1,158.1	4.8	17.1	9.8	0.0	26.8	34.4	*	0.0	*	1,224.3
1980	**1,110.5**	**0.0**	**1,110.5**	**4.7**	**3.8**	**9.6**	**0.0**	**13.4**	**23.1**	**0.1**	**0.0**	*	**1,151.8**
1981	1,100.4	0.0	1,100.4	2.1	1.4	4.9	0.0	6.3	48.6	0.1	0.0	*	1,157.4
1982	1,057.3	0.0	1,057.3	1.2	0.9	4.3	0.0	5.2	35.7	0.1	0.0	*	1,099.5
1983	1,037.6	0.0	1,037.6	1.1	0.7	3.0	0.0	3.7	53.5	1.4	0.0	0.1	1,097.3
1984	1,059.0	0.0	1,059.0	0.7	0.7	2.8	0.0	3.5	46.8	1.7	0.0	2.1	1,113.7
1985	**1,103.3**	**0.0**	**1,103.3**	**0.7**	**0.9**	**3.0**	**0.0**	**3.8**	**21.0**	**1.8**	**0.0**	**2.7**	**1,133.4**
1986	1,138.3	0.0	1,138.3	0.6	0.5	2.9	0.0	3.4	0.3	1.8	0.0	2.9	1,147.2
1987	1,131.4	0.0	1,131.4	0.9	0.6	3.0	0.0	3.6	81.0	2.3	0.0	3.6	1,222.7
1988	1,163.2	0.0	1,163.2	1.0	2.4	3.1	0.0	5.5	90.8	1.9	0.0	3.6	1,266.0
1989	1,194.8	0.0	1,194.8	1.0	3.2	3.0	0.0	6.2	135.8	1.3	0.0	3.3	1,342.3

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 231. Energy Consumption Estimates by Source, 1960-1989, Oklahoma

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**77**	**308**	**2,034**	**562**	**2,618**	**2,920**	**431**	**6,433**	**661**	**22,708**	**1,454**	**7,938**	**47,758**	**0**	**705**	**0**	**0**	**-3,605**	
1961	61	305	2,072	483	3,149	3,119	387	6,775	643	23,271	839	7,755	48,493	0	1,002	0	0	-3,666	
1962	46	402	2,553	668	3,233	3,591	386	7,441	588	24,124	974	7,870	51,429	0	731	0	0	-4,432	
1963	68	479	2,700	683	3,717	3,694	515	8,304	588	24,632	805	7,977	53,616	0	191	0	0	-5,248	
1964	43	510	3,214	717	3,324	3,799	329	7,563	617	25,036	831	8,289	53,719	0	306	0	0	-5,429	
1965	**30**	**468**	**3,586**	**745**	**2,877**	**3,453**	**945**	**7,654**	**679**	**25,815**	**851**	**8,617**	**55,222**	**0**	**825**	**0**	**0**	**-4,992**	
1966	30	439	3,302	684	3,531	3,809	988	7,980	706	26,931	682	8,597	57,209	0	512	0	0	-6,376	
1967	24	449	3,239	509	3,888	4,405	984	8,096	563	27,705	821	8,354	58,565	0	726	0	0	-7,447	
1968	20	496	3,304	493	5,163	5,048	1,083	8,430	619	29,297	885	8,761	63,084	0	1,526	0	0	-7,679	
1969	6	546	3,433	484	4,925	4,668	996	9,367	611	30,735	720	8,926	64,865	0	1,886	0	0	-13,266	
1970	**7**	**597**	**4,598**	**448**	**5,584**	**4,378**	**1,103**	**9,618**	**622**	**32,521**	**807**	**8,730**	**68,410**	**0**	**1,406**	**0**	**0**	**-18,718**	
1971	7	612	5,227	421	5,477	4,378	886	9,167	752	33,711	617	8,231	68,868	0	1,383	0	0	-16,496	
1972	7	630	4,842	398	7,944	4,143	678	9,706	805	35,754	1,418	8,845	74,533	0	1,447	0	0	-15,162	
1973	175	612	5,049	387	8,951	4,017	656	9,677	1,075	37,437	1,499	9,107	77,855	0	3,761	0	0	-20,438	
1974	181	660	5,506	368	8,849	4,001	494	9,087	1,029	36,997	1,216	8,956	76,503	0	3,590	0	0	-22,524	
1975	**23**	**669**	**5,675**	**309**	**9,449**	**3,916**	**328**	**9,342**	**810**	**38,469**	**641**	**9,555**	**78,495**	**0**	**2,945**	**0**	**0**	**-21,277**	
1976	73	760	4,728	300	11,856	3,967	263	9,490	900	40,477	672	9,441	82,095	0	1,541	0	0	-22,560	
1977	675	767	4,646	331	12,965	4,183	241	9,508	1,355	41,903	781	9,512	85,426	0	1,749	0	0	-18,635	
1978	2,463	770	4,385	351	14,513	4,750	256	10,179	1,456	43,763	1,028	9,591	90,270	0	1,763	0	0	-24,538	
1979	3,382	825	4,662	307	14,560	4,564	645	8,437	1,523	41,279	888	9,620	86,485	0	2,323	0	0	-27,040	
1980	**6,046**	**722**	**4,826**	**328**	**12,125**	**4,900**	**342**	**8,987**	**1,356**	**39,633**	**732**	**9,296**	**82,525**	**0**	**1,315**	**0**	**0**	**-28,011**	
1981	9,048	671	3,353	268	15,488	5,009	302	7,145	1,301	41,673	741	5,733	81,013	0	1,122	0	0	-16,914	
1982	11,781	677	3,436	155	14,512	5,911	461	8,073	1,186	43,409	676	5,193	83,013	0	2,090	0	0	-15,841	
1983	12,629	629	4,332	121	16,589	5,974	120	8,122	1,242	42,731	516	6,151	85,899	0	2,500	0	0	-15,800	
1984	13,254	653	3,093	188	17,992	7,017	117	8,619	1,324	41,908	489	5,359	86,106	0	2,339	0	0	-19,996	
1985	**13,602**	**587**	**4,003**	**217**	**18,377**	**5,870**	**174**	**10,505**	**1,234**	**42,160**	**262**	**4,955**	**87,758**	**0**	**3,980**	**0**	**0**	**-15,055**	
1986	12,395	554	3,281	250	13,948	5,942	77	7,497	1,207	40,569	472	5,212	78,455	0	2,951	0	0	-10,680	
1987	13,476	596	2,729	179	13,960	7,440	56	6,422	1,364	38,642	346	5,946	77,084	0	2,948	0	0	-14,999	
1988	15,006	589	3,564	172	14,916	7,224	80	6,103	1,316	38,857	710	7,077	80,018	0	2,045	0	0	-13,986	
1989	15,086	595	2,750	165	14,762	9,239	129	6,770	1,349	38,870	499	7,367	81,902	0	2,392	0	0	-16,358	
									Trillion Btu										
1960	**1.8**	**319.3**	**13.5**	**2.8**	**15.3**	**15.7**	**2.4**	**25.8**	**4.0**	**119.3**	**9.1**	**47.7**	**255.6**	**0.0**	**7.6**	**0.0**	**0.0**	**-12.3**	**572.0**
1961	1.5	316.1	13.8	2.4	18.3	16.8	2.2	27.2	3.9	122.2	5.3	46.6	258.7	0.0	10.7	0.0	0.0	-12.5	574.3
1962	1.1	416.4	16.9	3.4	18.8	19.4	2.2	29.8	3.6	126.7	6.1	47.3	274.2	0.0	7.7	0.0	0.0	-15.1	684.3
1963	1.7	491.0	17.9	3.4	21.7	19.9	2.9	33.3	3.6	129.4	5.1	47.9	285.1	0.0	2.0	0.0	0.0	-17.9	761.8
1964	1.0	522.8	21.3	3.6	19.4	20.5	1.9	30.3	3.7	131.5	5.2	49.7	287.2	0.0	3.2	0.0	0.0	-18.5	795.7
1965	**0.7**	**480.1**	**23.8**	**3.8**	**16.8**	**18.7**	**5.4**	**30.7**	**4.1**	**135.6**	**5.4**	**51.7**	**295.8**	**0.0**	**8.6**	**0.0**	**0.0**	**-17.0**	**768.2**
1966	0.7	449.3	21.9	3.5	20.6	20.7	5.6	32.0	4.3	141.5	4.3	51.5	305.8	0.0	5.3	0.0	0.0	-21.8	739.4
1967	0.6	460.2	21.5	2.6	22.6	24.0	5.6	31.1	3.4	145.5	5.2	50.1	311.5	0.0	7.6	0.0	0.0	-25.4	754.4
1968	0.5	507.9	21.9	2.5	30.1	27.5	6.1	32.2	3.8	153.9	5.6	52.5	336.1	0.0	15.9	0.0	0.0	-26.2	834.1
1969	0.1	558.8	22.8	2.4	28.7	25.5	5.6	35.6	3.7	161.5	4.5	53.5	343.9	0.0	19.7	0.0	0.0	-45.3	877.2
1970	**0.2**	**616.3**	**30.5**	**2.3**	**32.5**	**24.0**	**6.3**	**36.3**	**3.8**	**170.8**	**5.1**	**52.3**	**363.9**	**0.0**	**14.8**	**0.0**	**0.0**	**-63.9**	**931.2**
1971	0.2	631.2	34.7	2.1	31.9	24.0	5.0	34.6	4.6	177.1	3.9	49.4	367.2	0.0	14.5	0.0	0.0	-56.3	956.7
1972	0.2	649.9	32.1	2.0	46.3	22.7	3.8	36.5	4.9	187.8	8.9	53.0	398.1	0.0	15.0	0.0	0.0	-51.7	1,011.5
1973	4.1	625.8	33.5	2.0	52.1	22.1	3.7	36.3	6.5	196.7	9.4	54.6	416.9	0.0	39.1	0.0	0.0	-69.7	1,016.1
1974	4.2	681.1	36.5	1.9	51.5	22.0	2.8	33.9	6.2	194.3	7.6	53.7	410.5	0.0	37.5	0.0	0.0	-76.9	1,056.5
1975	**0.5**	**678.9**	**37.7**	**1.6**	**55.0**	**21.5**	**1.9**	**34.7**	**4.9**	**202.1**	**4.0**	**57.3**	**420.7**	**0.0**	**30.6**	**0.0**	**0.0**	**-72.6**	**1,058.1**
1976	1.5	770.8	31.4	1.5	69.1	21.9	1.5	35.2	5.5	212.6	4.2	56.6	439.4	0.0	16.0	0.0	0.0	-77.0	1,150.8
1977	12.4	787.7	30.8	1.7	75.5	23.0	1.4	35.0	8.2	220.1	4.9	57.0	457.7	0.0	18.3	0.0	0.0	-63.6	1,212.4
1978	43.7	788.7	29.1	1.8	84.5	26.2	1.5	37.3	8.8	229.9	6.5	57.5	483.1	0.0	18.3	0.0	0.0	-83.7	1,250.0
1979	60.4	844.3	30.9	1.6	84.8	25.1	3.7	31.0	9.2	216.8	5.6	57.7	466.5	0.0	24.0	0.0	0.0	-92.3	1,302.9
1980	**106.3**	**738.9**	**32.0**	**1.7**	**70.6**	**26.9**	**1.9**	**33.0**	**8.2**	**208.2**	**4.6**	**55.7**	**442.9**	**0.0**	**13.7**	**0.0**	**0.0**	**-95.6**	**1,206.3**
1981	157.7	694.5	22.2	1.4	90.2	27.6	1.7	26.0	7.9	218.9	4.7	35.8	436.5	0.0	11.7	0.0	0.0	-57.7	1,242.7
1982	203.8	692.3	22.8	0.8	84.5	32.8	2.6	29.2	7.2	228.0	4.3	32.2	444.4	0.0	21.8	0.0	0.0	-54.0	1,308.4
1983	219.3	655.4	28.7	0.6	96.6	33.1	0.7	29.4	7.5	224.5	3.2	37.6	462.0	0.0	26.3	0.0	0.0	-53.9	1,309.0
1984	230.9	669.3	20.5	1.0	104.8	39.0	0.7	31.0	8.0	220.1	3.1	32.6	460.8	0.0	24.1	0.0	0.0	-68.2	1,316.9
1985	**237.2**	**603.9**	**26.6**	**1.1**	**107.0**	**32.5**	**1.0**	**37.9**	**7.5**	**221.5**	**1.6**	**30.7**	**467.3**	**0.0**	**41.1**	**0.0**	**0.0**	**-51.4**	**1,298.1**
1986	217.9	570.7	21.8	1.3	81.2	32.9	0.4	27.3	7.3	213.1	3.0	32.4	420.7	0.0	30.3	0.0	0.0	-36.4	1,203.3
1987	240.7	617.6	18.1	0.9	81.3	41.4	0.3	23.5	8.3	203.0	2.2	36.2	415.2	0.0	30.2	0.0	0.0	-51.2	1,252.5
1988	269.4	611.2	23.7	0.9	86.9	40.2	0.5	22.3	8.0	204.1	4.5	42.7	433.6	0.0	20.9	0.0	0.0	-47.7	1,287.4
1989	268.7	611.9	18.3	0.8	86.0	51.7	0.7	24.9	8.2	204.2	3.1	44.1	442.0	0.0	24.7	0.0	0.0	-55.8	1,291.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 232. Residential Energy Consumption Estimates, 1960-1989, Oklahoma

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**18**	**0**	**18**	**60**	**2**	**18**	**3,938**	**3,959**	**2,372**	**5,900**		
1961	12	0	12	63	3	17	4,059	4,080	2,472	6,024		
1962	12	0	12	63	3	16	4,609	4,628	2,942	7,074		
1963	9	0	9	63	3	29	5,031	5,063	3,462	8,280		
1964	7	0	7	67	2	20	4,618	4,640	3,761	8,957		
1965	**6**	**0**	**6**	**65**	**2**	**78**	**4,642**	**4,722**	**4,086**	**9,756**		
1966	7	0	7	67	3	79	4,711	4,792	4,441	10,657		
1967	6	0	6	67	3	28	4,925	4,956	4,563	10,900		
1968	3	0	3	75	4	39	5,100	5,142	5,360	12,788		
1969	2	0	2	75	4	43	5,538	5,584	6,397	15,281		
1970	**2**	**0**	**2**	**77**	**3**	**52**	**5,802**	**5,856**	**7,293**	**17,674**		
1971	1	0	1	75	5	41	5,567	5,613	7,776	18,800		
1972	1	0	1	78	10	39	5,861	5,910	9,161	22,050		
1973	1	0	1	74	12	41	5,637	5,690	9,659	23,124		
1974	1	0	1	73	12	32	5,287	5,332	10,188	24,841		
1975	**1**	**0**	**1**	**80**	**12**	**24**	**5,628**	**5,663**	**9,222**	**22,245**		
1976	1	0	1	82	16	13	5,742	5,770	9,303	22,408		
1977	2	0	2	87	14	14	5,657	5,685	10,304	24,882		
1978	1	0	1	84	17	18	5,663	5,698	11,053	27,041		
1979	5	0	5	85	6	6	1,887	1,899	10,635	25,666		
1980	**11**	**0**	**11**	**77**	**15**	**21**	**1,759**	**1,795**	**12,309**	**29,931**		
1981	1	0	1	70	96	15	1,888	1,999	13,351	31,819		
1982	6	0	6	80	1	14	2,177	2,192	14,138	33,957		
1983	1	0	1	79	75	13	2,590	2,678	14,644	35,085		
1984	2	0	2	81	81	25	2,546	2,652	14,259	33,111		
1985	**1**	**0**	**1**	**76**	**82**	**46**	**3,326**	**3,454**	**14,400**	**33,767**		
1986	1	0	1	67	30	9	2,345	2,384	13,903	31,877		
1987	1	0	1	64	10	19	1,921	1,950	14,085	32,100		
1988	3	0	3	72	28	22	2,102	2,152	14,475	32,688		
1989	*	0	*	72	*	21	2,206	2,228	14,083	31,588		
										Net Energy[4]		Total[4]
					Trillion Btu							
1960	**0.4**	**0.0**	**0.4**	**61.9**	*****	**0.1**	**15.8**	**15.9**	**8.1**	**86.3**	**20.1**	**106.4**
1961	0.3	0.0	0.3	65.1	*	0.1	16.3	16.4	8.4	90.2	20.6	110.8
1962	0.3	0.0	0.3	65.2	*	0.1	18.5	18.6	10.0	94.1	24.1	118.2
1963	0.2	0.0	0.2	64.3	*	0.2	20.2	20.4	11.8	96.6	28.2	124.9
1964	0.2	0.0	0.2	69.2	*	0.1	18.5	18.6	12.8	100.8	30.6	131.4
1965	**0.1**	**0.0**	**0.1**	**66.5**	*****	**0.4**	**18.6**	**19.1**	**13.9**	**99.7**	**33.3**	**133.0**
1966	0.2	0.0	0.2	68.7	*	0.4	18.9	19.4	15.2	103.4	36.4	139.8
1967	0.1	0.0	0.1	69.0	*	0.2	18.9	19.1	15.6	103.8	37.2	141.0
1968	0.1	0.0	0.1	76.5	*	0.2	19.5	19.7	18.3	114.6	43.6	158.2
1969	*	0.0	*	77.0	*	0.2	21.1	21.3	21.8	120.2	52.1	172.4
1970	*****	**0.0**	*****	**79.9**	*****	**0.3**	**21.9**	**22.2**	**24.9**	**127.1**	**60.3**	**187.4**
1971	*	0.0	*	77.6	*	0.2	21.0	21.3	26.5	125.5	64.1	189.6
1972	*	0.0	*	79.1	0.1	0.2	22.0	22.3	31.3	132.6	75.2	207.9
1973	*	0.0	*	74.4	0.1	0.2	21.1	21.4	33.0	128.8	78.9	207.7
1974	*	0.0	*	74.7	0.1	0.2	19.7	20.0	34.8	129.5	84.8	214.3
1975	*****	**0.0**	*****	**79.6**	**0.1**	**0.1**	**20.9**	**21.1**	**31.5**	**132.2**	**75.9**	**208.1**
1976	*	0.0	*	81.5	0.1	0.1	21.3	21.5	31.7	134.7	76.5	211.1
1977	0.1	0.0	0.1	87.9	0.1	0.1	20.8	21.0	35.2	144.1	84.9	229.0
1978	*	0.0	*	84.4	0.1	0.1	20.8	21.0	37.7	143.1	92.3	235.4
1979	0.1	0.0	0.1	85.7	*	*	6.9	7.0	36.3	129.2	87.6	216.8
1980	**0.2**	**0.0**	**0.2**	**76.8**	**0.1**	**0.1**	**6.5**	**6.7**	**42.0**	**125.7**	**102.1**	**227.8**
1981	*	0.0	*	71.6	0.6	0.1	6.9	7.5	45.6	124.7	108.6	233.3
1982	0.1	0.0	0.1	80.4	*	0.1	7.9	8.0	48.2	136.7	115.9	252.5
1983	*	0.0	*	82.1	0.4	0.1	9.4	9.9	50.0	142.0	119.7	261.7
1984	*	0.0	*	82.8	0.5	0.1	9.2	9.8	48.7	141.2	113.0	254.2
1985	*****	**0.0**	*****	**77.6**	**0.5**	**0.3**	**12.0**	**12.7**	**49.1**	**139.5**	**115.2**	**254.7**
1986	*	0.0	*	68.2	0.2	0.1	8.5	8.8	47.4	124.4	108.8	233.2
1987	*	0.0	*	66.1	0.1	0.1	7.0	7.2	48.1	121.4	109.5	230.9
1988	0.1	0.0	0.1	74.7	0.2	0.1	7.7	8.0	49.4	132.1	111.5	243.6
1989	*	0.0	*	73.3	*	0.1	8.1	8.2	48.0	129.6	107.8	237.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 233. Commercial Energy Consumption Estimates, 1960-1989, Oklahoma

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**33**	**0**	**33**	**29**	**72**	**83**	**695**	**177**	**395**	**1,422**	**1,904**	**4,737**		
1961	21	0	21	24	120	75	716	185	99	1,196	1,983	4,834		
1962	23	0	23	24	98	72	813	193	108	1,284	2,270	5,458		
1963	17	0	17	27	91	132	888	196	94	1,401	2,518	6,021		
1964	13	0	13	29	62	92	815	198	146	1,312	2,697	6,423		
1965	**12**	**0**	**12**	**27**	**68**	**353**	**819**	**204**	**233**	**1,677**	**2,945**	**7,032**		
1966	14	0	14	28	90	354	831	209	170	1,655	3,175	7,618		
1967	10	0	10	38	100	125	869	208	159	1,461	3,353	8,012		
1968	6	0	6	43	122	173	900	209	165	1,569	3,690	8,803		
1969	3	0	3	41	120	194	977	222	173	1,686	4,084	9,755		
1970	**4**	**0**	**4**	**44**	**95**	**233**	**1,024**	**229**	**190**	**1,771**	**4,415**	**10,699**		
1971	2	0	2	42	166	183	982	235	207	1,773	4,741	11,462		
1972	2	0	2	44	360	174	1,034	241	370	2,180	5,351	12,879		
1973	2	0	2	40	414	182	995	250	498	2,339	5,624	13,464		
1974	3	0	3	41	414	146	933	251	385	2,129	5,806	14,156		
1975	**2**	**0**	**2**	**42**	**406**	**106**	**993**	**264**	**196**	**1,965**	**6,810**	**16,427**		
1976	2	0	2	45	547	56	1,013	276	202	2,094	7,122	17,156		
1977	5	0	5	48	489	63	998	282	158	1,990	7,766	18,754		
1978	3	0	3	46	594	80	999	290	120	2,084	8,174	19,998		
1979	10	0	10	52	209	27	333	295	227	1,092	8,335	20,115		
1980	**20**	**0**	**20**	**47**	**315**	**15**	**310**	**301**	**30**	**972**	**9,005**	**21,897**		
1981	3	0	3	41	524	38	333	315	0	1,210	10,624	25,321		
1982	10	0	10	46	157	242	384	321	0	1,103	11,372	27,314		
1983	1	0	1	44	597	13	457	411	0	1,478	11,768	28,193		
1984	4	0	4	44	645	15	449	599	0	1,709	11,228	26,073		
1985	**2**	**0**	**2**	**41**	**705**	**30**	**587**	**338**	**0**	**1,660**	**11,706**	**27,450**		
1986	3	0	3	37	282	6	414	346	0	1,047	11,650	26,710		
1987	1	0	1	32	408	5	339	358	17	1,126	11,594	26,423		
1988	5	0	5	48	624	38	371	341	6	1,381	12,132	27,398		
1989	*	0	*	38	638	95	389	312	58	1,493	11,885	26,660		
	Trillion Btu													
1960	**0.8**	**0.0**	**0.8**	**29.8**	**0.4**	**0.5**	**2.8**	**0.9**	**2.5**	**7.1**	**6.5**	**44.2**	**16.2**	**60.3**
1961	0.5	0.0	0.5	24.4	0.7	0.4	2.9	1.0	0.6	5.6	6.8	37.3	16.5	53.8
1962	0.5	0.0	0.5	24.7	0.6	0.4	3.3	1.0	0.7	5.9	7.7	38.9	18.6	57.6
1963	0.4	0.0	0.4	27.4	0.5	0.8	3.6	1.0	0.6	6.5	8.6	42.8	20.5	63.4
1964	0.3	0.0	0.3	30.0	0.4	0.5	3.3	1.0	0.9	6.1	9.2	45.6	21.9	67.5
1965	**0.3**	**0.0**	**0.3**	**27.9**	**0.4**	**2.0**	**3.3**	**1.1**	**1.5**	**8.2**	**10.0**	**46.5**	**24.0**	**70.5**
1966	0.3	0.0	0.3	28.9	0.5	2.0	3.3	1.1	1.1	8.0	10.8	48.1	26.0	74.1
1967	0.2	0.0	0.2	39.4	0.6	0.7	3.3	1.1	1.0	6.7	11.4	57.8	27.3	85.1
1968	0.1	0.0	0.1	43.7	0.7	1.0	3.4	1.1	1.0	7.3	12.6	63.7	30.0	93.8
1969	0.1	0.0	0.1	42.1	0.7	1.1	3.7	1.2	1.1	7.8	13.9	63.9	33.3	97.2
1970	**0.1**	**0.0**	**0.1**	**45.3**	**0.6**	**1.3**	**3.9**	**1.2**	**1.2**	**8.1**	**15.1**	**68.6**	**36.5**	**105.1**
1971	*	0.0	*	43.3	1.0	1.0	3.7	1.2	1.3	8.2	16.2	67.8	39.1	106.9
1972	*	0.0	*	44.7	2.1	1.0	3.9	1.3	2.3	10.6	18.3	73.5	43.9	117.5
1973	*	0.0	*	40.8	2.4	1.0	3.7	1.3	3.1	11.6	19.2	71.6	45.9	117.6
1974	0.1	0.0	0.1	42.1	2.4	0.8	3.5	1.3	2.4	10.5	19.8	72.4	48.3	120.7
1975	*****	**0.0**	*****	**41.6**	**2.4**	**0.6**	**3.7**	**1.4**	**1.2**	**9.3**	**23.2**	**74.2**	**56.0**	**130.2**
1976	*	0.0	*	44.5	3.2	0.3	3.8	1.4	1.3	10.0	24.3	78.9	58.5	137.4
1977	0.1	0.0	0.1	48.8	2.9	0.4	3.7	1.5	1.0	9.4	26.5	84.8	64.0	148.8
1978	0.1	0.0	0.1	45.9	3.5	0.5	3.7	1.5	0.8	9.9	27.9	83.7	68.2	152.0
1979	0.2	0.0	0.2	52.3	1.2	0.2	1.2	1.5	1.4	5.6	28.4	86.6	68.6	155.2
1980	**0.5**	**0.0**	**0.5**	**47.2**	**1.8**	**0.1**	**1.1**	**1.6**	**0.2**	**4.8**	**30.7**	**83.2**	**74.7**	**158.0**
1981	0.1	0.0	0.1	41.9	3.1	0.2	1.2	1.7	0.0	6.1	36.3	84.3	86.4	170.7
1982	0.2	0.0	0.2	46.1	0.9	1.4	1.4	1.7	0.0	5.4	38.8	90.5	93.2	183.7
1983	*	0.0	*	45.8	3.5	0.1	1.7	2.2	0.0	7.4	40.2	93.3	96.2	189.5
1984	0.1	0.0	0.1	45.2	3.8	0.1	1.6	3.1	0.0	8.6	38.3	92.2	89.0	181.1
1985	*****	**0.0**	*****	**41.6**	**4.1**	**0.2**	**2.1**	**1.8**	**0.0**	**8.2**	**39.9**	**89.7**	**93.7**	**183.4**
1986	0.1	0.0	0.1	37.4	1.6	*	1.5	1.8	0.0	5.0	39.7	82.1	91.1	173.3
1987	*	0.0	*	33.4	2.4	*	1.2	1.9	0.1	5.6	39.6	78.7	90.2	168.8
1988	0.1	0.0	0.1	49.7	3.6	0.2	1.4	1.8	*	7.0	41.4	98.2	93.5	191.7
1989	*	0.0	*	39.3	3.7	0.5	1.4	1.6	0.4	7.7	40.6	87.6	91.0	178.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 234. Industrial Energy Consumption Estimates, 1960–1989, Oklahoma

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours			
1960	**25**	**0**	**25**	**128**	**2,034**	**1,193**	**330**	**1,511**	**176**	**1,383**	**1,017**	**7,938**	**15,581**	**0**	**2,561**	**6,371**		
1961	18	0	18	126	2,072	1,671	295	1,635	171	1,287	663	7,755	15,549	0	2,763	6,733		
1962	10	0	10	210	2,553	1,593	298	1,632	151	1,137	653	7,870	15,886	*	2,899	6,969		
1963	10	0	10	264	2,700	1,423	354	1,909	151	996	432	7,977	15,941	*	3,101	7,417		
1964	14	0	14	281	3,214	906	217	1,747	159	862	415	8,289	15,809	*	3,302	7,865		
1965	**11**	**0**	**11**	**236**	**3,586**	**1,203**	**514**	**1,704**	**152**	**812**	**346**	**8,617**	**16,934**	**0**	**3,563**	**8,507**		
1966	9	0	9	183	3,302	1,620	555	1,830	158	703	249	8,597	17,014	0	3,983	9,558		
1967	8	0	8	175	3,239	1,754	832	1,695	182	658	539	8,354	17,253	0	4,224	10,091		
1968	8	0	8	203	3,304	2,154	871	1,836	200	622	598	8,761	18,346	0	4,441	10,597		
1969	0	0	0	220	3,433	1,944	759	2,310	163	579	426	8,926	18,539	0	4,688	11,198		
1970	**0**	**0**	**0**	**218**	**4,598**	**2,084**	**819**	**2,277**	**166**	**515**	**477**	**8,730**	**19,667**	**0**	**4,888**	**11,845**		
1971	3	0	3	228	5,227	2,488	663	2,047	319	479	354	8,231	19,808	0	5,243	12,676		
1972	3	0	3	223	4,842	3,801	466	2,258	341	449	652	8,845	21,654	0	5,962	14,352		
1973	170	0	170	201	5,049	4,382	433	2,528	526	485	891	9,107	23,401	0	6,430	15,392		
1974	177	0	177	228	5,506	4,102	316	2,396	503	437	642	8,956	22,858	0	6,840	16,678		
1975	**20**	**0**	**20**	**223**	**5,675**	**4,166**	**198**	**2,248**	**274**	**437**	**374**	**9,555**	**22,928**	**0**	**7,233**	**17,447**		
1976	69	0	69	275	4,728	5,569	194	2,234	304	369	428	9,441	23,268	0	8,034	19,353		
1977	231	0	231	271	4,646	6,180	165	2,253	579	344	489	9,512	24,168	0	8,743	21,111		
1978	384	0	384	274	4,385	7,072	158	2,835	621	306	771	9,591	25,740	0	9,316	22,792		
1979	391	0	391	328	4,662	6,136	612	6,051	650	404	601	9,620	28,737	0	9,835	23,735		
1980	**264**	**0**	**264**	**246**	**4,826**	**3,705**	**306**	**6,683**	**579**	**359**	**702**	**9,296**	**26,455**	**0**	**9,795**	**23,818**		
1981	675	1	676	253	3,353	5,052	249	4,592	555	346	738	5,733	20,618	0	10,383	24,745		
1982	668	1	669	276	3,436	4,632	205	5,093	506	325	675	5,193	20,066	0	10,284	24,700		
1983	583	2	585	244	4,332	5,873	95	4,579	530	266	515	6,151	22,360	0	10,557	25,292		
1984	707	0	707	275	3,093	6,343	77	5,459	565	747	474	5,359	22,117	0	10,343	24,017		
1985	**852**	**0**	**852**	**245**	**4,003**	**6,949**	**97**	**6,419**	**527**	**976**	**254**	**4,955**	**24,181**	**0**	**10,576**	**24,801**		
1986	763	0	763	233	3,281	3,480	63	4,612	515	907	465	5,212	18,535	0	10,206	23,401		
1987	613	0	613	288	2,729	2,930	32	4,063	583	819	328	5,946	17,429	0	10,417	23,742		
1988	563	0	563	264	3,564	3,163	19	3,507	562	793	700	7,077	19,384	0	10,719	24,207		
1989	663	0	663	270	2,750	2,778	13	4,070	576	907	432	7,367	18,894	0	11,039	24,762		
																	Net Energy[4]	Total[4]
					Trillion Btu													
1960	**0.6**	**0.0**	**0.6**	**132.5**	**13.5**	**7.0**	**1.9**	**6.1**	**1.1**	**7.3**	**6.4**	**47.7**	**90.8**	**0.0**	**8.7**	**232.7**	**21.7**	**254.4**
1961	0.5	0.0	0.5	130.1	13.8	9.7	1.7	6.6	1.0	6.8	4.2	46.6	90.3	0.0	9.4	230.3	23.0	253.3
1962	0.3	0.0	0.3	217.0	16.9	9.3	1.7	6.5	0.9	6.0	4.1	47.3	92.7	*	9.9	319.8	23.8	343.6
1963	0.2	0.0	0.2	270.8	17.9	8.3	2.0	7.7	0.9	5.2	2.7	47.9	92.6	*	10.6	374.2	25.3	399.5
1964	0.3	0.0	0.3	288.2	21.3	5.3	1.2	7.0	1.0	4.5	2.6	49.7	92.7	*	11.3	392.4	26.8	419.3
1965	**0.3**	**0.0**	**0.3**	**242.2**	**23.8**	**7.0**	**2.9**	**6.8**	**0.9**	**4.3**	**2.2**	**51.7**	**99.6**	**0.0**	**12.2**	**354.2**	**29.0**	**383.2**
1966	0.2	0.0	0.2	187.7	21.9	9.4	3.1	7.3	1.0	3.7	1.6	51.5	99.6	0.0	13.6	301.1	32.6	333.7
1967	0.2	0.0	0.2	179.3	21.5	10.2	4.7	6.5	1.1	3.5	3.4	50.1	101.0	0.0	14.4	294.9	34.4	329.3
1968	0.2	0.0	0.2	207.7	21.9	12.5	4.9	7.0	1.2	3.3	3.8	52.5	107.2	0.0	15.2	330.2	36.2	366.4
1969	0.0	0.0	0.0	224.6	22.8	11.3	4.3	8.8	1.0	3.0	2.7	53.5	107.4	0.0	16.0	348.0	38.2	386.2
1970	**0.0**	**0.0**	**0.0**	**225.3**	**30.5**	**12.1**	**4.6**	**8.6**	**1.0**	**2.7**	**3.0**	**52.3**	**114.9**	**0.0**	**16.7**	**356.9**	**40.4**	**397.3**
1971	0.1	0.0	0.1	235.0	34.7	14.5	3.8	7.7	1.9	2.5	2.2	49.4	116.7	0.0	17.9	369.7	43.2	412.9
1972	0.1	0.0	0.1	227.4	32.1	22.1	2.6	8.5	2.1	2.4	4.1	53.0	127.0	0.0	20.3	374.8	49.0	423.7
1973	4.0	0.0	4.0	203.0	33.5	25.5	2.5	9.5	3.2	2.5	5.6	54.6	136.9	0.0	21.9	365.8	52.5	418.3
1974	4.1	0.0	4.1	233.7	36.5	23.9	1.8	8.9	3.1	2.3	4.0	53.7	134.2	0.0	23.3	395.4	56.9	452.3
1975	**0.5**	**0.0**	**0.5**	**221.7**	**37.7**	**24.3**	**1.1**	**8.4**	**1.7**	**2.3**	**2.4**	**57.3**	**135.0**	**0.0**	**24.7**	**381.8**	**59.5**	**441.4**
1976	1.5	0.0	1.5	272.9	31.4	32.4	1.1	8.3	1.8	1.9	2.7	56.6	136.3	0.0	27.4	438.1	66.0	504.2
1977	4.9	0.0	4.9	274.1	30.8	36.0	0.9	8.3	3.5	1.8	3.1	57.0	141.5	0.0	29.8	450.3	72.0	522.3
1978	8.2	0.0	8.2	274.9	29.1	41.2	0.9	10.4	3.8	1.6	4.8	57.5	149.3	0.0	31.8	464.2	77.8	541.9
1979	8.2	0.0	8.2	329.5	30.9	35.7	3.5	22.3	3.9	2.1	3.8	57.7	159.9	0.0	33.6	531.2	81.0	612.2
1980	**5.6**	**0.0**	**5.6**	**246.4**	**32.0**	**21.6**	**1.7**	**24.6**	**3.5**	**1.9**	**4.4**	**55.7**	**145.4**	**0.0**	**33.4**	**430.8**	**81.3**	**512.1**
1981	14.4	*	14.4	259.3	22.2	29.4	1.4	16.7	3.4	1.8	4.6	35.8	115.5	0.0	35.4	424.6	84.4	509.0
1982	14.1	*	14.2	278.7	22.8	27.0	1.2	18.4	3.1	1.7	4.2	32.2	110.6	0.0	35.1	438.6	84.3	522.9
1983	12.6	*	12.6	252.9	28.7	34.2	0.5	16.5	3.2	1.5	3.2	37.6	125.6	0.0	36.0	427.2	86.3	513.5
1984	15.0	0.0	15.0	279.3	20.5	36.9	0.4	19.6	3.4	3.9	3.0	32.6	120.5	0.0	35.3	450.1	81.9	532.0
1985	**18.3**	**0.0**	**18.3**	**249.3**	**26.6**	**40.5**	**0.6**	**23.1**	**3.2**	**5.1**	**1.6**	**30.7**	**131.3**	**0.0**	**36.1**	**435.0**	**84.6**	**519.6**
1986	16.4	0.0	16.4	237.9	21.8	20.3	0.4	16.8	3.1	4.8	2.9	32.4	102.4	0.0	34.8	391.5	79.8	471.3
1987	12.9	0.0	12.9	296.8	18.1	17.1	0.2	14.9	3.5	4.3	2.1	36.2	96.3	0.0	35.5	441.6	81.0	522.6
1988	12.0	0.0	12.0	273.9	23.7	18.4	0.1	12.8	3.4	4.2	4.4	42.7	109.7	0.0	36.6	432.1	82.6	514.7
1989	14.1	0.0	14.1	276.2	18.3	16.2	0.1	15.0	3.5	4.8	2.7	44.1	104.6	0.0	37.7	432.6	84.5	517.1

[1] *Includes supplemental gaseous fuels.*

[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.

[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 235. Transportation Energy Consumption Estimates, 1960-1989, Oklahoma

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	*	9	562	1,325	2,920	290	485	21,148	8	26,737	0	0		
1961	*	10	483	1,334	3,119	365	472	21,799	51	27,621	0	0		
1962	*	8	668	1,511	3,591	387	437	22,794	178	29,566	0	0		
1963	*	9	683	2,150	3,694	476	436	23,441	215	31,096	0	0		
1964	*	8	717	2,315	3,799	384	458	23,976	221	31,871	0	0		
1965	*	13	745	1,582	3,453	489	527	24,799	244	31,839	0	0		
1966	*	13	684	1,797	3,809	607	547	26,019	236	33,699	0	0		
1967	*	14	509	2,012	4,405	606	381	26,839	99	34,852	0	0		
1968	*	14	493	2,856	5,048	594	418	28,466	88	37,965	0	0		
1969	0	14	484	2,835	4,668	543	448	29,935	94	39,007	0	0		
1970	0	23	448	3,351	4,378	516	457	31,776	75	41,000	0	0		
1971	*	26	421	2,773	4,378	570	433	32,997	34	41,606	0	0		
1972	*	25	398	3,719	4,143	553	464	35,064	294	44,635	0	0		
1973	*	26	387	4,094	4,017	517	549	36,701	37	46,302	0	0		
1974	*	24	368	4,281	4,001	471	526	36,309	15	45,970	0	0		
1975	*	24	309	4,809	3,916	474	537	37,768	42	47,854	0	0		
1976	*	27	300	5,673	3,967	500	596	39,833	0	50,869	0	0		
1977	*	27	331	6,210	4,183	600	777	41,277	0	53,377	0	0		
1978	0	19	351	6,745	4,750	681	834	43,166	0	56,527	0	0		
1979	0	25	307	8,149	4,564	165	873	40,580	0	54,638	0	0		
1980	0	23	328	8,030	4,900	235	777	38,974	0	53,244	0	0		
1981	0	22	268	9,779	5,009	332	745	41,012	0	57,146	0	0		
1982	0	29	155	9,666	5,911	419	680	42,763	0	59,594	0	0		
1983	0	25	121	9,994	5,974	497	712	42,034	0	59,331	0	0		
1984	0	28	188	10,865	7,017	165	759	40,562	0	59,556	0	0		
1985	0	25	217	10,562	5,870	173	707	40,845	0	58,375	0	0		
1986	0	21	250	10,041	5,942	126	692	39,316	0	56,368	0	0		
1987	0	24	179	10,545	7,440	100	782	37,465	0	56,510	0	0		
1988	0	28	172	11,045	7,224	123	754	37,723	0	57,041	0	0		
1989	0	36	165	11,293	9,239	104	773	37,650	0	59,225	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	*	9.3	2.8	7.7	15.7	1.2	2.9	111.1	0.1	141.4	0.0	150.8	0.0	150.8
1961	*	10.4	2.4	7.8	16.8	1.5	2.9	114.5	0.3	146.1	0.0	156.5	0.0	156.5
1962	*	8.3	3.4	8.8	19.4	1.6	2.6	119.7	1.1	156.6	0.0	164.9	0.0	164.9
1963	*	9.1	3.4	12.5	19.9	1.9	2.6	123.1	1.4	164.9	0.0	174.1	0.0	174.1
1964	*	8.3	3.6	13.5	20.5	1.5	2.8	125.9	1.4	169.3	0.0	177.6	0.0	177.6
1965	*	12.9	3.8	9.2	18.7	2.0	3.2	130.3	1.5	168.7	0.0	181.5	0.0	181.5
1966	*	13.3	3.5	10.5	20.7	2.4	3.3	136.7	1.5	178.5	0.0	191.9	0.0	191.9
1967	*	14.5	2.6	11.7	24.0	2.3	2.3	141.0	0.6	184.5	0.0	199.1	0.0	199.1
1968	*	14.2	2.5	16.6	27.5	2.3	2.5	149.5	0.6	201.5	0.0	215.7	0.0	215.7
1969	0.0	14.4	2.4	16.5	25.5	2.1	2.7	157.2	0.6	207.1	0.0	221.5	0.0	221.5
1970	0.0	23.5	2.3	19.5	24.0	1.9	2.8	166.9	0.5	217.9	0.0	241.4	0.0	241.4
1971	*	26.7	2.1	16.2	24.0	2.2	2.6	173.3	0.2	220.6	0.0	247.3	0.0	247.3
1972	*	25.1	2.0	21.7	22.7	2.1	2.8	184.2	1.8	237.3	0.0	262.4	0.0	262.4
1973	*	26.3	2.0	23.8	22.1	1.9	3.3	192.8	0.2	246.2	0.0	272.5	0.0	272.5
1974	*	24.7	1.9	24.9	22.0	1.8	3.2	190.7	0.1	244.5	0.0	269.2	0.0	269.2
1975	*	23.6	1.6	28.0	21.5	1.8	3.3	198.4	0.3	254.8	0.0	278.4	0.0	278.4
1976	*	26.9	1.5	33.0	21.9	1.9	3.6	209.2	0.0	271.1	0.0	298.0	0.0	298.0
1977	*	27.8	1.7	36.2	23.0	2.2	4.7	216.8	0.0	284.6	0.0	312.4	0.0	312.4
1978	0.0	19.2	1.8	39.3	26.2	2.5	5.1	226.8	0.0	301.6	0.0	320.7	0.0	320.7
1979	0.0	25.5	1.6	47.5	25.1	0.6	5.3	213.2	0.0	293.2	0.0	318.8	0.0	318.8
1980	0.0	22.8	1.7	46.8	26.9	0.9	4.7	204.7	0.0	285.6	0.0	308.4	0.0	308.4
1981	0.0	22.5	1.4	57.0	27.6	1.2	4.5	215.4	0.0	307.1	0.0	329.7	0.0	329.7
1982	0.0	29.1	0.8	56.3	32.8	1.5	4.1	224.6	0.0	320.1	0.0	349.3	0.0	349.3
1983	0.0	25.5	0.6	58.2	33.1	1.8	4.3	220.8	0.0	318.9	0.0	344.3	0.0	344.3
1984	0.0	28.0	1.0	63.3	39.0	0.6	4.6	213.1	0.0	321.5	0.0	349.5	0.0	349.5
1985	0.0	25.8	1.1	61.5	32.5	0.6	4.3	214.6	0.0	314.6	0.0	340.4	0.0	340.4
1986	0.0	21.6	1.3	58.5	32.9	0.5	4.2	206.5	0.0	303.9	0.0	325.5	0.0	325.5
1987	0.0	24.5	0.9	61.4	41.4	0.4	4.7	196.8	0.0	305.7	0.0	330.1	0.0	330.1
1988	0.0	28.8	0.9	64.3	40.2	0.5	4.6	198.2	0.0	308.6	0.0	337.4	0.0	337.4
1989	0.0	37.3	0.8	65.8	51.7	0.4	4.7	197.8	0.0	321.1	0.0	358.4	0.0	358.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 236. Estimates of Energy Input at Electric Utilities, 1960-1989, Oklahoma

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	*	0	*	83	33	26	0	59	0	705	0	0	
1961	10	0	10	83	27	21	0	48	0	1,002	0	0	
1962	*	0	*	98	35	28	0	64	0	731	0	0	
1963	32	0	32	116	64	51	0	114	0	190	0	0	
1964	9	0	9	124	49	39	0	87	0	306	0	0	
1965	1	0	1	127	28	22	0	50	0	825	0	0	
1966	*	0	*	147	27	22	0	49	0	512	0	0	
1967	*	0	*	154	24	19	0	44	0	726	0	0	
1968	2	0	2	162	34	28	0	62	0	1,526	0	0	
1969	1	0	1	196	27	22	0	49	0	1,886	0	0	
1970	1	0	1	235	64	51	0	116	0	1,406	0	0	
1971	1	0	1	241	23	45	0	68	0	1,383	0	0	
1972	1	0	1	260	102	53	0	155	0	1,447	0	0	
1973	2	0	2	270	73	49	0	123	0	3,761	0	0	
1974	1	0	1	294	174	40	0	214	0	3,590	0	0	
1975	*	0	*	301	29	55	0	85	0	2,945	0	0	
1976	0	0	0	331	42	51	0	93	0	1,541	0	0	
1977	438	0	438	334	134	72	0	206	0	1,749	0	0	
1978	2,075	0	2,075	348	137	84	0	221	0	1,763	0	0	
1979	2,975	0	2,975	334	59	60	0	119	0	2,323	0	0	
1980	5,752	0	5,752	330	*	59	0	59	0	1,315	0	0	
1981	8,368	0	8,368	286	4	37	0	41	0	1,122	0	0	
1982	11,096	0	11,096	247	2	56	0	58	0	2,090	0	0	
1983	12,042	0	12,042	237	2	50	0	51	0	2,500	0	0	
1984	12,541	0	12,541	225	15	58	0	73	0	2,339	0	0	
1985	12,747	0	12,747	201	9	79	0	87	0	3,980	0	0	
1986	11,628	0	11,628	197	7	116	0	123	0	2,951	0	0	
1987	12,861	0	12,861	188	1	67	0	68	0	2,948	0	0	
1988	14,435	0	14,435	177	4	56	0	60	0	2,045	0	0	
1989	14,423	0	14,423	178	10	52	0	62	0	2,392	0	0	
					Trillion Btu								
1960	*	0.0	*	85.7	0.2	0.2	0.0	0.4	0.0	7.6	0.0	0.0	93.7
1961	0.2	0.0	0.2	86.0	0.2	0.1	0.0	0.3	0.0	10.7	0.0	0.0	97.2
1962	*	0.0	*	101.2	0.2	0.2	0.0	0.4	0.0	7.7	0.0	0.0	109.3
1963	0.8	0.0	0.8	119.5	0.4	0.3	0.0	0.7	0.0	2.0	0.0	0.0	123.0
1964	0.2	0.0	0.2	127.2	0.3	0.2	0.0	0.5	0.0	3.2	0.0	0.0	131.1
1965	*	0.0	*	130.5	0.2	0.1	0.0	0.3	0.0	8.6	0.0	0.0	139.5
1966	*	0.0	*	150.7	0.2	0.1	0.0	0.3	0.0	5.3	0.0	0.0	156.3
1967	*	0.0	*	157.9	0.2	0.1	0.0	0.3	0.0	7.6	0.0	0.0	165.8
1968	0.1	0.0	0.1	165.8	0.2	0.2	0.0	0.4	0.0	15.9	0.0	0.0	182.1
1969	*	0.0	*	200.6	0.2	0.1	0.0	0.3	0.0	19.7	0.0	0.0	220.7
1970	*	0.0	*	242.2	0.4	0.3	0.0	0.7	0.0	14.8	0.0	0.0	257.7
1971	*	0.0	*	248.5	0.1	0.3	0.0	0.4	0.0	14.5	0.0	0.0	263.4
1972	*	0.0	*	273.7	0.6	0.3	0.0	0.9	0.0	15.0	0.0	0.0	289.7
1973	0.1	0.0	0.1	281.3	0.5	0.3	0.0	0.7	0.0	39.1	0.0	0.0	321.2
1974	*	0.0	*	305.9	1.1	0.2	0.0	1.3	0.0	37.5	0.0	0.0	344.7
1975	*	0.0	*	312.3	0.2	0.3	0.0	0.5	0.0	30.6	0.0	0.0	343.5
1976	0.0	0.0	0.0	344.9	0.3	0.3	0.0	0.6	0.0	16.0	0.0	0.0	361.5
1977	7.4	0.0	7.4	349.1	0.8	0.4	0.0	1.3	0.0	18.3	0.0	0.0	376.0
1978	35.4	0.0	35.4	364.3	0.9	0.5	0.0	1.4	0.0	18.3	0.0	0.0	419.4
1979	51.8	0.0	51.8	351.2	0.4	0.4	0.0	0.7	0.0	24.0	0.0	0.0	427.7
1980	100.0	0.0	100.0	345.8	*	0.3	0.0	0.3	0.0	13.7	0.0	0.0	459.8
1981	143.2	0.0	143.2	299.1	*	0.2	0.0	0.2	0.0	11.7	0.0	0.0	454.3
1982	189.3	0.0	189.3	258.0	*	0.3	0.0	0.3	0.0	21.8	0.0	0.0	469.5
1983	206.6	0.0	206.6	249.0	*	0.3	0.0	0.3	0.0	26.3	0.0	0.0	482.2
1984	215.8	0.0	215.8	234.0	0.1	0.3	0.0	0.4	0.0	24.1	0.0	0.0	474.4
1985	218.8	0.0	218.8	209.5	0.1	0.5	0.0	0.5	0.0	41.1	0.0	0.0	470.0
1986	201.5	0.0	201.5	205.7	*	0.7	0.0	0.7	0.0	30.3	0.0	0.0	438.2
1987	227.7	0.0	227.7	196.7	*	0.4	0.0	0.4	0.0	30.2	0.0	0.0	455.0
1988	257.3	0.0	257.3	184.1	*	0.3	0.0	0.4	0.0	20.9	0.0	0.0	462.7
1989	254.6	0.0	254.6	185.7	0.1	0.3	0.0	0.4	0.0	24.7	0.0	0.0	465.3

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 237. Energy Consumption Estimates by Source, 1960-1989, Oregon

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**381**	**31**	**1,820**	**655**	**10,966**	**384**	**45**	**1,164**	**476**	**16,361**	**5,562**	**569**	**38,002**	**0**	**12,466**	**0**	**24**	**8,038**	
1961	400	34	1,983	851	11,124	619	27	615	464	16,837	4,949	1,442	38,912	0	12,493	0	23	9,883	
1962	377	38	2,012	463	11,834	765	26	804	485	17,714	4,996	1,639	40,737	0	13,313	0	29	10,325	
1963	320	43	1,938	319	12,730	593	21	859	485	18,272	4,954	1,856	42,026	0	13,636	0	31	11,305	
1964	293	54	2,344	300	13,899	625	15	940	509	18,859	5,282	1,674	44,446	0	15,005	0	3	14,360	
1965	**305**	**56**	**1,960**	**277**	**13,085**	**812**	**19**	**961**	**612**	**19,838**	**5,115**	**1,770**	**44,448**	**0**	**16,508**	**0**	**26**	**13,499**	
1966	281	65	2,233	337	13,580	950	21	844	635	20,753	5,815	1,731	46,900	0	16,719	0	46	17,347	
1967	209	70	1,826	328	12,836	1,603	21	1,020	571	21,305	5,710	1,828	47,048	0	17,861	0	-3	18,175	
1968	170	79	1,853	477	13,300	2,145	22	1,042	627	22,330	6,803	1,712	50,311	0	20,447	0	3	15,079	
1969	174	88	2,029	187	13,602	2,366	67	1,159	754	23,410	6,953	1,969	52,497	0	27,898	0	2	-1,995	
1970	**140**	**95**	**2,167**	**305**	**12,904**	**2,086**	**218**	**1,251**	**768**	**24,958**	**6,632**	**1,626**	**52,915**	**0**	**29,912**	**0**	**44**	**-4,443**	
1971	157	101	2,735	165	14,178	2,072	155	1,350	649	26,147	6,577	1,910	55,939	0	34,364	0	32	-12,298	
1972	104	110	3,141	178	15,695	2,085	117	1,214	695	27,756	7,880	2,112	60,873	0	36,477	0	60	-16,153	
1973	101	108	2,862	189	16,256	2,386	91	1,089	803	28,953	7,372	1,794	61,796	0	28,150	0	62	13,322	
1974	156	98	2,595	205	13,937	2,212	253	1,113	769	28,253	6,542	1,559	57,437	0	36,004	0	47	-5,040	
1975	**130**	**110**	**3,218**	**171**	**13,267**	**2,079**	**225**	**726**	**679**	**28,904**	**4,321**	**1,780**	**55,369**	**2**	**34,562**	**0**	*****	**8,289**	
1976	306	93	2,790	169	14,220	2,055	210	710	754	30,747	3,463	1,600	56,717	2,103	35,384	0	46	4,749	
1977	277	73	2,803	199	16,804	2,307	368	749	751	32,054	3,362	1,864	61,261	6,492	24,385	0	260	20,865	
1978	251	86	3,030	193	17,193	2,534	522	835	806	33,497	4,595	1,872	65,077	1,563	31,911	0	131	21,578	
1979	255	94	3,253	209	18,285	2,631	160	1,466	844	31,845	5,445	1,555	65,692	4,495	29,866	0	210	22,818	
1980	**715**	**79**	**2,483**	**260**	**16,764**	**2,465**	**112**	**1,354**	**751**	**30,511**	**4,511**	**1,412**	**60,623**	**5,395**	**30,222**	**0**	**160**	**17,611**	
1981	1,514	76	1,839	219	16,423	1,694	142	1,259	720	29,713	6,344	1,873	60,227	6,424	32,160	0	120	1,859	
1982	700	71	1,669	127	14,974	1,785	96	1,322	657	28,386	10,531	1,563	61,111	4,792	45,223	0	39	-38,436	
1983	578	67	2,173	125	16,035	1,777	74	1,321	688	28,309	4,244	1,115	55,862	3,685	45,077	0	*	-37,922	
1984	685	79	2,519	125	15,750	1,962	61	1,447	733	29,354	4,847	957	57,754	4,736	46,635	0	0	-32,081	
1985	**591**	**83**	**2,838**	**141**	**15,394**	**2,142**	**72**	**1,611**	**684**	**29,041**	**4,180**	**1,085**	**57,186**	**6,911**	**45,876**	**0**	**0**	**-42,627**	
1986	163	71	2,225	193	14,894	2,618	10	1,712	668	29,947	5,707	1,210	59,183	7,081	42,096	0	0	-33,466	
1987	205	80	2,140	127	16,207	2,928	5	1,529	756	30,579	4,312	1,845	60,427	4,348	40,717	0	0	-12,341	
1988	177	87	2,423	98	16,473	3,189	28	1,583	729	32,134	4,756	1,818	63,232	6,339	36,309	0	99	-998	
1989	396	108	2,802	102	16,254	3,377	81	1,605	747	31,874	4,742	1,743	63,329	5,299	39,975	0	28	-8,301	
										Trillion Btu									
1960	**8.9**	**31.9**	**12.1**	**3.3**	**63.9**	**2.1**	**0.3**	**4.7**	**2.9**	**85.9**	**35.0**	**3.3**	**213.4**	**0.0**	**134.1**	**0.0**	**0.3**	**27.4**	**416.1**
1961	9.4	35.0	13.2	4.3	64.8	3.4	0.2	2.5	2.8	88.4	31.1	8.6	219.3	0.0	133.0	0.0	0.2	33.7	430.7
1962	8.8	39.2	13.3	2.3	68.9	4.3	0.1	3.2	2.9	93.1	31.4	9.8	229.4	0.0	140.6	0.0	0.3	35.2	453.5
1963	7.5	46.7	12.9	1.6	74.2	3.3	0.1	3.4	2.9	96.0	31.1	11.1	236.6	0.0	142.9	0.0	0.3	38.6	472.6
1964	6.8	58.0	15.6	1.5	81.0	3.5	0.1	3.8	3.1	99.1	33.2	9.9	250.6	0.0	157.0	0.0	*	49.0	521.4
1965	**7.1**	**60.0**	**13.0**	**1.4**	**76.2**	**4.5**	**0.1**	**3.9**	**3.7**	**104.2**	**32.2**	**10.4**	**249.6**	**0.0**	**172.6**	**0.0**	**0.3**	**46.1**	**535.6**
1966	6.5	69.3	14.8	1.7	79.1	5.3	0.1	3.4	3.9	109.0	36.6	10.2	264.1	0.0	174.1	0.0	0.5	59.2	573.7
1967	4.8	74.0	12.1	1.7	74.8	9.0	0.1	3.9	3.5	111.9	35.9	10.8	263.7	0.0	186.3	0.0	*	62.0	590.8
1968	3.9	83.5	12.3	2.4	77.5	12.1	0.1	4.0	3.8	117.3	42.8	10.1	282.3	0.0	212.6	0.0	*	51.5	633.8
1969	4.0	92.6	13.5	0.9	79.2	13.3	0.4	4.4	4.6	123.0	43.7	11.6	294.6	0.0	291.4	0.0	*	-6.8	675.9
1970	**3.0**	**99.6**	**14.4**	**1.5**	**75.2**	**11.8**	**1.2**	**4.7**	**4.7**	**131.1**	**41.7**	**9.5**	**295.8**	**0.0**	**313.9**	**0.0**	**0.5**	**-15.2**	**697.6**
1971	3.4	105.4	18.1	0.8	82.6	11.7	0.9	5.1	3.9	137.4	41.4	11.2	313.1	0.0	360.1	0.0	0.3	-42.0	740.3
1972	2.2	115.3	20.8	0.9	91.4	11.8	0.7	4.6	4.2	145.8	49.5	12.4	342.1	0.0	378.6	0.0	0.6	-55.1	783.8
1973	2.1	114.3	19.0	1.0	94.7	13.5	0.5	4.1	4.9	152.1	46.3	10.5	346.5	0.0	292.4	0.0	0.6	45.5	801.5
1974	3.3	102.4	17.2	1.0	81.2	12.5	1.4	4.2	4.7	148.4	41.1	9.1	320.8	0.0	376.0	0.0	0.5	-17.2	785.6
1975	**2.7**	**114.2**	**21.4**	**0.9**	**77.3**	**11.7**	**1.3**	**2.7**	**4.1**	**151.8**	**27.2**	**10.4**	**308.7**	*****	**359.6**	**0.0**	*****	**28.3**	**813.6**
1976	5.9	95.8	18.5	0.9	82.8	11.6	1.2	2.6	4.6	161.5	21.8	9.3	314.8	23.2	367.0	0.0	0.5	16.2	823.4
1977	5.2	75.6	18.6	1.0	97.9	13.0	2.1	2.8	4.6	168.4	21.1	10.9	340.4	69.9	254.5	0.0	2.7	71.2	819.4
1978	4.7	90.0	20.1	1.0	100.1	14.3	3.0	3.1	4.9	176.0	28.9	10.9	362.2	17.1	330.6	0.0	1.4	73.6	879.7
1979	4.7	97.9	21.6	1.1	106.5	14.9	0.9	5.4	5.1	167.3	34.2	9.0	366.0	48.9	309.2	0.0	2.2	77.9	906.7
1980	**12.1**	**82.3**	**16.5**	**1.3**	**97.7**	**13.9**	**0.6**	**5.0**	**4.6**	**160.3**	**28.4**	**8.2**	**336.3**	**58.8**	**314.0**	**0.0**	**1.7**	**60.1**	**865.3**
1981	25.8	78.9	12.2	1.1	95.7	9.6	0.8	4.6	4.4	156.1	39.9	11.0	335.3	70.9	336.2	0.0	1.3	6.3	854.6
1982	11.8	73.9	11.1	0.6	87.2	10.1	0.5	4.8	4.0	149.1	66.2	9.2	342.9	53.1	472.8	0.0	0.4	-131.1	823.7
1983	9.9	69.8	14.4	0.6	93.4	10.0	0.4	4.8	4.2	148.7	26.7	6.5	309.7	40.2	474.2	0.0	*	-129.4	774.4
1984	11.8	81.5	16.7	0.6	91.7	11.1	0.3	5.2	4.4	154.2	30.5	5.5	320.3	51.3	481.4	0.0	0.0	-109.5	836.9
1985	**10.0**	**85.5**	**18.8**	**0.7**	**89.7**	**12.1**	**0.4**	**5.8**	**4.1**	**152.5**	**26.3**	**6.3**	**316.8**	**74.7**	**474.3**	**0.0**	**0.0**	**-145.4**	**815.9**
1986	2.9	72.5	14.8	1.0	86.8	14.8	0.1	6.2	4.1	157.3	35.9	7.1	327.9	76.5	431.9	0.0	0.0	-114.2	797.6
1987	3.7	82.5	14.2	0.6	94.4	16.5	*	5.6	4.6	160.6	27.1	11.0	334.6	46.9	417.5	0.0	0.0	-42.1	843.0
1988	3.1	89.2	16.1	0.5	96.0	18.0	0.2	5.8	4.4	168.8	29.9	10.8	350.4	68.1	371.6	0.0	1.0	-3.4	880.0
1989	6.8	111.8	18.6	0.5	94.7	19.1	0.5	5.9	4.5	167.4	29.8	10.4	351.4	56.8	413.0	0.0	0.3	-28.3	911.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 238. Residential Energy Consumption Estimates, 1960–1989, Oregon

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**56**	**0**	**56**	**7**	**2,865**	**1**	**507**	**3,373**	**5,263**	**13,090**
1961	63	0	63	7	2,952	4	254	3,209	5,510	13,429
1962	48	0	48	8	3,117	6	363	3,485	5,941	14,284
1963	41	0	41	9	3,391	3	410	3,803	6,341	15,164
1964	40	0	40	11	3,703	5	753	4,461	7,002	16,675
1965	**45**	**0**	**45**	**11**	**3,382**	**5**	**785**	**4,172**	**7,169**	**17,118**
1966	42	0	42	13	3,332	7	667	4,006	7,595	18,224
1967	29	0	29	13	3,115	5	805	3,925	8,020	19,160
1968	21	0	21	15	3,235	8	808	4,050	8,591	20,497
1969	21	0	21	21	3,295	30	873	4,197	9,479	22,642
1970	**11**	**0**	**11**	**20**	**3,101**	**65**	**867**	**4,033**	**9,850**	**23,871**
1971	15	0	15	21	3,254	33	945	4,232	10,835	26,195
1972	10	0	10	23	3,321	19	808	4,148	11,303	27,207
1973	6	0	6	22	3,057	8	714	3,779	11,694	27,996
1974	4	0	4	22	2,594	48	637	3,279	11,809	28,794
1975	**5**	**0**	**5**	**29**	**2,390**	**48**	**362**	**2,800**	**12,096**	**29,178**
1976	8	0	8	21	2,659	40	355	3,054	12,152	29,271
1977	7	0	7	10	3,115	69	375	3,559	12,377	29,887
1978	7	0	7	18	2,880	143	361	3,384	12,779	31,264
1979	7	0	7	19	2,703	63	608	3,374	13,749	33,181
1980	**6**	**0**	**6**	**18**	**2,019**	**37**	**574**	**2,630**	**13,545**	**32,937**
1981	1	0	1	17	2,535	71	629	3,235	13,182	31,416
1982	2	0	2	19	2,111	60	611	2,782	13,825	33,206
1983	1	0	1	17	1,845	28	722	2,595	13,116	31,423
1984	2	0	2	19	2,086	26	493	2,605	14,050	32,625
1985	**1**	**0**	**1**	**21**	**2,374**	**43**	**577**	**2,994**	**14,526**	**34,064**
1986	*	0	*	19	2,045	7	550	2,601	13,722	31,461
1987	1	0	1	19	1,747	3	470	2,220	13,711	31,247
1988	2	0	2	21	1,843	13	336	2,191	14,338	32,381
1989	2	0	2	23	1,889	63	357	2,309	15,085	33,836

Year	Bituminous Coal and Lignite	Anthracite	Total	Natural Gas	Distillate Fuel	Kerosene	LPG	Total	Electricity	Net Energy[4]	Electrical System Energy Losses	Total[4]
	Trillion Btu											
1960	**1.4**	**0.0**	**1.4**	**7.0**	**16.7**	*	**2.0**	**18.7**	**18.0**	**45.1**	**44.7**	**89.7**
1961	1.6	0.0	1.6	7.3	17.2	*	1.0	18.2	18.8	45.9	45.8	91.8
1962	1.2	0.0	1.2	8.3	18.2	*	1.5	19.6	20.3	49.3	48.7	98.1
1963	1.0	0.0	1.0	9.8	19.8	*	1.6	21.4	21.6	53.9	51.7	105.6
1964	1.0	0.0	1.0	12.0	21.6	*	3.0	24.6	23.9	61.5	56.9	118.4
1965	**1.1**	**0.0**	**1.1**	**11.6**	**19.7**	*	**3.2**	**22.9**	**24.5**	**60.1**	**58.4**	**118.5**
1966	1.0	0.0	1.0	13.5	19.4	*	2.7	22.1	25.9	62.6	62.2	124.8
1967	0.7	0.0	0.7	14.2	18.1	*	3.1	21.3	27.4	63.6	65.4	128.9
1968	0.5	0.0	0.5	15.9	18.8	*	3.1	22.0	29.3	67.7	69.9	137.7
1969	0.5	0.0	0.5	21.6	19.2	0.2	3.3	22.7	32.3	77.1	77.3	154.4
1970	**0.3**	**0.0**	**0.3**	**20.6**	**18.1**	**0.4**	**3.3**	**21.7**	**33.6**	**76.2**	**81.4**	**157.7**
1971	0.3	0.0	0.3	22.2	19.0	0.2	3.6	22.7	37.0	82.2	89.4	171.6
1972	0.2	0.0	0.2	24.4	19.3	0.1	3.0	22.5	38.6	85.7	92.8	178.5
1973	0.1	0.0	0.1	23.6	17.8	*	2.7	20.5	39.9	84.2	95.5	179.7
1974	0.1	0.0	0.1	22.9	15.1	0.3	2.4	17.8	40.3	81.0	98.2	179.3
1975	**0.1**	**0.0**	**0.1**	**29.9**	**13.9**	**0.3**	**1.3**	**15.5**	**41.3**	**86.8**	**99.6**	**186.3**
1976	0.2	0.0	0.2	21.8	15.5	0.2	1.3	17.0	41.5	80.5	99.9	180.3
1977	0.2	0.0	0.2	10.5	18.1	0.4	1.4	19.9	42.2	72.8	102.0	174.8
1978	0.1	0.0	0.1	18.4	16.8	0.8	1.3	18.9	43.6	81.0	106.7	187.7
1979	0.1	0.0	0.1	19.7	15.7	0.4	2.2	18.3	46.9	85.1	113.2	198.3
1980	**0.1**	**0.0**	**0.1**	**19.2**	**11.8**	**0.2**	**2.1**	**14.1**	**46.2**	**79.7**	**112.4**	**192.0**
1981	*	0.0	*	17.9	14.8	0.4	2.3	17.5	45.0	80.4	107.2	187.6
1982	*	0.0	*	19.5	12.3	0.3	2.2	14.8	47.2	81.6	113.3	194.9
1983	*	0.0	*	17.5	10.7	0.2	2.6	13.5	44.8	75.8	107.2	183.0
1984	*	0.0	*	20.2	12.1	0.1	1.8	14.1	47.9	82.2	111.3	193.6
1985	*	**0.0**	*	**22.1**	**13.8**	**0.2**	**2.1**	**16.2**	**49.6**	**87.9**	**116.2**	**204.1**
1986	*	0.0	*	19.5	11.9	*	2.0	14.0	46.8	80.3	107.3	187.6
1987	*	0.0	*	19.3	10.2	*	1.7	11.9	46.8	78.0	106.6	184.6
1988	*	0.0	*	21.3	10.7	0.1	1.2	12.0	48.9	82.3	110.5	192.8
1989	0.1	0.0	0.1	23.3	11.0	0.4	1.3	12.7	51.5	87.5	115.4	202.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 239. Commercial Energy Consumption Estimates, 1960–1989, Oregon

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**104**	**0**	**104**	**3**	**1,485**	*	**89**	**139**	**991**	**2,704**	**3,083**	**7,669**		
1961	118	0	118	3	1,530	3	45	163	890	2,631	3,274	7,979		
1962	88	0	88	4	1,615	4	64	188	937	2,808	3,607	8,671		
1963	77	0	77	4	1,757	2	72	189	974	2,995	3,948	9,441		
1964	75	0	75	5	1,919	3	133	173	1,065	3,293	4,392	10,461		
1965	**84**	**0**	**84**	**6**	**1,752**	**4**	**139**	**206**	**1,046**	**3,147**	**4,557**	**10,881**		
1966	77	0	77	7	1,727	5	118	174	1,071	3,095	4,956	11,893		
1967	55	0	55	7	1,614	4	142	199	1,049	3,009	5,367	12,822		
1968	39	0	39	8	1,676	5	143	207	1,156	3,187	5,645	13,468		
1969	39	0	39	10	1,707	21	154	217	1,366	3,466	6,168	14,734		
1970	**20**	**0**	**20**	**11**	**1,607**	**46**	**153**	**249**	**1,326**	**3,382**	**6,674**	**16,173**		
1971	27	0	27	14	1,686	23	167	236	1,472	3,584	7,153	17,293		
1972	19	0	19	15	1,721	14	143	227	1,865	3,969	7,827	18,840		
1973	10	0	10	14	1,584	5	126	209	1,758	3,683	8,203	19,637		
1974	8	0	8	13	1,344	34	112	215	1,552	3,258	8,172	19,925		
1975	**9**	**0**	**9**	**16**	**1,238**	**34**	**64**	**218**	**962**	**2,517**	**8,804**	**21,235**		
1976	15	0	15	14	1,378	29	63	216	764	2,449	8,714	20,991		
1977	14	0	14	11	1,614	49	66	207	734	2,670	9,096	21,964		
1978	13	0	13	12	1,493	102	64	195	722	2,576	9,602	23,491		
1979	12	0	12	14	1,401	45	107	175	413	2,141	10,514	25,374		
1980	**11**	**0**	**11**	**15**	**1,792**	**37**	**101**	**291**	**876**	**3,098**	**10,456**	**25,425**		
1981	3	0	3	15	957	53	111	296	985	2,401	9,088	21,658		
1982	4	0	4	16	1,000	12	108	305	1,488	2,913	9,119	21,902		
1983	3	0	3	15	1,798	45	127	407	117	2,494	9,001	21,565		
1984	3	0	3	17	2,032	33	87	296	112	2,561	9,773	22,694		
1985	**2**	**0**	**2**	**19**	**1,384**	**27**	**102**	**231**	**62**	**1,806**	**10,340**	**24,247**		
1986	1	0	1	17	1,341	2	97	234	253	1,927	10,350	23,731		
1987	2	0	2	17	1,622	2	83	243	90	2,039	10,786	24,581		
1988	3	0	3	18	1,520	12	59	238	128	1,957	11,333	25,593		
1989	4	0	4	20	1,075	12	63	220	314	1,684	11,613	26,050		
							Trillion Btu							
1960	**2.6**	**0.0**	**2.6**	**3.2**	**8.6**	*	**0.4**	**0.7**	**6.2**	**16.0**	**10.5**	**32.3**	**26.2**	**58.4**
1961	2.9	0.0	2.9	3.4	8.9	*	0.2	0.9	5.6	15.6	11.2	33.0	27.2	60.2
1962	2.2	0.0	2.2	3.7	9.4	*	0.3	1.0	5.9	16.6	12.3	34.7	29.6	64.3
1963	1.9	0.0	1.9	4.5	10.2	*	0.3	1.0	6.1	17.7	13.5	37.5	32.2	69.7
1964	1.8	0.0	1.8	5.7	11.2	*	0.5	0.9	6.7	19.3	15.0	41.9	35.7	77.6
1965	**2.1**	**0.0**	**2.1**	**6.0**	**10.2**	*	**0.6**	**1.1**	**6.6**	**18.4**	**15.5**	**42.0**	**37.1**	**79.2**
1966	1.9	0.0	1.9	7.0	10.1	*	0.5	0.9	6.7	18.2	16.9	44.0	40.6	84.6
1967	1.3	0.0	1.3	7.4	9.4	*	0.5	1.0	6.6	17.6	18.3	44.6	43.7	88.4
1968	0.9	0.0	0.9	8.3	9.8	*	0.5	1.1	7.3	18.7	19.3	47.2	46.0	93.2
1969	0.9	0.0	0.9	10.5	9.9	0.1	0.6	1.1	8.6	20.4	21.0	52.9	50.3	103.1
1970	**0.5**	**0.0**	**0.5**	**11.9**	**9.4**	**0.3**	**0.6**	**1.3**	**8.3**	**19.8**	**22.8**	**55.0**	**55.2**	**110.2**
1971	0.6	0.0	0.6	14.2	9.8	0.1	0.6	1.2	9.3	21.1	24.4	60.3	59.0	119.3
1972	0.5	0.0	0.5	15.2	10.0	0.1	0.5	1.2	11.7	23.6	26.7	65.9	64.3	130.2
1973	0.2	0.0	0.2	14.5	9.2	*	0.5	1.1	11.1	21.9	28.0	64.7	67.0	131.7
1974	0.2	0.0	0.2	14.0	7.8	0.2	0.4	1.1	9.8	19.3	27.9	61.4	68.0	129.4
1975	**0.2**	**0.0**	**0.2**	**16.5**	**7.2**	**0.2**	**0.2**	**1.1**	**6.0**	**14.8**	**30.0**	**61.6**	**72.5**	**134.0**
1976	0.3	0.0	0.3	14.5	8.0	0.2	0.2	1.1	4.8	14.4	29.7	58.9	71.6	130.5
1977	0.3	0.0	0.3	11.3	9.4	0.3	0.2	1.1	4.6	15.6	31.0	58.3	74.9	133.2
1978	0.3	0.0	0.3	12.7	8.7	0.6	0.2	1.0	4.5	15.1	32.8	60.8	80.2	140.9
1979	0.2	0.0	0.2	14.4	8.2	0.3	0.4	0.9	2.6	12.3	35.9	62.9	86.6	149.5
1980	**0.3**	**0.0**	**0.3**	**15.9**	**10.4**	**0.2**	**0.4**	**1.5**	**5.5**	**18.1**	**35.7**	**69.9**	**86.8**	**156.6**
1981	0.1	0.0	0.1	15.6	5.6	0.3	0.4	1.6	6.2	14.0	31.0	60.7	73.9	134.6
1982	0.1	0.0	0.1	17.0	5.8	0.1	0.4	1.6	9.4	17.2	31.1	65.5	74.7	140.2
1983	0.1	0.0	0.1	15.8	10.5	0.3	0.5	2.1	0.7	14.1	30.7	60.6	73.6	134.2
1984	0.1	0.0	0.1	17.6	11.8	0.2	0.3	1.6	0.7	14.6	33.3	65.6	77.4	143.1
1985	*	**0.0**	*	**19.6**	**8.1**	**0.2**	**0.4**	**1.2**	**0.4**	**10.2**	**35.3**	**65.1**	**82.7**	**147.9**
1986	*	0.0	*	17.2	7.8	*	0.4	1.2	1.6	11.0	35.3	63.5	81.0	144.5
1987	*	0.0	*	17.2	9.4	*	0.3	1.3	0.6	11.6	36.8	65.6	83.9	149.5
1988	0.1	0.0	0.1	18.8	8.9	0.1	0.2	1.2	0.8	11.2	38.7	68.8	87.3	156.1
1989	0.1	0.0	0.1	21.0	6.3	0.1	0.2	1.2	2.0	9.7	39.6	70.4	88.9	159.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 240. Industrial Energy Consumption Estimates, 1960–1989, Oregon

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**217**	**0**	**217**	**20**	**1,820**	**3,723**	**44**	**558**	**175**	**1,080**	**3,411**	**569**	**11,379**	**77**	**5,247**	**13,051**
1961	218	0	218	23	1,983	3,630	19	308	170	970	3,121	1,442	11,643	79	5,437	13,251
1962	240	0	240	26	2,012	3,881	17	369	165	964	3,264	1,639	12,310	80	5,598	13,459
1963	201	0	201	29	1,938	3,983	16	366	165	923	3,304	1,856	12,551	75	5,415	12,951
1964	177	0	177	37	2,344	4,529	6	48	173	918	3,545	1,674	13,236	64	6,434	15,323
1965	**175**	**0**	**175**	**39**	**1,960**	**4,287**	**10**	**33**	**208**	**808**	**3,398**	**1,770**	**12,474**	**61**	**7,167**	**17,111**
1966	162	0	162	45	2,233	4,443	9	54	216	685	3,512	1,731	12,882	66	7,588	18,207
1967	124	0	124	47	1,826	4,244	12	63	212	666	3,559	1,828	12,410	63	8,067	19,273
1968	110	0	110	52	1,853	3,826	9	82	233	683	3,782	1,712	12,180	71	8,615	20,554
1969	114	0	114	53	2,029	3,595	16	120	276	717	4,442	1,969	13,164	83	8,945	21,368
1970	**109**	**0**	**109**	**58**	**2,167**	**3,413**	**107**	**212**	**281**	**722**	**4,217**	**1,626**	**12,746**	**77**	**9,123**	**22,109**
1971	114	0	114	59	2,735	3,548	99	218	236	599	4,641	1,910	13,985	60	9,268	22,406
1972	74	0	74	63	3,141	4,251	84	244	252	623	5,743	2,112	16,452	8	8,743	21,045
1973	85	0	85	60	2,862	4,108	78	235	304	597	5,324	1,794	15,302	10	9,598	22,978
1974	144	0	144	55	2,595	3,075	171	350	291	587	4,664	1,559	13,292	40	10,657	25,984
1975	**116**	**0**	**116**	**57**	**3,218**	**2,827**	**143**	**287**	**189**	**560**	**2,922**	**1,780**	**11,926**	**40**	**12,402**	**29,916**
1976	283	0	283	49	2,790	3,077	141	277	210	504	2,307	1,600	10,907	27	14,108	33,983
1977	256	0	256	43	2,803	3,626	251	288	221	482	2,204	1,864	11,740	32	12,815	30,944
1978	232	0	232	48	3,030	3,619	277	335	238	407	2,207	1,872	11,986	16	13,623	33,329
1979	236	0	236	49	3,253	3,986	52	654	249	403	1,299	1,555	11,450	29	14,010	33,811
1980	**213**	**0**	**213**	**39**	**2,483**	**3,992**	**38**	**614**	**221**	**417**	**2,528**	**1,412**	**11,706**	**28**	**13,847**	**33,671**
1981	313	0	313	40	1,839	3,264	18	379	212	315	1,751	1,873	9,651	28	15,376	36,645
1982	157	0	157	32	1,669	2,922	24	530	194	284	3,481	1,563	10,667	28	11,847	28,454
1983	216	0	216	32	2,173	3,238	1	385	203	188	857	1,115	8,160	29	11,613	27,822
1984	174	0	174	39	2,519	3,659	2	571	216	486	816	957	9,226	28	14,245	33,080
1985	**170**	**0**	**170**	**38**	**2,838**	**2,545**	**1**	**759**	**201**	**482**	**547**	**1,085**	**8,459**	**28**	**11,081**	**25,985**
1986	162	0	162	32	2,225	2,476	1	897	197	500	1,657	1,210	9,163	28	10,994	25,206
1987	202	0	202	37	2,140	3,045	*	792	223	481	647	1,845	9,175	28	13,210	30,105
1988	172	0	172	40	2,423	2,914	2	1,003	215	417	621	1,818	9,414	28	13,633	30,787
1989	84	0	84	44	2,802	2,898	7	1,030	220	478	435	1,743	9,613	28	14,913	33,451

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**112.3**	**44.5**	**156.9**
1961	118.0	45.2	163.2
1962	125.9	45.9	171.9
1963	130.9	44.2	175.1
1964	146.2	52.3	198.5
1965	**146.0**	**58.4**	**204.4**
1966	156.1	62.1	218.2
1967	156.1	65.8	221.8
1968	160.9	70.1	231.1
1969	170.0	72.9	242.9
1970	**171.7**	**75.4**	**247.1**
1971	181.8	76.4	258.2
1972	197.2	71.8	269.0
1973	191.8	78.4	270.2
1974	178.0	88.7	266.7
1975	**177.3**	**102.1**	**279.4**
1976	170.2	115.9	286.2
1977	164.4	105.6	270.0
1978	173.2	113.7	286.9
1979	172.4	115.4	287.7
1980	**162.1**	**114.9**	**277.0**
1981	157.7	125.0	282.8
1982	141.2	97.1	238.3
1983	126.0	94.9	220.9
1984	147.6	112.9	260.5
1985	**130.1**	**88.7**	**218.8**
1986	126.8	86.0	212.8
1987	140.6	102.7	243.3
1988	145.5	105.0	250.6
1989	154.3	114.1	268.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] *Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.*

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 241. Transportation Energy Consumption Estimates, 1960-1989, Oregon

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**4**	*	**655**	**2,893**	**384**	**10**	**301**	**15,142**	**1,157**	**20,542**	**0**	**0**		
1961	1	*	851	3,013	619	9	293	15,704	935	21,425	0	0		
1962	1	*	463	3,220	765	8	320	16,562	770	22,108	0	0		
1963	1	*	319	3,598	593	11	320	17,160	667	22,669	0	0		
1964	1	*	300	3,748	625	5	336	17,768	670	23,453	0	0		
1965	**1**	**1**	**277**	**3,664**	**812**	**4**	**404**	**18,824**	**670**	**24,654**	**0**	**0**		
1966	*	1	337	4,078	950	6	419	19,893	1,175	26,859	0	0		
1967	*	2	328	3,863	1,603	9	359	20,440	1,085	27,686	0	0		
1968	*	4	477	4,563	2,145	10	394	21,440	1,855	30,883	0	0		
1969	*	4	187	5,005	2,366	11	478	22,476	1,137	31,661	0	0		
1970	*	**6**	**305**	**4,782**	**2,086**	**18**	**487**	**23,987**	**1,070**	**32,736**	**0**	**0**		
1971	*	7	165	5,688	2,072	21	414	25,312	464	34,136	0	0		
1972	*	10	178	6,401	2,085	19	443	26,906	271	36,303	0	0		
1973	*	9	189	7,478	2,386	15	498	28,147	290	39,004	0	0		
1974	*	7	205	6,870	2,212	14	477	27,451	326	37,554	0	0		
1975	*	**8**	**171**	**6,783**	**2,079**	**13**	**490**	**28,125**	**438**	**38,098**	**0**	**0**		
1976	*	9	169	7,086	2,055	16	545	30,026	392	40,288	0	0		
1977	*	9	199	8,183	2,307	19	529	31,366	424	43,026	0	0		
1978	0	9	193	9,059	2,534	76	569	32,894	1,666	46,990	0	0		
1979	0	9	209	9,265	2,631	96	595	31,268	3,733	47,796	0	0		
1980	**0**	**6**	**260**	**8,851**	**2,465**	**65**	**530**	**29,803**	**1,107**	**43,080**	**0**	**0**		
1981	0	4	219	9,631	1,694	140	508	29,102	3,608	44,903	0	0		
1982	0	3	127	8,927	1,785	74	463	27,798	5,562	44,736	0	0		
1983	0	3	125	9,128	1,777	87	485	27,714	3,270	42,587	0	0		
1984	0	3	125	7,962	1,962	296	517	28,572	3,919	43,353	0	0		
1985	**0**	**5**	**141**	**9,088**	**2,142**	**173**	**482**	**28,328**	**3,571**	**43,925**	**0**	**0**		
1986	0	3	193	9,028	2,618	168	471	29,213	3,798	45,488	0	0		
1987	0	8	127	9,791	2,928	184	533	29,855	3,575	46,992	7	15		
1988	0	8	98	10,195	3,189	185	514	31,479	4,008	49,669	8	18		
1989	0	9	102	10,317	3,377	156	527	31,176	3,993	49,648	8	18		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**0.1**	**0.1**	**3.3**	**16.9**	**2.1**	*	**1.8**	**79.5**	**7.3**	**111.0**	**0.0**	**111.1**	**0.0**	**111.1**
1961	*	0.1	4.3	17.6	3.4	*	1.8	82.5	5.9	115.5	0.0	115.6	0.0	115.6
1962	*	0.1	2.3	18.8	4.3	*	1.9	87.0	4.8	119.2	0.0	119.3	0.0	119.3
1963	*	*	1.6	21.0	3.3	*	1.9	90.1	4.2	122.2	0.0	122.2	0.0	122.2
1964	*	0.5	1.5	21.8	3.5	*	2.0	93.3	4.2	126.4	0.0	126.9	0.0	126.9
1965	*	**0.7**	**1.4**	**21.3**	**4.5**	*	**2.4**	**98.9**	**4.2**	**132.8**	**0.0**	**133.6**	**0.0**	**133.6**
1966	*	0.9	1.7	23.8	5.3	*	2.5	104.5	7.4	145.2	0.0	146.2	0.0	146.2
1967	*	2.0	1.7	22.5	9.0	*	2.2	107.4	6.8	149.6	0.0	151.6	0.0	151.6
1968	*	4.1	2.4	26.6	12.1	*	2.4	112.6	11.7	167.8	0.0	171.9	0.0	171.9
1969	*	3.8	0.9	29.2	13.3	*	2.9	118.1	7.1	171.6	0.0	175.4	0.0	175.4
1970	*	**5.8**	**1.5**	**27.9**	**11.8**	**0.1**	**3.0**	**126.0**	**6.7**	**176.9**	**0.0**	**182.7**	**0.0**	**182.7**
1971	*	7.1	0.8	33.1	11.7	0.1	2.5	133.0	2.9	184.1	0.0	191.2	0.0	191.2
1972	*	10.4	0.9	37.3	11.8	0.1	2.7	141.3	1.7	195.7	0.0	206.1	0.0	206.1
1973	*	9.2	1.0	43.6	13.5	0.1	3.0	147.9	1.8	210.8	0.0	220.0	0.0	220.0
1974	*	7.6	1.0	40.0	12.5	0.1	2.9	144.2	2.0	202.7	0.0	210.4	0.0	210.4
1975	*	**8.2**	**0.9**	**39.5**	**11.7**	*	**3.0**	**147.7**	**2.8**	**205.6**	**0.0**	**213.8**	**0.0**	**213.8**
1976	*	9.1	0.9	41.3	11.6	0.1	3.3	157.7	2.5	217.3	0.0	226.4	0.0	226.4
1977	*	9.0	1.0	47.7	13.0	0.1	3.2	164.8	2.7	232.4	0.0	241.4	0.0	241.4
1978	0.0	9.1	1.0	52.8	14.3	0.3	3.4	172.8	10.5	255.1	0.0	264.1	0.0	264.1
1979	0.0	9.7	1.1	54.0	14.9	0.4	3.6	164.2	23.5	261.6	0.0	271.2	0.0	271.2
1980	**0.0**	**5.9**	**1.3**	**51.6**	**13.9**	**0.2**	**3.2**	**156.6**	**7.0**	**233.8**	**0.0**	**239.6**	**0.0**	**239.6**
1981	0.0	3.8	1.1	56.1	9.6	0.5	3.1	152.9	22.7	245.9	0.0	249.7	0.0	249.7
1982	0.0	3.6	0.6	52.0	10.1	0.3	2.8	146.0	35.0	246.8	0.0	250.3	0.0	250.3
1983	0.0	3.1	0.6	53.2	10.0	0.3	2.9	145.6	20.6	233.2	0.0	236.4	0.0	236.4
1984	0.0	2.8	0.6	46.4	11.1	1.1	3.1	150.1	24.6	237.0	0.0	239.8	0.0	239.8
1985	**0.0**	**4.7**	**0.7**	**52.9**	**12.1**	**0.6**	**2.9**	**148.8**	**22.5**	**240.5**	**0.0**	**245.3**	**0.0**	**245.3**
1986	0.0	3.6	1.0	52.6	14.8	0.6	2.9	153.5	23.9	249.1	0.0	252.7	0.0	252.7
1987	0.0	8.2	0.6	57.0	16.5	0.7	3.2	156.8	22.5	257.4	*	265.6	0.1	265.7
1988	0.0	8.2	0.5	59.4	18.0	0.7	3.1	165.4	25.2	272.2	*	280.5	0.1	280.6
1989	0.0	8.8	0.5	60.1	19.1	0.6	3.2	163.8	25.1	272.3	*	281.2	0.1	281.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 242. Estimates of Energy Input at Electric Utilities, 1960-1989, Oregon

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**1**	**3**	*	**0**	**3**	**0**	**12,389**	**0**	**24**	
1961	0	0	0	1	3	*	0	3	0	12,413	0	23	
1962	0	0	0	1	25	*	0	25	0	13,233	0	29	
1963	0	0	0	1	8	*	0	8	0	13,561	0	31	
1964	0	0	0	*	2	*	0	2	0	14,941	0	3	
1965	**0**	**0**	**0**	*	**1**	*	**0**	**1**	**0**	**16,447**	**0**	**26**	
1966	0	0	0	*	57	1	0	57	0	16,653	0	46	
1967	0	0	0	*	17	*	0	17	0	17,797	0	-3	
1968	0	0	0	1	10	*	0	10	0	20,376	0	3	
1969	0	0	0	*	8	*	0	8	0	27,815	0	2	
1970	**0**	**0**	**0**	**1**	**18**	*	**0**	**19**	**0**	**29,836**	**0**	**44**	
1971	0	0	0	0	0	1	0	1	0	34,304	0	32	
1972	0	0	0	0	0	1	0	1	0	36,469	0	60	
1973	0	0	0	3	1	28	0	28	0	28,140	0	62	
1974	0	0	0	*	*	54	0	54	0	35,964	0	47	
1975	**0**	**0**	**0**	*	**0**	**29**	**0**	**29**	**2**	**34,522**	**0**	*	
1976	0	0	0	*	0	20	0	20	2,103	35,356	0	46	
1977	0	0	0	*	0	266	0	266	6,492	24,352	0	260	
1978	0	0	0	0	0	142	0	142	1,563	31,896	0	131	
1979	0	0	0	2	0	931	0	931	4,495	29,837	0	210	
1980	**485**	**0**	**485**	*	**0**	**110**	**0**	**110**	**5,395**	**30,194**	**0**	**160**	
1981	1,197	0	1,197	*	0	36	0	36	6,424	32,132	0	120	
1982	537	0	537	*	0	14	0	14	4,792	45,195	0	39	
1983	358	0	358	*	0	25	0	25	3,685	45,049	0	*	
1984	506	0	506	*	0	10	0	10	4,736	46,607	0	0	
1985	**418**	**0**	**418**	**0**	**0**	**3**	**0**	**3**	**6,911**	**45,848**	**0**	**0**	
1986	0	0	0	*	0	4	0	4	7,081	42,068	0	0	
1987	0	0	0	0	0	2	0	2	4,348	40,689	0	0	
1988	0	0	0	0	0	1	0	1	6,339	36,281	0	99	
1989	306	0	306	13	0	76	0	76	5,299	39,946	0	28	
					Trillion Btu								
1960	**0.0**	**0.0**	**0.0**	**0.7**	*	*	**0.0**	*	**0.0**	**133.3**	**0.0**	**0.3**	**134.3**
1961	0.0	0.0	0.0	0.6	*	*	0.0	*	0.0	132.2	0.0	0.2	133.1
1962	0.0	0.0	0.0	0.5	0.2	*	0.0	0.2	0.0	139.7	0.0	0.3	140.7
1963	0.0	0.0	0.0	0.6	0.1	*	0.0	0.1	0.0	142.1	0.0	0.3	143.2
1964	0.0	0.0	0.0	0.3	*	*	0.0	*	0.0	156.3	0.0	*	156.7
1965	**0.0**	**0.0**	**0.0**	**0.1**	*	*	**0.0**	*	**0.0**	**171.9**	**0.0**	**0.3**	**172.3**
1966	0.0	0.0	0.0	0.1	0.4	*	0.0	0.4	0.0	173.4	0.0	0.5	174.4
1967	0.0	0.0	0.0	0.3	0.1	*	0.0	0.1	0.0	185.7	0.0	*	186.1
1968	0.0	0.0	0.0	0.6	0.1	*	0.0	0.1	0.0	211.9	0.0	*	212.5
1969	0.0	0.0	0.0	0.5	0.1	*	0.0	0.1	0.0	290.6	0.0	*	291.1
1970	**0.0**	**0.0**	**0.0**	**1.1**	**0.1**	*	**0.0**	**0.1**	**0.0**	**313.1**	**0.0**	**0.5**	**314.7**
1971	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	359.4	0.0	0.3	359.8
1972	0.0	0.0	0.0	0.0	0.0	*	0.0	*	0.0	378.5	0.0	0.6	379.1
1973	0.0	0.0	0.0	3.0	*	0.2	0.0	0.2	0.0	292.3	0.0	0.6	296.1
1974	0.0	0.0	0.0	0.3	*	0.3	0.0	0.3	0.0	375.5	0.0	0.5	376.6
1975	**0.0**	**0.0**	**0.0**	*	**0.0**	**0.2**	**0.0**	**0.2**	*	**359.2**	**0.0**	*	**359.4**
1976	0.0	0.0	0.0	*	0.0	0.1	0.0	0.1	23.2	366.8	0.0	0.5	390.6
1977	0.0	0.0	0.0	*	0.0	1.5	0.0	1.5	69.9	254.1	0.0	2.7	328.3
1978	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	17.1	330.5	0.0	1.4	349.8
1979	0.0	0.0	0.0	2.5	0.0	5.4	0.0	5.4	48.9	308.9	0.0	2.2	367.9
1980	**7.9**	**0.0**	**7.9**	**0.3**	**0.0**	**0.6**	**0.0**	**0.6**	**58.8**	**313.7**	**0.0**	**1.7**	**383.1**
1981	19.8	0.0	19.8	0.2	0.0	0.2	0.0	0.2	70.9	335.9	0.0	1.3	428.2
1982	8.9	0.0	8.9	*	0.0	0.1	0.0	0.1	53.1	472.5	0.0	0.4	535.0
1983	6.0	0.0	6.0	*	0.0	0.1	0.0	0.1	40.2	473.9	0.0	*	520.2
1984	8.4	0.0	8.4	*	0.0	0.1	0.0	0.1	51.3	481.1	0.0	0.0	541.0
1985	**6.9**	**0.0**	**6.9**	**0.0**	**0.0**	*	**0.0**	*	**74.7**	**474.0**	**0.0**	**0.0**	**555.7**
1986	0.0	0.0	0.0	*	0.0	*	0.0	*	76.5	431.7	0.0	0.0	508.2
1987	0.0	0.0	0.0	0.0	0.0	*	0.0	*	46.9	417.2	0.0	0.0	464.0
1988	0.0	0.0	0.0	0.0	0.0	*	0.0	*	68.1	371.3	0.0	1.0	440.5
1989	5.2	0.0	5.2	13.4	0.0	0.4	0.0	0.4	56.8	412.7	0.0	0.3	488.9

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 243. Energy Consumption Estimates by Source, 1960-1989, Pennsylvania

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**60,624**	**522**	**4,731**	**1,994**	**46,257**	**1,036**	**3,508**	**2,334**	**2,775**	**80,104**	**42,958**	**11,696**	**197,394**	**230**	**1,826**	**0**	**0**	**-1,496**	
1961	56,689	529	4,740	2,418	46,649	1,448	3,616	2,545	2,701	78,939	38,991	12,264	194,310	305	1,489	0	0	541	
1962	58,429	550	4,859	1,864	49,912	1,822	3,692	2,700	2,867	81,358	40,943	11,971	201,989	320	1,519	0	0	-639	
1963	60,798	586	4,935	2,263	52,060	2,103	3,644	2,976	2,866	82,372	41,917	12,548	207,684	355	1,280	0	0	1,039	
1964	66,977	609	5,348	1,939	51,264	2,343	3,646	3,241	3,010	83,228	42,965	14,461	211,446	25	1,281	0	0	1,010	
1965	**68,907**	**629**	**6,201**	**1,922**	**54,459**	**3,406**	**3,851**	**3,030**	**3,540**	**85,723**	**43,238**	**15,079**	**220,449**	**313**	**1,329**	**0**	**0**	**4,970**	
1966	68,945	677	5,900	1,505	54,414	3,826	3,858	3,411	3,678	88,161	47,678	14,595	227,026	525	1,443	0	0	8,317	
1967	67,497	678	6,392	994	57,240	5,693	4,573	3,301	3,276	91,820	44,436	13,568	231,294	603	1,914	0	0	8,691	
1968	68,646	718	6,593	942	59,924	7,070	4,404	3,854	3,598	97,497	45,890	14,480	244,253	468	1,182	0	0	13,522	
1969	64,985	766	6,429	767	61,519	8,611	4,372	4,376	3,774	98,637	52,345	14,804	255,635	415	916	0	0	13,982	
1970	**68,573**	**772**	**6,600**	**662**	**63,489**	**9,083**	**4,251**	**4,754**	**3,844**	**101,718**	**60,436**	**14,901**	**269,738**	**465**	**1,366**	**0**	**0**	**2,804**	
1971	65,816	802	6,660	623	63,171	8,552	4,711	4,895	3,629	107,336	60,724	14,297	274,599	445	779	0	0	-7,365	
1972	67,167	829	7,153	599	69,280	8,669	5,486	5,577	3,886	116,142	60,152	14,974	291,917	288	1,533	0	0	-14,915	
1973	72,471	783	6,976	573	72,139	9,225	3,975	5,808	4,795	114,856	59,253	15,381	292,982	361	1,372	0	0	-11,629	
1974	67,600	716	6,678	542	72,016	8,954	3,642	5,687	4,593	108,823	56,643	15,090	282,668	6,998	1,393	0	0	-4,908	
1975	**67,043**	**654**	**5,663**	**426**	**68,017**	**8,548**	**3,398**	**6,077**	**3,349**	**108,765**	**41,631**	**15,508**	**261,382**	**15,869**	**1,576**	**0**	**0**	**-34,243**	
1976	67,651	714	6,305	425	75,108	8,436	3,567	6,399	3,720	117,709	50,302	17,575	289,547	16,425	1,416	0	0	-38,356	
1977	63,539	668	6,569	436	78,031	8,498	2,551	6,857	4,066	120,263	59,962	18,761	305,994	17,821	1,205	0	0	-34,698	
1978	63,179	674	6,330	382	75,378	8,958	2,517	7,345	4,367	121,978	58,363	21,040	306,657	22,329	760	0	0	-50,550	
1979	70,374	741	6,354	342	76,720	9,890	2,937	8,511	4,569	116,157	46,461	20,770	292,711	18,796	1,222	0	0	-54,616	
1980	**65,911**	**776**	**5,148**	**337**	**68,602**	**10,148**	**2,763**	**7,255**	**4,069**	**107,925**	**35,099**	**19,492**	**260,836**	**12,091**	**734**	**0**	**0**	**-36,478**	
1981	60,535	785	5,424	278	59,885	9,019	2,651	7,635	3,902	104,151	29,878	16,084	238,908	14,276	660	0	0	-19,294	
1982	52,472	695	5,400	197	52,945	8,625	2,932	7,170	3,558	102,134	20,869	15,094	218,924	16,472	1,829	0	0	-43,383	
1983	53,847	644	3,985	210	52,872	9,152	1,836	7,210	3,726	102,680	24,104	16,891	222,665	14,718	1,170	0	0	-46,670	
1984	58,648	677	4,061	186	55,036	10,465	1,351	8,217	3,973	102,159	20,773	17,826	224,047	21,564	1,447	0	0	-59,939	
1985	**56,703**	**626**	**4,913**	**208**	**53,862**	**10,126**	**1,612**	**6,958**	**3,703**	**101,955**	**16,416**	**16,508**	**216,262**	**26,232**	**972**	**0**	**0**	**-75,599**	
1986	53,104	610	5,956	251	54,276	9,915	1,934	8,400	3,620	104,105	19,790	15,692	223,941	39,820	1,453	0	0	-112,267	
1987	55,413	636	6,572	147	57,723	10,530	1,672	8,092	4,093	106,382	19,369	17,344	231,924	34,982	1,132	0	0	-84,752	
1988	58,799	669	5,473	189	58,748	11,705	1,706	6,209	3,947	110,875	18,892	19,182	236,925	37,862	705	0	0	-89,136	
1989	58,687	682	6,718	177	61,381	9,661	1,500	7,112	4,048	108,862	17,179	19,249	235,887	39,166	1,290	0	0	-94,961	
									Trillion Btu										
1960	**1,529.9**	**540.1**	**31.4**	**10.1**	**269.4**	**5.7**	**19.9**	**9.4**	**16.8**	**420.8**	**270.1**	**70.0**	**1,123.6**	**2.7**	**19.6**	**0.0**	**0.0**	**-5.1**	**3,210.8**
1961	1,431.7	547.7	31.5	12.2	271.7	8.1	20.5	10.2	16.4	414.7	245.1	73.4	1,103.7	3.5	15.9	0.0	0.0	1.8	3,104.4
1962	1,477.5	568.7	32.2	9.4	290.7	10.2	20.9	10.8	17.4	427.4	257.4	71.6	1,148.2	3.7	16.0	0.0	0.0	-2.2	3,212.0
1963	1,538.4	609.5	32.7	11.4	303.3	11.8	20.7	11.9	17.4	432.7	263.5	75.0	1,180.4	4.2	13.4	0.0	0.0	3.5	3,349.4
1964	1,698.9	632.7	35.5	9.8	298.6	13.1	20.7	13.0	18.3	437.2	270.1	85.0	1,201.3	0.3	13.4	0.0	0.0	3.4	3,550.0
1965	**1,751.2**	**652.9**	**41.2**	**9.7**	**317.2**	**19.2**	**21.8**	**12.2**	**21.5**	**450.3**	**271.8**	**88.6**	**1,253.5**	**3.7**	**13.9**	**0.0**	**0.0**	**17.0**	**3,692.1**
1966	1,746.4	702.9	39.1	7.6	317.0	21.6	21.9	13.7	22.3	463.1	299.8	85.9	1,291.9	6.1	15.0	0.0	0.0	28.4	3,790.7
1967	1,701.1	701.5	42.4	5.0	333.4	32.1	25.9	12.7	19.9	482.3	279.4	79.9	1,313.0	7.0	20.0	0.0	0.0	29.7	3,772.3
1968	1,725.8	741.6	43.7	4.8	349.1	39.9	25.0	14.7	21.8	512.2	288.5	85.2	1,384.9	5.3	12.3	0.0	0.0	46.1	3,916.0
1969	1,628.9	791.2	42.7	3.9	358.3	48.7	24.8	16.7	22.9	518.1	329.1	87.0	1,452.2	4.6	9.6	0.0	0.0	47.7	3,934.2
1970	**1,699.0**	**797.9**	**43.8**	**3.3**	**369.8**	**51.4**	**24.1**	**18.0**	**23.3**	**534.3**	**380.0**	**87.5**	**1,535.5**	**5.1**	**14.3**	**0.0**	**0.0**	**9.6**	**4,061.4**
1971	1,619.6	828.6	44.2	3.1	368.0	48.4	26.7	18.5	22.0	563.8	381.8	83.9	1,560.4	4.8	8.2	0.0	0.0	-25.1	3,996.4
1972	1,662.3	856.3	47.5	3.0	403.6	49.0	31.1	21.0	23.6	610.1	378.2	87.8	1,654.8	3.1	15.9	0.0	0.0	-50.9	4,141.6
1973	1,798.6	811.5	46.3	2.9	420.2	52.2	22.5	21.8	29.1	603.3	372.5	90.2	1,661.0	3.9	14.3	0.0	0.0	-39.7	4,249.7
1974	1,661.4	732.7	44.3	2.7	419.5	50.7	20.7	21.2	27.9	571.6	356.1	88.4	1,603.1	78.1	14.5	0.0	0.0	-16.7	4,073.1
1975	**1,646.7**	**670.1**	**37.6**	**2.1**	**396.2**	**48.4**	**19.3**	**22.6**	**20.3**	**571.3**	**261.7**	**91.2**	**1,470.7**	**174.8**	**16.4**	**0.0**	**0.0**	**-116.8**	**3,861.9**
1976	1,682.8	731.4	41.8	2.1	437.5	47.7	20.2	23.7	22.6	618.3	316.3	102.8	1,633.1	181.4	14.7	0.0	0.0	-130.9	4,112.5
1977	1,578.0	682.4	43.6	2.2	454.5	48.1	14.5	25.2	24.7	631.7	377.0	109.7	1,731.2	191.9	12.6	0.0	0.0	-118.4	4,077.6
1978	1,572.5	688.3	42.0	1.9	439.1	50.7	14.3	26.9	26.5	640.7	366.9	123.1	1,732.2	244.3	7.9	0.0	0.0	-172.5	4,072.6
1979	1,756.3	756.1	42.2	1.7	446.9	56.0	16.7	31.3	27.7	610.2	292.1	120.7	1,645.4	204.5	12.7	0.0	0.0	-186.3	4,188.5
1980	**1,636.1**	**792.8**	**34.2**	**1.7**	**399.6**	**57.4**	**15.7**	**26.7**	**24.7**	**566.9**	**220.7**	**112.6**	**1,460.1**	**131.9**	**7.6**	**0.0**	**0.0**	**-124.5**	**3,904.0**
1981	1,495.9	802.0	36.0	1.4	348.8	51.0	15.0	27.8	23.7	547.1	187.8	93.9	1,332.6	157.5	6.9	0.0	0.0	-65.8	3,729.0
1982	1,291.5	714.1	35.8	1.0	308.4	48.8	16.6	25.9	21.6	536.5	131.2	88.7	1,214.6	182.4	19.1	0.0	0.0	-148.0	3,273.6
1983	1,337.5	662.6	26.4	1.1	308.0	51.8	10.4	26.1	22.6	539.4	151.5	99.8	1,237.0	160.5	12.3	0.0	0.0	-159.2	3,250.7
1984	1,462.3	699.7	26.9	0.9	320.6	59.2	7.7	29.6	24.1	536.6	130.6	103.7	1,239.9	233.8	14.9	0.0	0.0	-204.5	3,446.2
1985	**1,409.1**	**646.9**	**32.6**	**1.0**	**313.7**	**57.3**	**9.1**	**25.1**	**22.5**	**535.6**	**103.2**	**97.1**	**1,197.3**	**283.6**	**10.0**	**0.0**	**0.0**	**-257.9**	**3,289.0**
1986	1,318.4	631.9	39.5	1.3	316.2	56.1	11.0	30.6	22.0	546.9	124.4	93.5	1,241.4	430.0	14.9	0.0	0.0	-383.1	3,253.6
1987	1,381.1	659.1	43.6	0.7	336.2	59.6	9.5	29.6	24.8	558.8	121.8	102.2	1,286.8	377.0	11.6	0.0	0.0	-289.2	3,426.4
1988	1,466.2	692.7	36.3	1.0	342.2	66.2	9.7	22.7	23.9	582.4	118.8	112.9	1,316.0	406.8	7.2	0.0	0.0	-304.1	3,584.8
1989	1,463.7	707.1	44.6	0.9	357.5	54.6	8.5	26.2	24.6	571.9	108.0	112.6	1,309.4	420.0	13.3	0.0	0.0	-324.0	3,589.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 244. Residential Energy Consumption Estimates, 1960-1989, Pennsylvania

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**435**	**4,579**	**5,014**	**232**	**25,101**	**2,763**	**1,125**	**28,989**	**11,094**	**27,594**
1961	387	4,154	4,540	237	24,667	2,772	1,149	28,588	11,779	28,709
1962	361	3,617	3,978	245	27,888	2,899	1,258	32,045	12,291	29,549
1963	303	3,434	3,737	250	28,135	2,859	1,367	32,361	12,950	30,970
1964	250	3,279	3,529	252	27,038	2,691	1,532	31,261	13,737	32,715
1965	**277**	**2,878**	**3,155**	**256**	**28,391**	**2,753**	**1,349**	**32,493**	**14,807**	**35,352**
1966	285	2,442	2,727	275	27,512	2,907	1,549	31,969	16,059	38,533
1967	255	2,187	2,442	280	29,375	3,539	1,445	34,359	17,419	41,615
1968	218	2,067	2,285	286	30,728	3,333	1,464	35,526	19,254	45,940
1969	209	1,828	2,036	295	30,255	3,445	1,772	35,471	21,037	50,251
1970	**244**	**1,755**	**1,999**	**297**	**31,242**	**3,368**	**1,890**	**36,500**	**23,007**	**55,754**
1971	236	1,672	1,908	304	31,383	3,650	1,865	36,897	24,297	58,741
1972	149	1,286	1,435	305	33,912	4,284	2,026	40,222	25,705	61,873
1973	245	1,267	1,511	293	34,319	3,232	2,016	39,567	27,423	65,651
1974	134	1,119	1,253	272	31,931	2,528	1,945	36,403	27,343	66,670
1975	**115**	**924**	**1,039**	**273**	**31,587**	**2,023**	**2,109**	**35,719**	**27,678**	**66,762**
1976	115	876	991	290	34,802	2,172	2,217	39,191	28,850	69,495
1977	99	840	939	277	35,199	1,836	2,303	39,338	30,203	72,931
1978	266	694	959	286	33,102	1,661	2,116	36,879	30,767	75,271
1979	140	546	686	289	32,391	2,040	1,379	35,809	31,410	75,803
1980	**162**	**664**	**825**	**288**	**27,838**	**2,362**	**1,589**	**31,789**	**31,767**	**77,247**
1981	147	831	978	286	24,202	1,992	1,827	28,022	31,714	75,583
1982	223	643	866	272	20,702	2,194	1,777	24,674	31,467	75,578
1983	193	558	751	252	20,703	1,260	2,113	24,076	32,334	77,465
1984	181	607	788	265	21,232	1,077	2,409	24,717	33,132	76,937
1985	**171**	**472**	**642**	**245**	**21,658**	**1,293**	**2,367**	**25,319**	**32,686**	**76,650**
1986	203	513	716	255	18,868	1,508	2,052	22,427	34,241	78,506
1987	247	513	760	251	19,067	1,231	2,190	22,489	35,761	81,500
1988	209	487	695	268	19,779	1,349	2,451	23,578	37,828	85,427
1989	213	492	706	271	22,046	1,238	2,678	25,962	38,141	85,553

Year	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu			
1960	**37.9**	**568.4**	**94.1**	**662.5**
1961	40.2	562.7	98.0	660.6
1962	41.9	577.6	100.8	678.4
1963	44.2	580.3	105.7	686.0
1964	46.9	572.7	111.6	684.3
1965	**50.5**	**579.1**	**120.6**	**699.7**
1966	54.8	588.9	131.5	720.4
1967	59.4	603.1	142.0	745.1
1968	65.7	618.1	156.7	774.8
1969	71.8	626.5	171.5	798.0
1970	**78.5**	**640.6**	**190.2**	**830.8**
1971	82.9	652.8	200.4	853.2
1972	87.7	666.3	211.1	877.5
1973	93.6	656.9	224.0	880.9
1974	93.3	607.4	227.5	834.8
1975	**94.4**	**600.5**	**227.8**	**828.3**
1976	98.4	642.0	237.1	879.1
1977	103.1	632.7	248.8	881.6
1978	105.0	630.6	256.8	887.4
1979	107.2	623.6	258.6	882.3
1980	**108.4**	**603.4**	**263.6**	**867.0**
1981	108.2	582.5	257.9	840.4
1982	107.4	548.2	257.9	806.0
1983	110.3	523.7	264.3	788.1
1984	113.0	545.5	262.5	808.0
1985	**111.5**	**521.9**	**261.5**	**783.4**
1986	116.8	524.4	267.9	792.2
1987	122.0	527.9	278.1	806.0
1988	129.1	556.4	291.5	847.9
1989	130.1	575.0	291.9	866.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 245. Commercial Energy Consumption Estimates, 1960-1989, Pennsylvania

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**808**	**3,053**	**3,861**	**56**	**4,363**	**241**	**198**	**2,084**	**5,514**	**12,401**	**7,118**	**17,704**		
1961	718	2,769	3,487	59	4,288	242	203	2,190	4,980	11,903	7,432	18,114		
1962	670	2,411	3,082	62	4,848	253	222	2,211	5,118	12,652	7,834	18,834		
1963	563	2,289	2,852	64	4,891	249	241	2,329	5,256	12,966	8,204	19,621		
1964	464	2,186	2,650	65	4,700	235	270	2,494	5,481	13,180	8,789	20,932		
1965	**514**	**1,919**	**2,433**	**68**	**4,935**	**240**	**238**	**2,585**	**5,899**	**13,897**	**9,426**	**22,507**		
1966	529	1,628	2,157	74	4,783	254	273	2,706	6,167	14,183	10,090	24,210		
1967	474	1,458	1,932	83	5,106	309	255	2,473	4,913	13,056	10,672	25,495		
1968	404	1,378	1,782	88	5,342	291	258	2,412	4,875	13,178	11,632	27,753		
1969	387	1,218	1,606	96	5,259	301	313	2,449	4,879	13,201	12,510	29,882		
1970	**453**	**1,170**	**1,623**	**99**	**5,431**	**294**	**334**	**2,455**	**5,254**	**13,767**	**13,470**	**32,644**		
1971	438	1,115	1,553	110	5,455	318	329	2,109	5,239	13,452	14,304	34,583		
1972	277	857	1,134	123	5,895	374	357	2,414	5,057	14,097	15,227	36,652		
1973	454	845	1,299	116	5,966	282	356	1,874	5,388	13,866	16,258	38,922		
1974	249	746	995	102	5,551	221	343	1,316	4,828	12,259	16,041	39,111		
1975	**214**	**616**	**830**	**99**	**5,491**	**177**	**372**	**1,310**	**3,630**	**10,980**	**18,606**	**44,881**		
1976	214	584	798	125	6,050	190	391	961	4,122	11,713	19,475	46,912		
1977	183	560	743	112	6,119	160	406	1,205	4,420	12,310	20,319	49,064		
1978	493	462	956	111	5,754	145	373	1,564	3,989	11,826	20,676	50,584		
1979	260	364	624	111	5,631	178	243	975	3,165	10,192	21,036	50,767		
1980	**300**	**442**	**743**	**118**	**5,858**	**193**	**280**	**313**	**1,521**	**8,165**	**21,754**	**52,898**		
1981	273	554	827	129	5,160	183	322	669	1,590	7,925	22,376	53,328		
1982	414	429	843	126	4,721	236	314	490	1,106	6,867	22,650	54,402		
1983	359	372	730	115	5,708	365	373	667	1,529	8,642	23,033	55,181		
1984	336	405	741	126	5,854	150	425	393	1,483	8,305	23,962	55,643		
1985	**317**	**315**	**631**	**115**	**4,933**	**163**	**418**	**448**	**983**	**6,944**	**24,610**	**57,711**		
1986	376	342	718	114	6,004	200	362	459	598	7,624	25,922	59,433		
1987	458	342	800	115	5,649	188	387	485	843	7,550	27,066	61,685		
1988	387	324	712	127	5,585	194	432	473	841	7,526	28,428	64,198		
1989	396	328	725	133	7,296	139	473	452	399	8,759	29,498	66,166		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**20.0**	**75.5**	**95.5**	**58.1**	**25.4**	**1.4**	**0.8**	**10.9**	**34.7**	**73.2**	**24.3**	**251.1**	**60.4**	**311.5**
1961	17.8	68.9	86.7	60.9	25.0	1.4	0.8	11.5	31.3	70.0	25.4	242.9	61.8	304.7
1962	16.6	59.5	76.1	64.0	28.2	1.4	0.9	11.6	32.2	74.4	26.7	241.1	64.3	305.4
1963	13.9	55.2	69.1	66.6	28.5	1.4	1.0	12.2	33.0	76.1	28.0	239.9	66.9	306.8
1964	11.5	52.8	64.3	67.2	27.4	1.3	1.1	13.1	34.5	77.4	30.0	238.8	71.4	310.3
1965	**12.7**	**46.7**	**59.3**	**70.1**	**28.7**	**1.4**	**1.0**	**13.6**	**37.1**	**81.7**	**32.2**	**243.3**	**76.8**	**320.1**
1966	13.0	39.4	52.4	76.5	27.9	1.4	1.1	14.2	38.8	83.4	34.4	246.7	82.6	329.3
1967	11.6	34.3	45.9	85.5	29.7	1.8	1.0	13.0	30.9	76.4	36.4	244.1	87.0	331.1
1968	9.9	32.1	42.0	90.5	31.1	1.6	1.0	12.7	30.6	77.1	39.7	249.3	94.7	344.0
1969	9.4	28.3	37.7	98.9	30.6	1.7	1.2	12.9	30.7	77.1	42.7	256.3	102.0	358.3
1970	**10.8**	**27.5**	**38.3**	**102.6**	**31.6**	**1.7**	**1.3**	**12.9**	**33.0**	**80.5**	**46.0**	**267.3**	**111.4**	**378.7**
1971	10.4	26.3	36.6	113.6	31.8	1.8	1.2	11.1	32.9	78.8	48.8	277.9	118.0	395.9
1972	6.5	20.1	26.6	126.6	34.3	2.1	1.3	12.7	31.8	82.3	52.0	287.4	125.1	412.4
1973	10.7	19.1	29.9	120.5	34.8	1.6	1.3	9.8	33.9	81.4	55.5	287.2	132.8	420.0
1974	5.8	16.7	22.4	104.9	32.3	1.3	1.3	6.9	30.4	72.1	54.7	254.2	133.4	387.7
1975	**5.0**	**13.7**	**18.7**	**101.5**	**32.0**	**1.0**	**1.4**	**6.9**	**22.8**	**64.1**	**63.5**	**247.8**	**153.1**	**400.9**
1976	5.1	13.2	18.3	127.6	35.2	1.1	1.5	5.0	25.9	68.7	66.4	281.1	160.1	441.2
1977	4.4	13.5	17.9	114.2	35.6	0.9	1.5	6.3	27.8	72.2	69.3	273.6	167.4	441.0
1978	11.9	11.3	23.1	113.0	33.5	0.8	1.4	8.2	25.1	69.0	70.5	275.7	172.6	448.3
1979	6.2	8.8	15.1	113.8	32.8	1.0	0.9	5.1	19.9	59.7	71.8	260.4	173.2	433.6
1980	**7.3**	**10.1**	**17.3**	**121.1**	**34.1**	**1.1**	**1.0**	**1.6**	**9.6**	**47.5**	**74.2**	**260.1**	**180.5**	**440.5**
1981	6.6	13.2	19.7	131.4	30.1	1.0	1.2	3.5	10.0	45.8	76.3	273.3	182.0	455.2
1982	10.1	10.5	20.7	129.1	27.5	1.3	1.1	2.6	7.0	39.5	77.3	266.5	185.6	452.2
1983	8.8	9.1	18.0	118.6	33.3	2.1	1.3	3.5	9.6	49.8	78.6	264.9	188.3	453.2
1984	8.3	10.2	18.4	130.5	34.1	0.9	1.5	2.1	9.3	47.9	81.8	278.6	189.9	468.4
1985	**7.9**	**7.2**	**15.1**	**119.3**	**28.7**	**0.9**	**1.5**	**2.4**	**6.2**	**39.7**	**84.0**	**258.0**	**196.9**	**454.9**
1986	9.4	8.3	17.7	118.6	35.0	1.1	1.3	2.4	3.8	43.6	88.4	268.3	202.8	471.1
1987	11.4	9.0	20.4	118.9	32.9	1.1	1.4	2.5	5.3	43.2	92.4	274.9	210.5	485.4
1988	9.7	8.4	18.1	132.0	32.5	1.1	1.6	2.5	5.3	43.0	97.0	290.1	219.0	509.1
1989	9.9	8.9	18.9	137.4	42.5	0.8	1.7	2.4	2.5	49.9	100.6	306.8	225.8	532.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 246. Industrial Energy Consumption Estimates, 1960–1989, Pennsylvania

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**31,074**	**2,066**	**33,140**	**213**	**4,731**	**8,645**	**503**	**992**	**1,432**	**1,456**	**29,692**	**11,696**	**59,148**	**16**	**20,693**	**51,470**
1961	28,345	1,837	30,182	218	4,740	9,047	601	1,172	1,394	1,613	27,189	12,264	58,020	17	21,225	51,730
1962	30,069	1,755	31,824	226	4,859	9,649	540	1,188	1,754	1,643	27,700	11,971	59,302	15	22,695	54,559
1963	32,012	1,937	33,949	251	4,935	10,184	535	1,323	1,754	1,507	27,507	12,548	60,293	14	24,373	58,286
1964	36,303	2,204	38,508	270	5,348	10,067	720	1,387	1,842	1,510	28,048	14,461	63,381	15	27,053	64,429
1965	**38,049**	**1,961**	**40,010**	**285**	**6,201**	**11,641**	**858**	**1,383**	**2,419**	**1,480**	**29,434**	**15,079**	**68,494**	**15**	**29,075**	**69,421**
1966	38,096	1,704	39,800	307	5,900	11,582	697	1,511	2,513	1,392	30,670	14,595	68,859	18	31,529	75,654
1967	36,696	1,699	38,395	290	6,392	11,888	725	1,521	2,104	1,317	26,651	13,568	64,166	15	32,277	77,110
1968	36,571	1,513	38,084	316	6,593	10,650	780	2,054	2,311	1,322	26,191	14,480	64,383	14	35,114	83,781
1969	33,518	1,295	34,812	343	6,429	10,822	627	2,198	2,472	1,289	25,218	14,804	63,859	15	38,050	90,890
1970	**34,668**	**1,085**	**35,753**	**340**	**6,600**	**10,196**	**589**	**2,396**	**2,518**	**1,181**	**27,132**	**14,901**	**65,513**	**12**	**38,993**	**94,494**
1971	29,216	862	30,078	350	6,660	9,894	743	2,542	2,309	1,327	27,448	14,297	65,219	6	39,848	96,337
1972	28,887	629	29,516	368	7,153	10,256	828	3,033	2,472	1,153	27,881	14,974	67,751	1	42,641	102,639
1973	30,245	600	30,845	350	6,976	11,572	460	3,261	3,621	1,142	29,864	15,381	72,277	1	46,201	110,607
1974	29,653	632	30,285	312	6,678	11,362	894	3,220	3,468	1,167	28,339	15,090	70,218	1	45,854	111,803
1975	**27,807**	**703**	**28,510**	**263**	**5,663**	**11,033**	**1,198**	**3,439**	**2,255**	**1,098**	**21,941**	**15,508**	**62,135**	**1**	**41,256**	**99,516**
1976	27,630	784	28,413	277	6,305	12,581	1,206	3,604	2,505	1,093	25,286	17,575	70,155	1	43,610	105,049
1977	24,732	673	25,405	256	6,569	13,872	555	3,931	2,755	1,022	27,630	18,761	75,094	*	44,839	108,274
1978	24,313	575	24,888	252	6,330	12,583	711	4,618	2,958	830	23,133	19,726	70,890	1	45,949	112,414
1979	27,190	426	27,616	313	6,354	15,239	719	6,717	3,096	1,108	18,744	20,145	72,122	1	47,943	115,702
1980	**21,312**	**565**	**21,877**	**337**	**5,148**	**11,128**	**208**	**5,238**	**2,756**	**586**	**11,555**	**19,176**	**55,796**	**1**	**46,045**	**111,966**
1981	18,689	356	19,045	333	5,424	10,081	476	5,251	2,644	1,218	7,777	15,747	48,618	1	46,596	111,052
1982	10,570	220	10,790	264	5,400	8,920	502	4,862	2,411	1,122	8,190	14,635	46,043	1	40,280	96,747
1983	12,187	132	12,319	246	3,985	6,238	211	4,467	2,524	732	3,888	15,940	37,985	1	41,047	98,340
1984	16,105	178	16,283	248	4,061	6,398	124	5,112	2,691	558	3,771	16,922	39,637	1	44,061	102,318
1985	**13,526**	**190**	**13,716**	**231**	**4,913**	**5,762**	**156**	**3,982**	**2,508**	**1,276**	**1,824**	**15,727**	**36,148**	**1**	**42,520**	**99,710**
1986	10,856	225	11,081	207	5,956	6,590	226	5,837	2,453	1,259	3,228	14,801	40,350	1	42,020	96,342
1987	12,403	187	12,590	232	6,572	7,709	253	5,386	2,773	1,311	3,890	16,259	44,152	1	43,989	100,253
1988	13,998	228	14,225	234	5,473	6,838	163	3,187	2,674	1,387	3,252	17,952	40,926	1	46,291	104,539
1989	13,800	216	14,016	247	6,718	6,332	124	3,819	2,743	1,342	2,454	18,114	41,646	1	45,916	102,994

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu																	
1960	**822.1**	**51.1**	**873.1**	**220.0**	**31.4**	**50.4**	**2.9**	**4.0**	**8.7**	**7.6**	**186.7**	**70.0**	**361.6**	**0.2**	**70.6**	**1,525.5**	**175.6**	**1,701.1**
1961	749.2	45.7	794.9	225.4	31.5	52.7	3.4	4.7	8.5	8.5	170.9	73.4	353.5	0.2	72.4	1,446.4	176.5	1,622.9
1962	794.0	43.3	837.3	233.5	32.2	56.2	3.1	4.8	10.6	8.6	174.1	71.6	361.3	0.2	77.4	1,509.7	186.2	1,695.9
1963	845.5	46.7	892.2	260.9	32.7	59.3	3.0	5.3	10.6	7.9	172.9	75.0	366.9	0.1	83.2	1,603.2	198.9	1,802.1
1964	959.5	53.3	1,012.7	280.0	35.5	58.6	4.1	5.6	11.2	7.9	176.3	85.0	384.2	0.2	92.3	1,769.5	219.8	1,989.3
1965	**1,005.6**	**47.7**	**1,053.3**	**296.1**	**41.2**	**67.8**	**4.9**	**5.5**	**14.7**	**7.8**	**185.0**	**88.6**	**415.5**	**0.2**	**99.2**	**1,864.2**	**236.9**	**2,101.1**
1966	1,004.5	41.2	1,045.8	318.2	39.1	67.5	4.0	6.1	15.2	7.3	192.8	85.9	417.9	0.2	107.6	1,889.6	258.1	2,147.7
1967	966.3	39.9	1,006.3	299.8	42.4	69.2	4.1	5.8	12.8	6.9	167.6	79.9	388.7	0.2	110.1	1,805.1	263.1	2,068.2
1968	962.8	35.2	998.1	326.9	43.7	62.0	4.4	7.8	14.0	6.9	164.7	85.2	388.9	0.1	119.8	1,833.8	285.9	2,119.7
1969	880.9	30.0	910.9	354.1	42.7	63.0	3.6	8.4	15.0	6.8	158.5	87.0	385.0	0.2	129.8	1,780.0	310.1	2,090.1
1970	**906.7**	**25.5**	**932.1**	**351.2**	**43.8**	**59.4**	**3.3**	**9.1**	**15.3**	**6.2**	**170.6**	**87.5**	**395.2**	**0.1**	**133.0**	**1,811.7**	**322.4**	**2,134.1**
1971	761.2	20.3	781.6	361.7	44.2	57.6	4.2	9.6	14.0	7.0	172.6	83.9	393.1	0.1	136.0	1,672.3	328.7	2,001.0
1972	754.9	14.7	769.6	380.1	47.5	59.7	4.7	11.4	15.0	6.1	175.3	87.8	407.5	*	145.5	1,702.6	350.2	2,052.8
1973	790.6	13.6	804.2	362.2	46.3	67.4	2.6	12.2	22.0	6.0	187.8	90.2	434.4	*	157.6	1,758.5	377.4	2,135.9
1974	774.8	14.1	788.9	319.9	44.3	66.2	5.1	12.0	21.0	6.1	178.2	88.4	421.3	*	156.5	1,686.6	381.5	2,068.1
1975	**727.5**	**15.6**	**743.1**	**269.8**	**37.6**	**64.3**	**6.8**	**12.8**	**13.7**	**5.8**	**137.9**	**91.2**	**370.0**	*	**140.8**	**1,523.7**	**339.5**	**1,863.3**
1976	727.6	17.7	745.3	283.4	41.8	73.3	6.8	13.4	15.2	5.7	159.0	102.8	418.0	*	148.8	1,595.6	358.4	1,954.0
1977	650.9	16.2	667.1	260.9	43.6	80.8	3.1	14.5	16.7	5.4	173.7	109.7	447.5	*	153.0	1,528.5	369.4	1,897.9
1978	639.2	14.0	653.2	257.5	42.0	73.3	4.0	16.9	17.9	4.4	145.4	115.2	419.2	*	156.8	1,486.7	383.6	1,870.3
1979	715.1	10.3	725.5	319.1	42.2	88.8	4.1	24.7	18.8	5.8	117.8	116.9	419.1	*	163.6	1,627.2	394.8	2,022.0
1980	**560.2**	**12.8**	**573.1**	**344.0**	**34.2**	**64.8**	**1.2**	**19.2**	**16.7**	**3.1**	**72.6**	**110.7**	**322.6**	*	**157.1**	**1,396.7**	**382.0**	**1,778.8**
1981	490.5	8.5	499.0	340.7	36.0	58.7	2.7	19.1	16.0	6.4	48.9	91.8	279.7	*	159.0	1,278.3	378.9	1,657.2
1982	275.1	5.4	280.5	271.3	35.8	52.0	2.8	17.6	14.6	5.9	51.5	86.0	266.2	*	137.4	955.5	330.1	1,285.6
1983	318.7	3.2	321.9	252.7	26.4	36.3	1.2	16.1	15.3	3.8	24.4	94.1	217.8	*	140.1	932.5	335.5	1,268.0
1984	422.0	4.5	426.5	256.6	26.9	37.3	0.7	18.4	16.3	2.9	23.7	98.2	224.5	*	150.3	1,057.9	349.1	1,407.0
1985	**354.8**	**4.4**	**359.2**	**238.7**	**32.6**	**33.6**	**0.9**	**14.3**	**15.2**	**6.7**	**11.5**	**92.4**	**207.2**	*	**145.1**	**950.2**	**340.2**	**1,290.4**
1986	283.8	5.5	289.3	214.3	39.5	38.4	1.3	21.2	14.9	6.6	20.3	88.2	230.4	*	143.4	877.4	328.7	1,206.2
1987	325.2	4.9	330.1	240.5	43.6	44.9	1.4	19.7	16.8	6.9	24.5	95.6	253.4	*	150.1	974.1	342.1	1,316.2
1988	368.0	5.9	373.9	242.0	36.3	39.8	0.9	11.6	16.2	7.3	20.4	105.4	238.1	*	157.9	1,012.0	356.7	1,368.7
1989	362.3	5.9	368.2	256.5	44.6	36.9	0.7	14.1	16.6	7.1	15.4	105.8	241.1	*	156.7	1,022.4	351.4	1,373.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 247. Transportation Energy Consumption Estimates, 1960-1989, Pennsylvania

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**547**	**15**	**1,994**	**7,662**	**1,036**	**20**	**1,343**	**76,565**	**5,005**	**93,625**	**313**	**779**		
1961	131	13	2,418	8,159	1,448	22	1,307	75,136	4,055	92,544	319	776		
1962	123	15	1,864	7,078	1,822	33	1,113	77,504	5,577	94,992	304	732		
1963	122	17	2,263	8,345	2,103	44	1,113	78,536	6,290	98,695	266	636		
1964	137	18	1,939	8,979	2,343	52	1,169	79,225	6,718	100,425	238	566		
1965	**127**	**19**	**1,922**	**8,900**	**3,406**	**60**	**1,121**	**81,658**	**4,554**	**101,622**	**222**	**530**		
1966	115	21	1,505	9,529	3,826	78	1,165	84,063	5,129	105,294	226	542		
1967	90	24	994	9,608	5,693	79	1,172	88,030	5,716	111,293	195	465		
1968	81	24	942	11,610	7,070	77	1,287	93,762	5,789	120,536	167	399		
1969	57	25	767	12,071	8,611	95	1,302	94,899	4,618	122,364	148	354		
1970	**56**	**27**	**662**	**12,662**	**9,083**	**134**	**1,327**	**98,082**	**5,548**	**127,497**	**149**	**360**		
1971	39	28	623	12,164	8,552	160	1,320	103,900	6,024	132,742	161	388		
1972	30	28	599	14,488	8,449	161	1,413	112,575	5,109	142,794	157	379		
1973	22	22	573	16,854	9,067	176	1,174	111,839	6,315	145,999	156	375		
1974	15	21	542	17,478	8,825	179	1,125	106,340	6,048	140,537	178	435		
1975	**5**	**18**	**426**	**16,566**	**8,469**	**157**	**1,094**	**106,357**	**5,788**	**138,857**	**196**	**472**		
1976	2	22	425	18,742	8,436	187	1,215	115,655	6,227	150,887	200	482		
1977	2	23	436	19,258	8,498	216	1,312	118,036	6,346	154,102	192	464		
1978	0	24	382	20,260	8,945	237	1,408	119,584	5,007	155,822	172	420		
1979	0	26	342	21,501	9,890	172	1,474	114,074	4,755	152,208	192	463		
1980	**0**	**29**	**337**	**21,539**	**10,148**	**147**	**1,312**	**107,026**	**4,796**	**145,306**	**178**	**434**		
1981	0	34	278	18,709	9,017	234	1,259	102,264	5,177	136,939	177	422		
1982	0	31	197	17,161	8,624	216	1,148	100,522	1,624	129,491	184	443		
1983	0	29	210	18,041	9,152	257	1,202	101,281	1,638	131,781	256	614		
1984	0	34	186	19,479	10,465	271	1,281	101,209	1,552	134,443	289	671		
1985	**0**	**33**	**208**	**20,087**	**10,126**	**192**	**1,194**	**100,231**	**1,987**	**134,025**	**335**	**786**		
1986	0	33	251	21,378	9,915	149	1,168	102,387	2,959	138,208	345	790		
1987	0	36	147	23,731	10,530	130	1,320	104,587	3,405	143,850	324	738		
1988	0	37	189	24,872	11,705	139	1,273	109,015	3,819	151,012	345	779		
1989	0	27	177	23,728	9,661	142	1,306	107,068	3,098	145,179	345	774		
							Trillion Btu					Net Energy[4]		Total[4]
1960	**14.0**	**15.6**	**10.1**	**44.6**	**5.7**	**0.1**	**8.1**	**402.2**	**31.5**	**502.3**	**1.1**	**533.0**	**2.7**	**535.7**
1961	3.4	13.1	12.2	47.5	8.1	0.1	7.9	394.7	25.5	496.0	1.1	513.6	2.6	516.2
1962	3.1	15.7	9.4	41.2	10.2	0.1	6.8	407.1	35.1	509.9	1.0	529.8	2.5	532.3
1963	3.1	17.5	11.4	48.6	11.8	0.2	6.7	412.6	39.5	530.8	0.9	552.4	2.2	554.5
1964	3.5	19.0	9.8	52.3	13.1	0.2	7.1	416.2	42.2	540.9	0.8	564.2	1.9	566.1
1965	**3.2**	**20.1**	**9.7**	**51.8**	**19.2**	**0.2**	**6.8**	**429.0**	**28.6**	**545.4**	**0.8**	**569.4**	**1.8**	**571.2**
1966	2.9	21.8	7.6	55.5	21.6	0.3	7.1	441.6	32.2	565.9	0.8	591.3	1.8	593.2
1967	2.2	24.4	5.0	56.0	32.1	0.3	7.1	462.4	35.9	598.9	0.7	626.2	1.6	627.8
1968	2.0	24.3	4.8	67.6	39.9	0.3	7.8	492.5	36.4	649.3	0.6	676.2	1.4	677.6
1969	1.4	26.1	3.9	70.3	48.7	0.4	7.9	498.5	29.0	658.7	0.5	686.7	1.2	687.9
1970	**1.3**	**27.5**	**3.3**	**73.8**	**51.4**	**0.5**	**8.0**	**515.2**	**34.9**	**687.1**	**0.5**	**716.5**	**1.2**	**717.8**
1971	0.9	28.8	3.1	70.9	48.4	0.6	8.0	545.8	37.9	714.6	0.5	744.9	1.3	746.2
1972	0.7	28.5	3.0	84.4	47.8	0.6	8.6	591.4	32.1	767.9	0.5	797.6	1.3	798.8
1973	0.5	23.2	2.9	98.2	51.3	0.7	7.1	587.5	39.7	787.4	0.5	811.6	1.3	812.9
1974	0.4	21.4	2.7	101.8	49.9	0.7	6.8	558.6	38.0	758.6	0.6	781.0	1.5	782.5
1975	**0.1**	**18.1**	**2.1**	**96.5**	**47.9**	**0.6**	**6.6**	**558.7**	**36.4**	**748.9**	**0.7**	**767.8**	**1.6**	**769.4**
1976	0.1	22.1	2.1	109.2	47.7	0.7	7.4	607.5	39.1	813.8	0.7	836.7	1.6	838.3
1977	*	23.7	2.2	112.2	48.1	0.8	8.0	620.0	39.9	831.2	0.7	855.6	1.6	857.2
1978	0.0	25.0	1.9	118.0	50.6	0.9	8.5	628.2	31.5	839.6	0.6	865.2	1.4	866.6
1979	0.0	26.8	1.7	125.2	56.0	0.6	8.9	599.2	29.9	821.6	0.7	849.1	1.6	850.6
1980	**0.0**	**30.1**	**1.7**	**125.5**	**57.4**	**0.5**	**8.0**	**562.2**	**30.2**	**785.4**	**0.6**	**816.2**	**1.5**	**817.7**
1981	0.0	34.5	1.4	109.0	51.0	0.9	7.6	537.2	32.6	739.6	0.6	774.7	1.4	776.2
1982	0.0	32.0	1.0	100.0	48.8	0.8	7.0	528.0	10.2	695.7	0.6	728.4	1.5	729.9
1983	0.0	30.1	1.1	105.1	51.8	0.9	7.3	532.0	10.3	708.4	0.9	739.4	2.1	741.5
1984	0.0	35.7	0.9	113.5	59.2	1.0	7.8	531.7	9.8	723.8	1.0	760.4	2.3	762.7
1985	**0.0**	**34.1**	**1.0**	**117.0**	**57.3**	**0.7**	**7.2**	**526.5**	**12.5**	**722.3**	**1.1**	**757.5**	**2.7**	**760.2**
1986	0.0	34.2	1.3	124.5	56.1	0.5	7.1	537.8	18.6	745.9	1.2	781.3	2.7	784.0
1987	0.0	37.3	0.7	138.2	59.6	0.5	8.0	549.4	21.4	777.8	1.1	816.3	2.5	818.8
1988	0.0	38.3	1.0	144.9	66.2	0.5	7.7	572.7	24.0	817.0	1.2	856.5	2.7	859.1
1989	0.0	28.4	0.9	138.2	54.6	0.5	7.9	562.4	19.5	784.1	1.2	813.6	2.6	816.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 248. Estimates of Energy Input at Electric Utilities, 1960-1989, Pennsylvania

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**15,435**	**2,627**	**18,062**	**6**	**2,747**	**485**	**0**	**3,232**	**230**	**1,810**	**0**	**0**	
1961	15,921	2,427	18,348	3	2,767	488	0	3,255	305	1,472	0	0	
1962	17,186	2,238	19,423	2	2,549	450	0	2,998	320	1,504	0	0	
1963	18,000	2,139	20,138	4	2,864	505	0	3,370	355	1,266	0	0	
1964	19,919	2,235	22,154	5	2,719	480	0	3,198	25	1,267	0	0	
1965	**21,024**	**2,158**	**23,182**	**1**	**3,351**	**591**	**0**	**3,943**	**313**	**1,313**	**0**	**0**	
1966	21,954	2,192	24,146	1	5,713	1,008	0	6,721	525	1,425	0	0	
1967	22,452	2,186	24,637	2	7,157	1,263	0	8,420	603	1,899	0	0	
1968	24,211	2,203	26,414	4	9,035	1,594	0	10,630	468	1,168	0	0	
1969	24,623	1,850	26,473	7	17,630	3,111	0	20,741	415	902	0	0	
1970	**27,245**	**1,897**	**29,141**	**9**	**22,502**	**3,959**	**0**	**26,460**	**465**	**1,354**	**0**	**0**	
1971	30,592	1,646	32,238	10	22,013	4,276	0	26,289	445	772	0	0	
1972	33,469	1,584	35,053	5	22,105	4,949	0	27,053	288	1,533	0	0	
1973	37,351	1,443	38,794	3	17,686	3,586	0	21,272	361	1,371	0	0	
1974	33,554	1,498	35,052	8	17,428	5,824	0	23,252	6,998	1,392	0	0	
1975	**35,180**	**1,480**	**36,659**	**1**	**10,273**	**3,419**	**0**	**13,691**	**15,869**	**1,575**	**0**	**0**	
1976	36,097	1,350	37,447	*	14,668	2,933	0	17,600	16,425	1,415	0	0	
1977	35,026	1,425	36,451	*	21,567	3,584	0	25,151	17,821	1,205	0	0	
1978	35,312	1,064	36,376	*	26,234	3,692	1,314	31,240	22,329	759	0	0	
1979	40,402	1,046	41,448	2	19,797	1,958	625	22,380	18,796	1,221	0	0	
1980	**41,515**	**951**	**42,466**	**3**	**17,226**	**2,238**	**316**	**19,780**	**12,091**	**734**	**0**	**0**	
1981	38,656	1,029	39,685	3	15,334	1,735	337	17,405	14,276	659	0	0	
1982	38,898	1,075	39,972	2	9,949	1,442	459	11,850	16,472	1,828	0	0	
1983	39,010	1,036	40,046	2	17,049	2,182	950	20,182	14,718	1,169	0	0	
1984	39,766	1,070	40,836	3	13,967	2,073	904	16,944	21,564	1,446	0	0	
1985	**40,681**	**1,033**	**41,713**	**2**	**11,622**	**1,423**	**782**	**13,827**	**26,232**	**971**	**0**	**0**	
1986	39,760	829	40,589	1	13,005	1,436	891	15,332	39,820	1,452	0	0	
1987	40,291	972	41,263	2	11,231	1,567	1,085	13,882	34,982	1,131	0	0	
1988	42,103	1,063	43,166	3	10,980	1,673	1,230	13,883	37,862	705	0	0	
1989	42,191	1,049	43,241	4	11,228	1,979	1,135	14,342	39,166	1,290	0	0	
	Trillion Btu												
1960	**377.3**	**46.0**	**423.3**	**6.2**	**17.3**	**2.8**	**0.0**	**20.1**	**2.7**	**19.5**	**0.0**	**0.0**	**471.7**
1961	391.5	42.5	433.9	2.7	17.4	2.8	0.0	20.2	3.5	15.7	0.0	0.0	476.1
1962	423.7	39.2	462.8	2.0	16.0	2.6	0.0	18.6	3.7	15.9	0.0	0.0	503.1
1963	446.2	37.4	483.6	4.3	18.0	2.9	0.0	21.0	4.2	13.3	0.0	0.0	526.4
1964	493.9	39.1	533.0	4.9	17.1	2.8	0.0	19.9	0.3	13.3	0.0	0.0	571.3
1965	**520.8**	**37.8**	**558.6**	**1.3**	**21.1**	**3.4**	**0.0**	**24.5**	**3.7**	**13.7**	**0.0**	**0.0**	**601.8**
1966	540.9	38.4	579.3	1.2	35.9	5.9	0.0	41.8	6.1	14.8	0.0	0.0	643.2
1967	550.8	38.3	589.0	2.5	45.0	7.4	0.0	52.4	7.0	19.8	0.0	0.0	670.6
1968	591.7	38.6	630.3	4.5	56.8	9.3	0.0	66.1	5.3	12.1	0.0	0.0	718.3
1969	599.1	32.4	631.5	7.4	110.8	18.1	0.0	129.0	4.6	9.4	0.0	0.0	781.8
1970	**647.0**	**33.2**	**680.2**	**9.7**	**141.5**	**23.1**	**0.0**	**164.5**	**5.1**	**14.2**	**0.0**	**0.0**	**873.7**
1971	726.7	28.8	755.5	10.1	138.4	24.9	0.0	163.3	4.8	8.1	0.0	0.0	941.8
1972	804.1	27.7	831.8	5.6	139.0	28.8	0.0	167.8	3.1	15.9	0.0	0.0	1,024.2
1973	903.7	25.9	929.5	2.6	111.2	20.9	0.0	132.1	3.9	14.2	0.0	0.0	1,082.4
1974	795.8	25.8	821.5	8.1	109.6	33.9	0.0	143.5	78.1	14.5	0.0	0.0	1,065.7
1975	**836.2**	**25.2**	**861.4**	**1.2**	**64.6**	**19.9**	**0.0**	**84.5**	**174.8**	**16.4**	**0.0**	**0.0**	**1,138.3**
1976	872.9	23.7	896.6	0.5	92.2	17.1	0.0	109.3	181.4	14.7	0.0	0.0	1,202.5
1977	845.8	24.6	870.4	0.3	135.6	20.9	0.0	156.5	191.9	12.6	0.0	0.0	1,231.7
1978	854.6	18.2	872.8	0.4	164.9	21.5	7.9	194.4	244.3	7.9	0.0	0.0	1,319.8
1979	980.9	18.3	999.1	1.9	124.5	11.4	3.8	139.6	204.5	12.6	0.0	0.0	1,357.7
1980	**1,009.9**	**16.8**	**1,026.7**	**2.9**	**108.3**	**13.0**	**1.9**	**123.2**	**131.9**	**7.6**	**0.0**	**0.0**	**1,292.3**
1981	935.3	18.7	954.0	3.3	96.4	10.1	2.0	108.5	157.5	6.9	0.0	0.0	1,230.2
1982	949.5	19.5	969.0	1.6	62.5	8.4	2.8	73.7	182.4	19.1	0.0	0.0	1,245.8
1983	962.1	17.1	979.2	1.7	107.2	12.7	5.7	125.6	160.5	12.3	0.0	0.0	1,279.3
1984	979.5	18.2	997.7	2.6	87.8	12.1	5.4	105.3	233.8	14.9	0.0	0.0	1,354.4
1985	**1,002.3**	**17.3**	**1,019.7**	**1.6**	**73.1**	**8.3**	**4.7**	**86.1**	**283.6**	**10.0**	**0.0**	**0.0**	**1,401.0**
1986	980.9	12.9	993.8	0.7	81.8	8.4	5.4	95.5	430.0	14.9	0.0	0.0	1,534.9
1987	995.5	15.5	1,011.0	2.1	70.6	9.1	6.5	86.3	377.0	11.6	0.0	0.0	1,487.9
1988	1,037.9	18.4	1,056.3	2.7	69.0	9.7	7.4	86.2	406.8	7.2	0.0	0.0	1,559.2
1989	1,040.8	17.1	1,057.9	4.1	70.6	11.5	6.8	89.0	420.0	13.3	0.0	0.0	1,584.4

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 249. Energy Consumption Estimates by Source, 1960–1989, Rhode Island

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**598**	**12**	**735**	**19**	**8,106**	**38**	**886**	**207**	**155**	**5,975**	**9,827**	**202**	**26,150**	**0**	**9**	**0**	**0**	**467**	
1961	538	13	882	22	7,554	42	848	210	151	6,038	7,650	54	23,450	0	8	0	0	1,366	
1962	536	14	843	60	7,407	44	868	273	139	6,199	8,310	201	24,344	0	5	0	0	1,853	
1963	481	15	737	47	7,354	45	787	303	139	6,319	8,132	233	24,096	0	4	0	0	2,500	
1964	401	15	1,000	49	6,277	46	490	267	146	6,294	8,278	312	23,157	0	4	0	0	3,644	
1965	**419**	**16**	**907**	**63**	**6,879**	**49**	**666**	**223**	**153**	**6,492**	**6,276**	**320**	**22,028**	**0**	**2**	**0**	**0**	**4,095**	
1966	389	17	831	89	6,487	78	718	203	159	6,731	6,403	316	22,016	0	2	0	0	4,813	
1967	242	18	695	89	7,160	91	618	234	122	6,862	9,208	261	25,340	0	5	0	0	4,689	
1968	123	21	1,059	148	7,756	133	500	231	135	7,300	8,220	281	25,762	0	5	0	0	5,662	
1969	10	23	983	149	8,530	124	489	329	123	7,469	9,264	292	27,752	0	4	0	0	6,266	
1970	**10**	**25**	**937**	**148**	**8,631**	**137**	**432**	**375**	**125**	**8,009**	**9,727**	**295**	**28,815**	**0**	**3**	**0**	**0**	**7,135**	
1971	9	26	1,102	157	9,073	125	423	363	122	8,220	10,100	175	29,862	0	1	0	0	8,921	
1972	7	22	799	181	9,301	174	383	428	131	8,604	9,744	187	29,931	0	6	0	0	10,379	
1973	7	21	1,306	221	8,881	175	230	449	134	8,625	8,440	197	28,658	0	5	0	0	11,808	
1974	40	24	1,151	139	8,288	165	175	408	128	8,719	6,381	198	25,752	0	4	0	0	11,109	
1975	**7**	**23**	**1,330**	**285**	**8,003**	**271**	**128**	**498**	**97**	**8,972**	**4,389**	**94**	**24,066**	**0**	**3**	**0**	**0**	**12,289**	
1976	6	21	1,282	226	8,633	241	183	549	108	8,813	4,478	292	24,805	0	3	0	0	14,515	
1977	5	26	1,429	157	8,401	209	128	600	132	9,207	4,738	345	25,346	0	4	0	0	14,364	
1978	5	23	1,295	200	7,887	260	115	518	141	9,098	3,671	371	23,555	0	4	0	0	14,903	
1979	5	27	1,014	241	7,237	312	96	317	148	8,873	2,178	451	20,866	0	3	0	0	15,065	
1980	**7**	**28**	**1,041**	**269**	**5,032**	**348**	**84**	**293**	**132**	**8,416**	**2,525**	**480**	**18,620**	**0**	**1**	**0**	**0**	**14,042**	
1981	8	29	996	23	3,983	303	54	278	126	8,519	2,204	215	16,701	0	*	0	0	13,969	
1982	8	28	1,203	28	3,972	281	125	328	115	8,415	1,649	164	16,279	0	3	0	0	14,943	
1983	7	29	1,212	23	4,706	329	60	330	121	8,299	1,465	142	16,688	0	3	0	0	15,254	
1984	9	32	1,336	21	4,901	571	40	312	129	8,562	1,385	158	17,415	0	2	0	0	15,524	
1985	**9**	**30**	**2,974**	**30**	**4,452**	**498**	**61**	**497**	**120**	**8,663**	**1,768**	**156**	**19,219**	**0**	**421**	**0**	**0**	**14,783**	
1986	28	26	1,479	35	5,302	387	85	583	117	8,938	2,921	71	19,918	0	6	0	0	15,874	
1987	5	36	1,773	42	6,055	528	63	622	133	9,119	1,959	79	20,371	0	9	0	0	16,316	
1988	175	31	1,741	46	5,935	636	53	568	128	9,289	2,682	62	21,139	0	678	0	0	15,348	
1989	27	34	1,605	46	5,902	724	31	515	131	8,869	1,172	59	19,054	0	96	0	0	18,376	
										Trillion Btu									
1960	**16.8**	**12.3**	**4.9**	**0.1**	**47.2**	**0.2**	**5.0**	**0.8**	**0.9**	**31.4**	**61.8**	**1.2**	**153.6**	**0.0**	**0.1**	**0.0**	**0.0**	**1.6**	**184.2**
1961	15.1	13.2	5.9	0.1	44.0	0.2	4.8	0.8	0.9	31.7	48.1	0.3	136.9	0.0	0.1	0.0	0.0	4.7	170.0
1962	15.0	14.3	5.6	0.3	43.1	0.2	4.9	1.1	0.8	32.6	52.2	1.2	142.1	0.0	0.1	0.0	0.0	6.3	177.7
1963	13.3	15.3	4.9	0.2	42.8	0.2	4.5	1.2	0.8	33.2	51.1	1.4	140.4	0.0	*	0.0	0.0	8.5	177.6
1964	11.0	16.1	6.6	0.2	36.6	0.2	2.8	1.1	0.9	33.1	52.0	1.8	135.3	0.0	*	0.0	0.0	12.4	174.9
1965	**11.5**	**17.0**	**6.0**	**0.3**	**40.1**	**0.3**	**3.8**	**0.9**	**0.9**	**34.1**	**39.5**	**1.8**	**127.7**	**0.0**	*****	**0.0**	**0.0**	**14.0**	**170.1**
1966	10.6	17.4	5.5	0.5	37.8	0.4	4.1	0.8	1.0	35.4	40.3	1.8	127.5	0.0	*	0.0	0.0	16.4	171.9
1967	6.5	19.3	4.6	0.4	41.7	0.5	3.5	0.9	0.7	36.0	57.9	1.5	147.8	0.0	0.1	0.0	0.0	16.0	189.7
1968	3.3	21.6	7.0	0.7	45.2	0.7	2.8	0.9	0.8	38.3	51.7	1.6	149.8	0.0	*	0.0	0.0	19.3	194.1
1969	0.2	23.5	6.5	0.8	49.7	0.7	2.8	1.3	0.7	39.2	58.2	1.6	161.5	0.0	*	0.0	0.0	21.4	206.7
1970	**0.2**	**25.6**	**6.2**	**0.7**	**50.3**	**0.8**	**2.4**	**1.4**	**0.8**	**42.1**	**61.2**	**1.7**	**167.5**	**0.0**	*****	**0.0**	**0.0**	**24.3**	**217.7**
1971	0.2	26.2	7.3	0.8	52.9	0.7	2.4	1.4	0.7	43.2	63.5	1.0	173.9	0.0	*	0.0	0.0	30.4	230.7
1972	0.2	23.0	5.3	0.9	54.2	1.0	2.2	1.6	0.8	45.2	61.3	1.1	173.5	0.0	0.1	0.0	0.0	35.4	232.1
1973	0.1	20.9	8.7	1.1	51.7	1.0	1.3	1.7	0.8	45.3	53.1	1.1	165.8	0.0	*	0.0	0.0	40.3	227.2
1974	1.0	24.1	7.6	0.7	48.3	0.9	1.0	1.5	0.8	45.8	40.1	1.1	147.9	0.0	*	0.0	0.0	37.9	210.9
1975	**0.1**	**23.5**	**8.8**	**1.4**	**46.6**	**1.5**	**0.7**	**1.8**	**0.6**	**47.1**	**27.6**	**0.5**	**136.8**	**0.0**	*****	**0.0**	**0.0**	**41.9**	**202.4**
1976	0.1	21.0	8.5	1.1	50.3	1.4	1.0	2.0	0.7	46.3	28.2	1.6	141.1	0.0	*	0.0	0.0	49.5	211.8
1977	0.1	26.0	9.5	0.8	48.9	1.2	0.7	2.2	0.8	48.4	29.8	1.9	144.2	0.0	*	0.0	0.0	49.0	219.3
1978	0.1	23.3	8.6	1.0	45.9	1.5	0.7	1.9	0.9	47.8	23.1	2.1	133.4	0.0	*	0.0	0.0	50.8	207.7
1979	0.1	27.5	6.7	1.2	42.2	1.8	0.5	1.2	0.9	46.6	13.7	2.5	117.3	0.0	*	0.0	0.0	51.4	196.4
1980	**0.2**	**28.2**	**6.9**	**1.4**	**29.3**	**2.0**	**0.5**	**1.1**	**0.8**	**44.2**	**15.9**	**2.6**	**104.6**	**0.0**	*****	**0.0**	**0.0**	**47.9**	**180.9**
1981	0.2	29.8	6.6	0.1	23.2	1.7	0.3	1.0	0.8	44.8	13.9	1.2	93.5	0.0	*	0.0	0.0	47.7	171.2
1982	0.2	28.9	8.0	0.1	23.1	1.6	0.7	1.2	0.7	44.2	10.4	0.9	90.9	0.0	*	0.0	0.0	51.0	171.0
1983	0.2	30.1	8.0	0.1	27.4	1.9	0.3	1.2	0.7	43.6	9.2	0.8	93.3	0.0	*	0.0	0.0	52.0	175.6
1984	0.2	32.6	8.9	0.1	28.5	3.2	0.2	1.1	0.8	45.0	8.7	0.9	97.4	0.0	*	0.0	0.0	53.0	183.3
1985	**0.2**	**30.9**	**19.7**	**0.2**	**25.9**	**2.8**	**0.3**	**1.8**	**0.7**	**45.5**	**11.1**	**0.8**	**109.0**	**0.0**	**4.3**	**0.0**	**0.0**	**50.4**	**194.8**
1986	0.7	27.1	9.8	0.2	30.9	2.2	0.5	2.1	0.7	47.0	18.4	0.4	112.1	0.0	0.1	0.0	0.0	54.2	194.1
1987	0.1	36.9	11.8	0.2	35.3	3.0	0.4	2.3	0.8	47.9	12.3	0.4	114.3	0.0	0.1	0.0	0.0	55.7	207.1
1988	4.4	31.6	11.6	0.2	34.6	3.6	0.3	2.1	0.8	48.8	16.9	0.3	119.1	0.0	6.9	0.0	0.0	52.4	214.4
1989	0.7	34.9	10.6	0.2	34.4	4.1	0.2	1.9	0.8	46.6	7.4	0.3	106.5	0.0	1.0	0.0	0.0	62.7	205.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 250. Residential Energy Consumption Estimates, 1960-1989, Rhode Island

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**0**	**12**	**12**	**7**	**5,507**	**770**	**149**	**6,426**	**620**	**1,542**		
1961	0	11	11	7	5,326	738	149	6,212	669	1,630		
1962	0	10	10	8	5,170	708	192	6,070	708	1,701		
1963	0	9	9	8	5,161	656	200	6,017	757	1,810		
1964	0	9	9	9	4,325	389	178	4,892	809	1,928		
1965	**0**	**8**	**8**	**9**	**4,828**	**534**	**134**	**5,496**	**871**	**2,080**		
1966	0	7	7	9	4,433	579	127	5,140	947	2,272		
1967	0	6	6	10	4,877	452	134	5,463	1,043	2,491		
1968	0	6	6	11	5,186	397	125	5,708	1,155	2,756		
1969	0	5	5	11	5,730	381	176	6,287	1,259	3,006		
1970	**0**	**5**	**5**	**12**	**5,835**	**335**	**158**	**6,328**	**1,390**	**3,368**		
1971	0	5	5	12	6,131	328	147	6,606	1,507	3,644		
1972	0	3	3	13	6,376	305	165	6,847	1,605	3,863		
1973	0	3	3	11	6,040	178	136	6,355	1,722	4,123		
1974	0	3	3	13	5,464	125	133	5,721	1,668	4,067		
1975	**0**	**3**	**3**	**13**	**5,395**	**87**	**148**	**5,629**	**1,684**	**4,063**		
1976	0	2	2	12	5,861	117	163	6,142	1,821	4,387		
1977	0	2	2	14	5,769	76	166	6,012	1,776	4,289		
1978	0	2	2	14	5,437	66	146	5,649	1,803	4,411		
1979	0	1	1	13	4,956	46	109	5,111	1,809	4,366		
1980	**0**	**2**	**2**	**14**	**3,297**	**54**	**115**	**3,466**	**1,840**	**4,474**		
1981	0	4	4	14	2,567	47	121	2,735	1,817	4,332		
1982	0	5	5	15	2,466	123	120	2,709	1,832	4,400		
1983	*	4	4	14	2,893	57	143	3,093	1,913	4,582		
1984	0	4	4	15	2,967	36	172	3,175	1,957	4,544		
1985	**0**	**3**	**3**	**15**	**3,419**	**59**	**287**	**3,765**	**1,971**	**4,622**		
1986	0	3	3	16	2,998	82	266	3,346	2,064	4,731		
1987	0	2	2	17	3,195	58	296	3,550	2,186	4,981		
1988	0	2	2	18	3,602	44	274	3,920	2,319	5,237		
1989	0	2	2	18	3,179	28	289	3,495	2,370	5,316		
					Trillion Btu							
1960	**0.0**	**0.3**	**0.3**	**6.9**	**32.1**	**4.4**	**0.6**	**37.0**	**2.1**	**46.4**	**5.3**	**51.7**
1961	0.0	0.3	0.3	7.6	31.0	4.2	0.6	35.8	2.3	45.9	5.6	51.5
1962	0.0	0.2	0.2	8.1	30.1	4.0	0.8	34.9	2.4	45.7	5.8	51.5
1963	0.0	0.2	0.2	8.6	30.1	3.7	0.8	34.6	2.6	46.0	6.2	52.1
1964	0.0	0.2	0.2	9.0	25.2	2.2	0.7	28.1	2.8	40.0	6.6	46.6
1965	**0.0**	**0.2**	**0.2**	**9.3**	**28.1**	**3.0**	**0.5**	**31.7**	**3.0**	**44.2**	**7.1**	**51.3**
1966	0.0	0.2	0.2	9.7	25.8	3.3	0.5	29.6	3.2	42.7	7.8	50.5
1967	0.0	0.1	0.1	10.8	28.4	2.6	0.5	31.5	3.6	46.0	8.5	54.5
1968	0.0	0.1	0.1	11.1	30.2	2.3	0.5	32.9	3.9	48.1	9.4	57.5
1969	0.0	0.1	0.1	11.9	33.4	2.2	0.7	36.2	4.3	52.5	10.3	62.7
1970	**0.0**	**0.1**	**0.1**	**12.2**	**34.0**	**1.9**	**0.6**	**36.5**	**4.7**	**53.5**	**11.5**	**65.0**
1971	0.0	0.1	0.1	12.4	35.7	1.9	0.6	38.1	5.1	55.8	12.4	68.2
1972	0.0	0.1	0.1	13.6	37.1	1.7	0.6	39.5	5.5	58.6	13.2	71.8
1973	0.0	0.1	0.1	11.6	35.2	1.0	0.5	36.7	5.9	54.3	14.1	68.3
1974	0.0	0.1	0.1	13.1	31.8	0.7	0.5	33.0	5.7	51.9	13.9	65.7
1975	**0.0**	**0.1**	**0.1**	**13.2**	**31.4**	**0.5**	**0.5**	**32.5**	**5.7**	**51.5**	**13.9**	**65.4**
1976	0.0	0.1	0.1	12.5	34.1	0.7	0.6	35.4	6.2	54.2	15.0	69.1
1977	0.0	0.1	0.1	13.7	33.6	0.4	0.6	34.6	6.1	54.5	14.6	69.1
1978	0.0	*	*	13.8	31.7	0.4	0.5	32.6	6.2	52.6	15.1	67.6
1979	0.0	*	*	13.5	28.9	0.3	0.4	29.5	6.2	49.3	14.9	64.2
1980	**0.0**	*	*	**14.3**	**19.2**	**0.3**	**0.4**	**19.9**	**6.3**	**40.5**	**15.3**	**55.8**
1981	0.0	0.1	0.1	14.7	15.0	0.3	0.4	15.7	6.2	36.7	14.8	51.5
1982	0.0	0.1	0.1	15.4	14.4	0.7	0.4	15.5	6.3	37.2	15.0	52.2
1983	*	0.1	0.1	14.2	16.9	0.3	0.5	17.7	6.5	38.5	15.6	54.2
1984	0.0	0.1	0.1	15.5	17.3	0.2	0.6	18.1	6.7	40.4	15.5	55.9
1985	**0.0**	**0.1**	**0.1**	**15.5**	**19.9**	**0.3**	**1.0**	**21.3**	**6.7**	**43.6**	**15.8**	**59.3**
1986	0.0	0.1	0.1	16.6	17.5	0.5	1.0	18.9	7.0	42.6	16.1	58.7
1987	0.0	0.1	0.1	17.2	18.6	0.3	1.1	20.0	7.5	44.8	17.0	61.7
1988	0.0	*	*	18.2	21.0	0.3	1.0	22.2	7.9	48.3	17.9	66.2
1989	0.0	*	*	18.8	18.5	0.2	1.1	19.7	8.1	46.6	18.1	64.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 251. Commercial Energy Consumption Estimates, 1960-1989, Rhode Island

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours	
1960	**0**	**8**	**8**	**2**	**1,381**	**17**	**26**	**26**	**1,237**	**2,688**	**376**	**935**
1961	0	8	8	2	1,336	16	26	28	940	2,346	428	1,043
1962	0	7	7	2	1,297	15	34	30	1,168	2,544	453	1,089
1963	0	6	6	2	1,294	14	35	30	1,054	2,429	479	1,146
1964	0	6	6	2	1,085	8	31	31	1,258	2,413	513	1,222
1965	**0**	**5**	**5**	**3**	**1,211**	**12**	**24**	**32**	**634**	**1,913**	**546**	**1,304**
1966	0	4	4	2	1,112	13	22	33	608	1,788	589	1,413
1967	0	4	4	3	1,223	10	24	34	745	2,036	992	2,370
1968	0	4	4	3	1,301	9	22	35	790	2,156	1,069	2,550
1969	0	3	3	4	1,437	8	31	35	920	2,431	1,172	2,799
1970	**0**	**3**	**3**	**5**	**1,464**	**7**	**28**	**36**	**971**	**2,506**	**1,285**	**3,114**
1971	0	3	3	5	1,538	7	26	37	1,102	2,710	1,428	3,453
1972	0	2	2	5	1,599	7	29	39	1,148	2,822	1,528	3,678
1973	0	2	2	5	1,515	4	24	39	1,109	2,691	1,646	3,941
1974	0	2	2	4	1,370	3	23	39	839	2,275	1,482	3,613
1975	**0**	**2**	**2**	**4**	**1,353**	**2**	**26**	**41**	**602**	**2,024**	**1,576**	**3,801**
1976	0	2	2	3	1,470	3	29	41	790	2,333	1,693	4,078
1977	0	2	2	3	1,447	2	29	43	833	2,354	1,733	4,185
1978	0	1	1	5	1,364	1	26	43	586	2,020	1,802	4,409
1979	0	1	1	6	1,243	1	19	43	268	1,574	1,875	4,525
1980	**0**	**1**	**1**	**7**	**617**	**0**	**20**	**49**	**180**	**866**	**1,892**	**4,601**
1981	0	2	2	7	381	1	21	52	190	645	1,878	4,476
1982	0	3	3	7	433	2	21	56	225	737	1,884	4,524
1983	1	2	3	7	577	3	25	41	300	946	1,978	4,739
1984	0	3	3	7	592	3	30	29	291	946	2,075	4,818
1985	**0**	**2**	**2**	**8**	**441**	**2**	**51**	**32**	**384**	**910**	**2,159**	**5,063**
1986	0	2	2	7	806	2	47	35	722	1,612	2,268	5,199
1987	0	2	2	9	891	3	52	36	357	1,339	2,396	5,460
1988	0	1	1	8	808	1	48	35	455	1,347	2,539	5,735
1989	0	1	1	9	779	2	51	38	200	1,070	2,630	5,898

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu													
1960	**0.0**	**0.2**	**0.2**	**1.8**	**8.0**	**0.1**	**0.1**	**0.1**	**7.8**	**16.2**	**1.3**	**19.4**	**3.2**	**22.6**
1961	0.0	0.2	0.2	2.1	7.8	0.1	0.1	0.1	5.9	14.0	1.5	17.7	3.6	21.3
1962	0.0	0.2	0.2	2.3	7.6	0.1	0.1	0.2	7.3	15.3	1.5	19.3	3.7	23.0
1963	0.0	0.1	0.1	2.4	7.5	0.1	0.1	0.2	6.6	14.6	1.6	18.8	3.9	22.7
1964	0.0	0.1	0.1	2.2	6.3	*	0.1	0.2	7.9	14.6	1.8	18.7	4.2	22.8
1965	**0.0**	**0.1**	**0.1**	**2.7**	**7.1**	**0.1**	**0.1**	**0.2**	**4.0**	**11.4**	**1.9**	**16.0**	**4.4**	**20.5**
1966	0.0	0.1	0.1	2.6	6.5	0.1	0.1	0.2	3.8	10.6	2.0	15.3	4.8	20.1
1967	0.0	0.1	0.1	3.3	7.1	0.1	0.1	0.2	4.7	12.1	3.4	18.9	8.1	27.0
1968	0.0	0.1	0.1	3.6	7.6	*	0.1	0.2	5.0	12.9	3.6	20.1	8.7	28.9
1969	0.0	0.1	0.1	4.0	8.4	*	0.1	0.2	5.8	14.5	4.0	22.6	9.6	32.1
1970	**0.0**	**0.1**	**0.1**	**5.2**	**8.5**	*	**0.1**	**0.2**	**6.1**	**15.0**	**4.4**	**24.6**	**10.6**	**35.2**
1971	0.0	0.1	0.1	4.6	9.0	*	0.1	0.2	6.9	16.2	4.9	25.8	11.8	37.6
1972	0.0	0.1	0.1	4.8	9.3	*	0.1	0.2	7.2	16.9	5.2	27.0	12.5	39.5
1973	0.0	0.1	0.1	4.7	8.8	*	0.1	0.2	7.0	16.1	5.6	26.5	13.4	40.0
1974	0.0	*	*	4.4	8.0	*	0.1	0.2	5.3	13.6	5.1	23.1	12.3	35.4
1975	**0.0**	*	*	**4.3**	**7.9**	*	**0.1**	**0.2**	**3.8**	**12.0**	**5.4**	**21.7**	**13.0**	**34.7**
1976	0.0	*	*	2.9	8.6	*	0.1	0.2	5.0	13.9	5.8	22.6	13.9	36.5
1977	0.0	*	*	3.1	8.4	*	0.1	0.2	5.2	14.0	5.9	23.0	14.3	37.3
1978	0.0	*	*	4.8	7.9	*	0.1	0.2	3.7	12.0	6.1	23.0	15.0	38.0
1979	0.0	*	*	6.2	7.2	*	0.1	0.2	1.7	9.2	6.4	21.9	15.4	37.3
1980	**0.0**	*	*	**6.9**	**3.6**	**0.0**	**0.1**	**0.3**	**1.1**	**5.1**	**6.5**	**18.4**	**15.7**	**34.1**
1981	0.0	0.1	0.1	7.0	2.2	*	0.1	0.3	1.2	3.8	6.4	17.3	15.3	32.5
1982	0.0	0.1	0.1	7.4	2.5	*	0.1	0.3	1.4	4.3	6.4	18.2	15.4	33.7
1983	*	0.1	0.1	7.2	3.4	*	0.1	0.2	1.9	5.6	6.7	19.6	16.2	35.8
1984	0.0	0.1	0.1	7.7	3.4	*	0.1	0.2	1.8	5.6	7.1	20.4	16.4	36.8
1985	**0.0**	*	*	**7.8**	**2.6**	*	**0.2**	**0.2**	**2.4**	**5.3**	**7.4**	**20.6**	**17.3**	**37.9**
1986	0.0	*	*	6.9	4.7	*	0.2	0.2	4.5	9.6	7.7	24.3	17.7	42.0
1987	0.0	*	*	9.7	5.2	*	0.2	0.2	2.2	7.8	8.2	25.7	18.6	44.3
1988	0.0	*	*	8.6	4.7	*	0.2	0.2	2.9	7.9	8.7	25.2	19.6	44.8
1989	0.0	*	*	9.0	4.5	*	0.2	0.2	1.3	6.2	9.0	24.2	20.1	44.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 252. Industrial Energy Consumption Estimates, 1960–1989, Rhode Island

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**0**	**4**	**4**	**3**	**735**	**367**	**99**	**31**	**52**	**6**	**4,051**	**202**	**5,542**	**1**	**916**	**2,277**
1961	0	3	3	3	882	363	94	32	51	6	3,224	54	4,705	1	970	2,365
1962	0	3	3	3	843	372	145	45	64	10	3,993	201	5,672	*	1,050	2,525
1963	0	4	4	4	737	391	117	64	64	6	3,663	233	5,274	*	1,084	2,593
1964	0	4	4	4	1,000	314	92	55	67	5	4,221	312	6,066	*	1,156	2,753
1965	**0**	**4**	**4**	**4**	**907**	**431**	**120**	**61**	**85**	**5**	**2,135**	**320**	**4,065**	*	**1,274**	**3,042**
1966	0	3	3	5	831	435	126	48	88	5	2,109	316	3,958	*	1,356	3,255
1967	0	3	3	5	695	555	156	72	52	4	2,640	261	4,436	*	1,044	2,493
1968	0	3	3	5	1,059	628	94	77	58	4	2,555	281	4,755	*	1,189	2,837
1969	0	2	2	6	983	681	99	109	48	3	3,040	292	5,256	*	1,256	3,000
1970	**0**	**2**	**2**	**6**	**937**	**672**	**89**	**162**	**49**	**3**	**3,246**	**295**	**5,452**	**0**	**1,253**	**3,036**
1971	0	1	1	6	1,102	608	88	157	58	3	3,611	175	5,802	0	1,298	3,138
1972	0	1	1	4	799	598	71	200	62	2	3,725	187	5,644	0	1,392	3,350
1973	0	1	1	4	1,306	543	48	253	65	2	3,554	197	5,969	0	1,487	3,560
1974	0	1	1	4	1,151	470	48	219	62	3	2,696	198	4,846	0	1,434	3,497
1975	**1**	**1**	**2**	**6**	**1,330**	**440**	**40**	**297**	**40**	**3**	**1,916**	**94**	**4,160**	**0**	**1,191**	**2,874**
1976	1	1	2	5	1,282	477	63	326	45	3	2,511	292	4,999	0	1,314	3,165
1977	0	1	1	9	1,429	492	50	367	62	2	2,643	345	5,389	0	1,320	3,188
1978	1	1	2	5	1,295	485	47	299	66	2	1,856	371	4,421	0	1,348	3,298
1979	2	1	3	6	1,014	393	49	176	69	3	871	451	3,026	0	1,387	3,347
1980	**3**	**1**	**4**	**5**	**1,041**	**415**	**30**	**149**	**62**	**2**	**654**	**480**	**2,833**	**0**	**1,399**	**3,402**
1981	2	0	2	5	996	321	6	126	59	2	738	215	2,463	0	1,342	3,198
1982	0	0	0	5	1,203	323	0	168	54	2	620	164	2,534	0	1,185	2,845
1983	0	0	0	5	1,212	364	*	146	57	2	472	142	2,395	0	1,266	3,034
1984	2	0	2	5	1,336	374	*	87	60	10	458	158	2,482	0	1,342	3,117
1985	**3**	**1**	**4**	**5**	**2,974**	**247**	*	**142**	**56**	**26**	**677**	**156**	**4,278**	**0**	**1,300**	**3,048**
1986	23	0	23	3	1,479	287	1	257	55	31	737	71	2,917	0	1,326	3,041
1987	1	0	1	4	1,773	543	2	266	62	28	587	79	3,339	0	1,360	3,100
1988	172	0	172	4	1,741	271	8	229	60	34	465	62	2,869	0	1,361	3,074
1989	24	0	24	5	1,605	312	1	160	62	35	217	59	2,450	0	1,360	3,050

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Trillion Btu																	
1960	**0.0**	**0.1**	**0.1**	**3.0**	**4.9**	**2.1**	**0.6**	**0.1**	**0.3**	*	**25.5**	**1.2**	**34.7**	*	**3.1**	**40.9**	**7.8**	**48.7**
1961	0.0	0.1	0.1	2.9	5.9	2.1	0.5	0.1	0.3	*	20.3	0.3	29.5	*	3.3	35.8	8.1	43.9
1962	0.0	0.1	0.1	3.4	5.6	2.2	0.8	0.2	0.4	0.1	25.1	1.2	35.5	*	3.6	42.5	8.6	51.1
1963	0.0	0.1	0.1	3.9	4.9	2.3	0.7	0.3	0.4	*	23.0	1.4	32.9	*	3.7	40.6	8.8	49.4
1964	0.0	0.1	0.1	4.4	6.6	1.8	0.5	0.2	0.4	*	26.5	1.8	38.0	*	3.9	46.4	9.4	55.8
1965	**0.0**	**0.1**	**0.1**	**4.4**	**6.0**	**2.5**	**0.7**	**0.2**	**0.5**	*	**13.4**	**1.8**	**25.2**	*	**4.3**	**34.1**	**10.4**	**44.5**
1966	0.0	0.1	0.1	4.8	5.5	2.5	0.7	0.2	0.5	*	13.3	1.8	24.6	*	4.6	34.1	11.1	45.2
1967	0.0	0.1	0.1	4.9	4.6	3.2	0.9	0.3	0.3	*	16.6	1.5	27.4	*	3.6	35.9	8.5	44.5
1968	0.0	0.1	0.1	5.4	7.0	3.7	0.5	0.3	0.3	*	16.1	1.6	29.5	*	4.1	39.1	9.7	48.7
1969	0.0	*	*	6.4	6.5	4.0	0.6	0.4	0.3	*	19.1	1.6	32.5	*	4.3	43.3	10.2	53.5
1970	**0.0**	*	*	**5.9**	**6.2**	**3.9**	**0.5**	**0.6**	**0.3**	*	**20.4**	**1.7**	**33.6**	**0.0**	**4.3**	**43.8**	**10.4**	**54.2**
1971	0.0	*	*	6.3	7.3	3.5	0.5	0.6	0.4	*	22.7	1.0	36.0	0.0	4.4	46.8	10.7	57.5
1972	0.0	*	*	4.4	5.3	3.5	0.4	0.8	0.4	*	23.4	1.1	34.8	0.0	4.7	44.0	11.4	55.4
1973	0.0	*	*	4.5	8.7	3.2	0.3	0.9	0.4	*	22.3	1.1	36.9	0.0	5.1	46.5	12.1	58.7
1974	0.0	*	*	4.5	7.6	2.7	0.3	0.8	0.4	*	17.0	1.1	29.9	0.0	4.9	39.4	11.9	51.3
1975	*	*	**0.1**	**5.9**	**8.8**	**2.6**	**0.2**	**1.1**	**0.2**	*	**12.0**	**0.5**	**25.5**	**0.0**	**4.1**	**35.6**	**9.8**	**45.4**
1976	*	*	0.1	4.9	8.5	2.8	0.4	1.2	0.3	*	15.8	1.6	30.6	0.0	4.5	40.0	10.8	50.8
1977	0.0	*	*	9.2	9.5	2.9	0.3	1.3	0.4	*	16.6	1.9	32.9	0.0	4.5	46.7	10.9	57.5
1978	*	*	*	4.7	8.6	2.8	0.3	1.1	0.4	*	11.7	2.1	27.0	0.0	4.6	36.3	11.3	47.5
1979	*	*	0.1	5.9	6.7	2.3	0.3	0.6	0.4	*	5.5	2.5	18.4	0.0	4.7	29.0	11.4	40.5
1980	**0.1**	*	**0.1**	**5.2**	**6.9**	**2.4**	**0.2**	**0.5**	**0.4**	*	**4.1**	**2.6**	**17.2**	**0.0**	**4.8**	**27.2**	**11.6**	**38.8**
1981	*	0.0	*	5.3	6.6	1.9	*	0.5	0.4	*	4.6	1.2	15.2	0.0	4.6	25.1	10.9	36.0
1982	0.0	0.0	0.0	5.1	8.0	1.9	0.0	0.6	0.3	*	3.9	0.9	15.6	0.0	4.0	24.8	9.7	34.5
1983	0.0	0.0	0.0	5.3	8.0	2.1	*	0.5	0.3	*	3.0	0.8	14.8	0.0	4.3	24.4	10.4	34.7
1984	*	0.0	*	5.6	8.9	2.2	*	0.3	0.4	0.1	2.9	0.9	15.5	0.0	4.6	25.7	10.6	36.3
1985	**0.1**	*	**0.1**	**4.8**	**19.7**	**1.4**	*	**0.5**	**0.3**	**0.1**	**4.3**	**0.8**	**27.3**	**0.0**	**4.4**	**36.6**	**10.4**	**47.0**
1986	0.6	0.0	0.6	3.6	9.8	1.7	*	0.9	0.3	0.2	4.6	0.4	17.9	0.0	4.5	26.6	10.4	37.0
1987	*	0.0	*	4.5	11.8	3.2	*	1.0	0.4	0.1	3.7	0.4	20.5	0.0	4.6	29.7	10.6	40.3
1988	4.3	0.0	4.3	4.6	11.6	1.6	*	0.8	0.4	0.2	2.9	0.3	17.8	0.0	4.6	31.3	10.5	41.8
1989	0.6	0.0	0.6	4.7	10.6	1.8	*	0.6	0.4	0.2	1.4	0.3	15.3	0.0	4.6	25.3	10.4	35.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 253. Transportation Energy Consumption Estimates, 1960-1989, Rhode Island

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**0**	*	**19**	**838**	**38**	**1**	**103**	**5,943**	**3,826**	**10,768**	**0**	**0**		
1961	0	*	22	517	42	2	100	6,004	2,777	9,464	0	0		
1962	0	*	60	556	44	3	75	6,159	2,447	9,345	0	0		
1963	0	*	47	493	45	3	75	6,284	2,613	9,560	0	0		
1964	0	*	49	539	46	3	79	6,258	2,000	8,974	0	0		
1965	**0**	*	**63**	**393**	**49**	**4**	**69**	**6,455**	**2,637**	**9,669**	**0**	**0**		
1966	0	*	89	488	78	6	71	6,693	2,649	10,075	0	0		
1967	0	*	89	466	91	6	70	6,823	3,786	11,331	0	0		
1968	0	*	148	597	133	6	77	7,260	2,453	10,675	0	0		
1969	0	*	149	625	124	12	75	7,431	2,173	10,590	0	0		
1970	**0**	*	**148**	**604**	**137**	**28**	**77**	**7,970**	**2,519**	**11,482**	**0**	**0**		
1971	0	*	157	745	125	33	64	8,181	2,879	12,185	0	0		
1972	0	*	181	686	174	33	69	8,563	2,211	11,918	0	0		
1973	0	*	221	739	175	35	69	8,583	1,296	11,118	0	0		
1974	0	*	139	935	165	33	66	8,677	822	10,838	0	0		
1975	*	*	**285**	**788**	**271**	**27**	**57**	**8,929**	**329**	**10,685**	**0**	**0**		
1976	*	*	226	815	241	32	63	8,768	242	10,387	0	0		
1977	0	*	157	686	209	37	70	9,162	120	10,441	0	0		
1978	0	*	200	586	260	47	75	9,053	72	10,294	0	0		
1979	0	*	241	623	312	12	79	8,827	137	10,232	0	0		
1980	**0**	*	**269**	**675**	**348**	**9**	**70**	**8,365**	**58**	**9,794**	**0**	**0**		
1981	0	*	23	695	303	9	67	8,465	49	9,611	0	0		
1982	0	*	28	733	281	18	61	8,357	18	9,496	0	0		
1983	0	*	23	853	329	16	64	8,256	0	9,542	0	0		
1984	0	*	21	942	571	23	68	8,523	0	10,149	0	0		
1985	**0**	*	**30**	**326**	**498**	**17**	**64**	**8,604**	**0**	**9,538**	**0**	**0**		
1986	0	*	35	1,182	387	14	62	8,872	4	10,557	0	0		
1987	0	*	42	1,399	528	7	70	9,055	211	11,312	0	0		
1988	0	*	46	1,213	636	16	68	9,220	266	11,465	0	0		
1989	0	*	46	1,598	724	16	70	8,797	76	11,326	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**0.0**	**0.2**	**0.1**	**4.9**	**0.2**	*	**0.6**	**31.2**	**24.1**	**61.1**	**0.0**	**61.3**	**0.0**	**61.3**
1961	0.0	0.3	0.1	3.0	0.2	*	0.6	31.5	17.5	53.0	0.0	53.3	0.0	53.3
1962	0.0	0.1	0.3	3.2	0.2	*	0.5	32.4	15.4	52.0	0.0	52.1	0.0	52.1
1963	0.0	0.2	0.2	2.9	0.2	*	0.5	33.0	16.4	53.3	0.0	53.4	0.0	53.4
1964	0.0	0.1	0.2	3.1	0.2	*	0.5	32.9	12.6	49.6	0.0	49.7	0.0	49.7
1965	**0.0**	**0.1**	**0.3**	**2.3**	**0.3**	*	**0.4**	**33.9**	**16.6**	**53.8**	**0.0**	**53.9**	**0.0**	**53.9**
1966	0.0	0.1	0.5	2.8	0.4	*	0.4	35.2	16.7	56.0	0.0	56.0	0.0	56.0
1967	0.0	*	0.4	2.7	0.5	*	0.4	35.8	23.8	63.8	0.0	63.8	0.0	63.8
1968	0.0	*	0.7	3.5	0.7	*	0.5	38.1	15.4	59.0	0.0	59.0	0.0	59.0
1969	0.0	*	0.8	3.6	0.7	*	0.5	39.0	13.7	58.3	0.0	58.3	0.0	58.3
1970	**0.0**	*	**0.7**	**3.5**	**0.8**	**0.1**	**0.5**	**41.9**	**15.8**	**63.3**	**0.0**	**63.3**	**0.0**	**63.3**
1971	0.0	*	0.8	4.3	0.7	0.1	0.4	43.0	18.1	67.4	0.0	67.4	0.0	67.4
1972	0.0	*	0.9	4.0	1.0	0.1	0.4	45.0	13.9	65.3	0.0	65.3	0.0	65.3
1973	0.0	*	1.1	4.3	1.0	0.1	0.4	45.1	8.1	60.2	0.0	60.2	0.0	60.2
1974	0.0	*	0.7	5.4	0.9	0.1	0.4	45.6	5.2	58.4	0.0	58.4	0.0	58.4
1975	*	*	**1.4**	**4.6**	**1.5**	**0.1**	**0.3**	**46.9**	**2.1**	**57.0**	**0.0**	**57.0**	**0.0**	**57.0**
1976	*	*	1.1	4.7	1.4	0.1	0.4	46.1	1.5	55.3	0.0	55.3	0.0	55.3
1977	0.0	*	0.8	4.0	1.2	0.1	0.4	48.1	0.8	55.4	0.0	55.4	0.0	55.4
1978	0.0	*	1.0	3.4	1.5	0.2	0.5	47.6	0.5	54.5	0.0	54.5	0.0	54.5
1979	0.0	*	1.2	3.6	1.8	*	0.5	46.4	0.9	54.4	0.0	54.4	0.0	54.4
1980	**0.0**	**0.2**	**1.4**	**3.9**	**2.0**	*	**0.4**	**43.9**	**0.4**	**52.0**	**0.0**	**52.2**	**0.0**	**52.2**
1981	0.0	0.1	0.1	4.1	1.7	*	0.4	44.5	0.3	51.1	0.0	51.2	0.0	51.2
1982	0.0	0.2	0.1	4.3	1.6	0.1	0.4	43.9	0.1	50.4	0.0	50.6	0.0	50.6
1983	0.0	0.2	0.1	5.0	1.9	0.1	0.4	43.4	0.0	50.8	0.0	50.9	0.0	50.9
1984	0.0	0.1	0.1	5.5	3.2	0.1	0.4	44.8	0.0	54.1	0.0	54.2	0.0	54.2
1985	**0.0**	**0.1**	**0.2**	**1.9**	**2.8**	**0.1**	**0.4**	**45.2**	**0.0**	**50.5**	**0.0**	**50.6**	**0.0**	**50.6**
1986	0.0	0.1	0.2	6.9	2.2	0.1	0.4	46.6	*	56.3	0.0	56.4	0.0	56.4
1987	0.0	0.1	0.2	8.1	3.0	*	0.4	47.6	1.3	60.7	0.0	60.7	0.0	60.7
1988	0.0	0.1	0.2	7.1	3.6	0.1	0.4	48.4	1.7	61.5	0.0	61.6	0.0	61.6
1989	0.0	0.1	0.2	9.3	4.1	0.1	0.4	46.2	0.5	60.8	0.0	60.9	0.0	60.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 254. Estimates of Energy Input at Electric Utilities, 1960–1989, Rhode Island

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
													Trillion Btu
1960	**574**	**0**	**574**	*	**714**	**13**	**0**	**727**	**0**	**8**	**0**	**0**	
1961	516	0	516	*	710	13	0	723	0	7	0	0	
1962	516	0	516	*	702	13	0	714	0	5	0	0	
1963	462	0	462	*	802	15	0	816	0	3	0	0	
1964	382	0	382	*	799	15	0	813	0	4	0	0	
1965	**403**	**0**	**403**	*	**870**	**16**	**0**	**886**	**0**	**1**	**0**	**0**	
1966	375	0	375	*	1,037	19	0	1,056	0	2	0	0	
1967	229	0	229	*	2,037	37	0	2,075	0	5	0	0	
1968	111	0	111	1	2,423	44	0	2,467	0	4	0	0	
1969	0	0	0	1	3,131	57	0	3,188	0	3	0	0	
1970	**0**	**0**	**0**	**2**	**2,990**	**56**	**0**	**3,047**	**0**	**3**	**0**	**0**	
1971	0	0	0	3	2,508	51	0	2,559	0	1	0	0	
1972	0	0	0	*	2,660	41	0	2,702	0	6	0	0	
1973	0	0	0	*	2,482	44	0	2,526	0	5	0	0	
1974	34	0	34	2	2,023	49	0	2,072	0	4	0	0	
1975	**0**	**0**	**0**	*	**1,542**	**26**	**0**	**1,568**	**0**	**3**	**0**	**0**	
1976	0	0	0	1	936	9	0	945	0	3	0	0	
1977	0	0	0	0	1,142	8	0	1,150	0	4	0	0	
1978	0	0	0	0	1,156	15	0	1,171	0	4	0	0	
1979	0	0	0	2	901	21	0	923	0	3	0	0	
1980	**0**	**0**	**0**	**2**	**1,634**	**28**	**0**	**1,662**	**0**	**1**	**0**	**0**	
1981	0	0	0	3	1,228	19	0	1,246	0	*	0	0	
1982	0	0	0	1	786	18	0	804	0	3	0	0	
1983	0	0	0	3	694	19	0	713	0	3	0	0	
1984	0	0	0	4	637	26	0	663	0	2	0	0	
1985	**0**	**0**	**0**	**3**	**708**	**20**	**0**	**728**	**0**	**421**	**0**	**0**	
1986	0	0	0	0	1,459	28	0	1,487	0	6	0	0	
1987	0	0	0	5	805	27	0	832	0	9	0	0	
1988	0	0	0	*	1,496	42	0	1,538	0	678	0	0	
1989	0	0	0	2	679	35	0	713	0	96	0	0	
1960	**16.1**	**0.0**	**16.1**	**0.4**	**4.5**	**0.1**	**0.0**	**4.6**	**0.0**	**0.1**	**0.0**	**0.0**	**21.2**
1961	14.6	0.0	14.6	0.4	4.5	0.1	0.0	4.5	0.0	0.1	0.0	0.0	19.6
1962	14.5	0.0	14.5	0.3	4.4	0.1	0.0	4.5	0.0	0.1	0.0	0.0	19.4
1963	12.8	0.0	12.8	0.3	5.0	0.1	0.0	5.1	0.0	*	0.0	0.0	18.3
1964	10.6	0.0	10.6	0.5	5.0	0.1	0.0	5.1	0.0	*	0.0	0.0	16.2
1965	**11.1**	**0.0**	**11.1**	**0.5**	**5.5**	**0.1**	**0.0**	**5.6**	**0.0**	*	**0.0**	**0.0**	**17.1**
1966	10.2	0.0	10.2	0.2	6.5	0.1	0.0	6.6	0.0	*	0.0	0.0	17.1
1967	6.2	0.0	6.2	0.3	12.8	0.2	0.0	13.0	0.0	0.1	0.0	0.0	19.6
1968	3.0	0.0	3.0	1.6	15.2	0.3	0.0	15.5	0.0	*	0.0	0.0	20.1
1969	0.0	0.0	0.0	1.2	19.7	0.3	0.0	20.0	0.0	*	0.0	0.0	21.2
1970	**0.0**	**0.0**	**0.0**	**2.4**	**18.8**	**0.3**	**0.0**	**19.1**	**0.0**	*	**0.0**	**0.0**	**21.5**
1971	0.0	0.0	0.0	2.8	15.8	0.3	0.0	16.1	0.0	*	0.0	0.0	18.9
1972	0.0	0.0	0.0	0.2	16.7	0.2	0.0	17.0	0.0	0.1	0.0	0.0	17.2
1973	0.0	0.0	0.0	*	15.6	0.3	0.0	15.9	0.0	*	0.0	0.0	15.9
1974	0.8	0.0	0.8	2.0	12.7	0.3	0.0	13.0	0.0	*	0.0	0.0	15.9
1975	**0.0**	**0.0**	**0.0**	*	**9.7**	**0.2**	**0.0**	**9.8**	**0.0**	*	**0.0**	**0.0**	**9.9**
1976	0.0	0.0	0.0	0.7	5.9	0.1	0.0	5.9	0.0	*	0.0	0.0	6.6
1977	0.0	0.0	0.0	0.0	7.2	*	0.0	7.2	0.0	*	0.0	0.0	7.3
1978	0.0	0.0	0.0	0.0	7.3	0.1	0.0	7.4	0.0	*	0.0	0.0	7.4
1979	0.0	0.0	0.0	1.8	5.7	0.1	0.0	5.8	0.0	*	0.0	0.0	7.7
1980	**0.0**	**0.0**	**0.0**	**1.7**	**10.3**	**0.2**	**0.0**	**10.4**	**0.0**	*	**0.0**	**0.0**	**12.2**
1981	0.0	0.0	0.0	2.7	7.7	0.1	0.0	7.8	0.0	*	0.0	0.0	10.5
1982	0.0	0.0	0.0	0.8	4.9	0.1	0.0	5.0	0.0	*	0.0	0.0	5.9
1983	0.0	0.0	0.0	3.2	4.4	0.1	0.0	4.5	0.0	*	0.0	0.0	7.7
1984	0.0	0.0	0.0	3.8	4.0	0.2	0.0	4.2	0.0	*	0.0	0.0	7.9
1985	**0.0**	**0.0**	**0.0**	**2.6**	**4.4**	**0.1**	**0.0**	**4.6**	**0.0**	**4.3**	**0.0**	**0.0**	**11.5**
1986	0.0	0.0	0.0	0.0	9.2	0.2	0.0	9.3	0.0	0.1	0.0	0.0	9.4
1987	0.0	0.0	0.0	5.5	5.1	0.2	0.0	5.2	0.0	0.1	0.0	0.0	10.8
1988	0.0	0.0	0.0	0.2	9.4	0.2	0.0	9.7	0.0	6.9	0.0	0.0	16.8
1989	0.0	0.0	0.0	2.2	4.3	0.2	0.0	4.5	0.0	1.0	0.0	0.0	7.7

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 255. Energy Consumption Estimates by Source, 1960-1989, South Carolina

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**3,718**	**59**	**1,636**	**215**	**5,234**	**3,131**	**4,488**	**1,376**	**375**	**18,094**	**4,732**	**441**	**39,721**	**0**	**3,611**	**0**	**0**	**9,266**	
1961	3,974	61	1,607	171	5,152	3,174	4,464	1,323	365	18,417	5,112	437	40,221	0	3,238	0	0	12,416	
1962	4,180	71	1,723	320	5,817	3,437	4,742	1,601	362	19,255	5,906	432	43,596	0	3,067	0	0	12,927	
1963	4,577	75	1,822	297	6,185	3,556	4,332	1,782	362	19,910	5,839	502	44,587	*	2,674	0	0	14,450	
1964	4,228	79	1,583	307	5,253	3,622	3,548	2,109	380	20,232	5,020	427	42,482	39	4,355	0	0	14,793	
1965	**4,760**	**87**	**1,721**	**354**	**4,849**	**2,958**	**3,297**	**2,097**	**351**	**21,430**	**3,916**	**424**	**41,396**	**75**	**3,517**	**0**	**0**	**11,622**	
1966	5,273	96	1,924	391	6,456	3,115	3,281	2,089	365	22,583	4,088	360	44,651	73	2,611	0	0	14,105	
1967	5,357	101	1,929	364	6,496	3,461	3,362	2,134	334	23,553	3,251	391	45,274	8	2,654	0	0	15,400	
1968	4,932	128	1,851	293	7,768	4,099	3,076	2,311	366	25,460	3,660	435	49,318	0	2,702	0	0	18,050	
1969	5,337	141	2,012	253	8,454	3,650	2,766	2,761	379	26,962	3,770	441	51,449	0	3,089	0	0	20,472	
1970	**5,817**	**160**	**2,220**	**228**	**9,423**	**3,170**	**2,377**	**2,927**	**386**	**28,756**	**5,335**	**451**	**55,274**	**7**	**2,293**	**0**	**0**	**22,290**	
1971	6,320	156	2,107	201	9,040	3,258	3,047	3,031	389	30,506	5,554	963	58,097	2,414	3,485	0	0	14,556	
1972	7,239	144	2,200	221	9,849	3,108	2,211	3,415	417	32,847	6,362	1,057	61,687	4,829	3,347	0	0	15,202	
1973	6,968	153	2,191	182	10,719	2,794	1,840	3,384	493	34,554	9,410	1,229	66,796	6,166	3,908	0	0	14,733	
1974	6,514	132	2,683	146	9,589	2,800	1,220	2,957	472	34,467	9,575	1,274	65,184	11,057	3,455	0	0	3,819	
1975	**5,842**	**123**	**2,440**	**142**	**8,376**	**2,692**	**1,024**	**3,204**	**461**	**35,429**	**7,666**	**1,180**	**62,612**	**19,458**	**4,413**	**0**	**0**	**-18,555**	
1976	7,053	149	2,052	164	10,511	2,562	1,197	3,652	513	37,409	11,626	2,172	71,860	17,850	3,414	0	0	-7,134	
1977	7,959	139	2,116	141	13,141	2,732	1,350	3,742	543	38,220	13,151	2,512	77,649	17,239	3,050	0	0	-3,842	
1978	7,988	118	2,169	159	11,132	2,854	1,212	3,734	583	39,996	13,193	2,700	77,732	19,457	3,207	0	0	-8,662	
1979	8,399	119	1,971	155	11,918	2,941	1,150	2,968	610	37,899	10,928	3,241	73,782	18,220	3,959	0	0	-6,526	
1980	**9,929**	**142**	**1,535**	**149**	**10,660**	**3,062**	**1,352**	**3,178**	**543**	**35,517**	**7,205**	**4,020**	**67,220**	**17,404**	**3,025**	**0**	**0**	**-974**	
1981	10,858	142	1,455	134	9,822	2,865	679	2,826	521	35,600	5,349	5,229	64,480	17,327	1,257	0	0	5,984	
1982	10,989	98	1,203	119	9,485	2,745	605	2,606	475	35,446	3,133	4,018	59,836	13,156	2,429	0	0	23,723	
1983	9,362	102	1,901	133	10,553	2,529	635	2,621	497	35,896	3,933	3,113	61,813	25,581	3,098	0	0	-1,172	
1984	9,768	108	1,242	122	11,510	3,080	427	2,596	530	37,133	3,782	3,692	64,114	23,235	3,177	0	0	11,941	
1985	**10,479**	**97**	**1,367**	**136**	**11,731**	**3,184**	**673**	**3,192**	**494**	**37,710**	**2,187**	**3,709**	**64,381**	**31,826**	**1,835**	**0**	**0**	**-10,064**	
1986	10,461	99	2,068	156	11,696	3,168	599	2,928	483	39,284	1,580	4,506	66,467	35,625	1,266	0	0	-11,985	
1987	11,701	106	2,425	119	11,850	3,193	778	3,455	546	38,973	1,663	5,104	68,108	39,290	2,209	0	0	-27,407	
1988	11,937	112	3,297	127	12,606	3,229	685	3,637	527	37,450	2,420	5,220	69,197	40,746	680	0	0	-27,594	
1989	11,981	117	2,313	120	12,499	3,117	697	3,861	541	42,627	1,482	5,086	72,342	40,780	2,065	0	0	-30,970	
									Trillion Btu										
1960	**96.4**	**60.6**	**10.9**	**1.1**	**30.5**	**16.8**	**25.4**	**5.5**	**2.3**	**95.0**	**29.7**	**2.5**	**219.8**	**0.0**	**38.8**	**0.0**	**0.0**	**31.6**	**447.2**
1961	103.5	63.1	10.7	0.9	30.0	17.0	25.3	5.3	2.2	96.7	32.1	2.5	222.8	0.0	34.5	0.0	0.0	42.4	466.2
1962	108.5	73.1	11.4	1.6	33.9	18.4	26.9	6.4	2.2	101.1	37.1	2.5	241.6	0.0	32.4	0.0	0.0	44.1	499.7
1963	118.2	78.5	12.1	1.5	36.0	19.1	24.6	7.1	2.2	104.6	36.7	2.8	246.7	*	28.0	0.0	0.0	49.3	520.8
1964	108.7	82.1	10.5	1.6	30.6	19.4	20.1	8.5	2.3	106.3	31.6	2.4	233.2	0.5	45.6	0.0	0.0	50.5	520.5
1965	**121.5**	**90.5**	**11.4**	**1.8**	**28.2**	**15.8**	**18.7**	**8.4**	**2.1**	**112.6**	**24.6**	**2.4**	**226.1**	**0.9**	**36.8**	**0.0**	**0.0**	**39.7**	**515.4**
1966	132.9	100.9	12.8	2.0	37.6	16.7	18.6	8.4	2.2	118.6	25.7	2.0	244.6	0.9	27.2	0.0	0.0	48.1	554.5
1967	134.3	104.6	12.8	1.8	37.8	18.6	19.1	8.2	2.0	123.7	20.4	2.1	246.6	0.1	27.7	0.0	0.0	52.5	565.9
1968	124.0	132.1	12.3	1.5	45.2	22.0	17.4	8.8	2.2	133.7	23.0	2.4	268.7	0.0	28.1	0.0	0.0	61.6	614.5
1969	132.0	145.9	13.4	1.3	49.2	19.7	15.7	10.5	2.3	141.6	23.7	2.4	279.8	0.0	32.3	0.0	0.0	69.8	659.8
1970	**140.1**	**164.3**	**14.7**	**1.2**	**54.9**	**17.1**	**13.5**	**11.1**	**2.3**	**151.1**	**33.5**	**2.5**	**301.8**	**0.1**	**24.1**	**0.0**	**0.0**	**76.1**	**706.5**
1971	152.0	160.6	14.0	1.0	52.7	17.6	17.3	11.4	2.4	160.2	34.9	5.3	316.8	26.2	36.5	0.0	0.0	49.7	741.8
1972	174.9	148.2	14.6	1.1	57.4	16.8	12.5	12.8	2.5	172.5	40.0	5.8	336.2	52.1	34.7	0.0	0.0	51.9	798.0
1973	167.9	157.1	14.5	0.9	62.4	15.1	10.4	12.7	3.0	181.5	59.2	6.8	366.6	67.2	40.6	0.0	0.0	50.3	849.7
1974	155.3	135.3	17.8	0.7	55.9	15.1	6.9	11.0	2.9	181.1	60.2	7.1	358.6	123.4	36.1	0.0	0.0	13.0	821.7
1975	**140.2**	**125.9**	**16.2**	**0.7**	**48.8**	**14.5**	**5.8**	**11.9**	**2.8**	**186.1**	**48.2**	**6.5**	**341.6**	**214.3**	**45.9**	**0.0**	**0.0**	**-63.3**	**804.6**
1976	171.0	152.4	13.6	0.8	61.2	13.8	6.8	13.6	3.1	196.5	73.1	12.1	394.7	197.2	35.4	0.0	0.0	-24.3	926.4
1977	189.6	141.6	14.0	0.7	76.5	14.8	7.7	13.8	3.3	200.8	82.7	14.1	428.3	185.6	31.8	0.0	0.0	-13.1	963.9
1978	192.3	121.3	14.4	0.8	64.8	15.5	6.9	13.7	3.5	210.1	82.9	15.2	427.8	212.9	33.2	0.0	0.0	-29.6	958.0
1979	206.8	121.5	13.1	0.8	69.4	15.9	6.5	10.9	3.7	199.1	68.7	18.0	406.1	198.2	41.0	0.0	0.0	-22.3	951.3
1980	**245.8**	**146.9**	**10.2**	**0.8**	**62.1**	**16.6**	**7.7**	**11.7**	**3.3**	**186.6**	**45.3**	**22.4**	**366.5**	**189.8**	**31.4**	**0.0**	**0.0**	**-3.3**	**977.1**
1981	266.5	145.2	9.7	0.7	57.2	15.5	3.8	10.3	3.2	187.0	33.6	29.3	350.3	191.1	13.1	0.0	0.0	20.4	986.7
1982	271.5	101.0	8.0	0.6	55.3	14.8	3.4	9.4	2.9	186.2	19.7	22.5	322.8	145.7	25.4	0.0	0.0	80.9	947.4
1983	233.9	104.4	12.6	0.7	61.5	13.7	3.6	9.5	3.0	188.6	24.7	17.6	335.4	279.0	32.6	0.0	0.0	-4.0	981.2
1984	244.0	111.2	8.2	0.6	67.0	16.6	2.4	9.3	3.2	195.1	23.8	20.5	346.8	251.9	32.8	0.0	0.0	40.7	1,027.6
1985	**262.7**	**100.2**	**9.1**	**0.7**	**68.3**	**17.2**	**3.8**	**11.5**	**3.0**	**198.1**	**13.7**	**20.7**	**346.1**	**344.1**	**19.0**	**0.0**	**0.0**	**-34.3**	**1,037.8**
1986	263.9	101.5	13.7	0.8	68.1	17.2	3.4	10.7	2.9	206.4	9.9	25.1	358.2	384.7	13.0	0.0	0.0	-40.9	1,080.5
1987	295.3	108.6	16.1	0.6	69.0	17.3	4.4	12.6	3.3	204.7	10.5	28.6	367.2	423.4	22.6	0.0	0.0	-93.5	1,123.7
1988	301.8	115.3	21.9	0.6	73.4	17.5	3.9	13.3	3.2	196.7	15.2	29.3	375.1	437.7	7.0	0.0	0.0	-94.2	1,142.8
1989	301.5	119.9	15.3	0.6	72.8	16.9	3.9	14.2	3.3	223.9	9.3	28.5	388.9	437.3	21.3	0.0	0.0	-105.7	1,163.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 256. Residential Energy Consumption Estimates, 1960–1989, South Carolina

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**117**	**0**	**117**	**7**	**1,595**	**3,475**	**926**	**5,996**	**3,272**	**8,139**		
1961	92	0	92	8	1,584	3,643	878	6,104	3,425	8,348		
1962	102	0	102	9	1,767	3,876	1,060	6,704	3,785	9,100		
1963	96	0	96	10	1,509	3,526	1,141	6,177	4,081	9,759		
1964	93	0	93	12	1,392	2,929	1,352	5,673	4,476	10,661		
1965	**80**	**0**	**80**	**12**	**1,178**	**2,606**	**1,419**	**5,203**	**4,371**	**10,437**		
1966	103	0	103	12	1,978	2,590	1,412	5,980	4,625	11,097		
1967	88	0	88	14	1,942	2,761	1,400	6,103	4,986	11,912		
1968	86	0	86	17	2,231	2,537	1,509	6,277	5,847	13,950		
1969	103	0	103	18	2,283	2,314	1,767	6,364	6,510	15,550		
1970	**86**	**0**	**86**	**19**	**2,400**	**2,011**	**1,778**	**6,188**	**7,347**	**17,805**		
1971	81	0	81	20	2,214	2,493	1,779	6,486	7,841	18,957		
1972	72	0	72	21	2,479	1,896	1,960	6,335	8,234	19,819		
1973	86	0	86	23	2,292	1,640	1,896	5,828	9,299	22,261		
1974	87	0	87	20	1,986	1,023	1,609	4,618	9,351	22,801		
1975	**84**	**0**	**84**	**18**	**1,695**	**858**	**1,750**	**4,304**	**9,837**	**23,728**		
1976	51	0	51	33	2,325	957	1,927	5,210	10,360	24,956		
1977	42	0	42	32	2,362	843	1,952	5,156	11,310	27,311		
1978	15	0	15	28	2,011	744	1,859	4,614	11,714	28,658		
1979	17	0	17	18	1,979	974	1,454	4,407	11,419	27,558		
1980	**69**	**0**	**69**	**19**	**1,580**	**1,200**	**1,510**	**4,290**	**12,580**	**30,590**		
1981	37	0	37	19	1,429	553	1,561	3,542	13,067	31,143		
1982	41	0	41	18	1,133	526	1,305	2,963	13,493	32,408		
1983	60	0	60	19	1,174	506	1,551	3,231	13,819	33,106		
1984	40	0	40	19	1,204	366	1,662	3,232	14,568	33,830		
1985	**23**	**1**	**23**	**16**	**1,153**	**549**	**1,915**	**3,616**	**14,661**	**34,380**		
1986	77	0	77	17	1,175	503	1,741	3,419	16,122	36,964		
1987	42	0	42	20	1,400	661	1,921	3,982	16,913	38,544		
1988	44	0	44	21	1,120	591	2,046	3,757	17,172	38,779		
1989	6	0	6	20	1,282	579	2,215	4,075	17,464	39,173		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**2.9**	**0.0**	**2.9**	**7.1**	**9.3**	**19.7**	**3.7**	**32.7**	**11.2**	**53.9**	**27.8**	**81.6**
1961	2.3	0.0	2.3	8.0	9.2	20.7	3.5	33.4	11.7	55.4	28.5	83.9
1962	2.5	0.0	2.5	9.5	10.3	22.0	4.3	36.5	12.9	61.5	31.0	92.5
1963	2.4	0.0	2.4	10.7	8.8	20.0	4.6	33.4	13.9	60.4	33.3	93.6
1964	2.3	0.0	2.3	12.1	8.1	16.6	5.4	30.1	15.3	59.8	36.4	96.2
1965	**2.0**	**0.0**	**2.0**	**12.4**	**6.9**	**14.8**	**5.7**	**27.3**	**14.9**	**56.6**	**35.6**	**92.3**
1966	2.5	0.0	2.5	12.1	11.5	14.7	5.7	31.9	15.8	62.3	37.9	100.2
1967	2.1	0.0	2.1	14.3	11.3	15.7	5.4	32.3	17.0	65.8	40.6	106.5
1968	2.1	0.0	2.1	17.4	13.0	14.4	5.8	33.1	19.9	72.5	47.6	120.1
1969	2.5	0.0	2.5	18.8	13.3	13.1	6.7	33.1	22.2	76.7	53.1	129.7
1970	**2.0**	**0.0**	**2.0**	**19.5**	**14.0**	**11.4**	**6.7**	**32.1**	**25.1**	**78.7**	**60.7**	**139.4**
1971	1.9	0.0	1.9	20.2	12.9	14.1	6.7	33.7	26.8	82.6	64.7	147.2
1972	1.7	0.0	1.7	21.2	14.4	10.7	7.4	32.6	28.1	83.5	67.6	151.1
1973	2.0	0.0	2.0	23.3	13.4	9.3	7.1	29.8	31.7	86.8	76.0	162.8
1974	2.0	0.0	2.0	20.9	11.6	5.8	6.0	23.4	31.9	78.2	77.8	156.0
1975	**2.0**	**0.0**	**2.0**	**18.6**	**9.9**	**4.9**	**6.5**	**21.2**	**33.6**	**75.4**	**81.0**	**156.4**
1976	1.2	0.0	1.2	34.0	13.5	5.4	7.2	26.1	35.3	96.7	85.1	181.8
1977	1.0	0.0	1.0	32.6	13.8	4.8	7.2	25.7	38.6	97.9	93.2	191.1
1978	0.4	0.0	0.4	29.1	11.7	4.2	6.8	22.8	40.0	92.2	97.8	190.0
1979	0.4	0.0	0.4	17.9	11.5	5.5	5.3	22.4	39.0	79.7	94.0	173.7
1980	**1.7**	**0.0**	**1.7**	**19.5**	**9.2**	**6.8**	**5.5**	**21.6**	**42.9**	**85.7**	**104.4**	**190.0**
1981	0.9	0.0	0.9	19.4	8.3	3.1	5.7	17.1	44.6	82.0	106.3	188.3
1982	1.0	0.0	1.0	18.1	6.6	3.0	4.7	14.3	46.0	79.4	110.6	190.0
1983	1.5	0.0	1.5	19.2	6.8	2.9	5.6	15.3	47.1	83.2	113.0	196.2
1984	1.0	0.0	1.0	19.7	7.0	2.1	6.0	15.1	49.7	85.5	115.4	200.9
1985	**0.6**	*****	**0.6**	**16.9**	**6.7**	**3.1**	**6.9**	**16.7**	**50.0**	**84.2**	**117.3**	**201.5**
1986	1.9	0.0	1.9	18.0	6.8	2.9	6.3	16.0	55.0	90.9	126.1	217.0
1987	1.1	0.0	1.1	20.8	8.2	3.7	7.0	18.9	57.7	98.5	131.5	230.0
1988	1.1	0.0	1.1	21.3	6.5	3.4	7.5	17.3	58.6	98.4	132.3	230.7
1989	0.1	0.0	0.1	21.0	7.5	3.3	8.2	18.9	59.6	99.6	133.7	233.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 257. Commercial Energy Consumption Estimates, 1960-1989, South Carolina

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**217**	**0**	**217**	**5**	**474**	**93**	**163**	**275**	**176**	**1,182**	**1,957**	**4,867**		
1961	170	0	170	5	471	97	155	282	179	1,184	2,076	5,061		
1962	189	0	189	6	526	103	187	293	172	1,282	2,355	5,663		
1963	178	0	178	6	449	94	201	286	172	1,202	2,506	5,993		
1964	172	0	172	6	414	78	239	278	188	1,197	2,779	6,618		
1965	**148**	**0**	**148**	**7**	**350**	**70**	**250**	**301**	**121**	**1,092**	**2,531**	**6,043**		
1966	192	0	192	7	588	69	249	189	114	1,210	2,669	6,403		
1967	163	0	163	9	578	74	247	186	104	1,189	3,008	7,186		
1968	159	0	159	11	663	68	266	190	106	1,294	3,432	8,188		
1969	192	0	192	13	679	62	312	199	82	1,333	3,735	8,921		
1970	**160**	**0**	**160**	**14**	**714**	**54**	**314**	**204**	**80**	**1,366**	**4,237**	**10,267**		
1971	150	0	150	14	658	67	314	208	170	1,416	4,583	11,080		
1972	133	0	133	14	737	51	346	213	208	1,555	5,043	12,138		
1973	159	0	159	16	682	44	335	219	229	1,508	5,745	13,753		
1974	161	0	161	15	591	27	284	216	189	1,307	5,734	13,981		
1975	**157**	**0**	**157**	**17**	**504**	**23**	**309**	**225**	**160**	**1,221**	**7,121**	**17,177**		
1976	95	0	95	35	691	26	340	227	376	1,660	7,558	18,205		
1977	78	0	78	32	702	22	344	231	434	1,735	8,075	19,499		
1978	28	0	28	25	598	20	328	232	389	1,567	8,511	20,822		
1979	32	0	32	18	588	26	257	235	377	1,483	8,279	19,980		
1980	**128**	**0**	**128**	**23**	**481**	**25**	**266**	**240**	**35**	**1,047**	**8,705**	**21,168**		
1981	68	0	68	19	433	29	275	256	101	1,094	8,404	20,029		
1982	76	0	76	16	404	25	230	253	27	939	9,156	21,992		
1983	112	0	112	17	832	24	274	304	75	1,509	9,294	22,266		
1984	75	0	75	17	853	12	293	210	73	1,441	9,205	21,374		
1985	**42**	*	**42**	**15**	**841**	**22**	**338**	**230**	**55**	**1,486**	**9,778**	**22,930**		
1986	142	0	142	16	702	28	307	240	21	1,298	10,506	24,087		
1987	78	0	78	17	868	30	339	248	24	1,509	11,018	25,109		
1988	82	0	82	17	1,054	12	361	235	34	1,697	11,524	26,026		
1989	11	0	11	17	925	34	391	206	16	1,573	12,092	27,124		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**5.4**	**0.0**	**5.4**	**4.8**	**2.8**	**0.5**	**0.7**	**1.4**	**1.1**	**6.5**	**6.7**	**23.4**	**16.6**	**40.0**
1961	4.2	0.0	4.2	5.1	2.7	0.6	0.6	1.5	1.1	6.5	7.1	22.9	17.3	40.2
1962	4.7	0.0	4.7	6.4	3.1	0.6	0.8	1.5	1.1	7.0	8.0	26.2	19.3	45.5
1963	4.4	0.0	4.4	6.8	2.6	0.5	0.8	1.5	1.1	6.5	8.6	26.2	20.4	46.7
1964	4.3	0.0	4.3	6.5	2.4	0.4	1.0	1.5	1.2	6.5	9.5	26.7	22.6	49.3
1965	**3.7**	**0.0**	**3.7**	**7.3**	**2.0**	**0.4**	**1.0**	**1.6**	**0.8**	**5.8**	**8.6**	**25.4**	**20.6**	**46.0**
1966	4.7	0.0	4.7	6.9	3.4	0.4	1.0	1.0	0.7	6.5	9.1	27.2	21.8	49.0
1967	4.0	0.0	4.0	9.2	3.4	0.4	0.9	1.0	0.7	6.4	10.3	29.8	24.5	54.3
1968	3.9	0.0	3.9	10.9	3.9	0.4	1.0	1.0	0.7	6.9	11.7	33.4	27.9	61.4
1969	4.7	0.0	4.7	13.4	4.0	0.4	1.2	1.0	0.5	7.1	12.7	37.9	30.4	68.3
1970	**3.8**	**0.0**	**3.8**	**14.2**	**4.2**	**0.3**	**1.2**	**1.1**	**0.5**	**7.2**	**14.5**	**39.7**	**35.0**	**74.7**
1971	3.5	0.0	3.5	14.8	3.8	0.4	1.2	1.1	1.1	7.6	15.6	41.5	37.8	79.3
1972	3.1	0.0	3.1	14.5	4.3	0.3	1.3	1.1	1.3	8.3	17.2	43.2	41.4	84.6
1973	3.7	0.0	3.7	16.5	4.0	0.2	1.3	1.2	1.4	8.1	19.6	47.9	46.9	94.8
1974	3.7	0.0	3.7	15.2	3.4	0.2	1.1	1.1	1.2	7.0	19.6	45.5	47.7	93.2
1975	**3.7**	**0.0**	**3.7**	**17.6**	**2.9**	**0.1**	**1.1**	**1.2**	**1.0**	**6.4**	**24.3**	**52.0**	**58.6**	**110.6**
1976	2.3	0.0	2.3	35.9	4.0	0.1	1.3	1.2	2.4	9.0	25.8	72.9	62.1	135.0
1977	1.8	0.0	1.8	32.8	4.1	0.1	1.3	1.2	2.7	9.4	27.6	71.6	66.5	138.2
1978	0.7	0.0	0.7	25.5	3.5	0.1	1.2	1.2	2.4	8.5	29.0	63.6	71.0	134.7
1979	0.8	0.0	0.8	18.2	3.4	0.1	0.9	1.2	2.4	8.1	28.2	55.4	68.2	123.5
1980	**3.1**	**0.0**	**3.1**	**23.6**	**2.8**	**0.1**	**1.0**	**1.3**	**0.2**	**5.4**	**29.7**	**61.9**	**72.2**	**134.1**
1981	1.6	0.0	1.6	19.9	2.5	0.2	1.0	1.3	0.6	5.7	28.7	55.9	68.3	124.2
1982	1.9	0.0	1.9	16.0	2.4	0.1	0.8	1.3	0.2	4.8	31.2	53.9	75.0	129.0
1983	2.8	0.0	2.8	17.0	4.8	0.1	1.0	1.6	0.5	8.0	31.7	59.5	76.0	135.5
1984	1.8	0.0	1.8	17.1	5.0	0.1	1.1	1.1	0.5	7.7	31.4	58.0	72.9	130.9
1985	**1.0**	*	**1.1**	**15.7**	**4.9**	**0.1**	**1.2**	**1.2**	**0.3**	**7.8**	**33.4**	**57.9**	**78.2**	**136.2**
1986	3.5	0.0	3.5	16.4	4.1	0.2	1.1	1.3	0.1	6.8	35.8	62.5	82.2	144.7
1987	2.0	0.0	2.0	17.7	5.1	0.2	1.2	1.3	0.1	7.9	37.6	65.1	85.7	150.8
1988	2.1	0.0	2.1	17.9	6.1	0.1	1.3	1.2	0.2	9.0	39.3	68.3	88.8	157.1
1989	0.3	0.0	0.3	17.0	5.4	0.2	1.4	1.1	0.1	8.2	41.3	66.7	92.5	159.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 258. Industrial Energy Consumption Estimates, 1960–1989, South Carolina

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**1,693**	**65**	**1,758**	**23**	**1,636**	**1,959**	**920**	**273**	**86**	**614**	**3,392**	**441**	**9,321**	**97**	**6,234**	**15,506**
1961	1,752	58	1,810	25	1,607	2,000	724	275	83	620	3,345	437	9,091	89	7,245	17,657
1962	1,677	54	1,731	32	1,723	2,234	762	336	89	650	3,277	432	9,501	85	7,226	17,372
1963	1,773	60	1,833	34	1,822	2,158	712	422	89	611	3,226	502	9,542	73	7,679	18,364
1964	1,568	68	1,637	40	1,583	1,666	541	494	93	538	3,587	427	8,931	93	7,977	18,997
1965	**1,775**	**60**	**1,835**	**47**	**1,721**	**1,748**	**621**	**415**	**108**	**517**	**2,438**	**424**	**7,993**	**79**	**7,450**	**17,789**
1966	1,743	51	1,794	57	1,924	2,261	621	419	112	449	2,302	360	8,449	65	7,876	18,899
1967	1,469	51	1,520	60	1,929	2,341	527	468	108	401	2,124	391	8,289	61	8,228	19,658
1968	1,230	44	1,274	69	1,851	2,299	471	512	119	380	1,947	435	8,015	52	8,870	21,163
1969	1,417	37	1,454	78	2,012	2,411	391	641	147	322	1,606	441	7,971	55	9,680	23,122
1970	**1,830**	**30**	**1,861**	**79**	**2,220**	**2,655**	**313**	**775**	**149**	**332**	**1,608**	**451**	**8,502**	**37**	**10,110**	**24,499**
1971	1,521	24	1,544	79	2,107	2,457	488	864	149	286	3,088	963	10,402	46	10,967	26,514
1972	1,317	15	1,332	82	2,200	2,787	265	1,022	160	209	3,661	1,057	11,361	48	13,955	33,591
1973	1,189	14	1,203	86	2,191	2,590	156	1,066	235	279	4,014	1,229	11,761	46	14,847	35,544
1974	1,355	15	1,370	73	2,683	2,128	170	983	225	236	3,305	1,274	11,005	43	14,512	35,385
1975	**1,181**	**19**	**1,200**	**70**	**2,440**	**2,040**	**143**	**1,066**	**248**	**209**	**2,687**	**1,180**	**10,011**	**48**	**12,766**	**30,793**
1976	1,335	21	1,356	74	2,052	2,633	214	1,286	276	170	6,314	2,172	15,118	47	14,365	34,604
1977	1,366	18	1,384	69	2,116	3,189	485	1,335	282	146	7,234	2,512	17,299	49	15,068	36,384
1978	1,434	15	1,450	56	2,169	2,256	448	1,423	303	133	6,536	2,700	15,966	45	15,419	37,723
1979	1,493	10	1,503	76	1,971	2,066	150	1,206	317	113	6,298	3,241	15,363	51	15,986	38,579
1980	**1,788**	**17**	**1,805**	**92**	**1,535**	**1,875**	**127**	**1,368**	**282**	**96**	**4,245**	**4,020**	**13,549**	**49**	**15,979**	**38,855**
1981	2,052	22	2,074	95	1,455	1,798	97	919	271	73	2,580	5,229	12,422	49	18,016	42,938
1982	2,274	18	2,292	62	1,203	1,501	54	997	247	54	2,013	4,018	10,087	49	17,622	42,326
1983	2,190	10	2,200	63	1,901	1,472	106	702	259	28	2,915	3,113	10,496	49	18,658	44,702
1984	2,218	8	2,226	70	1,242	1,510	49	538	276	297	2,827	3,692	10,429	49	21,429	49,761
1985	**2,508**	**17**	**2,525**	**63**	**1,367**	**1,699**	**102**	**831**	**257**	**701**	**1,553**	**3,709**	**10,219**	**49**	**21,829**	**51,190**
1986	2,447	18	2,465	61	2,068	1,532	68	821	251	634	1,112	4,506	10,992	49	22,805	52,287
1987	2,540	22	2,562	65	2,425	1,395	87	1,135	284	665	1,287	5,104	12,382	49	24,036	54,779
1988	2,590	12	2,602	69	3,297	1,671	82	1,163	274	642	1,800	5,220	14,148	49	24,113	54,453
1989	2,481	10	2,491	75	2,313	1,907	83	1,181	281	733	875	5,086	12,459	49	24,301	54,510

Year	Industrial Hydro-Power	Electricity	Net Energy[4]	Total[4]
	Trillion Btu			
1960	**1.0**	**21.3**	**146.5**	**52.9**	**199.4**
1961	0.9	24.7	152.3	60.2	212.6
1962	0.9	24.7	160.0	59.3	219.2
1963	0.8	26.2	166.5	62.7	229.2
1964	1.0	27.2	165.1	64.8	229.9
1965	**0.8**	**25.4**	**169.1**	**60.7**	**229.8**
1966	0.7	26.9	183.2	64.5	247.7
1967	0.6	28.1	178.7	67.1	245.8
1968	0.5	30.3	181.2	72.2	253.4
1969	0.6	33.0	197.2	78.9	276.1
1970	**0.4**	**34.5**	**210.1**	**83.6**	**293.7**
1971	0.5	37.4	217.0	90.5	307.5
1972	0.5	47.6	230.3	114.6	344.9
1973	0.5	50.7	236.5	121.3	357.8
1974	0.4	49.5	221.9	120.7	342.6
1975	**0.5**	**43.6**	**203.1**	**105.1**	**308.2**
1976	0.5	49.0	246.3	118.1	364.4
1977	0.5	51.4	257.3	124.1	381.4
1978	0.5	52.6	238.8	128.7	367.5
1979	0.5	54.5	258.6	131.6	390.2
1980	**0.5**	**54.5**	**272.3**	**132.6**	**404.9**
1981	0.5	61.5	281.5	146.5	428.0
1982	0.5	60.1	237.8	144.4	382.2
1983	0.5	63.7	245.0	152.5	397.5
1984	0.5	73.1	260.7	169.8	430.5
1985	**0.5**	**74.5**	**260.8**	**174.7**	**435.4**
1986	0.5	77.8	266.1	178.4	444.5
1987	0.5	82.0	284.6	186.9	471.5
1988	0.5	82.3	301.0	185.8	486.8
1989	0.5	82.9	292.7	186.0	478.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 259. Transportation Energy Consumption Estimates, 1960–1989, South Carolina

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours	
1960	**30**	**1**	**215**	**1,196**	**3,131**	**13**	**289**	**17,205**	**1,139**	**23,188**	**0**	**0**
1961	8	1	171	1,090	3,174	16	281	17,516	1,568	23,816	0	0
1962	7	2	320	1,277	3,437	18	274	18,312	2,421	26,060	0	0
1963	7	2	297	2,045	3,556	18	274	19,012	2,377	27,579	0	0
1964	6	2	307	1,773	3,622	25	287	19,415	1,225	26,654	0	0
1965	**6**	**2**	**354**	**1,556**	**2,958**	**12**	**243**	**20,612**	**1,313**	**27,048**	**0**	**0**
1966	5	3	391	1,592	3,115	9	252	21,945	1,570	28,873	0	0
1967	4	2	364	1,558	3,461	19	226	22,966	813	29,406	0	0
1968	3	3	293	2,390	4,099	23	248	24,890	1,110	33,053	0	0
1969	2	3	253	2,654	3,650	40	233	26,442	927	34,199	0	0
1970	**3**	**3**	**228**	**2,899**	**3,170**	**60**	**237**	**28,220**	**1,605**	**36,420**	**0**	**0**
1971	2	3	201	3,018	3,258	74	240	30,013	1,409	38,212	0	0
1972	1	3	221	2,957	3,108	87	257	32,425	1,090	40,145	0	0
1973	1	4	182	4,493	2,794	88	258	34,055	1,227	43,097	0	0
1974	1	2	146	4,448	2,800	82	247	34,014	869	42,606	0	0
1975	*	**3**	**142**	**4,019**	**2,692**	**79**	**213**	**34,995**	**419**	**42,560**	**0**	**0**
1976	*	3	164	4,555	2,562	99	237	37,012	672	45,302	0	0
1977	*	3	141	5,324	2,732	110	261	37,843	424	46,835	0	0
1978	0	4	159	5,410	2,854	124	280	39,631	604	49,061	0	0
1979	0	3	155	6,863	2,941	51	293	37,551	790	48,645	0	0
1980	**0**	**3**	**149**	**6,156**	**3,062**	**33**	**261**	**35,181**	**844**	**45,686**	**0**	**0**
1981	0	3	134	5,661	2,865	70	250	35,272	1,066	45,318	0	0
1982	0	3	119	6,253	2,745	74	228	35,138	811	45,369	0	0
1983	0	3	133	6,943	2,529	94	239	35,564	935	46,437	0	0
1984	0	3	122	7,800	3,080	104	255	36,627	882	48,869	0	0
1985	**0**	**2**	**136**	**7,855**	**3,184**	**108**	**237**	**36,778**	**577**	**48,875**	**0**	**0**
1986	0	2	156	8,171	3,168	59	232	38,410	445	50,641	0	0
1987	0	2	119	8,073	3,193	60	262	38,060	351	50,119	0	0
1988	0	2	127	8,567	3,229	68	253	36,572	585	49,400	0	0
1989	0	3	120	8,132	3,117	74	260	41,689	558	53,950	0	0

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity: Net Energy[4]	Electricity: Total[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu													
1960	**0.8**	**1.3**	**1.1**	**7.0**	**16.8**	**0.1**	**1.8**	**90.4**	**7.2**	**124.2**	**0.0**	**126.2**	**0.0**	**126.2**
1961	0.2	1.5	0.9	6.4	17.0	0.1	1.7	92.0	9.9	127.9	0.0	129.6	0.0	129.6
1962	0.2	1.7	1.6	7.4	18.4	0.1	1.7	96.2	15.2	140.6	0.0	142.5	0.0	142.5
1963	0.2	2.1	1.5	11.9	19.1	0.1	1.7	99.9	14.9	149.0	0.0	151.3	0.0	151.3
1964	0.2	2.1	1.6	10.3	19.4	0.1	1.7	102.0	7.7	142.8	0.0	145.1	0.0	145.1
1965	**0.1**	**2.4**	**1.8**	**9.1**	**15.8**	*	**1.5**	**108.3**	**8.3**	**144.8**	**0.0**	**147.3**	**0.0**	**147.3**
1966	0.1	2.7	2.0	9.3	16.7	*	1.5	115.3	9.9	154.7	0.0	157.5	0.0	157.5
1967	0.1	2.5	1.8	9.1	18.6	0.1	1.4	120.6	5.1	156.7	0.0	159.3	0.0	159.3
1968	0.1	2.7	1.5	13.9	22.0	0.1	1.5	130.7	7.0	176.8	0.0	179.6	0.0	179.6
1969	0.1	3.0	1.3	15.5	19.7	0.2	1.4	138.9	5.8	182.7	0.0	185.7	0.0	185.7
1970	**0.1**	**3.4**	**1.2**	**16.9**	**17.1**	**0.2**	**1.4**	**148.2**	**10.1**	**195.2**	**0.0**	**198.6**	**0.0**	**198.6**
1971	*	3.3	1.0	17.6	17.6	0.3	1.5	157.7	8.9	204.4	0.0	207.8	0.0	207.8
1972	*	3.1	1.1	17.2	16.8	0.3	1.6	170.3	6.9	214.2	0.0	217.3	0.0	217.3
1973	*	3.6	0.9	26.2	15.1	0.3	1.6	178.9	7.7	230.7	0.0	234.3	0.0	234.3
1974	*	2.2	0.7	25.9	15.1	0.3	1.5	178.7	5.5	227.7	0.0	229.9	0.0	229.9
1975	*	**2.7**	**0.7**	**23.4**	**14.5**	**0.3**	**1.3**	**183.8**	**2.6**	**226.7**	**0.0**	**229.4**	**0.0**	**229.4**
1976	*	3.5	0.8	26.5	13.8	0.4	1.4	194.4	4.2	241.7	0.0	245.1	0.0	245.1
1977	*	3.3	0.7	31.0	14.8	0.4	1.6	198.8	2.7	249.9	0.0	253.2	0.0	253.2
1978	0.0	4.0	0.8	31.5	15.5	0.5	1.7	208.2	3.8	261.9	0.0	265.9	0.0	265.9
1979	0.0	2.9	0.8	40.0	15.9	0.2	1.8	197.3	5.0	260.9	0.0	263.8	0.0	263.8
1980	**0.0**	**3.1**	**0.8**	**35.9**	**16.6**	**0.1**	**1.6**	**184.8**	**5.3**	**245.0**	**0.0**	**248.1**	**0.0**	**248.1**
1981	0.0	3.3	0.7	33.0	15.5	0.3	1.5	185.3	6.7	242.9	0.0	246.2	0.0	246.2
1982	0.0	3.0	0.6	36.4	14.8	0.3	1.4	184.6	5.1	243.2	0.0	246.2	0.0	246.2
1983	0.0	2.7	0.7	40.4	13.7	0.3	1.4	186.8	5.9	249.3	0.0	252.0	0.0	252.0
1984	0.0	2.7	0.6	45.4	16.6	0.4	1.5	192.4	5.5	262.5	0.0	265.2	0.0	265.2
1985	**0.0**	**2.3**	**0.7**	**45.8**	**17.2**	**0.4**	**1.4**	**193.2**	**3.6**	**262.3**	**0.0**	**264.6**	**0.0**	**264.6**
1986	0.0	2.4	0.8	47.6	17.2	0.2	1.4	201.8	2.8	271.8	0.0	274.2	0.0	274.2
1987	0.0	2.5	0.6	47.0	17.3	0.2	1.6	199.9	2.2	268.9	0.0	271.4	0.0	271.4
1988	0.0	2.6	0.6	49.9	17.5	0.2	1.5	192.1	3.7	265.6	0.0	268.2	0.0	268.2
1989	0.0	2.6	0.6	47.4	16.9	0.3	1.6	219.0	3.5	289.3	0.0	291.9	0.0	291.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 260. Estimates of Energy Input at Electric Utilities, 1960-1989, South Carolina

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**1,596**	**0**	**1,596**	**23**	**24**	**9**	**0**	**33**	**0**	**3,513**	**0**	**0**	
1961	1,893	0	1,893	22	19	7	0	26	0	3,149	0	0	
1962	2,151	0	2,151	21	36	13	0	49	0	2,981	0	0	
1963	2,465	0	2,465	22	64	24	0	88	*	2,601	0	0	
1964	2,320	0	2,320	19	20	8	0	28	39	4,262	0	0	
1965	**2,690**	**0**	**2,690**	**19**	**44**	**16**	**0**	**60**	**75**	**3,438**	**0**	**0**	
1966	3,178	0	3,178	18	101	37	0	138	73	2,546	0	0	
1967	3,582	0	3,582	15	210	78	0	287	8	2,593	0	0	
1968	3,410	0	3,410	29	496	183	0	680	0	2,650	0	0	
1969	3,586	0	3,586	29	1,155	427	0	1,582	0	3,035	0	0	
1970	**3,708**	**0**	**3,708**	**45**	**2,042**	**756**	**0**	**2,798**	**7**	**2,256**	**0**	**0**	
1971	4,543	0	4,543	40	887	693	0	1,580	2,414	3,439	0	0	
1972	5,701	0	5,701	25	1,402	889	0	2,291	4,829	3,300	0	0	
1973	5,519	0	5,519	25	3,939	662	0	4,602	6,166	3,862	0	0	
1974	4,894	0	4,894	22	5,212	435	0	5,647	11,057	3,413	0	0	
1975	**4,401**	**0**	**4,401**	**15**	**4,400**	**118**	**0**	**4,517**	**19,458**	**4,366**	**0**	**0**	
1976	5,551	0	5,551	4	4,264	307	0	4,571	17,850	3,368	0	0	
1977	6,455	0	6,455	3	5,059	1,564	0	6,623	17,239	3,002	0	0	
1978	6,495	0	6,495	5	5,664	858	0	6,523	19,457	3,162	0	0	
1979	6,848	0	6,848	5	3,463	422	0	3,885	18,220	3,908	0	0	
1980	**7,927**	**0**	**7,927**	**5**	**2,080**	**567**	**0**	**2,647**	**17,404**	**2,976**	**0**	**0**	
1981	8,679	0	8,679	5	1,601	502	0	2,104	17,327	1,208	0	0	
1982	8,581	0	8,581	1	281	196	0	477	13,156	2,380	0	0	
1983	6,989	0	6,989	1	8	132	0	140	25,581	3,049	0	0	
1984	7,428	0	7,428	*	0	143	0	143	23,235	3,128	0	0	
1985	**7,888**	**0**	**7,888**	*	1	**183**	**0**	**184**	**31,625**	**1,786**	**0**	**0**	
1986	7,777	0	7,777	1	2	116	0	118	35,625	1,217	0	0	
1987	9,019	0	9,019	1	2	114	0	116	39,290	2,160	0	0	
1988	9,210	0	9,210	2	2	193	0	195	40,746	631	0	0	
1989	9,472	0	9,472	3	33	252	0	285	40,780	2,016	0	0	
	Trillion Btu												
1960	**42.7**	**0.0**	**42.7**	**24.1**	**0.2**	**0.1**	**0.0**	**0.2**	**0.0**	**37.8**	**0.0**	**0.0**	**104.8**
1961	50.8	0.0	50.8	22.6	0.1	*	0.0	0.2	0.0	33.5	0.0	0.0	107.1
1962	57.2	0.0	57.2	22.2	0.2	0.1	0.0	0.3	0.0	31.5	0.0	0.0	111.1
1963	64.9	0.0	64.9	23.1	0.4	0.1	0.0	0.5	*	27.3	0.0	0.0	115.8
1964	60.6	0.0	60.6	19.4	0.1	*	0.0	0.2	0.5	44.6	0.0	0.0	125.3
1965	**69.5**	**0.0**	**69.5**	**19.6**	**0.3**	**0.1**	**0.0**	**0.4**	**0.9**	**35.9**	**0.0**	**0.0**	**126.2**
1966	80.6	0.0	80.6	19.0	0.6	0.2	0.0	0.9	0.9	26.5	0.0	0.0	127.8
1967	90.4	0.0	90.4	15.8	1.3	0.5	0.0	1.8	0.1	27.0	0.0	0.0	135.0
1968	86.3	0.0	86.3	30.0	3.1	1.1	0.0	4.2	0.0	27.6	0.0	0.0	148.1
1969	89.1	0.0	89.1	29.9	7.3	2.5	0.0	9.7	0.0	31.7	0.0	0.0	160.5
1970	**90.0**	**0.0**	**90.0**	**46.3**	**12.8**	**4.4**	**0.0**	**17.2**	**0.1**	**23.7**	**0.0**	**0.0**	**177.3**
1971	110.3	0.0	110.3	40.9	5.6	4.0	0.0	9.6	26.2	36.0	0.0	0.0	223.1
1972	139.0	0.0	139.0	25.3	8.8	5.2	0.0	14.0	52.1	34.2	0.0	0.0	264.7
1973	134.0	0.0	134.0	25.9	24.8	3.9	0.0	28.6	67.2	40.1	0.0	0.0	295.9
1974	117.7	0.0	117.7	22.1	32.8	2.5	0.0	35.3	123.4	35.6	0.0	0.0	334.2
1975	**106.3**	**0.0**	**106.3**	**15.0**	**27.7**	**0.7**	**0.0**	**28.3**	**214.3**	**45.4**	**0.0**	**0.0**	**409.4**
1976	135.2	0.0	135.2	3.9	26.8	1.8	0.0	28.6	197.2	34.9	0.0	0.0	399.8
1977	154.1	0.0	154.1	2.6	31.8	9.1	0.0	40.9	185.6	31.3	0.0	0.0	414.5
1978	157.0	0.0	157.0	5.4	35.6	5.0	0.0	40.6	212.9	32.8	0.0	0.0	448.7
1979	169.4	0.0	169.4	5.6	21.8	2.5	0.0	24.2	198.2	40.5	0.0	0.0	437.9
1980	**196.9**	**0.0**	**196.9**	**5.6**	**13.1**	**3.3**	**0.0**	**16.4**	**189.8**	**30.9**	**0.0**	**0.0**	**439.6**
1981	213.6	0.0	213.6	5.1	10.1	2.9	0.0	13.0	191.1	12.6	0.0	0.0	435.4
1982	212.5	0.0	212.5	0.5	1.8	1.1	0.0	2.9	145.7	24.9	0.0	0.0	386.5
1983	175.2	0.0	175.2	1.0	*	0.8	0.0	0.8	279.0	32.1	0.0	0.0	488.0
1984	186.1	0.0	186.1	0.4	0.0	0.8	0.0	0.8	251.9	32.3	0.0	0.0	471.6
1985	**198.2**	**0.0**	**198.2**	**0.5**	*	**1.1**	**0.0**	**1.1**	**344.1**	**18.5**	**0.0**	**0.0**	**562.4**
1986	197.0	0.0	197.0	1.4	*	0.7	0.0	0.7	384.7	12.5	0.0	0.0	596.3
1987	228.2	0.0	228.2	0.6	*	0.7	0.0	0.7	423.4	22.1	0.0	0.0	674.9
1988	233.5	0.0	233.5	2.5	*	1.1	0.0	1.1	437.7	6.5	0.0	0.0	681.2
1989	239.0	0.0	239.0	2.8	0.2	1.5	0.0	1.7	437.3	20.8	0.0	0.0	701.6

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 261. Energy Consumption Estimates by Source, 1960–1989, South Dakota

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**374**	**25**	**724**	**106**	**2,941**	**1,145**	**975**	**1,370**	**193**	**8,561**	**102**	**0**	**16,118**	**0**	**1,156**	**0**	**0**	**-979**	
1961	360	26	759	75	3,066	1,164	881	1,422	188	8,671	68	0	16,294	0	1,142	0	0	-610	
1962	370	27	562	105	3,184	1,254	898	1,502	186	9,070	198	0	16,959	0	1,502	0	0	-1,784	
1963	342	25	851	144	3,335	1,290	932	1,565	186	9,113	276	0	17,692	0	2,909	0	0	-5,101	
1964	307	28	801	132	3,819	1,333	955	1,449	195	8,822	122	0	17,629	0	3,094	0	0	-5,138	
1965	**310**	**27**	**588**	**128**	**3,766**	**1,111**	**563**	**1,541**	**158**	**8,955**	**71**	**0**	**16,881**	**0**	**3,872**	**0**	**0**	**-7,049**	
1966	294	28	752	159	4,035	1,161	368	1,656	164	9,131	88	0	17,514	9	4,849	0	0	-9,454	
1967	313	28	724	148	3,792	1,282	120	2,050	143	9,184	70	0	17,514	67	4,930	0	0	-9,873	
1968	304	29	713	128	3,784	1,532	360	2,213	157	9,500	127	0	18,515	-3	5,645	0	0	-11,289	
1969	320	34	747	101	3,742	1,390	224	2,554	163	9,467	195	0	18,583	0	6,350	0	0	-13,141	
1970	**338**	**36**	**894**	**99**	**4,375**	**1,173**	**16**	**2,712**	**166**	**9,903**	**328**	**0**	**19,666**	**0**	**6,579**	**0**	**0**	**-13,856**	
1971	335	32	964	83	4,610	1,207	10	2,675	164	10,244	211	0	20,168	0	7,778	0	0	-16,609	
1972	312	34	1,019	88	4,536	1,138	7	3,149	176	10,771	343	0	21,226	0	7,432	0	0	-14,694	
1973	385	31	1,236	74	4,243	1,071	14	2,922	194	10,989	234	0	20,977	0	4,837	0	0	-6,663	
1974	446	32	865	87	3,691	1,102	5	2,780	186	10,702	133	0	19,550	0	5,661	0	0	-8,598	
1975	**1,888**	**33**	**862**	**77**	**3,841**	**1,056**	**5**	**2,930**	**160**	**10,636**	**218**	**0**	**19,784**	**0**	**7,927**	**0**	**0**	**-18,221**	
1976	2,838	39	739	74	3,334	1,011	227	3,027	178	10,944	307	0	19,840	0	7,052	0	0	-17,237	
1977	2,732	36	561	79	3,013	1,083	174	3,773	159	11,298	284	0	20,425	0	5,294	0	0	-10,627	
1978	3,004	35	782	78	3,718	1,334	202	3,192	171	11,417	283	0	21,177	0	6,831	0	0	-14,973	
1979	2,771	26	793	81	6,359	1,326	35	2,453	179	10,772	221	0	22,219	0	6,359	0	0	-12,231	
1980	**2,827**	**24**	**638**	**97**	**4,801**	**1,311**	**15**	**2,530**	**160**	**9,688**	**122**	**0**	**19,362**	**0**	**5,818**	**0**	**0**	**-10,269**	
1981	2,759	22	528	103	4,414	1,136	24	1,779	153	9,192	158	0	17,487	0	5,306	0	0	-8,872	
1982	2,746	25	638	107	5,076	1,138	37	2,231	140	9,060	51	0	18,477	0	5,426	0	0	-8,220	
1983	2,409	23	534	98	4,473	956	35	2,245	146	8,952	136	0	17,574	0	5,526	0	0	-6,535	
1984	2,719	25	805	85	4,892	1,024	40	1,663	156	8,885	126	0	17,676	0	5,722	0	0	-7,742	
1985	**2,703**	**25**	**841**	**87**	**5,003**	**1,019**	**62**	**2,054**	**145**	**9,277**	**43**	**0**	**18,532**	**0**	**5,333**	**0**	**0**	**-5,850**	
1986	2,281	23	815	85	6,060	516	36	2,481	142	9,004	72	0	19,210	0	5,736	0	0	-5,751	
1987	1,101	21	674	80	5,915	669	17	3,319	161	8,995	57	0	19,888	0	5,386	0	0	-501	
1988	2,591	24	878	89	6,227	875	17	2,405	155	9,187	90	0	19,923	0	5,286	0	0	-4,486	
1989	2,541	26	776	88	5,439	1,024	15	5,187	159	9,121	84	0	21,894	0	4,614	0	0	-1,620	
									Trillion Btu										
1960	**6.7**	**25.4**	**4.8**	**0.5**	**17.1**	**6.1**	**5.5**	**5.5**	**1.2**	**45.0**	**0.6**	**0.0**	**86.4**	**0.0**	**12.4**	**0.0**	**0.0**	**-3.3**	**127.6**
1961	6.3	26.7	5.0	0.4	17.9	6.2	5.0	5.7	1.1	45.5	0.4	0.0	87.3	0.0	12.2	0.0	0.0	-2.1	130.4
1962	6.7	28.4	3.7	0.5	18.5	6.7	5.1	6.0	1.1	47.6	1.2	0.0	90.7	0.0	15.9	0.0	0.0	-6.1	135.5
1963	6.2	25.1	5.6	0.7	19.4	6.9	5.3	6.3	1.1	47.9	1.7	0.0	95.0	0.0	30.5	0.0	0.0	-17.4	139.4
1964	5.5	27.5	5.3	0.7	22.2	7.1	5.4	5.8	1.2	46.3	0.8	0.0	94.9	0.0	32.4	0.0	0.0	-17.5	142.8
1965	**5.7**	**26.9**	**3.9**	**0.6**	**21.9**	**6.0**	**3.2**	**6.2**	**1.0**	**47.0**	**0.4**	**0.0**	**90.3**	**0.0**	**40.5**	**0.0**	**0.0**	**-24.1**	**139.2**
1966	5.2	28.3	5.0	0.8	23.5	6.2	2.1	6.6	1.0	48.0	0.6	0.0	93.8	0.1	50.5	0.0	0.0	-32.3	145.6
1967	5.6	27.8	4.8	0.7	22.1	6.9	0.7	7.9	0.9	48.2	0.4	0.0	92.6	0.8	51.4	0.0	0.0	-33.7	144.5
1968	5.2	29.0	4.7	0.6	22.0	8.2	2.0	8.5	1.0	49.9	0.8	0.0	97.8	*	58.7	0.0	0.0	-38.5	152.1
1969	5.5	34.0	5.0	0.5	21.8	7.5	1.3	9.7	1.0	49.7	1.2	0.0	97.7	0.0	66.3	0.0	0.0	-44.8	158.7
1970	**5.7**	**36.5**	**5.9**	**0.5**	**25.5**	**6.3**	**0.1**	**10.2**	**1.0**	**52.0**	**2.1**	**0.0**	**103.7**	**0.0**	**69.0**	**0.0**	**0.0**	**-47.3**	**167.6**
1971	5.8	32.0	6.4	0.4	26.9	6.5	0.1	10.1	1.0	53.8	1.3	0.0	106.5	0.0	81.5	0.0	0.0	-56.7	169.1
1972	5.3	34.2	6.8	0.4	26.4	6.1	*	11.8	1.1	56.6	2.2	0.0	111.5	0.0	77.1	0.0	0.0	-50.1	178.0
1973	6.3	31.3	8.2	0.4	24.7	5.8	0.1	10.9	1.2	57.7	1.5	0.0	110.5	0.0	50.3	0.0	0.0	-22.7	175.6
1974	7.4	32.0	5.7	0.4	21.5	6.0	*	10.4	1.1	56.2	0.8	0.0	102.2	0.0	59.1	0.0	0.0	-29.3	171.4
1975	**24.3**	**32.5**	**5.7**	**0.4**	**22.4**	**5.7**	*	**10.9**	**1.0**	**55.9**	**1.4**	**0.0**	**103.3**	**0.0**	**82.5**	**0.0**	**0.0**	**-62.2**	**180.5**
1976	37.1	39.2	4.9	0.4	19.4	5.5	1.3	11.2	1.1	57.5	1.9	0.0	103.2	0.0	73.1	0.0	0.0	-58.8	193.8
1977	35.6	36.1	3.7	0.4	17.6	5.9	1.0	13.9	1.0	59.3	1.8	0.0	104.5	0.0	55.2	0.0	0.0	-36.3	195.2
1978	38.6	35.4	5.2	0.4	21.7	7.2	1.1	11.7	1.0	60.0	1.8	0.0	110.1	0.0	70.8	0.0	0.0	-51.1	203.7
1979	35.5	25.6	5.3	0.4	37.0	7.2	0.2	9.0	1.1	56.6	1.4	0.0	118.2	0.0	65.8	0.0	0.0	-41.7	203.4
1980	**36.6**	**24.0**	**4.2**	**0.5**	**28.0**	**7.1**	**0.1**	**9.3**	**1.0**	**50.9**	**0.8**	**0.0**	**101.8**	**0.0**	**60.4**	**0.0**	**0.0**	**-35.0**	**187.8**
1981	36.2	22.1	3.5	0.5	25.7	6.1	0.1	6.5	0.9	48.3	1.0	0.0	92.7	0.0	55.5	0.0	0.0	-30.3	176.2
1982	37.0	25.1	4.2	0.5	29.6	6.1	0.2	8.1	0.8	47.6	0.3	0.0	97.5	0.0	56.7	0.0	0.0	-28.0	188.2
1983	30.7	23.6	3.5	0.5	26.1	5.2	0.2	8.1	0.9	47.0	0.9	0.0	92.3	0.0	58.1	0.0	0.0	-22.3	182.5
1984	34.4	24.9	5.3	0.4	28.5	5.5	0.2	6.0	0.9	46.7	0.8	0.0	94.4	0.0	59.1	0.0	0.0	-26.4	186.3
1985	**34.5**	**25.5**	**5.6**	**0.4**	**29.1**	**5.5**	**0.4**	**7.4**	**0.9**	**48.7**	**0.3**	**0.0**	**98.3**	**0.0**	**55.1**	**0.0**	**0.0**	[illegible]	[illegible]
1986	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.6	0.2	9.0	0.9	47.3	0.5	0.0	101.8	0.0	58.9	0.0	0.0	-19.6	193.7
1987	14.6	21.4	4.5	0.4	34.5	3.6	0.1	12.1	1.0	47.3	0.4	0.0	103.8	0.0	55.2	0.0	0.0	-1.7	193.2
1988	33.8	24.7	5.8	0.4	36.3	4.7	0.1	8.8	0.9	48.3	0.6	0.0	105.9	0.0	54.1	0.0	0.0	-15.3	203.2
1989	32.5	25.9	5.2	0.4	31.7	5.5	0.1	19.1	1.0	47.9	0.5	0.0	111.4	0.0	47.7	0.0	0.0	-5.5	212.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] *Includes industrial and electric utility generation* and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 262. Residential Energy Consumption Estimates, 1960-1989, South Dakota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**43**	**0**	**43**	**8**	**567**	**903**	**1,067**	**2,537**	**847**	**2,107**		
1961	40	0	40	8	550	842	1,091	2,483	949	2,312		
1962	39	0	39	9	529	875	1,174	2,578	1,026	2,467		
1963	31	0	31	8	507	910	1,182	2,599	1,088	2,602		
1964	27	0	27	9	624	918	1,110	2,653	1,136	2,706		
1965	**24**	**0**	**24**	**10**	**677**	**524**	**1,198**	**2,398**	**1,183**	**2,824**		
1966	25	0	25	10	723	337	1,254	2,314	1,239	2,973		
1967	22	0	22	10	693	60	1,524	2,277	1,258	3,006		
1968	17	0	17	10	725	305	1,635	2,665	1,354	3,231		
1969	14	0	14	13	618	184	1,895	2,697	1,466	3,503		
1970	**11**	**0**	**11**	**14**	**763**	**14**	**2,010**	**2,787**	**1,586**	**3,843**		
1971	10	0	10	12	684	9	1,969	2,661	1,665	4,026		
1972	8	0	8	13	783	6	2,241	3,029	1,806	4,347		
1973	8	0	8	11	701	8	1,994	2,703	1,843	4,413		
1974	13	0	13	11	595	3	1,823	2,421	1,914	4,666		
1975	**8**	**0**	**8**	**12**	**574**	**3**	**1,994**	**2,571**	**2,068**	**4,987**		
1976	3	0	3	15	392	126	1,927	2,444	2,139	5,151		
1977	8	0	8	14	281	91	2,016	2,389	2,198	5,308		
1978	3	0	3	15	315	103	2,105	2,523	2,493	6,099		
1979	5	0	5	12	946	13	1,095	2,054	2,656	6,410		
1980	**6**	**0**	**6**	**11**	**762**	**10**	**1,165**	**1,937**	**2,623**	**6,378**		
1981	20	0	20	10	700	14	927	1,641	2,503	5,966		
1982	7	0	7	12	873	22	947	1,842	2,616	6,283		
1983	1	0	1	11	608	27	1,126	1,761	2,769	6,635		
1984	2	0	2	11	656	29	957	1,642	2,766	6,422		
1985	**6**	**0**	**6**	**11**	**743**	**53**	**1,163**	**1,960**	**2,769**	**6,493**		
1986	8	0	8	11	1,040	23	1,333	2,397	2,754	6,315		
1987	1	0	1	9	856	13	1,833	2,702	2,680	6,109		
1988	1	0	1	11	920	12	1,501	2,433	2,913	6,579		
1989	1	0	1	11	900	9	2,077	2,987	2,923	6,556		
										Net Energy[4]		Total[4]
					Trillion Btu							
1960	**0.8**	**0.0**	**0.8**	**7.9**	**3.3**	**5.1**	**4.3**	**12.7**	**2.9**	**24.4**	**7.2**	**31.5**
1961	0.8	0.0	0.8	8.2	3.2	4.8	4.4	12.4	3.2	24.5	7.9	32.4
1962	0.8	0.0	0.8	8.9	3.1	5.0	4.7	12.8	3.5	25.9	8.4	34.3
1963	0.6	0.0	0.6	8.4	3.0	5.2	4.7	12.9	3.7	25.5	8.9	34.4
1964	0.5	0.0	0.5	9.3	3.6	5.2	4.5	13.3	3.9	27.0	9.2	36.2
1965	**0.5**	**0.0**	**0.5**	**10.1**	**3.9**	**3.0**	**4.8**	**11.7**	**4.0**	**26.3**	**9.6**	**35.9**
1966	0.5	0.0	0.5	9.8	4.2	1.9	5.0	11.2	4.2	25.7	10.1	35.8
1967	0.4	0.0	0.4	9.9	4.0	0.3	5.8	10.2	4.3	24.9	10.3	35.1
1968	0.3	0.0	0.3	10.4	4.2	1.7	6.2	12.2	4.6	27.5	11.0	38.5
1969	0.3	0.0	0.3	13.0	3.6	1.0	7.2	11.9	5.0	30.1	12.0	42.0
1970	**0.2**	**0.0**	**0.2**	**13.8**	**4.4**	**0.1**	**7.6**	**12.1**	**5.4**	**31.6**	**13.1**	**44.7**
1971	0.2	0.0	0.2	12.5	4.0	0.1	7.4	11.5	5.7	29.8	13.7	43.5
1972	0.1	0.0	0.1	13.2	4.6	*	8.4	13.0	6.2	32.6	14.8	47.4
1973	0.1	0.0	0.1	11.2	4.1	*	7.5	11.6	6.3	29.3	15.1	44.3
1974	0.2	0.0	0.2	11.3	3.5	*	6.8	10.3	6.5	28.4	15.9	44.3
1975	**0.1**	**0.0**	**0.1**	**12.0**	**3.3**	*	**7.4**	**10.8**	**7.1**	**29.9**	**17.0**	**47.0**
1976	0.1	0.0	0.1	14.5	2.3	0.7	7.2	10.1	7.3	32.0	17.6	49.6
1977	0.2	0.0	0.2	14.1	1.6	0.5	7.4	9.6	7.5	31.4	18.1	49.5
1978	0.1	0.0	0.1	14.9	1.8	0.6	7.7	10.1	8.5	33.6	20.8	54.4
1979	0.1	0.0	0.1	11.8	5.5	0.1	4.0	9.6	9.1	30.5	21.9	52.4
1980	**0.1**	**0.0**	**0.1**	**10.5**	**4.4**	**0.1**	**4.3**	**8.8**	**8.9**	**28.4**	**21.8**	**50.1**
1981	0.4	0.0	0.4	9.8	4.1	0.1	3.4	7.5	8.5	26.2	20.4	46.6
1982	0.1	0.0	0.1	11.6	5.1	0.1	3.4	8.6	8.9	29.3	21.4	50.7
1983	*	0.0	*	10.8	3.5	0.2	4.1	7.8	9.4	28.0	22.6	50.6
1984	0.1	0.0	0.1	11.1	3.8	0.2	3.4	7.4	9.4	28.0	21.9	50.0
1985	**0.1**	**0.0**	**0.1**	**11.5**	**4.3**	**0.3**	**4.2**	**8.8**	**9.4**	**29.9**	**22.2**	**52.0**
1986	0.2	0.0	0.2	10.6	6.1	0.1	4.9	11.0	9.4	31.2	21.5	52.8
1987	*	0.0	*	9.4	5.0	0.1	6.7	11.8	9.1	30.3	20.8	51.2
1988	*	0.0	*	10.9	5.4	0.1	5.5	10.9	9.9	31.8	22.4	54.2
1989	*	0.0	*	11.5	5.2	0.1	7.7	12.9	10.0	34.5	22.4	56.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 263. Commercial Energy Consumption Estimates, 1960-1989, South Dakota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**79**	**0**	**79**	**7**	**226**	**0**	**188**	**37**	**16**	**466**	**409**	**1,016**		
1961	74	0	74	8	219	0	192	39	10	460	473	1,153		
1962	72	0	72	8	210	0	207	41	42	500	524	1,261		
1963	57	0	57	7	201	0	209	42	77	529	579	1,385		
1964	50	0	50	8	248	0	196	44	27	514	607	1,445		
1965	**44**	**0**	**44**	**9**	**269**	**0**	**211**	**46**	**8**	**534**	**645**	**1,540**		
1966	47	0	47	9	287	0	221	43	11	562	703	1,686		
1967	40	0	40	10	275	0	269	45	7	596	740	1,767		
1968	32	0	32	11	288	0	289	47	15	639	800	1,909		
1969	26	0	26	11	246	0	334	49	33	661	853	2,037		
1970	**20**	**0**	**20**	**11**	**303**	**0**	**355**	**50**	**16**	**724**	**937**	**2,270**		
1971	18	0	18	11	272	0	347	51	9	679	994	2,403		
1972	15	0	15	11	311	0	395	51	24	782	1,079	2,597		
1973	15	0	15	11	279	0	352	55	19	705	1,126	2,696		
1974	24	0	24	12	236	0	322	58	17	633	1,153	2,810		
1975	**16**	**0**	**16**	**11**	**228**	**0**	**352**	**58**	**20**	**658**	**995**	**2,400**		
1976	6	0	6	15	156	0	340	59	52	608	979	2,357		
1977	15	0	15	15	112	0	356	60	58	586	985	2,380		
1978	5	0	5	14	125	0	371	62	41	600	1,133	2,772		
1979	10	0	10	10	376	0	193	63	45	677	1,140	2,751		
1980	**11**	**0**	**11**	**9**	**365**	**0**	**206**	**65**	**19**	**655**	**1,139**	**2,770**		
1981	37	0	37	8	250	0	164	70	14	498	1,203	2,867		
1982	13	0	13	9	284	11	167	76	13	551	1,235	2,967		
1983	3	0	3	9	218	1	199	98	64	579	1,267	3,036		
1984	5	0	5	9	235	*	169	138	59	601	1,791	4,159		
1985	**11**	**0**	**11**	**10**	**278**	**1**	**205**	**98**	**23**	**605**	**1,863**	**4,369**		
1986	15	0	15	9	271	1	235	151	8	666	1,603	3,675		
1987	3	0	3	8	414	1	323	129	8	875	1,629	3,712		
1988	3	0	3	8	345	*	265	126	24	760	1,760	3,974		
1989	2	0	2	9	220	*	367	118	29	734	1,803	4,044		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**1.5**	**0.0**	**1.5**	**7.5**	**1.3**	**0.0**	**0.8**	**0.2**	**0.1**	**2.4**	**1.4**	**12.8**	**3.5**	**16.2**
1961	1.4	0.0	1.4	7.9	1.3	0.0	0.8	0.2	0.1	2.3	1.6	13.3	3.9	17.2
1962	1.4	0.0	1.4	8.0	1.2	0.0	0.8	0.2	0.3	2.5	1.8	13.7	4.3	18.0
1963	1.1	0.0	1.1	7.3	1.2	0.0	0.8	0.2	0.5	2.7	2.0	13.1	4.7	17.9
1964	1.0	0.0	1.0	8.5	1.4	0.0	0.8	0.2	0.2	2.6	2.1	14.1	4.9	19.1
1965	**0.9**	**0.0**	**0.9**	**8.8**	**1.6**	**0.0**	**0.8**	**0.2**	*****	**2.7**	**2.2**	**14.5**	**5.3**	**19.8**
1966	0.9	0.0	0.9	9.5	1.7	0.0	0.9	0.2	0.1	2.9	2.4	15.6	5.8	21.4
1967	0.8	0.0	0.8	10.5	1.6	0.0	1.0	0.2	*	2.9	2.5	16.7	6.0	22.7
1968	0.6	0.0	0.6	10.8	1.7	0.0	1.1	0.2	0.1	3.1	2.7	17.3	6.5	23.8
1969	0.5	0.0	0.5	11.3	1.4	0.0	1.3	0.3	0.2	3.2	2.9	17.8	7.0	24.8
1970	**0.4**	**0.0**	**0.4**	**11.4**	**1.8**	**0.0**	**1.3**	**0.3**	**0.1**	**3.5**	**3.2**	**18.5**	**7.7**	**26.2**
1971	0.3	0.0	0.3	10.6	1.6	0.0	1.3	0.3	0.1	3.2	3.4	17.6	8.2	25.8
1972	0.3	0.0	0.3	11.3	1.8	0.0	1.5	0.3	0.2	3.7	3.7	18.9	8.9	27.8
1973	0.3	0.0	0.3	10.6	1.6	0.0	1.3	0.3	0.1	3.4	3.8	18.1	9.2	27.3
1974	0.4	0.0	0.4	11.7	1.4	0.0	1.2	0.3	0.1	3.0	3.9	19.0	9.6	28.6
1975	**0.3**	**0.0**	**0.3**	**11.5**	**1.3**	**0.0**	**1.3**	**0.3**	**0.1**	**3.1**	**3.4**	**18.2**	**8.2**	**26.4**
1976	0.1	0.0	0.1	15.3	0.9	0.0	1.3	0.3	0.3	2.8	3.3	21.6	8.0	29.6
1977	0.3	0.0	0.3	14.8	0.7	0.0	1.3	0.3	0.4	2.6	3.4	21.1	8.1	29.2
1978	0.1	0.0	0.1	13.5	0.7	0.0	1.4	0.3	0.3	2.7	3.9	20.2	9.5	29.7
1979	0.2	0.0	0.2	9.9	2.2	0.0	0.7	0.3	0.3	3.5	3.9	17.5	9.4	26.9
1980	**0.2**	**0.0**	**0.2**	**8.5**	**2.1**	**0.0**	**0.8**	**0.3**	**0.1**	**3.3**	**3.9**	**15.9**	**9.5**	**25.4**
1981	0.7	0.0	0.7	8.2	1.5	0.0	0.6	0.4	0.1	2.5	4.1	15.5	9.8	25.3
1982	0.2	0.0	0.2	9.4	1.7	0.1	0.6	0.4	0.1	2.8	4.2	16.6	10.1	26.7
1983	0.1	0.0	0.1	8.7	1.3	*	0.7	0.5	0.4	2.9	4.3	16.0	10.4	26.4
1984	0.1	0.0	0.1	9.2	1.4	*	0.6	0.7	[illegible]	[illegible]	[illegible]	[illegible]	14.2	32.7
1985	**0.2**	**0.0**	**0.2**	**10.1**	**1.6**	*****	**0.7**	**0.5**	**0.1**	**3.0**	**6.4**	**19.7**	**14.9**	**34.6**
1986	0.3	0.0	0.3	9.2	1.6	*	0.9	0.8	0.1	3.3	5.5	18.3	12.5	30.8
1987	*	0.0	*	8.3	2.4	*	1.2	0.7	*	4.3	5.6	18.2	12.7	30.9
1988	*	0.0	*	8.6	2.0	*	1.0	0.7	0.1	3.8	6.0	18.4	13.6	32.0
1989	*	0.0	*	9.0	1.3	*	1.4	0.6	0.2	3.4	6.2	18.6	13.8	32.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 264. Industrial Energy Consumption Estimates, 1960–1989, South Dakota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours		
1960	**5**	**0**	**5**	**5**	**724**	**1,780**	**72**	**93**	**19**	**2,615**	**35**	**0**	**5,339**	**20**	**258**	**642**
1961	4	0	4	5	759	1,781	39	114	19	2,490	18	0	5,219	16	219	534
1962	3	0	3	5	562	1,787	22	96	16	2,616	84	0	5,183	22	222	533
1963	4	0	4	5	851	1,805	22	146	16	2,581	153	0	5,574	30	221	529
1964	4	0	4	6	801	2,139	36	117	17	2,504	62	0	5,677	32	239	570
1965	**4**	**0**	**4**	**5**	**588**	**2,177**	**39**	**108**	**15**	**2,455**	**15**	**0**	**5,397**	**38**	**246**	**588**
1966	4	0	4	5	752	2,289	31	145	16	2,456	31	0	5,720	34	260	623
1967	4	0	4	4	724	2,195	60	195	16	2,362	16	0	5,569	34	270	645
1968	3	0	3	4	713	2,030	55	225	18	2,344	64	0	5,448	31	277	661
1969	5	0	5	6	747	1,946	40	267	14	2,367	66	0	5,446	32	272	650
1970	**5**	**0**	**5**	**7**	**894**	**2,332**	**2**	**298**	**14**	**2,209**	**35**	**0**	**5,784**	**35**	**281**	**680**
1971	4	0	4	5	964	2,337	1	300	16	2,041	24	0	5,684	37	284	688
1972	4	0	4	6	1,019	2,338	1	448	17	1,715	64	0	5,601	42	285	685
1973	3	0	3	5	1,236	1,957	6	516	32	2,071	51	0	5,869	42	326	780
1974	4	0	4	5	865	1,608	2	584	31	1,957	44	0	5,091	37	360	877
1975	**59**	**0**	**59**	**6**	**862**	**1,635**	**2**	**527**	**20**	**1,626**	**52**	**0**	**4,725**	**36**	**994**	**2,397**
1976	172	0	172	8	739	1,209	101	715	22	1,433	99	0	4,318	34	1,188	2,862
1977	173	0	173	7	561	988	82	1,358	4	1,442	120	0	4,555	33	1,252	3,024
1978	185	0	185	7	782	1,412	99	678	4	1,761	87	0	4,822	32	1,126	2,755
1979	55	0	55	3	793	2,664	22	1,104	4	1,656	91	0	6,335	33	1,271	3,067
1980	**127**	**0**	**127**	**5**	**638**	**1,640**	**5**	**1,090**	**4**	**1,473**	**95**	**0**	**4,943**	**32**	**1,322**	**3,215**
1981	166	0	166	4	528	1,589	10	634	3	1,215	144	0	4,123	32	1,253	2,986
1982	293	0	293	4	638	1,735	4	1,063	3	1,129	37	0	4,608	32	1,280	3,075
1983	204	0	204	4	534	1,443	7	855	3	1,198	72	0	4,111	32	1,388	3,326
1984	225	0	225	4	805	1,558	11	504	4	907	66	0	3,854	32	991	2,301
1985	**279**	**0**	**279**	**4**	**841**	**1,670**	**8**	**654**	**3**	**694**	**19**	**0**	**3,890**	**32**	**1,019**	**2,389**
1986	240	0	240	3	815	2,544	12	882	3	594	62	0	4,911	32	1,316	3,018
1987	232	0	232	3	674	2,394	3	1,114	4	629	48	0	4,866	32	1,402	3,195
1988	199	0	199	5	878	2,666	5	616	3	544	56	0	4,769	32	1,562	3,527
1989	257	0	257	5	776	2,044	6	2,719	4	541	55	0	6,145	32	1,612	3,617

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity: Net Energy[4]	Electricity: Total[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu																	
1960	**0.1**	**0.0**	**0.1**	**5.3**	**4.8**	**10.4**	**0.4**	**0.4**	**0.1**	**13.7**	**0.2**	**0.0**	**30.0**	**0.2**	**0.9**	**36.6**	**2.2**	**38.8**
1961	0.1	0.0	0.1	5.5	5.0	10.4	0.2	0.5	0.1	13.1	0.1	0.0	29.4	0.2	0.7	35.9	1.8	37.8
1962	0.1	0.0	0.1	5.4	3.7	10.4	0.1	0.4	0.1	13.7	0.5	0.0	29.0	0.2	0.8	35.5	1.8	37.3
1963	0.1	0.0	0.1	5.0	5.6	10.5	0.1	0.6	0.1	13.6	1.0	0.0	31.5	0.3	0.8	37.7	1.8	39.5
1964	0.1	0.0	0.1	5.6	5.3	12.5	0.2	0.5	0.1	13.2	0.4	0.0	32.1	0.3	0.8	38.9	1.9	40.9
1965	**0.1**	**0.0**	**0.1**	**4.7**	**3.9**	**12.7**	**0.2**	**0.4**	**0.1**	**12.9**	**0.1**	**0.0**	**30.3**	**0.4**	**0.8**	**36.3**	**2.0**	**38.3**
1966	0.1	0.0	0.1	5.5	5.0	13.3	0.2	0.6	0.1	12.9	0.2	0.0	32.3	0.4	0.9	39.1	2.1	41.2
1967	0.1	0.0	0.1	3.9	4.8	12.8	0.3	0.7	0.1	12.4	0.1	0.0	31.3	0.4	0.9	36.5	2.2	38.7
1968	0.1	0.0	0.1	4.0	4.7	11.8	0.3	0.9	0.1	12.3	0.4	0.0	30.5	0.3	0.9	35.9	2.3	38.2
1969	0.1	0.0	0.1	6.3	5.0	11.3	0.2	1.0	0.1	12.4	0.4	0.0	30.5	0.3	0.9	38.1	2.2	40.3
1970	**0.1**	**0.0**	**0.1**	**6.8**	**5.9**	**13.6**	*****	**1.1**	**0.1**	**11.6**	**0.2**	**0.0**	**32.6**	**0.4**	**1.0**	**40.8**	**2.3**	**43.1**
1971	0.1	0.0	0.1	5.5	6.4	13.6	*	1.1	0.1	10.7	0.1	0.0	32.1	0.4	1.0	39.1	2.3	41.4
1972	0.1	0.0	0.1	6.2	6.8	13.6	*	1.7	0.1	9.0	0.4	0.0	31.6	0.4	1.0	39.3	2.3	41.6
1973	0.1	0.0	0.1	5.4	8.2	11.4	*	1.9	0.2	10.9	0.3	0.0	33.0	0.4	1.1	40.0	2.7	42.6
1974	0.1	0.0	0.1	5.4	5.7	9.4	*	2.2	0.2	10.3	0.3	0.0	28.0	0.4	1.2	35.1	3.0	38.1
1975	**1.1**	**0.0**	**1.1**	**5.8**	**5.7**	**9.5**	*****	**2.0**	**0.1**	**8.5**	**0.3**	**0.0**	**26.2**	**0.4**	**3.4**	**36.9**	**8.2**	**45.1**
1976	3.2	0.0	3.2	8.1	4.9	7.0	0.6	2.7	0.1	7.5	0.6	0.0	23.5	0.4	4.1	39.1	9.8	48.9
1977	3.2	0.0	3.2	7.0	3.7	5.8	0.5	5.0	*	7.6	0.8	0.0	23.3	0.3	4.3	38.0	10.3	48.3
1978	3.4	0.0	3.4	6.9	5.2	8.2	0.6	2.5	*	9.3	0.5	0.0	26.3	0.3	3.8	40.7	9.4	50.1
1979	1.0	0.0	1.0	3.4	5.3	15.5	0.1	4.1	*	8.7	0.6	0.0	34.3	0.3	4.3	43.4	10.5	53.8
1980	**2.4**	**0.0**	**2.4**	**4.7**	**4.2**	**9.6**	*****	**4.0**	*****	**7.7**	**0.6**	**0.0**	**26.2**	**0.3**	**4.5**	**38.1**	**11.0**	**49.1**
1981	3.1	0.0	3.1	4.0	3.5	9.3	0.1	2.3	*	6.4	0.9	0.0	22.4	0.3	4.3	34.2	10.2	44.4
1982	5.7	0.0	5.7	4.0	4.2	10.1	*	3.8	*	5.9	0.2	0.0	24.4	0.3	4.4	38.8	10.5	49.3
1983	3.6	0.0	3.6	3.9	3.5	8.4	*	3.1	*	6.3	0.4	0.0	21.8	0.3	4.7	34.4	11.3	45.7
1984	3.9	0.0	3.9	4.4	5.3	9.1	0.1	1.8	*	4.8	0.4	0.0	21.5	0.3	3.4	33.5	7.9	41.3
1985	**4.8**	**0.0**	**4.8**	**3.6**	**5.6**	**9.7**	*****	**2.4**	*****	**3.6**	**0.1**	**0.0**	**21.5**	**0.3**	**3.5**	**33.8**	**8.2**	**41.9**
1986	4.2	0.0	4.2	3.4	5.4	14.8	0.1	3.2	*	3.1	0.4	0.0	27.0	0.3	4.5	39.4	10.3	49.7
1987	4.0	0.0	4.0	3.4	4.5	13.9	*	4.1	*	3.3	0.3	0.0	26.1	0.3	4.8	38.7	10.9	49.6
1988	3.5	0.0	3.5	4.9	5.8	15.5	*	2.2	*	2.9	0.4	0.0	26.9	0.3	5.3	40.9	12.0	52.9
1989	4.5	0.0	4.5	5.2	5.2	11.9	*	10.0	*	2.8	0.3	0.0	30.3	0.3	5.5	45.8	12.3	58.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 265. Transportation Energy Consumption Estimates, 1960–1989, South Dakota

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	*	*	**106**	**362**	**1,145**	**22**	**174**	**5,909**	**11**	**7,729**	**0**	**0**		
1961	*	*	75	509	1,164	25	169	6,142	0	8,084	0	0		
1962	*	*	105	645	1,254	25	170	6,413	0	8,612	0	0		
1963	*	*	144	814	1,290	29	170	6,489	0	8,936	0	0		
1964	*	*	132	802	1,333	26	178	6,275	0	8,745	0	0		
1965	*	*	**128**	**635**	**1,111**	**24**	**143**	**6,454**	**1**	**8,496**	**0**	**0**		
1966	*	*	159	728	1,161	36	149	6,633	3	8,869	0	0		
1967	*	*	148	620	1,282	62	127	6,778	5	9,022	0	0		
1968	*	*	128	734	1,532	65	139	7,110	6	9,713	0	0		
1969	*	*	101	917	1,390	58	149	7,051	7	9,673	0	0		
1970	*	*	**99**	**929**	**1,173**	**50**	**151**	**7,645**	**6**	**10,052**	**0**	**0**		
1971	*	*	83	1,279	1,207	60	148	8,152	4	10,932	0	0		
1972	*	*	88	1,045	1,138	65	159	9,006	0	11,501	0	0		
1973	*	*	74	1,284	1,071	61	162	8,863	0	11,515	0	0		
1974	*	*	87	1,235	1,102	51	155	8,687	0	11,317	0	0		
1975	*	*	**77**	**1,337**	**1,056**	**57**	**140**	**8,952**	**1**	**11,618**	**0**	**0**		
1976	*	*	74	1,553	1,011	45	155	9,452	1	12,292	0	0		
1977	*	*	79	1,598	1,083	43	156	9,796	1	12,757	0	0		
1978	0	*	78	1,778	1,334	38	167	9,594	1	12,990	0	0		
1979	0	*	81	2,306	1,326	60	175	9,053	0	13,002	0	0		
1980	**0**	*	**97**	**1,977**	**1,311**	**69**	**156**	**8,150**	**0**	**11,760**	**0**	**0**		
1981	0	*	103	1,821	1,136	54	150	7,907	0	11,170	0	0		
1982	0	*	107	2,132	1,138	54	136	7,855	0	11,422	0	0		
1983	0	*	98	2,163	956	64	143	7,656	0	11,081	0	0		
1984	0	*	85	2,416	1,024	34	152	7,839	0	11,551	0	0		
1985	**0**	*	**87**	**2,274**	**1,019**	**31**	**142**	**8,485**	**0**	**12,038**	**0**	**0**		
1986	0	*	85	2,166	516	30	139	8,260	0	11,196	0	0		
1987	0	*	80	2,230	669	49	157	8,237	0	11,422	0	0		
1988	0	*	89	2,248	875	23	151	8,517	0	11,903	0	0		
1989	0	*	88	2,241	1,024	24	155	8,463	*	11,996	0	0		
			Trillion Btu											
1960	*	*	**0.5**	**2.1**	**6.1**	**0.1**	**1.1**	**31.0**	**0.1**	**41.0**	**0.0**	**41.1**	**0.0**	**41.1**
1961	*	0.1	0.4	3.0	6.2	0.1	1.0	32.3	0.0	43.0	0.0	43.0	0.0	43.0
1962	*	*	0.5	3.8	6.7	0.1	1.0	33.7	0.0	45.8	0.0	45.9	0.0	45.9
1963	*	*	0.7	4.7	6.9	0.1	1.0	34.1	0.0	47.6	0.0	47.7	0.0	47.7
1964	*	*	0.7	4.7	7.1	0.1	1.1	33.0	0.0	46.6	0.0	46.7	0.0	46.7
1965	*	*	**0.6**	**3.7**	**6.0**	**0.1**	**0.9**	**33.9**	*	**45.2**	**0.0**	**45.2**	**0.0**	**45.2**
1966	*	*	0.8	4.2	6.2	0.1	0.9	34.8	*	47.2	0.0	47.2	0.0	47.2
1967	*	0.1	0.7	3.6	6.9	0.2	0.8	35.6	*	47.9	0.0	47.9	0.0	47.9
1968	*	*	0.6	4.3	8.2	0.2	0.8	37.3	*	51.6	0.0	51.7	0.0	51.7
1969	*	*	0.5	5.3	7.5	0.2	0.9	37.0	*	51.6	0.0	51.6	0.0	51.6
1970	*	*	**0.5**	**5.4**	**6.3**	**0.2**	**0.9**	**40.2**	*	**53.5**	**0.0**	**53.6**	**0.0**	**53.6**
1971	*	*	0.4	7.5	6.5	0.2	0.9	42.8	*	58.3	0.0	58.4	0.0	58.4
1972	*	*	0.4	6.1	6.1	0.2	1.0	47.3	0.0	61.2	0.0	61.2	0.0	61.2
1973	*	*	0.4	7.5	5.8	0.2	1.0	46.6	0.0	61.4	0.0	61.4	0.0	61.4
1974	*	*	0.4	7.2	6.0	0.2	0.9	45.6	0.0	60.4	0.0	60.4	0.0	60.4
1975	*	*	**0.4**	**7.8**	**5.7**	**0.2**	**0.8**	**47.0**	*	**62.0**	**0.0**	**62.0**	**0.0**	**62.0**
1976	*	*	0.4	9.0	5.5	0.2	0.9	49.7	*	65.7	0.0	65.7	0.0	65.7
1977	*	*	0.4	9.3	5.9	0.2	0.9	51.5	*	68.2	0.0	68.2	0.0	68.2
1978	0.0	*	0.4	10.4	7.2	0.1	1.0	50.4	*	69.5	0.0	69.6	0.0	69.6
1979	0.0	0.4	0.4	13.4	7.2	0.2	1.1	47.6	0.0	69.9	0.0	70.3	0.0	70.3
1980	**0.0**	**0.1**	**0.5**	**11.5**	**7.1**	**0.3**	**0.9**	**42.8**	**0.0**	**63.1**	**0.0**	**63.2**	**0.0**	**63.2**
1981	0.0	0.1	0.5	10.6	6.1	0.2	0.9	41.5	0.0	59.9	0.0	60.0	0.0	60.0
1982	0.0	0.1	0.5	12.4	6.1	0.2	0.8	41.3	0.0	61.4	0.0	61.5	0.0	61.5
1983	0.0	0.1	0.5	12.6	5.2	0.2	0.9	40.2	0.0	59.6	0.0	59.7	0.0	59.7
1984	0.0	0.1	0.4	14.1	5.5	0.1	0.9	41.2	0.0	62.3	0.0	62.4	0.0	62.4
1985	**0.0**	**0.2**	**0.4**	**13.2**	**5.5**	**0.1**	**0.9**	**44.6**	**0.0**	**64.7**	**0.0**	**65.0**	**0.0**	**65.0**
1986	0.0	0.1	0.4	12.6	2.8	0.1	0.8	43.4	0.0	60.2	0.0	60.3	0.0	60.3
1987	0.0	0.1	0.4	13.0	3.6	0.2	1.0	43.3	0.0	61.4	0.0	61.6	0.0	61.6
1988	0.0	0.1	0.4	13.1	4.7	0.1	0.9	44.7	0.0	64.0	0.0	64.2	0.0	64.2
1989	0.0	0.1	0.4	13.1	5.5	0.1	0.9	44.5	*	64.5	0.0	64.7	0.0	64.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 266. Estimates of Energy Input at Electric Utilities, 1960–1989, South Dakota

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**246**	**0**	**246**	**4**	**40**	**7**	**0**	**47**	**0**	**1,136**	**0**	**0**	
1961	241	0	241	5	41	7	0	48	0	1,126	0	0	
1962	256	0	256	6	72	13	0	85	0	1,480	0	0	
1963	250	0	250	4	46	8	0	54	0	2,879	0	0	
1964	226	0	226	4	33	6	0	39	0	3,062	0	0	
1965	**237**	**0**	**237**	**3**	**47**	**8**	**0**	**55**	**0**	**3,835**	**0**	**0**	
1966	218	0	218	3	42	7	0	49	9	4,815	0	0	
1967	247	0	247	3	42	7	0	50	67	4,896	0	0	
1968	251	0	251	4	41	7	0	48	-3	5,614	0	0	
1969	275	0	275	3	90	16	0	106	0	6,318	0	0	
1970	**301**	**0**	**301**	**4**	**270**	**48**	**0**	**318**	**0**	**6,544**	**0**	**0**	
1971	303	0	303	3	174	38	0	212	0	7,741	0	0	
1972	284	0	284	4	255	59	0	314	0	7,390	0	0	
1973	360	0	360	4	164	22	0	186	0	4,795	0	0	
1974	406	0	406	4	72	17	0	89	0	5,624	0	0	
1975	**1,804**	**0**	**1,804**	**3**	**145**	**67**	**0**	**212**	**0**	**7,890**	**0**	**0**	
1976	2,658	0	2,658	1	155	24	0	179	0	7,018	0	0	
1977	2,536	0	2,536	*	105	34	0	139	0	5,261	0	0	
1978	2,811	0	2,811	*	154	88	0	241	0	6,799	0	0	
1979	2,702	0	2,702	*	84	67	0	151	0	6,326	0	0	
1980	**2,683**	**0**	**2,683**	*	**9**	**58**	**0**	**67**	**0**	**5,786**	**0**	**0**	
1981	2,536	0	2,536	*	1	54	0	54	0	5,274	0	0	
1982	2,433	0	2,433	*	2	52	0	53	0	5,394	0	0	
1983	2,201	0	2,201	*	1	42	0	42	0	5,494	0	0	
1984	2,487	0	2,487	*	1	26	0	27	0	5,690	0	0	
1985	**2,407**	**0**	**2,407**	*	**1**	**39**	**0**	**40**	**0**	**5,301**	**0**	**0**	
1986	2,018	0	2,018	*	1	38	0	39	0	5,704	0	0	
1987	865	0	865	*	1	21	0	23	0	5,354	0	0	
1988	2,388	0	2,388	*	10	48	0	58	0	5,254	0	0	
1989	2,281	0	2,281	*	0	33	0	33	0	4,583	0	0	
					Trillion Btu								
1960	**4.2**	**0.0**	**4.2**	**4.6**	**0.3**	*	**0.0**	**0.3**	**0.0**	**12.2**	**0.0**	**0.0**	**21.4**
1961	4.0	0.0	4.0	5.1	0.3	*	0.0	0.3	0.0	12.0	0.0	0.0	21.3
1962	4.5	0.0	4.5	6.0	0.5	0.1	0.0	0.5	0.0	15.6	0.0	0.0	26.7
1963	4.4	0.0	4.4	4.3	0.3	*	0.0	0.3	0.0	30.2	0.0	0.0	39.3
1964	4.0	0.0	4.0	4.1	0.2	*	0.0	0.2	0.0	32.0	0.0	0.0	40.4
1965	**4.2**	**0.0**	**4.2**	**3.3**	**0.3**	*	**0.0**	**0.3**	**0.0**	**40.1**	**0.0**	**0.0**	**48.0**
1966	3.8	0.0	3.8	3.5	0.3	*	0.0	0.3	0.1	50.1	0.0	0.0	57.8
1967	4.3	0.0	4.3	3.5	0.3	*	0.0	0.3	0.8	51.1	0.0	0.0	59.9
1968	4.2	0.0	4.2	3.8	0.3	*	0.0	0.3	*	58.4	0.0	0.0	66.6
1969	4.6	0.0	4.6	3.5	0.6	0.1	0.0	0.7	0.0	66.0	0.0	0.0	74.8
1970	**5.0**	**0.0**	**5.0**	**4.4**	**1.7**	**0.3**	**0.0**	**2.0**	**0.0**	**68.7**	**0.0**	**0.0**	**80.0**
1971	5.2	0.0	5.2	3.3	1.1	0.2	0.0	1.3	0.0	81.1	0.0	0.0	91.0
1972	4.8	0.0	4.8	3.5	1.6	0.3	0.0	1.9	0.0	76.7	0.0	0.0	87.0
1973	5.9	0.0	5.9	4.1	1.0	0.1	0.0	1.2	0.0	49.8	0.0	0.0	60.9
1974	6.6	0.0	6.6	3.6	0.5	0.1	0.0	0.6	0.0	58.7	0.0	0.0	69.5
1975	**22.8**	**0.0**	**22.8**	**3.2**	**0.9**	**0.4**	**0.0**	**1.3**	**0.0**	**82.1**	**0.0**	**0.0**	**109.4**
1976	33.7	0.0	33.7	1.2	1.0	0.1	0.0	1.1	0.0	72.8	0.0	0.0	108.9
1977	32.0	0.0	32.0	0.2	0.7	0.2	0.0	0.9	0.0	54.9	0.0	0.0	87.9
1978	35.0	0.0	35.0	*	1.0	0.5	0.0	1.5	0.0	70.4	0.0	0.0	107.0
1979	34.2	0.0	34.2	0.1	0.5	0.4	0.0	0.9	0.0	65.5	0.0	0.0	100.7
1980	**33.8**	**0.0**	**33.8**	**0.3**	**0.1**	**0.3**	**0.0**	**0.4**	**0.0**	**60.1**	**0.0**	**0.0**	**94.6**
1981	32.0	0.0	32.0	0.1	*	0.3	0.0	0.3	0.0	55.1	0.0	0.0	87.5
1982	30.9	0.0	30.9	*	*	0.3	0.0	0.3	0.0	56.4	0.0	0.0	87.6
1983	27.1	0.0	27.1	*	*	0.2	0.0	0.2	0.0	57.8	0.0	0.0	85.2
1984	30.4	0.0	30.4	0.1	*	0.2	0.0	0.2	0.0	58.7	0.0	0.0	89.3
1985	**29.4**	**0.0**	**29.4**	*	*	**0.2**	**0.0**	**0.2**	**0.0**	**54.8**	**0.0**	**0.0**	**84.4**
1986	24.6	0.0	24.6	*	*	0.2	0.0	0.2	0.0	58.5	0.0	0.0	83.4
1987	10.5	0.0	10.5	0.1	*	0.1	0.0	0.1	0.0	54.9	0.0	0.0	65.6
1988	30.3	0.0	30.3	0.2	0.1	0.3	0.0	0.3	0.0	53.8	0.0	0.0	84.6
1989	28.0	0.0	28.0	0.1	0.0	0.2	0.0	0.2	0.0	47.3	0.0	0.0	75.7

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 267. Energy Consumption Estimates by Source, 1960-1989, Tennessee

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**15,436**	**147**	**1,785**	**1,040**	**5,291**	**570**	**2,624**	**1,311**	**760**	**27,268**	**188**	**1,458**	**42,295**	**0**	**8,676**	**0**	**0**	**20,917**	
1961	14,638	161	1,937	905	5,584	661	1,871	1,314	740	28,184	174	2,357	43,727	0	8,749	0	0	24,915	
1962	14,375	168	2,298	920	6,197	792	2,278	1,455	674	29,460	105	2,758	46,935	0	9,636	0	0	28,029	
1963	16,000	170	2,084	1,244	6,695	861	2,329	1,731	673	30,334	277	4,143	50,370	0	7,722	0	0	31,211	
1964	14,069	182	2,607	1,090	6,804	1,023	2,374	1,794	707	31,281	286	4,452	52,420	0	9,097	0	0	43,014	
1965	**14,171**	**202**	**3,441**	**1,024**	**7,295**	**1,174**	**2,540**	**1,912**	**800**	**32,481**	**287**	**4,403**	**55,356**	**0**	**8,750**	**0**	**0**	**46,329**	
1966	15,295	226	4,075	747	9,227	1,493	3,257	2,239	831	34,816	344	5,090	62,119	0	7,633	0	0	51,913	
1967	14,826	232	3,332	447	8,734	2,040	3,780	2,437	702	36,586	481	5,517	64,057	0	9,628	0	0	47,448	
1968	18,605	234	3,814	267	10,276	2,568	4,292	2,694	771	38,377	337	5,961	69,358	0	7,721	0	0	31,991	
1969	18,855	248	3,640	184	10,396	3,124	4,008	3,313	810	40,530	804	6,866	73,674	0	7,477	0	0	38,639	
1970	**17,726**	**256**	**3,628**	**116**	**10,952**	**3,335**	**4,135**	**3,182**	**825**	**41,869**	**597**	**6,310**	**74,950**	**0**	**8,067**	**0**	**0**	**50,754**	
1971	16,660	265	3,456	115	11,565	3,335	4,105	3,187	898	44,504	373	4,689	76,228	0	9,420	0	0	51,407	
1972	19,920	277	3,734	119	14,332	3,439	3,327	3,515	961	48,333	518	5,691	83,970	0	11,132	0	0	38,441	
1973	23,870	294	4,697	109	15,816	3,795	3,549	3,825	1,121	52,393	645	5,710	91,659	0	11,452	0	0	35,662	
1974	21,319	260	3,432	93	16,202	3,837	2,785	3,453	1,074	51,635	869	5,640	89,019	0	11,767	0	0	57,514	
1975	**21,308**	**217**	**3,765**	**70**	**17,479**	**3,936**	**2,289**	**3,830**	**1,328**	**53,735**	**714**	**5,671**	**92,818**	**0**	**11,806**	**0**	**0**	**73,642**	
1976	24,878	212	3,882	56	22,011	4,105	2,804	3,766	1,476	56,247	2,963	6,233	103,542	0	9,474	0	0	68,088	
1977	24,753	202	5,061	63	24,108	4,377	2,688	3,545	1,240	57,655	3,370	7,299	109,406	0	10,396	0	0	77,564	
1978	24,854	184	5,561	56	27,395	4,683	2,559	3,662	1,331	60,053	2,284	7,292	114,876	0	8,783	0	0	70,945	
1979	23,453	226	4,408	705	24,146	4,895	2,377	3,008	1,393	57,140	2,445	7,831	108,349	0	12,306	0	0	75,239	
1980	**24,687**	**230**	**3,378**	**290**	**19,176**	**4,154**	**1,534**	**2,787**	**1,241**	**54,948**	**1,499**	**8,419**	**97,425**	**519**	**8,764**	**0**	**0**	**74,740**	
1981	24,212	224	2,732	232	19,545	3,486	1,524	1,515	1,190	54,603	1,227	8,828	94,882	4,704	5,915	0	0	67,135	
1982	19,829	207	4,173	171	18,812	2,289	1,099	2,299	1,085	54,521	721	7,061	92,231	10,104	9,769	0	0	46,262	
1983	23,088	195	3,000	179	20,151	2,060	1,085	2,313	1,136	53,855	1,042	5,800	90,620	14,051	9,952	0	0	30,517	
1984	23,355	206	3,816	164	21,948	3,636	1,221	3,330	1,211	57,390	960	6,857	100,534	12,501	10,181	0	0	36,467	
1985	**25,167**	**190**	**4,408**	**154**	**22,285**	**4,862**	**1,684**	**3,571**	**1,129**	**58,034**	**649**	**6,463**	**103,239**	**9,672**	**6,539**	**0**	**0**	**35,439**	
1986	25,335	188	4,158	201	22,649	5,925	482	3,971	1,104	60,297	700	8,845	108,332	-105	5,326	0	0	60,255	
1987	24,829	201	4,565	186	22,590	5,686	592	3,484	1,248	62,989	334	9,088	110,762	-108	7,566	0	0	60,553	
1988	25,219	214	4,048	183	23,584	4,231	898	4,464	1,203	59,380	480	9,520	107,991	3,940	4,591	0	0	62,235	
1989	23,561	221	5,703	182	23,329	4,356	873	4,746	1,234	60,028	589	9,317	110,359	15,603	11,853	0	0	23,603	
									Trillion Btu										
1960	**374.4**	**151.7**	**11.8**	**5.2**	**30.8**	**3.1**	**14.9**	**5.3**	**4.6**	**143.2**	**1.2**	**8.6**	**228.8**	**0.0**	**93.4**	**0.0**	**0.0**	**71.4**	**919.6**
1961	354.2	166.7	12.9	4.6	32.5	3.6	10.6	5.3	4.5	148.1	1.1	14.0	237.0	0.0	93.2	0.0	0.0	85.0	936.1
1962	347.2	174.0	15.2	4.6	36.1	4.3	12.9	5.8	4.1	154.8	0.7	16.4	254.9	0.0	101.7	0.0	0.0	95.6	973.4
1963	386.3	179.2	13.8	6.3	39.0	4.7	13.2	6.9	4.1	159.3	1.7	24.0	273.2	0.0	80.9	0.0	0.0	106.5	1,026.1
1964	336.1	191.2	17.3	5.5	39.6	5.6	13.5	7.2	4.3	164.3	1.8	25.5	284.6	0.0	95.2	0.0	0.0	146.8	1,053.8
1965	**338.8**	**211.1**	**22.8**	**5.2**	**42.5**	**6.5**	**14.4**	**7.7**	**4.8**	**170.6**	**1.8**	**25.2**	**301.6**	**0.0**	**91.5**	**0.0**	**0.0**	**158.1**	**1,101.1**
1966	363.7	236.8	27.0	3.8	53.7	8.3	18.5	9.0	5.0	182.9	2.2	29.1	339.5	0.0	79.5	0.0	0.0	177.1	1,196.5
1967	352.0	242.0	22.1	2.3	50.9	11.4	21.4	9.4	4.3	192.2	3.0	31.4	348.3	0.0	100.4	0.0	0.0	161.9	1,204.6
1968	439.3	243.4	25.3	1.3	59.9	14.4	24.3	10.3	4.7	201.6	2.1	33.8	377.8	0.0	80.3	0.0	0.0	109.2	1,249.9
1969	436.7	257.5	24.2	0.9	60.6	17.6	22.7	12.6	4.9	212.9	5.1	39.2	400.6	0.0	78.1	0.0	0.0	131.8	1,304.8
1970	**403.7**	**261.8**	**24.1**	**0.6**	**63.8**	**18.8**	**23.4**	**12.0**	**5.0**	**219.9**	**3.8**	**35.9**	**407.3**	**0.0**	**84.7**	**0.0**	**0.0**	**173.2**	**1,330.6**
1971	370.0	270.8	22.9	0.6	67.4	18.8	23.3	12.0	5.4	233.8	2.3	27.0	413.6	0.0	98.7	0.0	0.0	175.4	1,328.5
1972	444.3	283.4	24.8	0.6	83.5	19.4	18.9	13.2	5.8	253.9	3.3	33.0	456.3	0.0	115.5	0.0	0.0	131.2	1,430.7
1973	532.9	300.1	31.2	0.5	92.1	21.4	20.1	14.3	6.8	275.2	4.1	33.0	498.8	0.0	119.0	0.0	0.0	121.7	1,572.5
1974	470.3	265.4	22.8	0.5	94.4	21.6	15.8	12.9	6.5	271.2	5.5	32.5	483.6	0.0	122.9	0.0	0.0	196.2	1,538.4
1975	**471.9**	**224.1**	**25.0**	**0.4**	**101.8**	**22.2**	**13.0**	**14.2**	**8.1**	**282.3**	**4.5**	**32.8**	**504.2**	**0.0**	**122.9**	**0.0**	**0.0**	**251.3**	**1,574.3**
1976	561.5	218.5	25.8	0.3	128.2	23.2	15.9	14.0	8.9	295.5	18.6	35.9	566.2	0.0	98.3	0.0	0.0	232.3	1,676.8
1977	553.7	208.4	33.6	0.3	140.4	24.7	15.2	13.0	7.5	302.9	21.2	42.1	601.0	0.0	108.5	0.0	0.0	264.6	1,736.3
1978	564.7	189.2	36.9	0.3	159.6	26.4	14.5	13.4	8.1	315.5	14.4	42.0	631.0	0.0	91.0	0.0	0.0	242.1	1,718.0
1979	542.3	233.9	29.2	3.6	140.7	27.7	13.5	11.1	8.4	300.2	15.4	44.3	593.9	0.0	127.4	0.0	0.0	256.7	1,754.2
1980	**576.9**	**233.3**	**22.4**	**1.5**	**111.7**	**23.4**	**8.7**	**10.2**	**7.5**	**288.6**	**9.4**	**47.3**	**530.9**	**5.7**	**91.0**	**0.0**	**0.0**	**255.0**	**1,692.8**
1981	565.9	227.1	18.1	1.2	113.8	19.7	8.6	5.5	7.2	286.8	7.7	50.1	518.8	51.9	61.8	0.0	0.0	229.1	1,654.6
1982	470.7	212.1	27.7	0.9	109.6	12.9	6.2	8.3	6.6	286.4	4.5	40.1	503.2	111.9	102.1	0.0	0.0	157.8	1,557.8
1983	547.1	199.1	19.9	0.9	117.4	11.6	6.2	8.4	6.9	282.9	6.6	33.2	493.9	153.2	104.7	0.0	0.0	104.1	1,602.1
1984	555.3	211.3	25.3	0.8	127.8	20.5	6.9	12.0	7.3	301.5	6.0	38.6	546.9	135.6	105.1	0.0	0.0	[illegible]	[illegible]
1985	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	304.8	4.1	36.5	562.0	104.6	67.6	0.0	0.0	120.9	1,651.5
1986	607.4	194.0	27.6	1.0	131.9	33.5	2.7	14.5	6.7	316.7	4.4	49.6	588.6	-1.1	54.6	0.0	0.0	205.6	1,649.2
1987	598.6	207.0	30.3	0.9	131.6	32.1	3.4	12.7	7.6	330.9	2.1	50.6	602.3	-1.2	77.6	0.0	0.0	206.6	1,690.9
1988	610.6	220.9	26.9	0.9	137.4	23.9	5.1	16.3	7.3	311.9	3.0	53.3	586.0	42.3	47.0	0.0	0.0	212.3	1,719.1
1989	564.4	228.5	37.8	0.9	135.9	24.6	5.0	17.5	7.5	315.3	3.7	52.0	600.2	167.3	122.5	0.0	0.0	80.5	1,763.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 268. Residential Energy Consumption Estimates, 1960-1989, Tennessee

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**331**	**4**	**336**	**34**	**80**	**797**	**862**	**1,740**	**8,683**	**21,599**		
1961	284	4	288	34	102	715	891	1,707	8,939	21,787		
1962	305	3	308	36	93	819	978	1,889	9,969	23,966		
1963	285	3	288	41	76	894	1,150	2,121	10,618	25,392		
1964	227	3	230	37	80	670	1,061	1,811	11,545	27,495		
1965	**231**	**3**	**233**	**37**	**100**	**881**	**1,136**	**2,117**	**12,134**	**28,971**		
1966	212	2	214	41	138	1,145	1,496	2,780	13,243	31,776		
1967	182	2	183	42	165	1,840	1,694	3,699	13,330	31,846		
1968	182	2	184	44	183	2,035	1,845	4,063	15,336	36,590		
1969	223	2	225	45	170	1,920	2,276	4,366	16,948	40,483		
1970	**189**	**2**	**191**	**47**	**169**	**2,027**	**2,316**	**4,512**	**17,942**	**43,479**		
1971	202	2	204	47	171	2,048	2,333	4,551	18,192	43,983		
1972	151	1	152	54	211	1,600	2,615	4,425	19,101	45,977		
1973	133	1	134	46	248	1,829	2,766	4,843	20,396	48,829		
1974	119	1	120	44	217	1,544	2,482	4,244	19,802	48,282		
1975	**113**	**1**	**114**	**44**	**237**	**1,316**	**2,767**	**4,320**	**23,034**	**55,561**		
1976	85	1	86	44	411	1,554	2,699	4,663	23,622	56,901		
1977	83	1	83	44	385	1,492	2,496	4,372	26,486	63,956		
1978	75	1	75	40	384	1,409	2,355	4,148	25,980	63,560		
1979	65	*	66	45	375	773	1,580	2,728	25,103	60,582		
1980	**82**	**1**	**82**	**45**	**308**	**549**	**1,501**	**2,358**	**26,207**	**63,727**		
1981	50	0	50	42	471	901	767	2,139	24,631	58,703		
1982	62	0	62	42	403	541	1,086	2,030	24,639	59,178		
1983	168	0	168	41	262	729	1,291	2,282	24,758	59,314		
1984	108	0	108	44	283	881	1,837	3,001	26,236	60,925		
1985	**59**	**0**	**59**	**39**	**259**	**1,122**	**1,999**	**3,380**	**25,546**	**59,906**		
1986	28	0	28	40	166	332	2,262	2,760	25,884	59,346		
1987	34	0	34	43	228	396	1,982	2,606	27,460	62,581		
1988	66	0	66	48	226	563	2,783	3,572	27,960	63,141		
1989	75	3	78	49	245	666	2,896	3,807	28,355	63,603		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**8.2**	**0.1**	**8.3**	**35.1**	**0.5**	**4.5**	**3.5**	**8.4**	**29.6**	**81.4**	**73.7**	**155.1**
1961	7.0	0.1	7.1	35.1	0.6	4.1	3.6	8.2	30.5	80.9	74.3	155.3
1962	7.5	0.1	7.6	36.8	0.5	4.6	3.9	9.1	34.0	87.5	81.8	169.3
1963	7.0	0.1	7.1	42.8	0.4	5.1	4.6	10.1	36.2	96.2	86.6	182.8
1964	5.6	0.1	5.7	38.4	0.5	3.8	4.3	8.5	39.4	92.0	93.8	185.8
1965	**5.7**	**0.1**	**5.7**	**38.9**	**0.6**	**5.0**	**4.6**	**10.1**	**41.4**	**96.1**	**98.8**	**195.0**
1966	5.2	0.1	5.2	42.7	0.8	6.5	6.0	13.3	45.2	106.4	108.4	214.8
1967	4.4	*	4.5	43.4	1.0	10.4	6.5	17.9	45.5	111.3	108.7	219.9
1968	4.4	*	4.5	45.5	1.1	11.5	7.0	19.7	52.3	121.9	124.8	246.8
1969	5.4	*	5.4	47.2	1.0	10.9	8.7	20.5	57.8	131.0	138.1	269.1
1970	**4.5**	*	**4.5**	**47.6**	**1.0**	**11.5**	**8.8**	**21.2**	**61.2**	**134.6**	**148.3**	**282.9**
1971	4.8	*	4.8	48.0	1.0	11.6	8.8	21.4	62.1	136.3	150.1	286.4
1972	3.5	*	3.6	54.9	1.2	9.1	9.8	20.1	65.2	143.7	156.9	300.6
1973	3.1	*	3.2	46.9	1.4	10.4	10.4	22.2	69.6	141.9	166.6	308.5
1974	2.8	*	2.8	44.5	1.3	8.8	9.3	19.3	67.6	134.1	164.7	298.8
1975	**2.7**	*	**2.7**	**45.4**	**1.4**	**7.5**	**10.3**	**19.1**	**78.6**	**145.8**	**189.6**	**335.4**
1976	2.0	*	2.1	45.0	2.4	8.8	10.0	21.2	80.6	148.9	194.1	343.0
1977	1.9	*	2.0	44.9	2.2	8.5	9.2	19.9	90.4	157.1	218.2	375.3
1978	1.7	*	1.8	40.9	2.2	8.0	8.6	18.9	88.6	150.2	216.9	367.1
1979	1.5	*	1.5	46.6	2.2	4.4	5.8	12.4	85.7	146.2	206.7	352.9
1980	**2.0**	*	**2.0**	**45.6**	**1.8**	**3.1**	**5.5**	**10.4**	**89.4**	**147.4**	**217.4**	**364.9**
1981	1.2	0.0	1.2	42.5	2.7	5.1	2.8	10.6	84.0	138.4	200.3	338.7
1982	1.5	0.0	1.5	43.0	2.3	3.1	3.9	9.3	84.1	137.9	201.9	339.8
1983	4.1	0.0	4.1	41.5	1.5	4.1	4.7	10.3	84.5	140.5	202.4	342.8
1984	2.6	0.0	2.6	45.1	1.6	5.0	6.6	13.3	89.5	150.5	207.9	358.4
1985	**1.4**	**0.0**	**1.4**	**40.8**	**1.5**	**6.4**	**7.2**	**15.1**	**87.2**	**144.5**	**204.4**	**348.9**
1986	0.7	0.0	0.7	41.5	1.0	1.9	8.2	11.1	88.3	141.6	202.5	344.1
1987	0.8	0.0	0.8	44.9	1.3	2.2	7.3	10.8	93.7	150.2	213.5	363.8
1988	1.6	0.0	1.6	49.1	1.3	3.2	10.2	14.7	95.4	160.8	215.4	376.3
1989	1.8	0.1	1.9	50.7	1.4	3.8	10.7	15.9	96.7	165.2	217.0	382.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 269. Commercial Energy Consumption Estimates, 1960-1989, Tennessee

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**615**	**3**	**618**	**24**	**200**	**157**	**152**	**173**	*	**682**	**2,796**	**6,956**		
1961	528	3	530	33	253	141	157	213	*	764	2,834	6,907		
1962	566	2	568	38	231	161	173	257	*	821	3,130	7,525		
1963	528	2	531	27	190	176	203	292	*	861	3,475	8,310		
1964	421	2	423	28	200	132	187	303	*	822	3,930	9,360		
1965	**428**	**2**	**430**	**28**	**248**	**173**	**200**	**277**	*	**899**	**4,274**	**10,204**		
1966	394	1	395	31	344	225	264	337	*	1,171	4,602	11,043		
1967	337	1	338	34	411	362	299	356	*	1,429	4,906	11,720		
1968	338	1	339	38	456	400	326	377	*	1,559	5,447	12,995		
1969	415	1	416	41	423	378	402	371	1	1,574	5,911	14,119		
1970	**351**	**1**	**352**	**43**	**422**	**399**	**409**	**392**	**1**	**1,622**	**6,352**	**15,393**		
1971	376	1	377	44	425	403	412	367	1	1,607	6,858	16,580		
1972	280	1	280	46	524	315	461	365	1	1,666	7,550	18,173		
1973	248	1	248	46	617	360	488	376	1	1,841	8,103	19,398		
1974	222	1	222	45	541	304	438	391	1	1,674	8,026	19,571		
1975	**211**	**1**	**211**	**42**	**589**	**259**	**488**	**419**	**1**	**1,757**	**7,440**	**17,947**		
1976	159	1	159	38	1,023	306	476	414	4	2,222	7,905	19,041		
1977	153	1	154	35	958	293	440	423	4	2,119	10,522	25,407		
1978	139	*	139	31	956	277	416	450	3	2,101	13,626	33,336		
1979	121	*	122	43	934	152	279	427	3	1,795	13,939	33,639		
1980	**151**	*	**152**	**44**	**1,015**	**104**	**265**	**465**	**48**	**1,897**	**14,216**	**34,568**		
1981	92	0	92	43	1,118	72	135	499	76	1,901	15,423	36,758		
1982	114	0	114	39	1,115	133	192	489	102	2,031	15,730	37,782		
1983	312	0	312	43	1,989	190	228	528	125	3,060	16,184	38,772		
1984	200	0	200	47	2,148	186	324	592	115	3,365	9,948	23,102		
1985	**110**	**0**	**110**	**43**	**3,086**	**254**	**353**	**337**	**117**	**4,147**	**9,856**	**23,113**		
1986	51	0	51	43	1,412	91	399	401	155	2,458	9,727	22,302		
1987	64	0	64	44	1,161	112	350	374	69	2,065	10,200	23,245		
1988	123	0	123	46	1,103	217	491	517	82	2,410	10,481	23,669		
1989	140	2	142	48	664	168	511	515	67	1,925	12,237	27,449		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**15.2**	**0.1**	**15.3**	**25.1**	**1.2**	**0.9**	**0.6**	**0.9**	*	**3.6**	**9.5**	**53.5**	**23.7**	**77.2**
1961	13.0	0.1	13.1	34.2	1.5	0.8	0.6	1.1	*	4.0	9.7	61.0	23.6	84.6
1962	14.0	0.1	14.0	39.3	1.3	0.9	0.7	1.3	*	4.3	10.7	68.3	25.7	94.0
1963	13.0	*	13.1	28.6	1.1	1.0	0.8	1.5	*	4.5	11.9	58.0	28.4	86.4
1964	10.4	*	10.4	29.7	1.2	0.7	0.8	1.6	*	4.3	13.4	57.8	31.9	89.7
1965	**10.5**	*	**10.6**	**29.6**	**1.4**	**1.0**	**0.8**	**1.5**	*	**4.7**	**14.6**	**59.4**	**34.8**	**94.3**
1966	9.6	*	9.7	32.8	2.0	1.3	1.1	1.8	*	6.1	15.7	64.3	37.7	102.0
1967	8.2	*	8.3	35.8	2.4	2.1	1.1	1.9	*	7.5	16.7	68.3	40.0	108.3
1968	8.2	*	8.3	39.8	2.7	2.3	1.2	2.0	*	8.1	18.6	74.8	44.3	119.2
1969	10.0	*	10.1	42.7	2.5	2.1	1.5	2.0	*	8.1	20.2	81.0	48.2	129.2
1970	**8.3**	*	**8.4**	**43.7**	**2.5**	**2.3**	**1.5**	**2.1**	*	**8.3**	**21.7**	**82.0**	**52.5**	**134.6**
1971	8.9	*	8.9	45.0	2.5	2.3	1.6	1.9	*	8.2	23.4	85.6	56.6	142.1
1972	6.6	*	6.6	46.6	3.1	1.8	1.7	1.9	*	8.5	25.8	87.5	62.0	149.5
1973	5.8	*	5.8	46.9	3.6	2.0	1.8	2.0	*	9.4	27.6	89.8	66.2	156.0
1974	5.1	*	5.1	45.5	3.2	1.7	1.6	2.1	*	8.6	27.4	86.6	66.8	153.4
1975	**5.0**	*	**5.0**	**43.8**	**3.4**	**1.5**	**1.8**	**2.2**	*	**8.9**	**25.4**	**83.1**	**61.2**	**144.3**
1976	3.8	*	3.8	39.4	6.0	1.7	1.8	2.2	*	11.7	27.0	81.8	65.0	146.7
1977	3.6	*	3.6	36.2	5.6	1.7	1.6	2.2	*	11.1	35.9	86.8	86.7	173.5
1978	3.2	*	3.2	31.8	5.6	1.6	1.5	2.4	*	11.0	46.5	92.6	113.7	206.3
1979	2.8	*	2.8	44.1	5.4	0.9	1.0	2.2	*	9.6	47.6	104.1	114.8	218.9
1980	**3.6**	*	**3.6**	**44.8**	**5.9**	**0.6**	**1.0**	**2.4**	**0.3**	**10.2**	**48.5**	**107.1**	**117.9**	**225.1**
1981	2.2	0.0	2.2	43.4	6.5	0.4	0.5	2.6	0.5	10.5	52.6	108.7	125.4	234.2
1982	2.7	0.0	2.7	39.6	6.5	0.8	0.7	2.6	0.6	11.2	53.7	107.2	128.9	236.1
1983	7.7	0.0	7.7	43.9	11.6	1.1	0.8	2.8	0.8	17.0	55.2	123.8	132.3	256.1
1984	4.9	0.0	4.9	47.7	12.5	1.1	1.2	3.1	0.7	18.6	33.9	105.0	78.8	183.9
1985	**2.7**	**0.0**	**2.7**	**44.9**	**18.0**	**1.4**	**1.3**	**1.8**	**0.7**	**23.2**	**33.6**	**104.4**	**78.9**	**183.2**
1986	1.2	0.0	1.2	44.0	8.2	0.5	1.5	2.1	1.0	13.3	33.2	91.7	76.1	167.7
1987	1.5	0.0	1.5	45.6	6.8	0.6	1.3	2.0	0.4	11.1	34.8	93.0	79.3	172.3
1988	3.0	0.0	3.0	47.3	6.4	1.2	1.8	2.7	0.5	12.7	35.8	98.8	80.8	179.5
1989	3.4	0.1	3.5	49.1	3.9	0.9	1.9	2.7	0.4	9.8	41.8	104.1	93.7	197.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 270. Industrial Energy Consumption Estimates, 1960–1989, Tennessee

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours			
1960	**2,145**	**162**	**2,307**	**76**	**1,785**	**2,096**	**1,670**	**275**	**256**	**627**	**180**	**1,458**	**8,346**	**0**	**27,514**	**68,438**		
1961	2,379	143	2,522	72	1,937	2,133	1,016	243	249	589	120	2,357	8,644	0	27,053	65,935		
1962	2,204	151	2,355	71	2,298	2,048	1,298	274	215	486	105	2,758	9,483	0	27,491	66,091		
1963	2,410	165	2,575	79	2,084	1,742	1,259	336	215	586	219	4,143	10,585	0	28,556	68,291		
1964	2,365	185	2,550	91	2,607	1,862	1,572	475	226	509	252	4,452	11,955	0	28,343	67,502		
1965	**2,688**	**173**	**2,862**	**97**	**3,441**	**2,601**	**1,486**	**522**	**321**	**484**	**264**	**4,403**	**13,521**	**0**	**28,362**	**67,716**		
1966	3,044	160	3,203	109	4,075	3,382	1,887	381	333	405	333	5,090	15,887	0	29,521	70,837		
1967	2,966	161	3,127	109	3,332	3,244	1,578	341	287	346	365	5,517	15,011	0	29,377	70,181		
1968	3,214	151	3,365	108	3,814	3,288	1,856	400	315	305	328	5,961	16,267	0	27,301	65,138		
1969	2,607	140	2,747	118	3,640	3,193	1,710	511	328	263	797	6,866	17,308	0	27,583	65,887		
1970	**2,332**	**120**	**2,452**	**123**	**3,628**	**3,172**	**1,709**	**363**	**334**	**235**	**593**	**6,310**	**16,346**	**0**	**27,776**	**67,310**		
1971	1,846	101	1,947	129	3,456	3,288	1,655	331	415	210	371	4,689	14,416	0	26,682	64,508		
1972	2,192	94	2,286	136	3,734	3,931	1,413	348	445	205	517	5,691	16,285	0	28,874	69,500		
1973	2,460	92	2,551	161	4,697	4,347	1,360	452	564	143	514	5,710	17,786	0	33,630	80,510		
1974	2,359	91	2,450	148	3,432	4,501	937	415	540	184	803	5,640	16,452	0	34,108	83,164		
1975	**2,054**	**80**	**2,134**	**112**	**3,765**	**4,712**	**714**	**455**	**522**	**117**	**523**	**5,671**	**16,479**	**0**	**37,904**	**91,429**		
1976	2,179	91	2,270	115	3,882	6,631	944	470	580	93	2,699	6,233	21,532	0	41,285	99,448		
1977	2,737	84	2,821	110	5,061	6,385	903	477	564	98	3,249	7,299	24,037	0	38,214	92,276		
1978	2,947	72	3,018	99	5,561	6,520	873	725	606	78	2,224	7,292	23,878	0	32,772	80,177		
1979	3,024	69	3,092	118	4,408	5,950	1,452	1,046	634	48	2,231	7,831	23,601	0	34,088	82,266		
1980	**2,722**	**52**	**2,774**	**123**	**3,378**	**4,252**	**881**	**960**	**565**	**36**	**1,445**	**8,419**	**19,936**	**0**	**32,968**	**80,167**		
1981	3,512	61	3,573	121	2,732	3,685	551	522	542	28	1,074	8,828	17,962	0	31,070	74,049		
1982	3,099	23	3,122	110	4,173	3,341	425	868	494	26	598	7,061	16,985	0	25,455	61,138		
1983	3,924	12	3,936	100	3,000	2,675	166	611	517	17	917	5,800	13,702	0	28,424	68,098		
1984	3,913	28	3,941	103	3,816	2,889	154	875	551	451	845	6,857	16,437	0	35,925	83,424		
1985	**4,138**	**7**	**4,145**	**97**	**4,408**	**3,482**	**308**	**1,003**	**514**	**642**	**531**	**6,463**	**17,352**	**0**	**33,624**	**78,848**		
1986	4,200	5	4,205	92	4,158	3,684	58	1,069	502	578	545	8,845	19,440	0	32,196	73,818		
1987	4,030	4	4,034	98	4,565	3,479	84	1,024	568	608	264	9,088	19,681	0	32,071	73,090		
1988	4,018	2	4,020	103	4,048	3,390	118	1,013	548	562	383	9,520	19,582	0	34,431	77,755		
1989	4,053	5	4,058	107	5,703	2,360	39	1,149	562	604	509	9,317	20,244	0	34,520	77,431		
																	Net Energy[4]	Total[4]
					Trillion Btu													
1960	**54.1**	**4.0**	**58.1**	**78.6**	**11.8**	**12.2**	**9.5**	**1.1**	**1.5**	**3.3**	**1.1**	**8.6**	**49.2**	**0.0**	**93.9**	**279.7**	**233.5**	**513.3**
1961	60.0	3.6	63.5	74.4	12.9	12.4	5.8	1.0	1.5	3.1	0.8	14.0	51.3	0.0	92.3	281.6	225.0	506.6
1962	55.6	3.7	59.3	73.1	15.2	11.9	7.4	1.1	1.3	2.6	0.7	16.4	56.5	0.0	93.8	282.8	225.5	508.3
1963	60.6	4.0	64.6	83.7	13.8	10.1	7.1	1.3	1.3	3.1	1.4	24.0	62.3	0.0	97.4	308.0	233.0	541.0
1964	59.3	4.5	63.8	95.6	17.3	10.8	8.9	1.9	1.4	2.7	1.6	25.5	70.1	0.0	96.7	326.1	230.3	556.4
1965	**67.2**	**4.2**	**71.4**	**101.9**	**22.8**	**15.2**	**8.4**	**2.1**	**1.9**	**2.5**	**1.7**	**25.2**	**79.9**	**0.0**	**96.8**	**350.0**	**231.0**	**581.0**
1966	75.5	3.9	79.4	114.6	27.0	19.7	10.7	1.5	2.0	2.1	2.1	29.1	94.3	0.0	100.7	389.0	241.7	630.7
1967	73.1	3.8	76.9	113.5	22.1	18.9	8.9	1.3	1.7	1.8	2.3	31.4	88.5	0.0	100.2	379.1	239.5	618.6
1968	79.1	3.5	82.7	112.4	25.3	19.2	10.5	1.5	1.9	1.6	2.1	33.8	95.9	0.0	93.1	384.2	222.3	606.4
1969	63.5	3.3	66.8	122.8	24.2	18.6	9.7	1.9	2.0	1.4	5.0	39.2	102.0	0.0	94.1	385.7	224.8	610.5
1970	**55.2**	**2.8**	**58.0**	**125.9**	**24.1**	**18.5**	**9.7**	**1.4**	**2.0**	**1.2**	**3.7**	**35.9**	**96.5**	**0.0**	**94.8**	**375.1**	**229.7**	**604.8**
1971	43.3	2.4	45.7	132.1	22.9	19.2	9.4	1.2	2.5	1.1	2.3	27.0	85.7	0.0	91.0	354.5	220.1	574.6
1972	51.0	2.2	53.2	139.1	24.8	22.9	8.0	1.3	2.7	1.1	3.3	33.0	97.0	0.0	98.5	387.8	237.1	624.9
1973	57.4	2.1	59.5	164.5	31.2	25.3	7.7	1.7	3.4	0.8	3.2	33.0	106.3	0.0	114.7	445.0	274.7	719.7
1974	54.6	2.0	56.6	150.9	22.8	26.2	5.3	1.5	3.3	1.0	5.0	32.5	97.6	0.0	116.4	421.5	283.8	705.3
1975	**48.2**	**1.8**	**49.9**	**115.1**	**25.0**	**27.4**	**4.1**	**1.7**	**3.2**	**0.6**	**3.3**	**32.8**	**98.0**	**0.0**	**129.3**	**392.4**	**312.0**	**704.4**
1976	52.0	2.1	54.1	118.4	25.8	38.6	5.4	1.7	3.5	0.5	17.0	35.9	128.3	0.0	140.9	441.6	339.3	781.0
1977	64.6	2.0	66.6	113.0	33.6	37.2	5.1	1.8	3.4	0.5	20.4	42.1	144.1	0.0	130.4	454.2	314.8	769.0
1978	70.1	1.7	71.8	101.7	36.9	38.0	4.9	2.7	3.7	0.4	14.0	42.0	142.6	0.0	111.8	427.9	273.6	701.4
1979	72.8	1.7	74.4	122.3	29.2	34.7	8.2	3.8	3.8	0.3	14.0	44.3	138.4	0.0	116.3	451.5	280.7	732.2
1980	**66.0**	**1.2**	**67.2**	**125.1**	**22.4**	**24.8**	**5.0**	**3.5**	**3.4**	**0.2**	**9.1**	**47.3**	**115.7**	**0.0**	**112.5**	**420.5**	**273.5**	**694.0**
1981	85.0	1.4	86.4	123.1	18.1	21.5	3.1	1.9	3.3	0.1	6.8	50.1	104.9	0.0	106.0	420.4	252.7	673.0
1982	75.4	0.6	75.9	112.5	27.7	19.5	2.4	3.1	3.0	0.1	3.8	40.1	99.7	0.0	86.9	375.0	208.6	583.6
1983	95.2	0.3	95.5	102.4	19.9	15.6	0.9	2.2	3.1	0.1	5.8	33.2	80.9	0.0	97.0	375.7	232.4	608.1
1984	96.0	0.7	96.7	105.5	25.3	16.8	0.9	3.1	3.3	2.4	5.3	38.6	95.8	0.0	122.6	420.6	284.6	705.2
1985	**102.1**	**0.2**	**102.2**	**100.6**	**29.3**	**20.3**	**1.7**	**3.6**	**3.1**	**3.4**	**3.3**	**36.5**	**101.3**	**0.0**	**114.7**	**418.8**	**269.0**	**687.8**
1986	104.0	0.1	104.2	94.5	27.6	21.5	0.3	3.9	3.0	3.0	3.4	49.6	112.3	0.0	109.9	420.9	251.9	672.8
1987	100.3	0.1	100.4	100.8	30.3	20.3	0.5	3.7	3.4	3.2	1.7	50.6	113.7	0.0	109.4	424.4	249.4	673.7
1988	99.7	0.1	99.8	106.6	26.9	19.7	0.7	3.7	3.3	3.0	2.4	53.3	113.0	0.0	117.5	436.9	265.3	702.2
1989	100.2	0.1	100.3	110.3	37.8	13.7	0.2	4.2	3.4	3.2	3.2	52.0	117.8	0.0	117.8	446.3	264.2	710.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 271. Transportation Energy Consumption Estimates, 1960–1989, Tennessee

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**38**	**5**	**1,040**	**2,914**	**570**	**22**	**505**	**26,468**	**8**	**31,527**	*	*		
1961	11	15	905	3,097	661	23	491	27,382	54	32,612	*	*		
1962	9	16	920	3,824	792	30	459	28,716	0	34,741	*	*		
1963	9	18	1,244	4,686	861	41	459	29,455	57	36,803	*	*		
1964	9	19	1,090	4,662	1,023	72	482	30,469	34	37,831	*	*		
1965	**9**	**23**	**1,024**	**4,346**	**1,174**	**54**	**479**	**31,721**	**22**	**38,819**	*	*		
1966	9	22	747	5,363	1,493	97	497	34,074	10	42,282	*	*		
1967	7	22	447	4,914	2,040	103	415	35,884	116	43,919	*	*		
1968	7	22	267	6,350	2,568	124	456	37,696	9	47,469	*	*		
1969	4	25	184	6,610	3,124	124	482	39,896	6	50,426	*	*		
1970	**4**	**26**	**116**	**7,189**	**3,335**	**94**	**491**	**41,241**	**3**	**52,469**	*	*		
1971	2	27	115	7,665	3,335	112	482	43,927	1	55,637	*	*		
1972	2	25	119	9,500	3,439	90	516	47,763	0	61,427	*	*		
1973	2	28	109	10,308	3,795	119	557	51,874	131	66,893	*	*		
1974	1	24	93	10,647	3,837	118	533	51,061	65	66,353	*	*		
1975	*	**19**	**70**	**10,631**	**3,936**	**120**	**807**	**53,199**	**191**	**68,953**	*	*		
1976	*	15	56	11,462	4,105	120	896	55,740	260	72,639	*	*		
1977	*	14	63	12,642	4,377	131	675	57,133	117	75,139	*	*		
1978	0	14	56	14,359	4,683	166	725	59,524	58	79,572	*	*		
1979	0	20	705	16,242	4,895	103	759	56,665	156	79,525	*	*		
1980	**0**	**16**	**290**	**13,196**	**4,154**	**61**	**676**	**54,446**	**6**	**72,828**	*	*		
1981	0	18	232	13,949	3,486	90	648	54,076	76	72,557	*	1		
1982	0	17	171	13,667	2,289	154	591	54,006	21	70,899	*	*		
1983	0	11	179	14,934	2,060	182	619	53,310	0	71,285	*	*		
1984	0	13	164	16,422	3,636	294	660	56,348	0	77,524	*	1		
1985	**0**	**10**	**154**	**15,221**	**4,862**	**216**	**615**	**57,055**	**0**	**78,123**	*	**1**		
1986	0	14	201	17,156	5,925	242	601	59,318	0	83,442	*	1		
1987	0	15	186	17,500	5,686	128	680	62,007	*	86,187	*	1		
1988	0	17	183	18,500	4,231	177	656	58,301	15	82,062	*	1		
1989	0	18	182	19,704	4,356	190	673	58,909	14	84,026	*	1		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**0.9**	**5.5**	**5.2**	**17.0**	**3.1**	**0.1**	**3.1**	**139.0**	**0.1**	**167.6**	*	**174.0**	*	**174.0**
1961	0.3	16.0	4.6	18.0	3.6	0.1	3.0	143.8	0.3	173.5	*	189.7	*	189.7
1962	0.2	16.7	4.6	22.3	4.3	0.1	2.8	150.8	0.0	185.0	*	201.9	*	201.9
1963	0.2	19.3	6.3	27.3	4.7	0.2	2.8	154.7	0.4	196.3	*	215.9	*	215.9
1964	0.2	19.9	5.5	27.2	5.6	0.3	2.9	160.1	0.2	201.8	*	221.9	*	221.9
1965	**0.2**	**23.7**	**5.2**	**25.3**	**6.5**	**0.2**	**2.9**	**166.6**	**0.1**	**206.9**	*	**230.9**	*	**230.9**
1966	0.2	23.0	3.8	31.2	8.3	0.4	3.0	179.0	0.1	225.8	*	249.0	*	249.0
1967	0.2	23.2	2.3	28.6	11.4	0.4	2.5	188.5	0.7	234.4	*	257.8	*	257.8
1968	0.2	23.3	1.3	37.0	14.4	0.5	2.8	198.0	0.1	254.0	*	277.5	*	277.5
1969	0.1	25.9	0.9	38.5	17.6	0.5	2.9	209.6	*	270.0	*	296.1	*	296.1
1970	**0.1**	**27.0**	**0.6**	**41.9**	**18.8**	**0.4**	**3.0**	**216.6**	*	**281.2**	*	**308.4**	*	**308.4**
1971	0.1	27.2	0.6	44.6	18.8	0.4	2.9	230.7	*	298.1	*	325.4	*	325.4
1972	0.1	25.9	0.6	55.3	19.4	0.3	3.1	250.9	0.0	329.7	*	355.6	*	355.6
1973	*	29.0	0.5	60.0	21.4	0.4	3.4	272.5	0.8	359.2	*	388.2	*	388.2
1974	*	24.5	0.5	62.0	21.6	0.4	3.2	268.2	0.4	356.4	*	380.9	*	380.9
1975	*	**19.7**	**0.4**	**61.9**	**22.2**	**0.4**	**4.9**	**279.5**	**1.2**	**370.5**	*	**390.2**	*	**390.2**
1976	*	15.5	0.3	66.8	23.2	0.4	5.4	292.8	1.6	390.5	*	406.1	*	406.1
1977	*	14.3	0.3	73.6	24.7	0.5	4.1	300.1	0.7	404.1	*	418.4	*	418.4
1978	0.0	14.8	0.3	83.6	26.4	0.6	4.4	312.7	0.4	428.4	*	443.2	*	443.2
1979	0.0	20.8	3.6	94.6	27.7	0.4	4.6	297.7	1.0	429.4	*	450.3	*	450.3
1980	**0.0**	**16.8**	**1.5**	**76.9**	**23.4**	**0.2**	**4.1**	**286.0**	*	**392.1**	*	**408.9**	*	**408.9**
1981	0.0	17.8	1.2	81.3	19.7	0.3	3.9	284.1	0.5	390.9	*	408.7	*	408.7
1982	0.0	17.0	0.9	79.6	12.9	0.6	3.6	283.7	0.1	381.3	*	398.3	*	398.3
1983	0.0	11.1	0.9	87.0	11.6	0.7	3.8	280.0	0.0	383.9	*	395.1	*	395.1
1984	0.0	13.0	0.8	95.7	20.5	1.1	4.0	296.0	0.0	418.0	*	431.1	*	431.1
1985	**0.0**	**10.5**	**0.8**	**88.7**	**27.5**	**0.8**	**3.7**	**299.7**	**0.0**	**421.1**	*	**431.6**	*	**431.7**
1986	0.0	14.0	1.0	99.9	33.5	0.9	3.6	311.6	0.0	450.6	*	464.6	*	464.6
1987	0.0	15.8	0.9	101.9	32.1	0.5	4.1	325.7	*	465.3	*	481.1	*	481.1
1988	0.0	17.6	0.9	107.8	23.9	0.6	4.0	306.3	0.1	443.5	*	461.2	*	461.2
1989	0.0	18.4	0.9	114.8	24.6	0.7	4.1	309.4	0.1	454.6	*	473.0	*	473.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 272. Estimates of Energy Input at Electric Utilities, 1960–1989, Tennessee

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**12,138**	**0**	**12,138**	**7**	**0**	*****	**0**	*****	**0**	**8,676**	**0**	**0**	
1961	11,288	0	11,288	7	0	*	0	*	0	8,749	0	0	
1962	11,134	0	11,134	8	0	*	0	*	0	9,636	0	0	
1963	12,598	0	12,598	5	0	*	0	*	0	7,722	0	0	
1964	10,857	0	10,857	7	0	*	0	*	0	9,097	0	0	
1965	**10,637**	**0**	**10,637**	**16**	**0**	**0**	**0**	**0**	**0**	**8,750**	**0**	**0**	
1966	11,472	0	11,472	23	0	0	0	0	0	7,633	0	0	
1967	11,169	0	11,169	25	0	0	0	0	0	9,628	0	0	
1968	14,710	0	14,710	22	0	0	0	0	0	7,721	0	0	
1969	15,463	0	15,463	18	0	0	0	0	0	7,477	0	0	
1970	**14,727**	**0**	**14,727**	**17**	**0**	**0**	**0**	**0**	**0**	**8,067**	**0**	**0**	
1971	14,130	0	14,130	18	0	17	0	17	0	9,420	0	0	
1972	17,200	0	17,200	16	0	166	0	166	0	11,132	0	0	
1973	20,934	0	20,934	12	0	296	0	296	0	11,452	0	0	
1974	18,526	0	18,526	0	0	296	0	296	0	11,767	0	0	
1975	**18,848**	**0**	**18,848**	**0**	**0**	**1,310**	**0**	**1,310**	**0**	**11,806**	**0**	**0**	
1976	22,362	0	22,362	*	0	2,486	0	2,486	0	9,474	0	0	
1977	21,694	0	21,694	0	0	3,739	0	3,739	0	10,396	0	0	
1978	21,621	0	21,621	0	0	5,177	0	5,177	0	8,783	0	0	
1979	20,173	0	20,173	0	55	645	0	700	0	12,306	0	0	
1980	**21,679**	**0**	**21,679**	**1**	**0**	**406**	**0**	**406**	**519**	**8,764**	**0**	**0**	
1981	20,497	0	20,497	*	0	322	0	322	4,704	5,915	0	0	
1982	16,532	0	16,532	0	0	287	0	287	10,104	9,769	0	0	
1983	18,672	0	18,672	*	0	291	0	291	14,051	9,952	0	0	
1984	19,106	0	19,106	0	0	207	0	207	12,501	10,181	0	0	
1985	**20,853**	**0**	**20,853**	**0**	**0**	**237**	**0**	**237**	**9,672**	**6,539**	**0**	**0**	
1986	21,051	0	21,051	0	0	232	0	232	-105	5,326	0	0	
1987	20,697	0	20,697	0	0	222	0	222	-108	7,566	0	0	
1988	21,010	0	21,010	*	0	365	0	365	3,940	4,591	0	0	
1989	19,283	0	19,283	*	0	356	0	356	15,603	11,853	0	0	
						Trillion Btu							
1960	**291.8**	**0.0**	**291.8**	**7.5**	**0.0**	*****	**0.0**	*****	**0.0**	**93.4**	**0.0**	**0.0**	**392.6**
1961	270.2	0.0	270.2	7.0	0.0	*	0.0	*	0.0	93.2	0.0	0.0	370.3
1962	266.0	0.0	266.0	8.1	0.0	*	0.0	*	0.0	101.7	0.0	0.0	375.8
1963	301.3	0.0	301.3	4.8	0.0	*	0.0	*	0.0	80.9	0.0	0.0	387.0
1964	256.0	0.0	256.0	7.7	0.0	*	0.0	*	0.0	95.2	0.0	0.0	358.8
1965	**250.9**	**0.0**	**250.9**	**17.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**91.5**	**0.0**	**0.0**	**359.4**
1966	269.1	0.0	269.1	23.7	0.0	0.0	0.0	0.0	0.0	79.5	0.0	0.0	372.3
1967	262.2	0.0	262.2	26.0	0.0	0.0	0.0	0.0	0.0	100.4	0.0	0.0	388.7
1968	343.7	0.0	343.7	22.4	0.0	0.0	0.0	0.0	0.0	80.3	0.0	0.0	446.3
1969	354.3	0.0	354.3	19.0	0.0	0.0	0.0	0.0	0.0	78.1	0.0	0.0	451.4
1970	**332.7**	**0.0**	**332.7**	**17.6**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**84.7**	**0.0**	**0.0**	**435.0**
1971	310.6	0.0	310.6	18.5	0.0	0.1	0.0	0.1	0.0	98.7	0.0	0.0	427.9
1972	380.9	0.0	380.9	16.9	0.0	1.0	0.0	1.0	0.0	115.5	0.0	0.0	514.3
1973	464.5	0.0	464.5	12.6	0.0	1.7	0.0	1.7	0.0	119.0	0.0	0.0	597.8
1974	405.8	0.0	405.8	0.0	0.0	1.7	0.0	1.7	0.0	122.9	0.0	0.0	530.4
1975	**414.3**	**0.0**	**414.3**	**0.0**	**0.0**	**7.6**	**0.0**	**7.6**	**0.0**	**122.9**	**0.0**	**0.0**	**544.8**
1976	501.6	0.0	501.6	0.2	0.0	14.5	0.0	14.5	0.0	98.3	0.0	0.0	614.5
1977	481.5	0.0	481.5	0.0	0.0	21.8	0.0	21.8	0.0	108.5	0.0	0.0	611.8
1978	487.9	0.0	487.9	0.0	0.0	30.2	0.0	30.2	0.0	91.0	0.0	0.0	609.1
1979	463.5	0.0	463.5	0.0	0.3	3.8	0.0	4.1	0.0	127.4	0.0	0.0	595.0
1980	**504.1**	**0.0**	**504.1**	**1.1**	**0.0**	**2.4**	**0.0**	**2.4**	**5.7**	**91.0**	**0.0**	**0.0**	**604.3**
1981	476.1	0.0	476.1	0.3	0.0	1.9	0.0	1.9	51.9	61.8	0.0	0.0	592.0
1982	390.5	0.0	390.5	0.0	0.0	1.7	0.0	1.7	111.9	102.1	0.0	0.0	606.2
1983	439.9	0.0	439.9	0.1	0.0	1.7	0.0	1.7	153.2	104.7	0.0	0.0	699.6
1984	451.1	0.0	451.1	0.0	0.0	1.2	0.0	1.2	135.6	105.1	0.0	0.0	693.0
1985	**493.3**	**0.0**	**493.3**	**0.0**	**0.0**	**1.4**	**0.0**	**1.4**	**104.6**	**67.6**	**0.0**	**0.0**	**666.9**
1986	501.4	0.0	501.4	0.0	0.0	1.3	0.0	1.3	-1.1	54.6	0.0	0.0	556.2
1987	495.8	0.0	495.8	0.0	0.0	1.3	0.0	1.3	-1.2	77.6	0.0	0.0	573.5
1988	506.1	0.0	506.1	0.2	0.0	2.1	0.0	2.1	42.3	47.0	0.0	0.0	597.8
1989	458.7	0.0	458.7	*	0.0	2.1	0.0	2.1	167.3	122.5	0.0	0.0	750.6

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 273. Energy Consumption Estimates by Source, 1960–1989, Texas

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**1,067**	**2,720**	**6,284**	**3,261**	**24,400**	**10,842**	**3,391**	**73,297**	**3,493**	**91,841**	**22,584**	**55,559**	**294,951**	**0**	**927**	**0**	**0**	**-1,996**	
1961	774	2,736	7,279	2,855	21,899	11,801	1,360	75,950	3,399	94,332	21,818	58,601	299,295	0	1,130	0	0	-2,371	
1962	827	2,859	7,539	3,883	24,061	14,045	1,457	81,932	4,110	97,771	18,707	61,153	314,658	0	695	0	0	-5,766	
1963	768	2,936	7,147	3,654	24,034	14,650	2,108	87,241	4,108	101,355	17,652	74,333	336,283	0	308	0	0	-6,820	
1964	1,050	2,943	7,361	3,370	24,044	15,498	3,687	101,447	4,315	104,175	17,463	79,379	360,739	0	325	0	0	-8,558	
1965	**1,146**	**3,068**	**7,811**	**3,457**	**24,854**	**15,365**	**3,459**	**109,109**	**3,788**	**107,851**	**14,322**	**80,179**	**370,195**	**0**	**661**	**0**	**87**	**-2,853**	
1966	1,085	3,264	8,456	3,012	22,852	17,646	7,462	110,875	3,935	113,463	13,901	84,315	385,917	0	697	0	92	-1,175	
1967	922	3,485	8,974	2,671	22,565	21,162	7,024	113,533	3,725	117,780	14,097	88,921	400,453	0	481	0	94	-2,215	
1968	978	3,696	9,276	2,223	23,036	24,253	6,965	128,836	4,092	127,038	13,936	94,922	434,577	0	1,226	0	101	-273	
1969	941	3,877	9,968	2,187	29,667	25,101	7,461	150,180	4,127	134,024	14,454	99,009	476,178	0	1,139	0	100	1,141	
1970	**1,154**	**4,093**	**11,885**	**2,007**	**32,410**	**24,430**	**7,500**	**151,223**	**4,204**	**141,393**	**14,146**	**100,071**	**489,268**	**0**	**883**	**0**	**97**	**4,903**	
1971	921	4,365	11,479	1,998	34,926	25,067	5,721	154,363	4,274	148,620	12,126	105,559	504,133	0	718	0	95	-588	
1972	2,774	4,413	11,379	1,565	46,020	25,910	7,285	178,294	4,576	159,242	14,860	114,989	564,120	0	615	0	101	-4,217	
1973	7,885	4,621	11,751	1,554	53,752	26,533	8,709	184,322	5,016	169,451	29,754	124,258	615,100	0	1,381	0	101	2,250	
1974	8,476	4,463	12,212	1,603	55,721	25,955	7,597	176,592	4,804	167,865	35,968	126,929	615,246	0	1,281	0	95	-134	
1975	**12,765**	**3,944**	**8,150**	**1,312**	**54,706**	**27,308**	**7,196**	**157,246**	**4,321**	**175,538**	**38,536**	**123,569**	**597,883**	**0**	**1,584**	**0**	**89**	**-5,489**	
1976	15,981	3,975	6,749	1,270	58,322	25,641	5,339	160,449	4,800	186,703	44,304	150,284	643,863	0	827	0	98	-3,636	
1977	19,671	4,143	5,440	1,361	74,729	26,704	6,811	162,361	5,336	195,017	53,725	173,875	705,360	0	1,118	0	96	-6,416	
1978	28,759	4,211	7,145	1,279	80,965	27,954	8,157	165,026	5,731	201,991	60,875	185,097	744,219	0	748	0	96	-6,671	
1979	39,409	4,001	9,366	1,176	89,011	29,263	17,670	182,236	5,997	195,984	72,076	207,508	810,287	0	1,174	0	85	-13,721	
1980	**48,602**	**4,091**	**10,906**	**1,264**	**72,513**	**30,934**	**15,355**	**189,802**	**5,340**	**180,997**	**65,070**	**218,058**	**790,240**	**0**	**398**	**0**	**79**	**-20,069**	
1981	56,364	3,927	7,923	1,301	90,679	30,922	10,745	204,321	5,121	185,175	67,308	170,008	773,505	0	856	0	75	-21,188	
1982	61,217	3,394	7,855	903	90,523	42,809	10,128	195,305	4,670	190,663	59,968	141,674	744,498	0	1,022	0	61	-11,762	
1983	68,201	3,242	11,721	762	96,961	47,270	14,276	196,447	4,890	195,020	43,198	137,570	748,115	0	1,153	0	75	2,561	
1984	72,452	3,433	10,729	963	97,238	64,626	13,720	232,967	5,214	196,755	47,988	148,099	818,299	0	1,075	0	110	16,862	
1985	**77,017**	**3,386**	**11,808**	**1,317**	**94,121**	**74,500**	**7,280**	**221,064**	**4,859**	**205,370**	**42,060**	**142,203**	**804,582**	**0**	**1,397**	**0**	**300**	**29,511**	
1986	79,259	3,186	13,645	1,539	86,354	80,214	9,123	217,014	4,751	209,517	34,376	143,021	799,555	0	1,962	0	308	38,671	
1987	82,915	3,303	12,601	1,150	88,345	84,562	9,250	254,648	5,372	204,864	36,551	149,720	847,062	0	2,118	0	233	46,549	
1988	86,644	3,531	14,434	1,013	86,408	94,793	4,239	263,585	5,180	208,955	32,465	163,139	874,210	3,792	1,203	0	0	42,050	
1989	90,989	3,625	9,682	820	87,946	93,265	7,173	277,172	5,313	203,422	33,654	162,516	880,963	9,990	1,383	0	190	20,545	
									Trillion Btu										
1960	**25.0**	**2,815.5**	**41.7**	**16.5**	**142.1**	**58.6**	**19.2**	**294.0**	**21.2**	**482.4**	**142.0**	**331.8**	**1,549.5**	**0.0**	**10.0**	**0.0**	**0.0**	**-6.8**	**4,393.1**
1961	18.2	2,832.0	48.3	14.4	127.6	63.9	7.7	304.6	20.6	495.5	137.2	349.9	1,569.8	0.0	12.0	0.0	0.0	-8.1	4,423.9
1962	20.6	2,959.6	50.0	19.6	140.2	76.4	8.3	328.6	24.9	513.6	117.6	365.0	1,644.3	0.0	7.3	0.0	0.0	-19.7	4,612.1
1963	19.2	3,044.4	47.4	18.4	140.0	79.8	12.0	349.9	24.9	532.4	111.0	437.9	1,753.8	0.0	3.2	0.0	0.0	-23.3	4,797.4
1964	26.2	3,040.5	48.9	17.0	140.1	84.5	20.9	406.9	26.2	547.2	109.8	466.4	1,867.8	0.0	3.4	0.0	0.0	-29.2	4,908.7
1965	**29.2**	**3,181.5**	**51.8**	**17.5**	**144.8**	**84.3**	**19.6**	**437.6**	**23.0**	**566.5**	**90.0**	**471.6**	**1,906.8**	**0.0**	**6.9**	**0.0**	**0.9**	**-9.7**	**5,115.5**
1966	27.8	3,404.3	56.1	15.2	133.1	97.2	42.3	444.7	23.9	596.0	87.4	492.9	1,988.8	0.0	7.3	0.0	1.0	-4.0	5,425.2
1967	23.5	3,638.6	59.6	13.5	131.4	116.8	39.8	435.7	22.6	618.7	88.6	518.3	2,045.1	0.0	5.0	0.0	1.0	-7.6	5,705.6
1968	25.0	3,836.9	61.6	11.2	134.2	133.9	39.5	491.9	24.8	667.3	87.6	552.6	2,204.7	0.0	12.7	0.0	1.1	-0.9	6,079.4
1969	25.1	4,024.7	66.1	11.0	172.8	139.2	42.3	571.4	25.0	704.0	90.9	576.7	2,399.6	0.0	11.9	0.0	1.0	3.9	6,466.3
1970	**30.8**	**4,203.9**	**78.9**	**10.1**	**188.8**	**135.9**	**42.5**	**571.5**	**25.5**	**742.7**	**88.9**	**582.9**	**2,467.8**	**0.0**	**9.3**	**0.0**	**1.0**	**16.7**	**6,729.5**
1971	24.0	4,482.6	76.2	10.1	203.4	139.4	32.4	582.3	25.9	780.7	76.2	613.1	2,539.8	0.0	7.5	0.0	1.0	-2.0	7,052.9
1972	50.1	4,531.8	75.5	7.9	268.1	144.4	41.3	670.4	27.8	836.5	93.4	668.4	2,833.6	0.0	6.4	0.0	1.1	-14.4	7,408.6
1973	125.9	4,746.2	78.0	7.8	313.1	148.2	49.4	690.5	30.4	890.1	187.1	723.1	3,117.7	0.0	14.3	0.0	1.0	7.7	8,012.8
1974	133.1	4,584.0	81.0	8.1	324.6	144.9	43.1	658.7	29.1	881.8	226.1	736.6	3,134.0	0.0	13.4	0.0	1.0	-0.5	7,865.1
1975	**196.2**	**4,046.9**	**54.1**	**6.6**	**318.7**	**152.7**	**40.8**	**584.2**	**26.2**	**922.1**	**242.3**	**718.8**	**3,066.4**	**0.0**	**16.5**	**0.0**	**0.9**	**-18.7**	**7,308.2**
1976	226.3	4,074.7	44.8	6.4	339.7	143.3	30.3	595.4	29.1	980.8	278.5	869.3	3,317.7	0.0	8.6	0.0	1.0	-12.4	7,615.9
1977	288.2	4,254.9	36.1	6.9	435.3	149.3	38.6	597.0	32.4	1,024.4	337.8	1,007.6	3,665.3	0.0	11.7	0.0	1.0	-21.9	8,199.2
1978	418.4	4,329.8	47.4	6.5	471.6	156.5	46.3	605.5	34.8	1,061.1	382.7	1,073.3	3,885.6	0.0	7.8	0.0	1.0	-22.8	8,619.8
1979	587.6	4,131.4	62.2	5.9	518.5	164.0	100.2	670.6	36.4	1,029.5	453.1	1,187.8	4,228.2	0.0	12.2	0.0	0.9	-46.8	8,913.4
1980	**734.1**	**4,226.1**	**72.4**	**6.4**	**422.4**	**173.3**	**87.1**	**697.3**	**32.4**	**950.8**	**409.1**	**1,239.9**	**4,091.0**	**0.0**	**4.1**	**0.0**	**0.8**	**-68.5**	**8,987.7**
1981	858.5	4,052.3	52.6	6.6	528.2	173.4	60.9	744.3	31.1	972.7	423.2	968.6	3,961.5	0.0	8.9	0.0	0.8	-72.3	8,809.8
1982	931.1	3,503.0	52.1	4.6	527.3	240.7	57.4	706.0	28.3	1,001.6	377.0	810.9	3,805.9	0.0	10.7	0.0	0.6	-40.1	8,211.1
1983	1,016.8	3,335.5	77.8	3.8	564.8	266.0	80.9	710.0	29.7	1,024.4	271.6	800.0	3,829.1	0.0	12.1	0.0	0.8	8.7	8,203.0
1984	1,074.9	3,556.2	71.2	4.9	566.4	364.3	77.8	838.4	31.6	1,033.6	301.7	841.1	4,131.0	0.0	11.1	0.0	1.1	57.5	8,831.8
1985	**1,149.0**	**3,514.4**	**78.4**	**6.6**	**548.3**	**420.5**	**41.3**	**796.5**	**29.5**	**1,078.8**	**264.4**	**814.7**	**4,079.0**	**0.0**	**14.4**	**0.0**	**3.1**	**100.7**	**8.860.6**
1986	1,182.7	3,312.5	90.5	7.8	503.0	453.0	51.7	789.9	28.8	1,100.6	216.1	824.2	4,065.7	0.0	20.1	0.0	3.2	131.9	8,696.6
1987	1,203.9	3,435.4	83.6	5.8	514.6	477.6	52.4	931.8	32.6	1,076.1	229.8	854.6	4,259.0	0.0	21.7	0.0	2.4	158.8	9,081.3
1988	1,264.1	3,665.2	95.8	5.1	503.3	535.5	24.0	962.6	31.4	1,097.6	204.1	933.7	4,393.2	40.7	12.3	0.0	0.0	143.5	9,519.0
1989	1,326.1	3,762.9	64.2	4.1	512.3	526.9	40.7	1,020.8	32.2	1,068.6	211.6	925.8	4,407.2	107.1	14.3	0.0	2.0	70.1	9,689.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 274. Residential Energy Consumption Estimates, 1960-1989, Texas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**6**	**0**	**6**	**172**	**96**	**6**	**10,083**	**10,185**	**11,316**	**28,146**
1961	4	0	4	166	51	3	10,105	10,159	11,622	28,327
1962	4	0	4	196	68	4	10,186	10,257	14,155	34,030
1963	3	0	3	198	69	5	10,475	10,549	16,137	38,592
1964	2	0	2	193	66	7	12,727	12,799	17,229	41,032
1965	**2**	**0**	**2**	**183**	**71**	**7**	**13,052**	**13,131**	**18,745**	**44,755**
1966	2	0	2	196	73	19	11,872	11,963	20,305	48,722
1967	2	0	2	201	63	18	12,140	12,220	22,521	53,803
1968	1	0	1	212	72	31	13,984	14,087	25,265	60,280
1969	1	0	1	221	114	33	16,538	16,685	30,211	72,165
1970	**1**	**0**	**1**	**232**	**134**	**33**	**15,397**	**15,565**	**32,591**	**78,980**
1971	*	0	*	237	149	28	14,800	14,978	35,980	86,986
1972	*	0	*	241	227	33	15,351	15,611	40,998	98,684
1973	*	0	*	241	252	48	14,008	14,308	42,632	102,063
1974	*	0	*	223	264	40	12,434	12,738	43,527	106,130
1975	**0**	**0**	**0**	**232**	**270**	**39**	**11,419**	**11,728**	**40,892**	**98,636**
1976	0	0	0	236	328	27	11,685	12,039	41,171	99,173
1977	1	0	1	270	561	35	10,779	11,375	46,831	113,083
1978	0	0	0	275	626	39	11,963	12,628	51,105	125,028
1979	0	0	0	316	724	94	6,131	6,948	50,383	121,591
1980	*	**0**	*	**225**	**8**	**198**	**6,131**	**6,337**	**57,178**	**139,037**
1981	2	0	2	209	7	114	6,245	6,366	57,621	137,326
1982	2	1	3	221	29	356	4,729	5,114	60,733	145,871
1983	0	0	0	214	344	112	5,624	6,081	60,326	144,529
1984	0	0	0	230	338	457	6,405	7,201	68,363	156,749
1985	**2**	**0**	**2**	**213**	**39**	**1,054**	**8,277**	**9,370**	**71,740**	**168,230**
1986	5	0	5	195	21	619	7,045	7,685	72,392	165,978
1987	10	0	10	211	82	937	7,427	8,446	74,369	169,489
1988	17	0	17	210	32	1,060	7,010	8,102	77,255	174,465
1989	4	1	5	230	13	502	8,518	9,033	79,620	178,593

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**38.6**	**257.4**	**96.0**	**353.4**
1961	39.7	252.6	96.7	349.2
1962	48.3	292.9	116.1	409.0
1963	55.1	303.1	131.7	434.8
1964	58.8	309.8	140.0	449.8
1965	**64.0**	**306.1**	**152.7**	**458.8**
1966	69.3	322.3	166.2	488.5
1967	76.8	334.2	183.6	517.8
1968	86.2	360.0	205.7	565.7
1969	103.1	396.0	246.2	642.2
1970	**111.2**	**408.8**	**269.5**	**678.3**
1971	122.8	423.4	296.8	720.2
1972	139.9	446.8	336.7	783.5
1973	145.5	448.4	348.2	796.6
1974	148.5	426.3	362.1	788.4
1975	**139.5**	**422.9**	**336.5**	**759.5**
1976	140.5	428.3	338.4	766.7
1977	159.8	480.3	385.8	866.1
1978	174.4	504.0	426.6	930.6
1979	171.9	524.4	414.9	939.3
1980	**195.1**	**450.5**	**474.4**	**924.9**
1981	196.6	436.0	468.6	904.6
1982	207.2	454.9	497.7	952.6
1983	205.8	450.1	493.1	943.3
1984	233.3	500.3	541.7	1,041.9
1985	**244.8**	**501.8**	**574.0**	**1,075.9**
1986	247.0	479.3	566.3	1,045.6
1987	253.7	506.6	578.3	1,084.9
1988	263.6	514.2	595.3	1,109.4
1989	271.7	545.3	609.4	1,154.6

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Trillion Btu									
1960	**0.1**	**0.0**	**0.1**	**177.7**	**0.6**	*	**40.4**	**41.0**	**38.6**	**257.4**	**96.0**	**353.4**
1961	0.1	0.0	0.1	172.0	0.3	*	40.5	40.8	39.7	252.6	96.7	349.2
1962	0.1	0.0	0.1	203.3	0.4	*	40.9	41.3	48.3	292.9	116.1	409.0
1963	*	0.0	*	205.6	0.4	*	42.0	42.4	55.1	303.1	131.7	434.8
1964	*	0.0	*	199.5	0.4	*	51.0	51.5	58.8	309.8	140.0	449.8
1965	*	**0.0**	*	**189.3**	**0.4**	*	**52.4**	**52.8**	**64.0**	**306.1**	**152.7**	**458.8**
1966	*	0.0	*	204.8	0.4	0.1	47.6	48.1	69.3	322.3	166.2	488.5
1967	*	0.0	*	210.3	0.4	0.1	46.6	47.1	76.8	334.2	183.6	517.8
1968	*	0.0	*	219.8	0.4	0.2	53.4	54.0	86.2	360.0	205.7	565.7
1969	*	0.0	*	229.1	0.7	0.2	62.9	63.8	103.1	396.0	246.2	642.2
1970	*	**0.0**	*	**238.5**	**0.8**	**0.2**	**58.2**	**59.2**	**111.2**	**408.8**	**269.5**	**678.3**
1971	*	0.0	*	243.8	0.9	0.2	55.8	56.9	122.8	423.4	296.8	720.2
1972	*	0.0	*	247.7	1.3	0.2	57.7	59.2	139.9	446.8	336.7	783.5
1973	*	0.0	*	248.7	1.5	0.3	52.5	54.2	145.5	448.4	348.2	796.6
1974	*	0.0	*	229.7	1.5	0.2	46.4	48.1	148.5	426.3	362.1	788.4
1975	**0.0**	**0.0**	**0.0**	**239.2**	**1.6**	**0.2**	**42.4**	**44.2**	**139.5**	**422.9**	**336.5**	**759.5**
1976	0.0	0.0	0.0	242.4	1.9	0.2	43.4	45.4	140.5	428.3	338.4	766.7
1977	*	0.0	*	277.4	3.3	0.2	39.6	43.1	159.8	480.3	385.8	866.1
1978	0.0	0.0	0.0	281.8	3.6	0.2	43.9	47.8	174.4	504.0	426.6	930.6
1979	0.0	0.0	0.0	325.2	4.2	0.5	22.6	27.3	171.9	524.4	414.9	939.3
1980	*	**0.0**	*	**231.7**	*	**1.1**	**22.5**	**23.7**	**195.1**	**450.5**	**474.4**	**924.9**
1981	*	0.0	*	216.0	*	0.6	22.8	23.4	196.6	436.0	468.6	904.6
1982	*	*	0.1	228.3	0.2	2.0	17.1	19.3	207.2	454.9	497.7	952.6
1983	0.0	0.0	0.0	221.3	2.0	0.6	20.3	23.0	205.8	450.1	493.1	943.3
1984	0.0	0.0	0.0	239.4	2.0	2.6	23.1	27.6	233.3	500.3	541.7	1,041.9
1985	**0.1**	**0.0**	**0.1**	**221.0**	**0.2**	**6.0**	**29.8**	**36.0**	**244.8**	**501.8**	**574.0**	**1,075.9**
1986	0.1	0.0	0.1	202.9	0.1	3.5	25.6	29.3	247.0	479.3	566.3	1,045.6
1987	0.2	0.0	0.2	219.6	0.5	5.3	27.2	33.0	253.7	506.6	578.3	1,084.9
1988	0.4	0.0	0.4	218.4	0.2	6.0	25.6	31.8	263.6	514.2	595.3	1,109.4
1989	0.1	*	0.1	239.2	0.1	2.8	31.4	34.3	271.7	545.3	609.4	1,154.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 275. Commercial Energy Consumption Estimates, 1960-1989, Texas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours	
1960	**11**	**0**	**11**	**60**	**595**	**656**	**1,779**	**663**	**191**	**3,884**	**9,800**	**24,377**
1961	7	0	7	62	318	283	1,783	659	295	3,338	10,527	25,656
1962	7	0	7	68	419	400	1,798	678	267	3,561	11,466	27,565
1963	5	0	5	75	425	530	1,849	664	296	3,764	12,737	30,461
1964	5	0	5	81	406	728	2,246	654	206	4,240	13,636	32,476
1965	**4**	**0**	**4**	**81**	**440**	**788**	**2,303**	**711**	**64**	**4,307**	**14,804**	**35,347**
1966	5	0	5	88	449	2,020	2,095	696	47	5,307	15,948	38,266
1967	4	0	4	140	390	1,909	2,142	649	55	5,145	17,425	41,629
1968	2	0	2	139	444	3,382	2,468	748	66	7,107	18,804	44,864
1969	1	0	1	141	704	3,533	2,918	731	77	7,964	20,934	50,004
1970	**1**	**0**	**1**	**146**	**830**	**3,603**	**2,717**	**692**	**78**	**7,920**	**22,869**	**55,420**
1971	1	0	1	142	922	3,027	2,612	614	68	7,243	25,329	61,236
1972	1	0	1	141	1,401	3,531	2,709	610	178	8,429	28,305	68,131
1973	1	0	1	155	1,556	5,228	2,472	628	323	10,206	30,102	72,065
1974	1	0	1	134	1,630	4,380	2,194	689	534	9,428	30,788	75,068
1975	**0**	**0**	**0**	**117**	**1,669**	**4,192**	**2,015**	**687**	**677**	**9,240**	**33,884**	**81,733**
1976	0	0	0	135	2,024	2,872	2,062	1,588	615	9,161	35,110	84,575
1977	2	0	2	159	3,465	3,771	1,902	994	670	10,802	37,882	91,475
1978	0	0	0	169	3,862	4,237	2,111	802	743	11,756	40,482	99,039
1979	0	0	0	234	4,467	10,172	1,082	1,162	1,057	17,940	40,934	98,787
1980	**1**	**0**	**1**	**169**	**2,842**	**3,251**	**1,082**	**3,299**	**2,569**	**13,043**	**44,062**	**107,144**
1981	3	0	3	157	3,740	6,808	1,102	781	2,525	14,956	47,253	112,616
1982	4	*	4	189	4,880	1,298	835	870	1,816	9,698	49,337	118,499
1983	0	0	0	157	8,952	11,780	993	2,430	1,018	25,172	51,228	122,733
1984	0	0	0	166	8,791	10,033	1,130	1,747	1,477	23,179	57,151	132,714
1985	**5**	**0**	**5**	**152**	**9,582**	**2,348**	**1,461**	**1,954**	**849**	**16,194**	**60,150**	**141,052**
1986	9	0	9	147	5,412	2,380	1,243	2,087	1,803	12,926	61,350	140,661
1987	19	0	19	157	8,188	1,295	1,311	2,291	5,382	18,466	62,459	142,346
1988	31	0	31	175	5,586	751	1,237	2,444	4,339	14,357	65,511	147,944
1989	8	*	8	184	3,894	4,137	1,503	2,332	3,966	15,832	67,426	151,241

Year	Electricity	Net Energy[4]	Total[4]
	Trillion Btu		
1960	**0.2**	**0.0**	**0.2**	**61.8**	**3.5**	**3.7**	**7.1**	**3.5**	**1.2**	**19.0**	**33.4**	**114.4**	**83.2**	**197.6**
1961	0.1	0.0	0.1	64.5	1.9	1.6	7.2	3.5	1.9	15.9	35.9	116.5	87.5	204.0
1962	0.1	0.0	0.1	70.2	2.4	2.3	7.2	3.6	1.7	17.2	39.1	126.6	94.1	220.7
1963	0.1	0.0	0.1	77.7	2.5	3.0	7.4	3.5	1.9	18.2	43.5	139.5	103.9	243.5
1964	0.1	0.0	0.1	84.0	2.4	4.1	9.0	3.4	1.3	20.2	46.5	150.9	110.8	261.7
1965	**0.1**	**0.0**	**0.1**	**83.6**	**2.6**	**4.5**	**9.2**	**3.7**	**0.4**	**20.4**	**50.5**	**154.6**	**120.6**	**275.2**
1966	0.1	0.0	0.1	92.3	2.6	11.5	8.4	3.7	0.3	26.4	54.4	173.2	130.6	303.7
1967	0.1	0.0	0.1	145.9	2.3	10.8	8.2	3.4	0.3	25.1	59.5	230.5	142.0	372.5
1968	*	0.0	*	144.7	2.6	19.2	9.4	3.9	0.4	35.5	64.2	244.4	153.1	397.5
1969	*	0.0	*	146.2	4.1	20.0	11.1	3.8	0.5	39.6	71.4	257.2	170.6	427.8
1970	*****	**0.0**	*****	**150.0**	**4.8**	**20.4**	**10.3**	**3.6**	**0.5**	**39.7**	**78.0**	**267.7**	**189.1**	**456.8**
1971	*	0.0	*	146.3	5.4	17.2	9.9	3.2	0.4	36.0	86.4	268.7	208.9	477.7
1972	*	0.0	*	145.2	8.2	20.0	10.2	3.2	1.1	42.7	96.6	284.5	232.5	517.0
1973	*	0.0	*	159.7	9.1	29.6	9.3	3.3	2.0	53.3	102.7	315.7	245.9	561.6
1974	*	0.0	*	138.7	9.5	24.8	8.2	3.6	3.4	49.5	105.0	293.2	256.1	549.4
1975	**0.0**	**0.0**	**0.0**	**120.2**	**9.7**	**23.8**	**7.5**	**3.6**	**4.3**	**48.8**	**115.6**	**284.7**	**278.9**	**563.5**
1976	0.0	0.0	0.0	139.3	11.8	16.3	7.7	8.3	3.9	47.9	119.8	307.1	288.6	595.6
1977	*	0.0	*	163.1	20.2	21.4	7.0	5.2	4.2	58.0	129.3	350.3	312.1	662.4
1978	0.0	0.0	0.0	173.2	22.5	24.0	7.7	4.2	4.7	63.2	138.1	374.5	337.9	712.4
1979	0.0	0.0	0.0	240.7	26.0	57.7	4.0	6.1	6.6	100.4	139.7	480.8	337.1	817.8
1980	*****	**0.0**	*****	**173.7**	**16.6**	**18.4**	**4.0**	**17.3**	**16.2**	**72.4**	**150.3**	**396.5**	**365.6**	**762.1**
1981	0.1	0.0	0.1	162.4	21.8	38.6	4.0	4.1	15.9	84.4	161.2	408.1	384.2	792.3
1982	0.1	*	0.1	195.4	28.4	7.4	3.0	4.6	11.4	54.8	168.3	418.6	404.3	822.9
1983	0.0	0.0	0.0	162.5	52.1	66.8	3.6	12.8	6.4	141.7	174.8	479.0	418.8	897.7
1984	0.0	0.0	0.0	172.2	51.2	56.9	4.1	9.2	9.3	130.6	195.0	497.9	452.8	950.7
1985	**0.1**	**0.0**	**0.1**	**157.7**	**55.8**	**13.3**	**5.3**	**10.3**	**5.3**	**90.0**	**205.2**	**453.0**	**481.3**	**934.3**
1986	0.2	0.0	0.2	153.2	31.5	13.5	4.5	11.0	11.3	71.8	209.3	434.6	479.9	914.6
1987	0.4	0.0	0.4	163.1	47.7	7.3	4.8	12.0	33.8	105.7	213.1	482.4	485.7	968.1
1988	0.7	0.0	0.7	182.4	32.5	4.3	4.5	12.8	27.3	81.4	223.5	488.1	504.8	992.9
1989	0.2	*	0.2	191.5	22.7	23.5	5.5	12.3	24.9	88.9	230.1	510.6	516.0	1,026.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 276. Industrial Energy Consumption Estimates, 1960–1989, Texas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**1,024**	**8**	**1,031**	**2,029**	**6,284**	**10,118**	**2,729**	**59,411**	**1,712**	**3,798**	**4,615**	**55,559**	**144,227**	**0**	**14,602**	**36,320**
1961	753	7	760	2,025	7,279	7,729	1,074	61,869	1,666	3,408	6,012	58,601	147,638	0	15,280	37,242
1962	806	6	812	2,042	7,539	9,341	1,054	67,688	2,321	3,114	5,614	61,153	157,824	0	17,221	41,401
1963	750	7	757	2,043	7,147	8,596	1,573	72,484	2,320	2,998	5,541	74,333	174,993	0	19,091	45,655
1964	1,031	8	1,039	1,997	7,361	8,590	2,952	83,333	2,437	2,720	4,778	79,379	191,550	0	21,139	50,343
1965	**1,129**	**7**	**1,136**	**2,098**	**7,811**	**8,519**	**2,663**	**89,166**	**1,974**	**2,563**	**1,879**	**80,179**	**194,753**	**0**	**23,685**	**56,550**
1966	1,069	6	1,075	2,209	8,456	8,189	5,424	92,057	2,050	2,203	1,909	84,315	204,603	0	27,278	65,454
1967	908	6	914	2,298	8,974	7,080	5,097	94,436	2,066	1,954	1,946	88,921	210,474	0	29,842	71,292
1968	968	5	973	2,409	9,276	4,841	3,552	106,934	2,270	1,916	1,952	94,922	225,663	0	33,599	80,164
1969	933	4	937	2,456	9,968	8,100	3,896	125,045	2,534	1,626	2,253	99,009	252,431	0	37,752	90,178
1970	**1,147**	**4**	**1,150**	**2,557**	**11,885**	**8,947**	**3,863**	**127,521**	**2,581**	**1,410**	**2,297**	**100,071**	**258,575**	**0**	**40,274**	**97,598**
1971	906	3	909	2,718	11,479	9,559	2,666	130,585	2,646	1,507	1,934	105,559	265,936	0	42,309	102,287
1972	919	2	921	2,642	11,379	13,748	3,721	153,699	2,834	1,222	3,304	114,989	304,896	0	46,267	111,365
1973	3,149	2	3,151	2,854	11,751	15,857	3,433	161,835	3,199	1,184	7,603	124,258	329,119	0	49,788	119,195
1974	3,275	2	3,276	2,678	12,212	15,158	3,176	156,665	3,063	1,144	9,040	126,929	327,387	0	51,615	125,851
1975	**3,718**	**2**	**3,720**	**2,160**	**8,150**	**15,301**	**2,965**	**138,844**	**2,583**	**997**	**11,070**	**123,569**	**303,478**	**5**	**54,712**	**131,973**
1976	3,627	3	3,630	2,154	6,749	17,351	2,441	141,578	2,870	1,215	13,081	150,284	335,569	5	60,264	145,165
1977	3,157	2	3,159	2,159	5,440	27,081	3,005	144,264	3,428	951	15,703	173,875	373,748	5	68,279	164,873
1978	3,647	2	3,649	2,202	7,145	29,646	3,881	145,944	3,682	721	16,830	185,097	392,946	0	72,234	176,720
1979	4,472	1	4,473	1,974	9,366	34,141	7,404	174,241	3,853	878	17,557	207,508	454,948	0	76,419	184,424
1980	**3,248**	**2**	**3,250**	**2,163**	**10,906**	**20,250**	**11,906**	**181,940**	**3,431**	**470**	**16,029**	**218,058**	**462,991**	**0**	**78,190**	**190,131**
1981	5,215	2	5,217	2,080	7,923	28,539	3,823	195,601	3,290	750	28,370	170,008	438,304	0	79,905	190,436
1982	4,669	1	4,670	1,595	7,855	27,280	8,474	188,544	3,000	637	26,848	141,674	404,311	0	76,055	182,671
1983	4,193	1	4,194	1,573	11,721	32,172	2,385	188,409	3,141	535	14,395	137,570	390,327	0	79,629	190,773
1984	5,495	0	5,495	1,663	10,729	31,595	3,229	224,679	3,350	2,250	20,883	148,099	444,814	0	82,742	192,141
1985	**5,191**	**1**	**5,192**	**1,732**	**11,808**	**27,327**	**3,878**	**210,756**	**3,122**	**4,703**	**20,086**	**142,203**	**423,882**	**0**	**81,235**	**190,496**
1986	4,487	1	4,488	1,655	13,645	27,484	6,124	208,063	3,052	4,542	12,253	143,021	418,185	0	79,527	182,337
1987	4,082	1	4,084	1,805	12,601	26,272	7,017	245,473	3,451	4,214	13,503	149,720	462,251	0	79,238	180,584
1988	3,708	0	3,708	1,994	14,434	27,628	2,428	254,865	3,328	4,129	8,311	163,139	478,262	0	81,579	184,231
1989	4,275	0	4,275	2,080	9,682	25,161	2,534	266,679	3,413	4,514	6,753	162,516	481,253	0	82,615	185,312

Year	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Trillion Btu				
1960	**0.0**	**49.8**	**2,920.1**	**123.9**	**3,044.0**
1961	0.0	52.1	2,929.1	127.1	3,056.2
1962	0.0	58.8	3,005.1	141.3	3,146.3
1963	0.0	65.1	3,102.3	155.8	3,258.1
1964	0.0	72.1	3,136.5	171.8	3,308.3
1965	**0.0**	**80.8**	**3,268.2**	**192.9**	**3,461.1**
1966	0.0	93.1	3,457.9	223.3	3,681.2
1967	0.0	101.8	3,569.4	243.2	3,812.6
1968	0.0	114.6	3,746.5	273.5	4,020.0
1969	0.0	128.8	3,929.3	307.7	4,236.9
1970	**0.0**	**137.4**	**4,049.6**	**333.0**	**4,382.6**
1971	0.0	144.4	4,248.2	349.0	4,597.3
1972	0.0	157.9	4,367.9	380.0	4,747.8
1973	0.0	169.9	4,762.0	406.7	5,168.7
1974	0.0	176.1	4,588.9	429.4	5,018.3
1975	**0.1**	**186.7**	**3,973.4**	**450.3**	**4,423.7**
1976	0.1	205.6	4,144.6	495.3	4,639.9
1977	0.1	233.0	4,380.8	562.5	4,943.3
1978	0.0	246.5	4,548.3	603.0	5,151.2
1979	0.0	260.7	4,646.5	629.3	5,275.8
1980	**0.0**	**266.8**	**4,850.0**	**648.7**	**5,498.8**
1981	0.0	272.6	4,637.2	649.8	5,287.0
1982	0.0	259.5	3,929.7	623.3	4,553.0
1983	0.0	271.7	3,832.9	650.9	4,483.8
1984	0.0	282.3	4,191.1	655.6	4,846.7
1985	**0.0**	**277.2**	**4,165.4**	**650.0**	**4,815.4**
1986	0.0	271.3	4,055.9	622.1	4,678.0
1987	0.0	270.4	4,371.2	616.2	4,987.4
1988	0.0	278.3	4,633.8	628.6	5,262.4
1989	0.0	281.9	4,726.3	632.3	5,358.6

[1] Includes supplemental gaseous fuels.

[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.

[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 277. Transportation Energy Consumption Estimates, 1960-1989, Texas

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**18**	**52**	**3,261**	**13,571**	**10,842**	**2,024**	**1,780**	**87,381**	**17,736**	**136,595**	**8**	**21**		
1961	3	63	2,855	13,784	11,801	2,192	1,733	90,265	15,471	138,102	8	20		
1962	3	61	3,883	14,202	14,045	2,261	1,789	93,979	12,752	142,912	7	17		
1963	3	66	3,654	14,919	14,650	2,433	1,788	97,692	11,755	146,891	6	15		
1964	4	66	3,370	14,967	15,498	3,142	1,878	100,801	12,442	152,099	5	12		
1965	**4**	**68**	**3,457**	**15,810**	**15,365**	**4,588**	**1,814**	**104,577**	**12,346**	**157,957**	**4**	**9**		
1966	3	68	3,012	14,122	17,646	4,851	1,884	110,564	11,902	163,981	0	0		
1967	2	72	2,671	15,017	21,162	4,815	1,659	115,177	12,062	172,564	0	0		
1968	2	85	2,223	17,658	24,253	5,450	1,822	124,375	11,869	187,650	0	0		
1969	2	86	2,187	20,721	25,101	5,678	1,593	131,667	12,058	199,005	0	0		
1970	**2**	**96**	**2,007**	**22,454**	**24,430**	**5,587**	**1,623**	**139,292**	**11,667**	**207,059**	**0**	**0**		
1971	1	99	1,998	24,245	25,067	6,366	1,627	146,499	9,832	215,634	0	0		
1972	1	104	1,565	30,563	25,910	6,535	1,742	157,410	9,629	233,354	0	0		
1973	2	105	1,554	36,010	26,533	6,007	1,817	167,639	15,604	255,165	0	0		
1974	2	94	1,603	38,271	25,955	5,299	1,740	166,032	21,280	260,181	0	0		
1975	**1**	**82**	**1,312**	**37,391**	**27,308**	**4,969**	**1,738**	**173,854**	**25,049**	**271,622**	**0**	**0**		
1976	*	72	1,270	38,487	25,641	5,124	1,931	183,900	26,877	283,230	0	0		
1977	*	67	1,361	43,360	26,704	5,416	1,908	193,072	32,529	304,351	0	0		
1978	0	75	1,279	46,671	27,954	5,007	2,049	200,468	36,548	319,977	0	0		
1979	0	78	1,176	49,369	29,263	782	2,144	193,944	49,031	325,708	0	0		
1980	**0**	**105**	**1,264**	**48,286**	**30,934**	**649**	**1,909**	**177,228**	**45,812**	**306,082**	**0**	**0**		
1981	0	102	1,301	57,479	30,922	1,373	1,831	183,644	35,827	312,378	0	0		
1982	0	103	903	57,045	42,809	1,197	1,670	189,156	30,391	323,171	0	0		
1983	0	106	762	53,712	47,270	1,421	1,748	192,055	25,716	322,685	0	0		
1984	0	108	963	55,883	64,626	752	1,864	192,758	25,303	342,149	0	0		
1985	**0**	**92**	**1,317**	**56,398**	**74,500**	**570**	**1,738**	**198,713**	**20,243**	**353,480**	**0**	**0**		
1986	0	82	1,539	52,964	80,214	662	1,699	202,888	19,946	359,913	0	0		
1987	0	81	1,150	53,300	84,562	438	1,921	198,359	17,097	356,827	0	0		
1988	0	108	1,013	52,508	94,793	473	1,852	202,382	19,085	372,105	0	0		
1989	0	107	820	56,560	93,265	472	1,900	196,575	20,997	370,589	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**0.3**	**54.1**	**16.5**	**79.1**	**58.6**	**8.1**	**10.8**	**459.0**	**111.5**	**743.5**	*	**798.0**	**0.1**	**798.0**
1961	0.1	65.0	14.4	80.3	63.9	8.8	10.5	474.2	97.3	749.4	*	814.5	0.1	814.5
1962	0.1	63.4	19.6	82.7	76.4	9.1	10.8	493.7	80.2	772.5	*	836.0	0.1	836.0
1963	*	68.0	18.4	86.9	79.8	9.8	10.8	513.2	73.9	792.8	*	860.9	0.1	861.0
1964	0.1	68.4	17.0	87.2	84.5	12.6	11.4	529.5	78.2	820.4	*	889.0	*	889.0
1965	**0.1**	**70.0**	**17.5**	**92.1**	**84.3**	**18.4**	**11.0**	**549.3**	**77.6**	**850.3**	*	**920.4**	*	**920.4**
1966	0.1	70.5	15.2	82.3	97.2	19.5	11.4	580.8	74.8	881.1	0.0	951.7	0.0	951.7
1967	*	75.5	13.5	87.5	116.8	18.5	10.1	605.0	75.8	927.2	0.0	1,002.8	0.0	1,002.8
1968	*	88.3	11.2	102.9	133.9	20.8	11.1	653.3	74.6	1,007.8	0.0	1,096.2	0.0	1,096.2
1969	*	89.6	11.0	120.7	139.2	21.6	9.7	691.6	75.8	1,069.7	0.0	1,159.3	0.0	1,159.3
1970	*	**98.8**	**10.1**	**130.8**	**135.9**	**21.1**	**9.8**	**731.7**	**73.3**	**1,112.9**	**0.0**	**1,211.7**	**0.0**	**1,211.7**
1971	*	101.8	10.1	141.2	139.4	24.0	9.9	769.6	61.8	1,156.0	0.0	1,257.8	0.0	1,257.8
1972	*	107.4	7.9	178.0	144.4	24.6	10.6	826.9	60.5	1,252.9	0.0	1,360.3	0.0	1,360.3
1973	*	107.7	7.8	209.8	148.2	22.5	11.0	880.6	98.1	1,378.0	0.0	1,485.8	0.0	1,485.8
1974	*	96.8	8.1	222.9	144.9	19.8	10.6	872.2	133.8	1,412.2	0.0	1,509.0	0.0	1,509.0
1975	*	**84.6**	**6.6**	**217.8**	**152.7**	**18.5**	**10.5**	**913.3**	**157.5**	**1,476.8**	**0.0**	**1,561.4**	**0.0**	**1,561.4**
1976	*	74.0	6.4	224.2	143.3	19.0	11.7	966.0	169.0	1,539.6	0.0	1,613.7	0.0	1,613.7
1977	*	68.4	6.9	252.6	149.3	19.9	11.6	1,014.2	204.5	1,658.9	0.0	1,727.3	0.0	1,727.3
1978	0.0	77.1	6.5	271.9	156.5	18.4	12.4	1,053.1	229.8	1,748.5	0.0	1,825.6	0.0	1,825.6
1979	0.0	80.2	5.9	287.6	164.0	2.9	13.0	1,018.8	308.3	1,800.4	0.0	1,880.6	0.0	1,880.6
1980	**0.0**	**108.1**	**6.4**	**281.3**	**173.3**	**2.4**	**11.6**	**931.0**	**288.0**	**1,693.9**	**0.0**	**1,801.9**	**0.0**	**1,801.9**
1981	0.0	105.1	6.6	334.8	173.4	5.0	11.1	964.7	225.2	1,720.8	0.0	1,826.0	0.0	1,826.0
1982	0.0	106.0	4.6	332.3	240.7	4.3	10.1	993.6	191.1	1,776.7	0.0	1,882.6	0.0	1,882.6
1983	0.0	109.2	3.8	312.9	266.0	5.1	10.6	1,008.9	161.7	1,769.0	0.0	1,878.2	0.0	1,878.2
1984	0.0	112.2	4.9	325.5	364.3	2.7	11.3	1,012.6	159.1	1,880.4	0.0	1,992.5	0.0	1,992.5
1985	**0.0**	**95.6**	**6.6**	**328.5**	**420.5**	**2.1**	**10.5**	**1,043.8**	**127.3**	**1,939.4**	**0.0**	**2,035.1**	**0.0**	**2,035.1**
1986	0.0	85.2	7.8	308.5	453.0	2.4	10.3	1,065.8	125.4	1,973.2	0.0	2,058.4	0.0	2,058.4
1987	0.0	84.4	5.8	310.5	477.6	1.6	11.6	1,042.0	107.5	1,956.6	0.0	2,041.0	0.0	2,041.0
1988	0.0	111.8	5.1	305.9	535.5	1.7	11.2	1,063.1	120.0	2,042.5	0.0	2,154.4	0.0	2,154.4
1989	0.0	111.4	4.1	329.5	526.9	1.7	11.5	1,032.6	132.0	2,038.4	0.0	2,149.8	0.0	2,149.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 278. Estimates of Energy Input at Electric Utilities, 1960–1989, Texas

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**407**	**43**	**18**	**0**	**61**	**0**	**927**	**0**	**0**	
1961	0	0	0	420	40	17	0	57	0	1,130	0	0	
1962	0	0	0	492	73	31	0	105	0	695	0	0	
1963	0	0	0	554	61	26	0	86	0	308	0	0	
1964	0	0	0	606	36	15	0	51	0	325	0	0	
1965	**0**	**0**	**0**	**640**	**33**	**14**	**0**	**47**	**0**	**661**	**0**	**87**	
1966	0	0	0	702	44	19	0	63	0	697	0	92	
1967	0	0	0	774	35	15	0	49	0	481	0	94	
1968	0	0	0	852	49	21	0	70	0	1,226	0	101	
1969	0	0	0	973	65	28	0	93	0	1,139	0	100	
1970	**0**	**0**	**0**	**1,062**	**104**	**45**	**0**	**149**	**0**	**883**	**0**	**97**	
1971	9	0	9	1,168	292	50	0	343	0	718	0	95	
1972	1,851	0	1,851	1,285	1,749	81	0	1,830	0	615	0	101	
1973	4,731	0	4,731	1,266	6,224	77	0	6,301	0	1,381	0	101	
1974	5,196	0	5,196	1,335	5,114	397	0	5,512	0	1,281	0	95	
1975	**9,044**	**0**	**9,044**	**1,353**	**1,740**	**75**	**0**	**1,815**	**0**	**1,579**	**0**	**89**	
1976	12,351	0	12,351	1,379	3,732	133	0	3,864	0	821	0	98	
1977	16,510	0	16,510	1,489	4,823	261	0	5,084	0	1,112	0	96	
1978	25,110	0	25,110	1,491	6,753	159	0	6,913	0	748	0	96	
1979	34,936	0	34,936	1,400	4,431	311	0	4,742	0	1,174	0	85	
1980	**45,351**	**0**	**45,351**	**1,430**	**660**	**1,126**	**0**	**1,786**	**0**	**398**	**0**	**79**	
1981	51,142	0	51,142	1,378	587	914	0	1,500	0	856	0	75	
1982	56,540	0	56,540	1,286	914	1,290	0	2,204	0	1,022	0	61	
1983	64,007	0	64,007	1,191	2,069	1,781	0	3,850	0	1,153	0	75	
1984	66,957	0	66,957	1,265	324	631	0	955	0	1,075	0	110	
1985	**71,616**	**0**	**71,616**	**1,196**	**881**	**775**	**0**	**1,657**	**0**	**1,397**	**0**	**300**	
1986	74,757	0	74,757	1,107	373	473	0	847	0	1,962	0	308	
1987	78,802	0	78,802	1,050	570	503	0	1,073	0	2,118	0	233	
1988	82,889	0	82,889	1,044	730	654	0	1,384	3,792	1,203	0	0	
1989	86,701	0	86,701	1,024	1,937	2,318	0	4,255	9,990	1,383	0	190	
					Trillion Btu								
1960	**0.0**	**0.0**	**0.0**	**421.6**	**0.3**	**0.1**	**0.0**	**0.4**	**0.0**	**10.0**	**0.0**	**0.0**	**431.9**
1961	0.0	0.0	0.0	434.8	0.2	0.1	0.0	0.3	0.0	12.0	0.0	0.0	447.2
1962	0.0	0.0	0.0	509.4	0.5	0.2	0.0	0.6	0.0	7.3	0.0	0.0	517.4
1963	0.0	0.0	0.0	574.6	0.4	0.2	0.0	0.5	0.0	3.2	0.0	0.0	578.4
1964	0.0	0.0	0.0	625.6	0.2	0.1	0.0	0.3	0.0	3.4	0.0	0.0	629.3
1965	**0.0**	**0.0**	**0.0**	**663.2**	**0.2**	**0.1**	**0.0**	**0.3**	**0.0**	**6.9**	**0.0**	**0.9**	**671.3**
1966	0.0	0.0	0.0	732.3	0.3	0.1	0.0	0.4	0.0	7.3	0.0	1.0	740.9
1967	0.0	0.0	0.0	808.2	0.2	0.1	0.0	0.3	0.0	5.0	0.0	1.0	814.5
1968	0.0	0.0	0.0	884.0	0.3	0.1	0.0	0.4	0.0	12.7	0.0	1.1	898.2
1969	0.0	0.0	0.0	1,010.4	0.4	0.2	0.0	0.6	0.0	11.9	0.0	1.0	1,023.9
1970	**0.0**	**0.0**	**0.0**	**1,090.3**	**0.7**	**0.3**	**0.0**	**0.9**	**0.0**	**9.3**	**0.0**	**1.0**	**1,101.5**
1971	0.1	0.0	0.1	1,199.5	1.8	0.3	0.0	2.1	0.0	7.5	0.0	1.0	1,210.3
1972	25.9	0.0	25.9	1,313.0	11.0	0.5	0.0	11.5	0.0	6.4	0.0	1.1	1,357.9
1973	66.2	0.0	66.2	1,290.0	39.1	0.4	0.0	39.6	0.0	14.3	0.0	1.0	1,411.2
1974	72.7	0.0	72.7	1,356.2	32.2	2.3	0.0	34.5	0.0	13.4	0.0	1.0	1,477.8
1975	**118.5**	**0.0**	**118.5**	**1,379.0**	**10.9**	**0.4**	**0.0**	**11.4**	**0.0**	**16.4**	**0.0**	**0.9**	**1,526.3**
1976	163.4	0.0	163.4	1,403.3	23.5	0.8	0.0	24.2	0.0	8.5	0.0	1.0	1,600.6
1977	232.4	0.0	232.4	1,527.5	30.3	1.5	0.0	31.8	0.0	11.6	0.0	1.0	1,804.4
1978	357.2	0.0	357.2	1,539.9	42.5	0.9	0.0	43.4	0.0	7.8	0.0	1.0	1,949.2
1979	504.0	0.0	504.0	1,453.6	27.9	1.8	0.0	29.7	0.0	12.2	0.0	0.9	2,000.3
1980	**670.8**	**0.0**	**670.8**	**1,482.9**	**4.2**	**6.6**	**0.0**	**10.7**	**0.0**	**4.1**	**0.0**	**0.8**	**2,169.4**
1981	767.0	0.0	767.0	1,419.6	3.7	5.3	0.0	9.0	0.0	8.9	0.0	0.8	2,205.3
1982	847.2	0.0	847.2	1,328.7	5.7	7.5	0.0	13.3	0.0	10.7	0.0	0.6	2,200.5
1983	950.9	0.0	950.9	1,219.2	13.0	10.4	0.0	23.4	0.0	12.1	0.0	0.8	2,206.4
1984	981.8	0.0	981.8	1,303.3	2.0	3.7	0.0	5.7	0.0	11.1	0.0	1.1	2,303.1
1985	**1,063.4**	**0.0**	**1,063.4**	**1,240.7**	**5.5**	**4.5**	**0.0**	**10.1**	**0.0**	**14.4**	**0.0**	**3.1**	**2,331.7**
1986	1,090.2	0.0	1,090.2	1,145.6	2.3	2.8	0.0	5.1	0.0	20.1	0.0	3.2	2,264.1
1987	1,141.4	0.0	1,141.4	1,086.5	3.6	2.9	0.0	6.5	0.0	21.7	0.0	2.4	2,258.5
1988	1,210.8	0.0	1,210.8	1,078.4	4.6	3.8	0.0	8.4	40.7	12.3	0.0	0.0	2,350.6
1989	1,263.5	0.0	1,263.5	1,058.6	12.2	13.5	0.0	25.7	107.1	14.3	0.0	2.0	2,471.2

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 279. Energy Consumption Estimates by Source, 1960–1989, Utah

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**3,451**	**70**	**813**	**595**	**3,775**	**1,003**	**36**	**452**	**214**	**7,813**	**5,715**	**1,820**	**22,235**	**0**	**304**	**0**	**0**	**2,036**	
1961	3,110	76	687	715	3,040	1,172	212	538	208	8,052	5,783	1,775	22,182	0	231	0	0	2,484	
1962	2,497	85	903	532	3,568	1,311	330	511	210	8,455	6,107	1,873	23,801	0	393	0	0	4,105	
1963	2,375	96	801	529	3,581	1,237	384	521	210	8,736	5,872	1,953	23,825	0	352	0	0	5,577	
1964	2,690	107	791	391	3,749	1,302	564	599	221	8,751	5,519	1,982	23,869	0	765	0	0	5,179	
1965	**2,857**	**108**	**838**	**383**	**4,193**	**1,244**	**474**	**677**	**251**	**9,001**	**5,662**	**2,046**	**24,769**	**0**	**913**	**0**	**0**	**3,082**	
1966	3,003	104	1,209	370	4,778	1,426	626	595	261	9,554	5,928	2,078	26,824	0	791	0	0	3,387	
1967	2,754	105	1,072	312	4,604	1,564	547	836	221	9,819	5,497	2,014	26,485	0	1,074	0	0	3,209	
1968	2,803	110	1,021	251	4,737	1,987	650	928	243	10,712	5,657	2,081	28,267	0	1,017	0	0	4,673	
1969	2,988	120	1,209	223	4,995	1,999	436	959	251	11,476	6,129	2,183	29,861	0	1,117	0	0	6,581	
1970	**3,025**	**122**	**1,576**	**178**	**5,107**	**1,808**	**250**	**939**	**256**	**12,308**	**4,656**	**2,163**	**29,241**	**0**	**741**	**0**	**0**	**8,216**	
1971	3,047	121	1,399	168	6,522	1,947	301	1,010	247	12,958	5,076	2,078	31,707	0	984	0	0	8,829	
1972	3,024	124	1,804	179	6,403	1,963	378	1,223	265	14,052	4,494	2,209	32,969	0	1,223	0	0	9,610	
1973	3,886	123	1,419	172	8,028	1,889	361	1,080	305	14,614	3,638	2,416	33,921	0	1,111	0	0	11,121	
1974	4,263	121	1,571	187	8,906	1,864	198	1,096	292	14,439	4,222	2,626	35,401	0	941	0	0	11,456	
1975	**4,636**	**124**	**1,219**	**161**	**9,165**	**1,903**	**146**	**1,169**	**232**	**15,063**	**4,603**	**2,702**	**36,362**	**0**	**1,074**	**0**	**0**	**8,635**	
1976	4,117	146	1,661	161	8,484	1,828	112	1,219	257	15,741	4,768	2,703	36,933	0	1,130	0	0	14,111	
1977	5,429	106	1,823	174	8,797	2,034	113	928	299	16,509	4,543	2,727	37,948	0	757	0	0	8,612	
1978	5,954	119	1,699	164	9,168	2,164	112	841	321	17,478	4,122	2,822	38,890	0	734	0	0	7,439	
1979	7,104	126	1,903	147	9,610	2,302	158	1,658	336	16,480	3,187	2,838	38,619	0	802	0	0	2,468	
1980	**7,106**	**115**	**1,477**	**139**	**8,401**	**2,637**	**102**	**1,301**	**299**	**15,534**	**3,495**	**2,729**	**36,113**	**0**	**821**	**0**	**0**	**-278**	
1981	7,432	102	927	140	7,098	2,424	155	1,546	287	15,548	1,022	1,762	30,910	0	623	0	0	4,032	
1982	6,787	118	933	76	6,438	2,801	192	1,523	262	15,793	855	1,844	30,715	0	1,024	0	0	4,610	
1983	6,873	110	820	103	6,387	3,284	58	1,577	274	15,954	1,600	2,364	32,421	0	1,394	0	0	5,019	
1984	7,905	116	1,340	78	6,894	3,413	49	1,493	292	16,151	1,645	2,417	33,771	0	1,391	38	0	-639	
1985	**8,303**	**115**	**1,576**	**94**	**5,941**	**3,808**	**36**	**1,610**	**272**	**16,236**	**1,899**	**2,231**	**33,703**	**0**	**1,019**	**110**	**0**	**-4,132**	
1986	8,112	105	1,295	110	7,312	4,335	20	1,546	266	17,541	1,496	2,123	36,045	0	1,413	172	0	-8,342	
1987	11,806	99	1,429	99	6,768	4,969	23	1,622	301	17,582	2,167	2,379	37,339	0	893	164	0	-36,286	
1988	14,513	109	1,069	112	7,328	4,977	21	1,408	290	18,172	1,292	2,747	37,417	0	593	174	0	-40,315	
1989	15,044	114	1,671	106	6,179	5,095	5	1,464	298	17,303	1,842	2,879	36,842	0	562	173	0	-40,525	
			Trillion Btu																
1960	**91.0**	**72.4**	**5.4**	**3.0**	**22.0**	**5.4**	**0.2**	**1.8**	**1.3**	**41.0**	**35.9**	**10.9**	**127.0**	**0.0**	**3.3**	**0.0**	**0.0**	**6.9**	**300.7**
1961	82.0	79.2	4.6	3.6	17.7	6.3	1.2	2.2	1.3	42.3	36.4	10.7	126.2	0.0	2.5	0.0	0.0	8.5	298.2
1962	65.6	87.9	6.0	2.7	20.8	7.1	1.9	2.0	1.3	44.4	38.4	11.3	135.8	0.0	4.1	0.0	0.0	14.0	307.5
1963	62.4	88.5	5.3	2.7	20.9	6.7	2.2	2.1	1.3	45.9	36.9	11.7	135.6	0.0	3.7	0.0	0.0	19.0	309.2
1964	71.0	99.1	5.2	2.0	21.8	7.0	3.2	2.4	1.3	46.0	34.7	11.9	135.6	0.0	8.0	0.0	0.0	17.7	331.4
1965	**75.5**	**99.8**	**5.6**	**1.9**	**24.4**	**6.8**	**2.7**	**2.7**	**1.5**	**47.3**	**35.6**	**12.3**	**140.8**	**0.0**	**9.5**	**0.0**	**0.0**	**10.5**	**336.1**
1966	79.1	95.7	8.0	1.9	27.8	7.8	3.5	2.4	1.6	50.2	37.3	12.5	153.0	0.0	8.2	0.0	0.0	11.6	347.6
1967	72.4	97.1	7.1	1.6	26.8	8.5	3.1	3.2	1.3	51.6	34.6	12.1	149.9	0.0	11.2	0.0	0.0	11.0	341.6
1968	73.9	101.6	6.8	1.3	27.6	10.9	3.7	3.5	1.5	56.3	35.6	12.5	159.6	0.0	10.6	0.0	0.0	15.9	361.6
1969	78.4	110.9	8.0	1.1	29.1	11.0	2.5	3.7	1.5	60.3	38.5	13.1	168.8	0.0	11.7	0.0	0.0	22.5	392.3
1970	**78.8**	**114.4**	**10.5**	**0.9**	**29.8**	**10.0**	**1.4**	**3.5**	**1.6**	**64.7**	**29.3**	**13.0**	**164.5**	**0.0**	**7.8**	**0.0**	**0.0**	**28.0**	**393.5**
1971	78.7	113.9	9.3	0.8	38.0	10.8	1.7	3.8	1.5	68.1	31.9	12.5	178.4	0.0	10.3	0.0	0.0	30.1	411.4
1972	77.6	116.4	12.0	0.9	37.3	10.9	2.1	4.6	1.6	73.8	28.3	13.3	184.7	0.0	12.7	0.0	0.0	32.8	424.2
1973	98.8	116.3	9.4	0.9	46.8	10.5	2.0	4.0	1.9	76.8	22.9	14.5	189.6	0.0	11.5	0.0	0.0	37.9	454.3
1974	107.6	115.2	10.4	0.9	51.9	10.3	1.1	4.1	1.8	75.8	26.5	15.8	198.7	0.0	9.8	0.0	0.0	39.1	470.5
1975	**115.7**	**118.0**	**8.1**	**0.8**	**53.4**	**10.6**	**0.8**	**4.3**	**1.4**	**79.1**	**28.9**	**16.2**	**203.7**	**0.0**	**11.2**	**0.0**	**0.0**	**29.5**	**478.1**
1976	101.8	138.6	11.0	0.8	49.4	10.2	0.6	4.5	1.6	82.7	30.0	16.2	207.0	0.0	11.7	0.0	0.0	48.1	507.2
1977	132.8	101.0	12.1	0.9	51.2	11.3	0.6	3.4	1.8	86.7	28.6	16.4	213.0	0.0	7.9	0.0	0.0	29.4	484.2
1978	143.9	113.3	11.3	0.8	53.4	12.1	0.6	3.1	1.9	91.8	25.9	16.9	217.9	0.0	7.6	0.0	0.0	25.4	508.1
1979	170.9	121.0	12.6	0.7	56.0	12.8	0.9	6.1	2.0	86.6	20.0	17.0	214.8	0.0	8.3	0.0	0.0	8.4	523.4
1980	**168.3**	**125.0**	**9.8**	**0.7**	**48.9**	**14.6**	**0.6**	**4.8**	**1.8**	**81.6**	**22.0**	**16.4**	**201.2**	**0.0**	**8.5**	**0.0**	**0.0**	**-0.9**	**502.0**
1981	175.7	109.7	6.2	0.7	41.3	13.5	0.9	5.6	1.7	81.7	6.4	11.0	169.0	0.0	6.5	0.0	0.0	13.8	474.7
1982	159.6	110.5	6.2	0.4	37.5	15.6	1.1	5.5	1.6	83.0	5.4	11.4	167.6	0.0	10.7	0.0	0.0	15.7	464.1
1983	160.2	118.4	5.4	0.5	37.2	18.3	0.3	5.7	1.7	83.8	10.1	14.4	177.4	0.0	14.7	0.0	0.0	17.1	487.9
1984	185.6	124.2	8.9	0.4	40.2	19.0	0.3	5.4	1.8	84.8	10.3	14.6	185.7	0.0	14.4	0.8	0.0	-2.2	508.6
1985	**199.4**	**123.8**	**10.5**	**0.5**	**34.6**	**21.3**	**0.2**	**5.8**	**1.7**	**85.3**	**11.9**	**13.7**	**185.4**	**0.0**	**10.5**	**2.3**	**0.0**	**-14.1**	**507.3**
1986	189.0	99.7	8.6	0.6	42.6	24.3	0.1	5.6	1.6	92.1	9.4	13.3	198.2	0.0	14.5	3.6	0.0	[illegible]	[illegible]
1987	275.6	100.5	9.5	0.5	39.4	27.9	0.1	5.9	1.8	92.4	13.6	14.6	205.8	0.0	9.2	3.5	0.0	-123.8	475.3
1988	338.0	117.8	7.1	0.6	42.7	28.0	0.1	5.1	1.8	95.5	8.1	16.7	205.6	0.0	6.1	3.7	0.0	-137.6	533.5
1989	345.5	123.4	11.1	0.5	36.0	28.6	*	5.4	1.8	90.9	11.6	17.3	203.3	0.0	5.8	3.7	0.0	-138.3	543.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 280. Residential Energy Consumption Estimates, 1960–1989, Utah

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**87**	**0**	**87**	**23**	**100**	**1**	**249**	**349**	**1,012**	**2,518**		
1961	85	0	85	25	93	10	328	431	1,071	2,611		
1962	96	0	96	28	78	16	306	400	1,125	2,704		
1963	80	0	80	29	87	18	331	436	1,228	2,936		
1964	71	0	71	33	94	26	397	517	1,331	3,170		
1965	**63**	**0**	**63**	**31**	**98**	**20**	**505**	**624**	**1,243**	**2,969**		
1966	65	0	65	36	97	23	450	570	1,306	3,134		
1967	63	0	63	39	133	12	553	698	1,373	3,279		
1968	42	0	42	41	135	12	685	832	1,465	3,496		
1969	56	0	56	44	150	11	695	857	1,569	3,748		
1970	**38**	**0**	**38**	**45**	**143**	**6**	**694**	**844**	**1,688**	**4,091**		
1971	84	0	84	50	223	9	743	974	1,879	4,544		
1972	56	0	56	49	233	10	839	1,082	2,023	4,870		
1973	70	0	70	49	303	9	705	1,017	2,271	5,437		
1974	124	0	124	50	323	5	657	985	2,525	6,158		
1975	**46**	**0**	**46**	**60**	**357**	**4**	**564**	**925**	**2,493**	**6,013**		
1976	73	0	73	66	337	3	593	933	2,672	6,437		
1977	99	0	99	36	337	3	462	803	2,761	6,667		
1978	98	0	98	48	339	3	475	817	2,900	7,095		
1979	190	0	190	60	234	8	319	561	3,209	7,744		
1980	**83**	**0**	**83**	**58**	**112**	**0**	**349**	**460**	**3,116**	**7,577**		
1981	69	0	69	55	73	26	384	483	3,436	8,190		
1982	62	0	62	46	125	46	430	600	3,785	9,091		
1983	67	0	67	55	164	40	526	730	3,804	9,115		
1984	91	0	91	55	167	34	714	916	3,856	8,955		
1985	**88**	**0**	**88**	**59**	**74**	**11**	**696**	**781**	**3,985**	**9,344**		
1986	67	0	67	58	75	4	641	720	3,989	9,145		
1987	43	0	43	42	101	7	635	743	3,980	9,070		
1988	69	0	69	42	131	5	616	753	4,151	9,375		
1989	81	0	81	45	183	3	450	635	4,163	9,337		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**2.3**	**0.0**	**2.3**	**23.4**	**0.6**	*****	**1.0**	**1.6**	**3.5**	**30.7**	**8.6**	**39.3**
1961	2.2	0.0	2.2	25.6	0.5	0.1	1.3	1.9	3.7	33.3	8.9	42.2
1962	2.5	0.0	2.5	29.0	0.5	0.1	1.2	1.8	3.8	37.1	9.2	46.4
1963	2.1	0.0	2.1	27.0	0.5	0.1	1.3	1.9	4.2	35.2	10.0	45.2
1964	1.8	0.0	1.8	30.3	0.5	0.1	1.6	2.3	4.5	39.0	10.8	49.8
1965	**1.6**	**0.0**	**1.6**	**28.4**	**0.6**	**0.1**	**2.0**	**2.7**	**4.2**	**37.0**	**10.1**	**47.1**
1966	1.7	0.0	1.7	33.3	0.6	0.1	1.8	2.5	4.5	41.9	10.7	52.6
1967	1.6	0.0	1.6	36.0	0.8	0.1	2.1	3.0	4.7	45.2	11.2	56.4
1968	1.1	0.0	1.1	37.7	0.8	0.1	2.6	3.5	5.0	47.3	11.9	59.2
1969	1.4	0.0	1.4	40.7	0.9	0.1	2.6	3.6	5.4	51.0	12.8	63.8
1970	**1.0**	**0.0**	**1.0**	**41.9**	**0.8**	*****	**2.6**	**3.5**	**5.8**	**52.1**	**14.0**	**66.0**
1971	2.1	0.0	2.1	46.8	1.3	0.1	2.8	4.1	6.4	59.4	15.5	74.9
1972	1.4	0.0	1.4	45.8	1.4	0.1	3.2	4.6	6.9	58.7	16.6	75.3
1973	1.7	0.0	1.7	46.0	1.8	0.1	2.6	4.5	7.7	59.9	18.6	78.5
1974	3.0	0.0	3.0	47.9	1.9	*	2.4	4.4	8.6	63.9	21.0	84.9
1975	**1.1**	**0.0**	**1.1**	**56.8**	**2.1**	*****	**2.1**	**4.2**	**8.5**	**70.6**	**20.5**	**91.1**
1976	1.6	0.0	1.6	63.0	2.0	*	2.2	4.2	9.1	77.9	22.0	99.8
1977	2.3	0.0	2.3	33.8	2.0	*	1.7	3.7	9.4	49.2	22.7	71.9
1978	2.3	0.0	2.3	45.7	2.0	*	1.7	3.7	9.9	61.6	24.2	85.8
1979	4.4	0.0	4.4	58.0	1.4	*	1.2	2.6	10.9	76.0	26.4	102.4
1980	**1.9**	**0.0**	**1.9**	**62.9**	**0.6**	**0.0**	**1.3**	**1.9**	**10.6**	**77.4**	**25.9**	**103.3**
1981	1.6	0.0	1.6	59.0	0.4	0.1	1.4	2.0	11.7	74.3	27.9	102.3
1982	1.4	0.0	1.4	43.2	0.7	0.3	1.6	2.5	12.9	60.0	31.0	91.1
1983	1.5	0.0	1.5	59.1	1.0	0.2	1.9	3.1	13.0	76.7	31.1	107.8
1984	2.1	0.0	2.1	58.7	1.0	0.2	2.6	3.7	13.2	77.7	30.6	108.3
1985	**2.1**	**0.0**	**2.1**	**63.1**	**0.4**	**0.1**	**2.5**	**3.0**	**13.6**	**81.8**	**31.9**	**113.7**
1986	1.6	0.0	1.6	54.6	0.4	*	2.3	2.8	13.6	72.6	31.2	103.8
1987	1.0	0.0	1.0	44.9	0.6	*	2.3	3.0	13.6	62.4	30.9	93.4
1988	1.6	0.0	1.6	45.7	0.8	*	2.3	3.0	14.2	64.5	32.0	96.4
1989	1.8	0.0	1.8	49.1	1.1	*	1.7	2.7	14.2	67.9	31.9	99.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] *Incurred in the generation*, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 281. Commercial Energy Consumption Estimates, 1960-1989, Utah

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**162**	**0**	**162**	**10**	**362**	**6**	**44**	**281**	**656**	**1,349**	**640**	**1,592**		
1961	158	0	158	10	337	72	58	260	956	1,683	707	1,722		
1962	179	0	179	12	284	113	54	263	1,190	1,904	777	1,868		
1963	148	0	148	13	318	128	58	274	1,179	1,957	868	2,076		
1964	133	0	133	16	342	189	70	227	1,114	1,942	955	2,274		
1965	**118**	**0**	**118**	**16**	**356**	**148**	**89**	**234**	**1,072**	**1,899**	**1,128**	**2,693**		
1966	121	0	121	6	354	168	79	132	1,248	1,981	1,274	3,057		
1967	117	0	117	7	484	86	98	205	1,132	2,004	1,498	3,578		
1968	78	0	78	8	490	91	121	232	1,151	2,085	1,607	3,834		
1969	105	0	105	9	546	80	123	210	1,244	2,203	1,748	4,174		
1970	**71**	**0**	**71**	**10**	**521**	**46**	**122**	**202**	**795**	**1,687**	**1,890**	**4,579**		
1971	156	0	156	9	810	65	131	192	889	2,087	2,028	4,904		
1972	104	0	104	8	847	72	148	194	767	2,028	2,226	5,359		
1973	129	0	129	9	1,103	66	124	186	786	2,266	2,416	5,784		
1974	230	0	230	6	1,176	33	116	130	985	2,441	2,516	6,135		
1975	**85**	**0**	**85**	**6**	**1,300**	**28**	**99**	**210**	**1,098**	**2,736**	**2,479**	**5,981**		
1976	135	0	135	15	1,225	25	105	200	1,193	2,748	2,697	6,496		
1977	183	0	183	10	1,228	22	82	198	1,112	2,641	2,749	6,637		
1978	182	0	182	8	1,234	20	84	171	915	2,424	2,990	7,315		
1979	352	0	352	*	851	58	56	159	637	1,761	3,106	7,496		
1980	**154**	**0**	**154**	*	**1,028**	**34**	**62**	**81**	**1,051**	**2,255**	**3,141**	**7,638**		
1981	127	0	127	*	206	60	68	88	0	421	2,999	7,147		
1982	115	0	115	22	382	46	76	99	38	641	3,207	7,702		
1983	124	0	124	8	786	8	93	131	222	1,240	3,350	8,025		
1984	168	0	168	9	803	7	126	77	227	1,240	4,269	9,914		
1985	**164**	**0**	**164**	**9**	**541**	**21**	**123**	**88**	**209**	**981**	**4,596**	**10,777**		
1986	124	0	124	5	910	5	113	90	178	1,297	4,682	10,735		
1987	80	0	80	15	736	14	112	93	685	1,641	4,863	11,082		
1988	127	0	127	18	697	4	109	89	211	1,111	5,035	11,370		
1989	150	0	150	17	459	2	79	89	99	729	5,173	11,604		
							Trillion Btu							
1960	**4.2**	**0.0**	**4.2**	**10.5**	**2.1**	*	**0.2**	**1.5**	**4.1**	**7.9**	**2.2**	**24.8**	**5.4**	**30.2**
1961	4.1	0.0	4.1	10.5	2.0	0.4	0.2	1.4	6.0	10.0	2.4	27.0	5.9	32.9
1962	4.6	0.0	4.6	12.3	1.7	0.6	0.2	1.4	7.5	11.4	2.7	30.9	6.4	37.3
1963	3.8	0.0	3.8	12.1	1.9	0.7	0.2	1.4	7.4	11.7	3.0	30.6	7.1	37.7
1964	3.4	0.0	3.4	14.5	2.0	1.1	0.3	1.2	7.0	11.5	3.3	32.7	7.8	40.5
1965	**3.0**	**0.0**	**3.0**	**14.4**	**2.1**	**0.8**	**0.4**	**1.2**	**6.7**	**11.2**	**3.8**	**32.5**	**9.2**	**41.7**
1966	3.1	0.0	3.1	5.9	2.1	1.0	0.3	0.7	7.8	11.9	4.3	25.2	10.4	35.6
1967	3.0	0.0	3.0	6.4	2.8	0.5	0.4	1.1	7.1	11.9	5.1	26.4	12.2	38.6
1968	2.0	0.0	2.0	7.5	2.9	0.5	0.5	1.2	7.2	12.3	5.5	27.3	13.1	40.3
1969	2.7	0.0	2.7	8.7	3.2	0.5	0.5	1.1	7.8	13.0	6.0	30.4	14.2	44.6
1970	**1.8**	**0.0**	**1.8**	**9.5**	**3.0**	**0.3**	**0.5**	**1.1**	**5.0**	**9.8**	**6.4**	**27.6**	**15.6**	**43.2**
1971	3.9	0.0	3.9	8.0	4.7	0.4	0.5	1.0	5.6	12.2	6.9	30.9	16.7	47.7
1972	2.6	0.0	2.6	7.4	4.9	0.4	0.6	1.0	4.8	11.7	7.6	29.3	18.3	47.6
1973	3.2	0.0	3.2	8.5	6.4	0.4	0.5	1.0	4.9	13.2	8.2	33.1	19.7	52.9
1974	5.6	0.0	5.6	5.5	6.9	0.2	0.4	0.7	6.2	14.3	8.6	34.0	20.9	55.0
1975	**2.0**	**0.0**	**2.0**	**5.8**	**7.6**	**0.2**	**0.4**	**1.1**	**6.9**	**16.1**	**8.5**	**32.3**	**20.4**	**52.8**
1976	3.0	0.0	3.0	13.9	7.1	0.1	0.4	1.0	7.5	16.2	9.2	42.4	22.2	64.5
1977	4.2	0.0	4.2	9.2	7.2	0.1	0.3	1.0	7.0	15.6	9.4	38.4	22.6	61.0
1978	4.2	0.0	4.2	8.1	7.2	0.1	0.3	0.9	5.8	14.3	10.2	36.7	25.0	61.7
1979	8.2	0.0	8.2	*	5.0	0.3	0.2	0.8	4.0	10.3	10.6	29.2	25.6	54.7
1980	**3.6**	**0.0**	**3.6**	**0.4**	**6.0**	**0.2**	**0.2**	**0.4**	**6.6**	**13.4**	**10.7**	**28.1**	**26.1**	**54.1**
1981	2.9	0.0	2.9	0.4	1.2	0.3	0.2	0.5	0.0	2.2	10.2	15.8	24.4	40.2
1982	2.7	0.0	2.7	20.5	2.2	0.3	0.3	0.5	0.2	3.5	10.9	37.6	26.3	63.9
1983	2.9	0.0	2.9	8.6	4.6	*	0.3	0.7	1.4	7.0	11.4	29.9	27.4	57.3
1984	3.0	0.0	3.0	9.2	4.7	*	0.5	0.4	1.4	7.0	14.6	34.7	33.8	68.5
1985	**3.9**	**0.0**	**3.9**	**9.1**	**3.1**	**0.1**	**0.4**	**0.5**	**1.3**	**5.5**	**15.7**	**34.2**	**36.8**	**70.9**
1986	2.9	0.0	2.9	4.4	5.3	*	0.4	0.5	1.1	7.3	16.0	30.6	36.6	67.2
1987	1.9	0.0	1.9	16.0	4.3	0.1	0.4	0.5	4.3	9.6	16.6	44.0	37.8	81.9
1988	2.9	0.0	2.9	19.4	4.1	*	0.4	0.5	1.3	6.3	17.2	45.8	38.8	84.5
1989	3.4	0.0	3.4	18.0	2.7	*	0.3	0.5	0.6	4.1	17.7	43.1	39.6	82.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 282. Industrial Energy Consumption Estimates, 1960–1989, Utah

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**2,640**	**0**	**2,640**	**33**	**813**	**990**	**29**	**124**	**62**	**299**	**2,399**	**1,820**	**6,536**	*	**1,822**	**4,531**		
1961	2,293	0	2,293	37	687	1,024	130	117	60	269	2,583	1,775	6,646	*	1,960	4,776		
1962	1,752	0	1,752	40	903	1,101	201	116	80	270	3,087	1,873	7,630	2	2,028	4,874		
1963	1,693	0	1,693	48	801	1,089	238	102	80	284	2,973	1,953	7,521	2	2,111	5,049		
1964	2,068	0	2,068	55	791	1,196	349	110	84	226	2,775	1,982	7,514	3	1,993	4,748		
1965	**2,306**	**0**	**2,306**	**57**	**838**	**1,163**	**305**	**70**	**101**	**233**	**2,895**	**2,046**	**7,651**	**3**	**1,404**	**3,353**		
1966	2,370	0	2,370	53	1,209	1,082	435	57	105	227	3,168	2,078	8,361	3	1,523	3,654		
1967	2,158	0	2,158	52	1,072	1,119	449	143	84	268	2,879	2,014	8,029	3	1,283	3,065		
1968	2,262	0	2,262	55	1,021	1,358	547	110	92	297	2,994	2,081	8,500	3	1,358	3,240		
1969	2,447	0	2,447	63	1,209	1,490	345	133	93	270	3,197	2,183	8,920	3	1,616	3,861		
1970	**2,477**	**0**	**2,477**	**63**	**1,576**	**1,564**	**197**	**116**	**95**	**261**	**2,068**	**2,163**	**8,040**	**3**	**1,648**	**3,993**		
1971	2,386	0	2,386	60	1,399	2,186	227	131	85	252	2,281	2,078	8,639	3	1,643	3,971		
1972	2,290	0	2,290	63	1,804	2,251	296	227	91	258	2,436	2,209	9,572	3	1,843	4,435		
1973	2,701	0	2,701	60	1,419	2,859	285	242	107	247	2,484	2,416	10,058	0	2,219	5,313		
1974	2,611	0	2,611	60	1,571	3,141	160	313	102	168	3,061	2,626	11,142	0	2,159	5,263		
1975	**2,478**	**0**	**2,478**	**55**	**1,219**	**3,356**	**114**	**495**	**73**	**266**	**3,285**	**2,702**	**11,511**	**0**	**2,968**	**7,159**		
1976	2,642	0	2,642	62	1,661	2,979	83	505	82	255	3,416	2,703	11,684	0	2,578	6,209		
1977	2,635	0	2,635	55	1,823	3,297	88	371	106	259	3,090	2,727	11,761	0	3,299	7,965		
1978	2,525	0	2,525	54	1,699	3,333	89	266	114	222	2,954	2,822	11,498	0	3,858	9,439		
1979	2,410	0	2,410	59	1,903	3,086	92	1,273	119	209	2,302	2,838	11,820	0	4,100	9,895		
1980	**1,974**	**0**	**1,974**	**51**	**1,477**	**2,220**	**68**	**876**	**106**	**165**	**2,386**	**2,729**	**10,027**	**0**	**4,448**	**10,816**		
1981	2,281	0	2,281	43	927	2,269	69	1,038	101	167	1,002	1,762	7,335	0	5,451	12,990		
1982	1,663	0	1,663	46	933	2,093	100	932	93	181	816	1,844	6,991	0	5,399	12,969		
1983	1,456	0	1,456	45	820	1,825	10	853	97	199	1,088	2,364	7,257	0	6,040	14,470		
1984	1,934	0	1,934	51	1,340	1,864	8	551	103	151	1,113	2,417	7,548	0	4,592	10,664		
1985	**1,726**	**0**	**1,726**	**46**	**1,576**	**1,104**	**4**	**722**	**96**	**220**	**1,665**	**2,231**	**7,618**	**0**	**4,458**	**10,453**		
1986	1,165	0	1,165	42	1,295	1,942	12	730	94	211	1,312	2,123	7,719	0	4,318	9,901		
1987	507	0	507	42	1,429	1,535	2	825	106	203	1,482	2,379	7,961	0	4,555	10,380		
1988	1,773	0	1,773	47	1,069	1,917	12	629	103	209	1,080	2,747	7,767	0	5,321	12,016		
1989	1,864	0	1,864	50	1,671	1,543	1	890	105	195	1,741	2,879	9,024	0	5,629	12,626		
					Trillion Btu													
1960	**70.5**	**0.0**	**70.5**	**34.7**	**5.4**	**5.8**	**0.2**	**0.5**	**0.4**	**1.6**	**15.1**	**10.9**	**39.8**	*	**6.2**	**151.2**	**15.5**	**166.6**
1961	61.2	0.0	61.2	37.9	4.6	6.0	0.7	0.5	0.4	1.4	16.2	10.7	40.4	*	6.7	146.2	16.3	162.5
1962	46.7	0.0	46.7	41.0	6.0	6.4	1.1	0.5	0.5	1.4	19.4	11.3	46.6	*	6.9	141.3	16.6	157.9
1963	45.1	0.0	45.1	44.4	5.3	6.3	1.4	0.4	0.5	1.5	18.7	11.7	45.8	*	7.2	142.6	17.2	159.9
1964	55.1	0.0	55.1	50.3	5.2	7.0	2.0	0.4	0.5	1.2	17.4	11.9	45.7	*	6.8	158.0	16.2	174.2
1965	**61.5**	**0.0**	**61.5**	**52.3**	**5.6**	**6.8**	**1.7**	**0.3**	**0.6**	**1.2**	**18.2**	**12.3**	**46.7**	*	**4.8**	**165.3**	**11.4**	**176.7**
1966	63.1	0.0	63.1	48.6	8.0	6.3	2.5	0.2	0.6	1.2	19.9	12.5	51.2	*	5.2	168.1	12.5	180.6
1967	57.5	0.0	57.5	47.7	7.1	6.5	2.5	0.6	0.5	1.4	18.1	12.1	48.8	*	4.4	158.4	10.5	168.9
1968	60.2	0.0	60.2	51.1	6.8	7.9	3.1	0.4	0.6	1.6	18.8	12.5	51.6	*	4.6	167.6	11.1	178.6
1969	64.8	0.0	64.8	58.0	8.0	8.7	2.0	0.5	0.6	1.4	20.1	13.1	54.4	*	5.5	182.7	13.2	195.9
1970	**65.2**	**0.0**	**65.2**	**59.2**	**10.5**	**9.1**	**1.1**	**0.4**	**0.6**	**1.4**	**13.0**	**13.0**	**49.1**	*	**5.6**	**179.1**	**13.6**	**192.7**
1971	62.5	0.0	62.5	56.4	9.3	12.7	1.3	0.5	0.5	1.3	14.3	12.5	52.5	*	5.6	177.0	13.6	190.5
1972	59.7	0.0	59.7	58.8	12.0	13.1	1.7	0.9	0.6	1.4	15.3	13.3	58.1	*	6.3	182.9	15.1	198.1
1973	70.1	0.0	70.1	56.8	9.4	16.7	1.6	0.9	0.6	1.3	15.6	14.5	60.7	0.0	7.6	195.2	18.1	213.3
1974	68.1	0.0	68.1	57.4	10.4	18.3	0.9	1.2	0.6	0.9	19.2	15.8	67.3	0.0	7.4	200.2	18.0	218.2
1975	**64.7**	**0.0**	**64.7**	**52.3**	**8.1**	**19.6**	**0.6**	**1.8**	**0.4**	**1.4**	**20.7**	**16.2**	**68.8**	**0.0**	**10.1**	**196.0**	**24.4**	**220.4**
1976	67.7	0.0	67.7	58.7	11.0	17.4	0.5	1.9	0.5	1.3	21.5	16.2	70.2	0.0	8.8	205.4	21.2	226.6
1977	67.9	0.0	67.9	52.6	12.1	19.2	0.5	1.4	0.6	1.4	19.4	16.4	71.0	0.0	11.3	202.6	27.2	229.8
1978	64.2	0.0	64.2	51.4	11.3	19.4	0.5	1.0	0.7	1.2	18.6	16.9	69.5	0.0	13.2	198.3	32.2	230.5
1979	61.3	0.0	61.3	56.4	12.6	18.0	0.5	4.7	0.7	1.1	14.5	17.0	69.1	0.0	14.0	200.8	33.8	234.6
1980	**50.7**	**0.0**	**50.7**	**55.8**	**9.8**	**12.9**	**0.4**	**3.2**	**0.6**	**0.9**	**15.0**	**16.4**	**59.2**	**0.0**	**15.2**	**180.9**	**36.9**	**217.8**
1981	57.6	0.0	57.6	46.6	6.2	13.2	0.4	3.8	0.6	0.9	6.3	11.0	42.3	0.0	18.6	165.1	44.3	209.4
1982	41.2	0.0	41.2	43.0	6.2	12.2	0.6	3.4	0.6	1.0	5.1	11.4	40.4	0.0	18.4	143.0	44.2	187.3
1983	36.4	0.0	36.4	48.2	5.4	10.6	0.1	3.1	0.6	1.0	6.8	14.4	42.1	0.0	20.6	147.3	49.4	196.7
1984	49.1	0.0	49.1	54.9	8.9	10.9	*	2.0	0.6	0.8	7.0	14.6	44.8	0.0	15.7	164.5	36.4	200.9
1985	**44.1**	**0.0**	**44.1**	**49.9**	**10.5**	**6.4**	*	**2.6**	**0.6**	**1.2**	**10.5**	**13.7**	**45.5**	**0.0**	**15.2**	**154.7**	**35.7**	**190.4**
1986	29.3	0.0	29.3	39.4	8.6	11.3	0.1	2.7	0.6	1.1	8.2	13.3	45.8	0.0	14.7	129.2	33.8	163.0
1987	11.2	0.0	11.2	44.9	9.5	8.9	*	3.0	0.6	1.1	9.3	14.6	47.1	0.0	15.5	118.7	35.4	154.1
1988	45.2	0.0	45.2	51.1	7.1	11.2	0.1	2.3	0.6	1.1	6.8	16.7	45.8	0.0	18.2	160.2	41.0	201.2
1989	47.0	0.0	47.0	54.5	11.1	9.0	*	3.3	0.6	1.0	10.9	17.3	53.3	0.0	19.2	174.0	43.1	217.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 283. Transportation Energy Consumption Estimates, 1960–1989, Utah

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**46**	*	**595**	**2,312**	**1,003**	**35**	**152**	**7,232**	**370**	**11,698**	**0**	**0**		
1961	11	*	715	1,575	1,172	34	148	7,524	82	11,249	0	0		
1962	7	*	532	2,097	1,311	35	130	7,922	162	12,189	0	0		
1963	6	*	529	2,079	1,237	29	130	8,178	125	12,308	0	0		
1964	8	*	391	2,109	1,302	22	137	8,297	107	12,364	0	0		
1965	**8**	*	**383**	**2,569**	**1,244**	**12**	**151**	**8,534**	**98**	**12,991**	**0**	**0**		
1966	7	*	370	3,237	1,426	8	156	9,195	89	14,482	0	0		
1967	5	*	312	2,860	1,564	42	138	9,346	82	14,343	0	0		
1968	5	*	251	2,747	1,987	12	151	10,182	82	15,413	0	0		
1969	4	*	223	2,800	1,999	8	158	10,996	72	16,256	0	0		
1970	**4**	*	**178**	**2,870**	**1,808**	**6**	**161**	**11,845**	**25**	**16,893**	**0**	**0**		
1971	3	1	168	3,295	1,947	6	163	12,514	35	18,127	0	0		
1972	2	1	179	3,064	1,963	9	174	13,599	30	19,018	0	0		
1973	2	1	172	3,739	1,889	9	198	14,180	29	20,217	0	0		
1974	1	1	187	4,245	1,864	10	190	14,141	55	20,692	0	0		
1975	*	*	**161**	**4,141**	**1,903**	**11**	**158**	**14,586**	**68**	**21,028**	**0**	**0**		
1976	*	*	161	3,939	1,828	16	176	15,286	84	21,488	0	0		
1977	*	*	174	3,930	2,034	12	194	16,052	54	22,451	0	0		
1978	0	1	164	4,256	2,164	15	208	17,084	77	23,969	0	0		
1979	0	1	147	5,426	2,302	10	217	16,112	0	24,214	0	0		
1980	**0**	**1**	**139**	**4,974**	**2,637**	**14**	**194**	**15,288**	**0**	**23,245**	**0**	**0**		
1981	0	1	140	4,492	2,424	56	186	15,294	0	22,592	0	0		
1982	0	1	76	3,780	2,801	85	169	15,513	0	22,424	0	0		
1983	0	1	103	3,533	3,284	104	177	15,624	290	23,115	0	0		
1984	0	1	78	4,003	3,413	102	189	15,922	304	24,010	0	0		
1985	**0**	**1**	**94**	**4,168**	**3,808**	**69**	**176**	**15,929**	**0**	**24,243**	**0**	**0**		
1986	0	1	110	4,256	4,335	62	172	17,240	0	26,175	0	0		
1987	0	1	99	4,208	4,969	50	195	17,286	0	26,807	0	0		
1988	0	1	112	4,480	4,977	54	188	17,873	0	27,683	0	0		
1989	0	1	106	3,909	5,095	45	193	17,019	1	26,368	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	**1.2**	**0.1**	**3.0**	**13.5**	**5.4**	**0.1**	**0.9**	**38.0**	**2.3**	**63.2**	**0.0**	**64.5**	**0.0**	**64.5**
1961	0.3	0.2	3.6	9.2	6.3	0.1	0.9	39.5	0.5	60.2	0.0	60.6	0.0	60.6
1962	0.2	0.2	2.7	12.2	7.1	0.1	0.8	41.6	1.0	65.6	0.0	65.9	0.0	65.9
1963	0.2	0.2	2.7	12.1	6.7	0.1	0.8	43.0	0.8	66.1	0.0	66.5	0.0	66.5
1964	0.2	0.3	2.0	12.3	7.0	0.1	0.8	43.6	0.7	66.5	0.0	66.9	0.0	66.9
1965	**0.2**	**0.4**	**1.9**	**15.0**	**6.8**	*	**0.9**	**44.8**	**0.6**	**70.1**	**0.0**	**70.6**	**0.0**	**70.6**
1966	0.2	0.2	1.9	18.9	7.8	*	0.9	48.3	0.6	78.4	0.0	78.8	0.0	78.8
1967	0.1	0.2	1.6	16.7	8.5	0.2	0.8	49.1	0.5	77.4	0.0	77.7	0.0	77.7
1968	0.1	0.2	1.3	16.0	10.9	*	0.9	53.5	0.5	83.1	0.0	83.5	0.0	83.5
1969	0.1	0.2	1.1	16.3	11.0	*	1.0	57.8	0.5	87.7	0.0	88.0	0.0	88.0
1970	**0.1**	**0.5**	**0.9**	**16.7**	**10.0**	*	**1.0**	**62.2**	**0.2**	**91.0**	**0.0**	**91.5**	**0.0**	**91.5**
1971	0.1	0.5	0.8	19.2	10.8	*	1.0	65.7	0.2	97.8	0.0	98.4	0.0	98.4
1972	0.1	0.8	0.9	17.8	10.9	*	1.1	71.4	0.2	102.3	0.0	103.2	0.0	103.2
1973	*	0.6	0.9	21.8	10.5	*	1.2	74.5	0.2	109.0	0.0	109.7	0.0	109.7
1974	*	0.6	0.9	24.7	10.3	*	1.2	74.3	0.3	111.8	0.0	112.4	0.0	112.4
1975	*	**0.3**	**0.8**	**24.1**	**10.6**	*	**1.0**	**76.6**	**0.4**	**113.6**	**0.0**	**113.8**	**0.0**	**113.8**
1976	*	0.4	0.8	22.9	10.2	0.1	1.1	80.3	0.5	115.9	0.0	116.2	0.0	116.2
1977	*	0.4	0.9	22.9	11.3	*	1.2	84.3	0.3	121.0	0.0	121.4	0.0	121.4
1978	0.0	0.9	0.8	24.8	12.1	0.1	1.3	89.7	0.5	129.2	0.0	130.2	0.0	130.2
1979	0.0	0.5	0.7	31.6	12.8	*	1.3	84.6	0.0	131.1	0.0	131.6	0.0	131.6
1980	**0.0**	**0.9**	**0.7**	**29.0**	**14.6**	**0.1**	**1.2**	**80.3**	**0.0**	**125.8**	**0.0**	**126.8**	**0.0**	**126.8**
1981	0.0	0.8	0.7	26.2	13.5	0.2	1.1	80.3	0.0	122.0	0.0	122.8	0.0	122.8
1982	0.0	1.1	0.4	22.0	15.6	0.3	1.0	81.5	0.0	120.8	0.0	121.9	0.0	121.9
1983	0.0	1.3	0.5	20.6	18.3	0.4	1.1	82.1	1.8	124.8	0.0	126.1	0.0	126.1
1984	0.0	1.1	0.4	23.3	19.0	0.4	1.1	83.6	1.9	129.8	0.0	130.9	0.0	130.9
1985	**0.0**	**1.3**	**0.5**	**24.3**	**21.3**	**0.2**	**1.1**	**83.7**	**0.0**	**131.0**	**0.0**	**132.3**	**0.0**	**132.3**
1986	0.0	1.0	0.6	24.8	24.3	0.2	1.0	[illegible]	[illegible]	[illegible]	0.0	142.5	0.0	142.5
1987	0.0	0.9	0.5	24.5	27.9	0.2	1.2	90.8	0.0	145.1	0.0	146.0	0.0	146.0
1988	0.0	1.5	0.6	26.1	28.0	0.2	1.1	93.9	0.0	149.8	0.0	151.3	0.0	151.3
1989	0.0	1.1	0.5	22.8	28.6	0.2	1.2	89.4	*	142.7	0.0	143.8	0.0	143.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 284. Estimates of Energy Input at Electric Utilities, 1960-1989, Utah

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**515**	**0**	**515**	**4**	**2,291**	**12**	**0**	**2,302**	**0**	**304**	**0**	**0**	
1961	563	0	563	5	2,162	11	0	2,172	0	231	0	0	
1962	462	0	462	5	1,669	8	0	1,677	0	391	0	0	
1963	447	0	447	5	1,595	8	0	1,603	0	350	0	0	
1964	411	0	411	4	1,524	8	0	1,531	0	762	0	0	
1965	**363**	**0**	**363**	**5**	**1,597**	**8**	**0**	**1,605**	**0**	**910**	**0**	**0**	
1966	440	0	440	8	1,423	7	0	1,430	0	788	0	0	
1967	410	0	410	7	1,404	7	0	1,411	0	1,071	0	0	
1968	417	0	417	6	1,430	7	0	1,437	0	1,014	0	0	
1969	375	0	375	4	1,616	8	0	1,624	0	1,114	0	0	
1970	**435**	**0**	**435**	**4**	**1,768**	**9**	**0**	**1,777**	**0**	**738**	**0**	**0**	
1971	417	0	417	2	1,871	9	0	1,880	0	981	0	0	
1972	571	0	571	4	1,260	9	0	1,269	0	1,220	0	0	
1973	984	0	984	5	340	23	0	363	0	1,111	0	0	
1974	1,296	0	1,296	4	121	20	0	141	0	941	0	0	
1975	**2,026**	**0**	**2,026**	**3**	**152**	**10**	**0**	**162**	**0**	**1,074**	**0**	**0**	
1976	1,267	0	1,267	3	76	5	0	80	0	1,130	0	0	
1977	2,511	0	2,511	5	286	6	0	292	0	757	0	0	
1978	3,148	0	3,148	8	177	5	0	182	0	734	0	0	
1979	4,151	0	4,151	6	249	14	0	263	0	802	0	0	
1980	**4,895**	**0**	**4,895**	**5**	**58**	**67**	**0**	**126**	**0**	**821**	**0**	**0**	
1981	4,956	0	4,956	3	20	59	0	79	0	623	0	0	
1982	4,947	0	4,947	3	1	59	0	59	0	1,024	0	0	
1983	5,223	0	5,223	1	*	79	0	79	0	1,394	0	0	
1984	5,712	0	5,712	*	0	58	0	58	0	1,391	38	0	
1985	**6,325**	**0**	**6,325**	*	**25**	**55**	**0**	**80**	**0**	**1,019**	**110**	**0**	
1986	6,756	0	6,756	*	6	129	0	135	0	1,413	172	0	
1987	11,175	0	11,175	*	0	187	0	187	0	893	164	0	
1988	12,544	0	12,544	*	0	103	0	103	0	593	174	0	
1989	12,949	0	12,949	1	0	86	0	86	0	562	173	0	
					Trillion Btu								
1960	**12.8**	**0.0**	**12.8**	**3.8**	**14.4**	**0.1**	**0.0**	**14.5**	**0.0**	**3.3**	**0.0**	**0.0**	**34.4**
1961	14.2	0.0	14.2	5.1	13.6	0.1	0.0	13.7	0.0	2.5	0.0	0.0	35.4
1962	11.5	0.0	11.5	5.4	10.5	*	0.0	10.5	0.0	4.1	0.0	0.0	31.6
1963	11.2	0.0	11.2	4.7	10.0	*	0.0	10.1	0.0	3.7	0.0	0.0	29.6
1964	10.4	0.0	10.4	3.7	9.6	*	0.0	9.6	0.0	8.0	0.0	0.0	31.7
1965	**9.1**	**0.0**	**9.1**	**4.4**	**10.0**	*	**0.0**	**10.1**	**0.0**	**9.5**	**0.0**	**0.0**	**33.1**
1966	11.1	0.0	11.1	7.8	8.9	*	0.0	9.0	0.0	8.2	0.0	0.0	36.0
1967	10.2	0.0	10.2	6.8	8.8	*	0.0	8.9	0.0	11.2	0.0	0.0	37.1
1968	10.6	0.0	10.6	5.1	9.0	*	0.0	9.0	0.0	10.5	0.0	0.0	35.2
1969	9.4	0.0	9.4	3.3	10.2	*	0.0	10.2	0.0	11.6	0.0	0.0	34.6
1970	**10.8**	**0.0**	**10.8**	**3.3**	**11.1**	**0.1**	**0.0**	**11.2**	**0.0**	**7.7**	**0.0**	**0.0**	**33.0**
1971	10.3	0.0	10.3	2.3	11.8	0.1	0.0	11.8	0.0	10.3	0.0	0.0	34.6
1972	13.8	0.0	13.8	3.6	7.9	0.1	0.0	8.0	0.0	12.7	0.0	0.0	38.0
1973	23.8	0.0	23.8	4.5	2.1	0.1	0.0	2.3	0.0	11.5	0.0	0.0	42.0
1974	30.9	0.0	30.9	3.8	0.8	0.1	0.0	0.9	0.0	9.8	0.0	0.0	45.4
1975	**47.9**	**0.0**	**47.9**	**2.9**	**1.0**	**0.1**	**0.0**	**1.0**	**0.0**	**11.2**	**0.0**	**0.0**	**63.0**
1976	29.4	0.0	29.4	2.7	0.5	*	0.0	0.5	0.0	11.7	0.0	0.0	44.3
1977	58.5	0.0	58.5	5.0	1.8	*	0.0	1.8	0.0	7.9	0.0	0.0	73.2
1978	73.3	0.0	73.3	7.2	1.1	*	0.0	1.1	0.0	7.6	0.0	0.0	89.2
1979	97.0	0.0	97.0	6.0	1.6	0.1	0.0	1.6	0.0	8.3	0.0	0.0	112.9
1980	**112.1**	**0.0**	**112.1**	**4.9**	**0.4**	**0.4**	**0.0**	**0.8**	**0.0**	**6.5**	**0.0**	**0.0**	**126.3**
1981	113.6	0.0	113.6	2.9	0.1	0.3	0.0	0.5	0.0	6.5	0.0	0.0	123.4
1982	114.2	0.0	114.2	2.8	*	0.3	0.0	0.3	0.0	10.7	0.0	0.0	128.1
1983	119.4	0.0	119.4	1.2	*	0.5	0.0	0.5	0.0	14.7	0.0	0.0	135.7
1984	130.6	0.0	130.6	0.3	0.0	0.3	0.0	0.3	0.0	14.4	0.8	0.0	146.3
1985	**149.3**	**0.0**	**149.3**	**0.3**	**0.2**	**0.3**	**0.0**	**0.5**	**0.0**	**10.5**	**2.3**	**0.0**	**162.9**
1986	155.2	0.0	155.2	0.2	*	0.8	0.0	0.8	0.0	14.5	3.6	0.0	174.4
1987	259.7	0.0	259.7	0.3	0.0	1.1	0.0	1.1	0.0	9.2	3.5	0.0	273.7
1988	288.3	0.0	288.3	0.2	0.0	0.6	0.0	0.6	0.0	6.1	3.7	0.0	298.8
1989	293.2	0.0	293.2	0.7	0.0	0.5	0.0	0.5	0.0	5.8	3.7	0.0	303.9

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 285. Energy Consumption Estimates by Source, 1960–1989, Vermont

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					Trillion Btu
1960	**137**	**0**	**224**	**19**	**2,958**	**82**	**819**	**404**	**70**	**3,332**	**478**	**23**	**8,408**	**0**	**938**	**0**	**0**	**128**	
1961	150	0	234	15	3,329	83	1,022	427	68	3,365	514	23	9,080	0	838	0	0	444	
1962	117	0	234	28	3,626	89	899	420	66	3,447	597	21	9,425	0	805	0	0	1,041	
1963	130	0	204	30	3,795	99	744	352	66	3,547	567	20	9,423	0	715	0	0	1,313	
1964	107	0	157	24	3,628	94	570	476	69	3,577	367	19	8,980	0	711	0	0	1,697	
1965	**105**	**0**	**171**	**25**	**4,285**	**79**	**760**	**450**	**63**	**3,789**	**910**	**20**	**10,553**	**0**	**755**	**0**	**0**	**1,950**	
1966	86	1	324	24	4,807	93	643	485	65	4,041	982	11	11,475	0	860	0	0	2,278	
1967	81	1	295	21	4,940	117	804	468	59	4,310	431	11	11,455	0	834	0	0	3,525	
1968	74	2	331	17	5,212	127	898	582	65	4,546	397	13	12,187	0	820	0	0	4,070	
1969	81	2	280	15	5,480	120	698	587	65	4,725	572	13	12,554	0	930	0	0	4,692	
1970	**87**	**3**	**271**	**14**	**5,741**	**121**	**502**	**542**	**66**	**5,077**	**905**	**13**	**13,253**	**0**	**835**	**0**	**0**	**5,662**	
1971	79	3	295	12	5,391	112	502	590	57	5,331	916	0	13,207	0	810	0	0	6,757	
1972	56	4	122	11	5,674	255	503	699	61	5,677	944	0	13,946	169	1,026	0	0	6,686	
1973	59	4	109	12	6,047	219	427	685	60	5,763	870	0	14,192	1,598	1,113	0	0	2,033	
1974	60	5	99	8	5,071	204	376	703	58	5,626	526	0	12,671	2,483	1,068	0	0	-1,108	
1975	**31**	**4**	**28**	**11**	**4,642**	**177**	**317**	**833**	**56**	**5,698**	**796**	**0**	**12,557**	**3,561**	**1,013**	**0**	**0**	**-4,571**	
1976	24	4	27	9	5,470	142	373	946	62	6,013	1,250	0	14,292	3,260	1,158	0	0	-2,145	
1977	29	4	33	8	5,360	137	343	946	67	6,125	1,142	0	14,162	3,538	1,042	0	1	-3,364	
1978	19	4	18	6	5,280	134	326	1,199	72	6,309	979	0	14,322	3,241	982	0	11	-1,409	
1979	24	4	75	4	5,486	172	387	541	76	5,830	347	0	12,916	3,449	1,076	0	32	-1,661	
1980	**22**	**4**	**43**	**25**	**4,095**	**155**	**283**	**666**	**67**	**5,437**	**471**	**0**	**11,242**	**2,979**	**1,000**	**0**	**49**	**807**	
1981	42	4	49	16	3,819	82	212	626	64	5,506	348	0	10,724	3,569	1,187	0	26	-2,618	
1982	50	4	74	19	2,699	91	187	862	59	5,529	359	0	9,878	4,174	1,046	0	43	-4,114	
1983	46	4	63	25	3,439	106	258	866	62	5,579	318	0	10,717	2,870	1,203	0	50	152	
1984	55	5	226	17	3,721	173	150	674	66	5,821	309	0	11,157	3,336	1,188	0	178	-890	
1985	**80**	**5**	**330**	**22**	**4,193**	**201**	**261**	**806**	**61**	**5,811**	**85**	**0**	**11,769**	**2,999**	**1,243**	**0**	**280**	**-773**	
1986	26	5	419	27	3,974	133	193	882	60	5,966	298	8	11,957	2,058	2,715	0	85	-2,622	
1987	12	5	491	21	4,369	181	181	1,054	68	6,514	238	9	13,127	3,536	3,272	0	156	-7,948	
1988	11	6	396	17	4,670	143	210	1,199	65	6,806	174	7	13,687	4,114	3,700	0	100	-9,882	
1989	9	6	453	17	4,628	220	177	1,588	67	6,551	89	6	13,797	3,607	2,972	0	184	-5,948	
													Trillion Btu						
1960	**3.5**	**0.0**	**1.5**	**0.1**	**17.2**	**0.4**	**4.6**	**1.6**	**0.4**	**17.5**	**3.0**	**0.1**	**46.6**	**0.0**	**10.1**	**0.0**	**0.0**	**0.4**	**60.6**
1961	3.9	0.0	1.6	0.1	19.4	0.4	5.8	1.7	0.4	17.7	3.2	0.1	50.4	0.0	8.9	0.0	0.0	1.5	64.8
1962	3.0	0.0	1.6	0.1	21.1	0.5	5.1	1.7	0.4	18.1	3.8	0.1	52.4	0.0	8.5	0.0	0.0	3.6	67.5
1963	3.4	0.0	1.4	0.2	22.1	0.5	4.2	1.4	0.4	18.6	3.6	0.1	52.5	0.0	7.5	0.0	0.0	4.5	67.8
1964	2.7	0.0	1.0	0.1	21.1	0.5	3.2	1.9	0.4	18.8	2.3	0.1	49.6	0.0	7.4	0.0	0.0	5.8	65.5
1965	**2.7**	**0.0**	**1.1**	**0.1**	**25.0**	**0.4**	**4.3**	**1.8**	**0.4**	**19.9**	**5.7**	**0.1**	**58.9**	**0.0**	**7.9**	**0.0**	**0.0**	**6.7**	**76.1**
1966	2.2	0.9	2.1	0.1	28.0	0.5	3.6	1.9	0.4	21.2	6.2	0.1	64.2	0.0	9.0	0.0	0.0	7.8	84.1
1967	2.1	1.4	2.0	0.1	28.8	0.6	4.6	1.8	0.4	22.6	2.7	0.1	63.6	0.0	8.7	0.0	0.0	12.0	87.8
1968	1.9	1.7	2.2	0.1	30.4	0.7	5.1	2.2	0.4	23.9	2.5	0.1	67.5	0.0	8.5	0.0	0.0	13.9	93.5
1969	2.1	2.4	1.9	0.1	31.9	0.7	4.0	2.2	0.4	24.8	3.6	0.1	69.6	0.0	9.7	0.0	0.0	16.0	99.8
1970	**2.1**	**2.7**	**1.8**	**0.1**	**33.4**	**0.7**	**2.8**	**2.0**	**0.4**	**26.7**	**5.7**	**0.1**	**73.7**	**0.0**	**8.8**	**0.0**	**0.0**	**19.3**	**106.6**
1971	1.9	3.1	2.0	0.1	31.4	0.6	2.8	2.2	0.3	28.0	5.8	0.0	73.2	0.0	8.5	0.0	0.0	23.1	109.8
1972	1.4	3.8	0.8	0.1	33.1	1.4	2.9	2.6	0.4	29.8	5.9	0.0	76.9	1.8	10.6	0.0	0.0	22.8	117.4
1973	1.5	4.2	0.7	0.1	35.2	1.2	2.4	2.6	0.4	30.3	5.5	0.0	78.3	17.4	11.6	0.0	0.0	6.9	119.9
1974	1.5	4.8	0.7	*	29.5	1.1	2.1	2.6	0.4	29.6	3.3	0.0	69.3	27.7	11.2	0.0	0.0	-3.8	110.7
1975	**0.7**	**4.0**	**0.2**	**0.1**	**27.0**	**1.0**	**1.8**	**3.1**	**0.3**	**29.9**	**5.0**	**0.0**	**68.4**	**39.2**	**10.5**	**0.0**	**0.0**	**-15.6**	**107.3**
1976	0.6	3.7	0.2	*	31.9	0.8	2.1	3.5	0.4	31.6	7.9	0.0	78.3	36.0	12.0	0.0	0.0	-7.3	123.3
1977	0.7	4.0	0.2	*	31.2	0.8	1.9	3.5	0.4	32.2	7.2	0.0	77.4	38.1	10.9	0.0	*	-11.5	119.7
1978	0.5	3.8	0.1	*	30.8	0.7	1.8	4.4	0.4	33.1	6.2	0.0	77.6	35.5	10.2	0.0	0.1	-4.8	122.9
1979	0.6	4.4	0.5	*	32.0	1.0	2.2	2.0	0.5	30.6	2.2	0.0	70.9	37.5	11.1	0.0	0.3	-5.7	119.2
1980	**0.5**	**4.0**	**0.3**	**0.1**	**23.9**	**0.9**	**1.6**	**2.4**	**0.4**	**28.6**	**3.0**	**0.0**	**61.1**	**32.5**	**10.4**	**0.0**	**0.5**	**2.8**	**111.7**
1981	1.0	4.4	0.3	0.1	22.2	0.5	1.2	2.3	0.4	28.9	2.2	0.0	58.1	39.4	12.4	0.0	0.3	-8.9	106.6
1982	1.3	4.3	0.5	0.1	15.7	0.5	1.1	3.1	0.4	29.0	2.3	0.0	52.6	46.2	10.9	0.0	0.5	-14.0	101.8
1983	1.2	4.3	0.4	0.1	20.0	0.6	1.5	3.1	0.4	29.3	2.0	0.0	57.4	31.3	12.7	0.0	0.5	0.5	107.9
1984	1.4	4.8	1.5	0.1	21.7	1.0	0.9	2.4	0.4	30.6	1.9	0.0	60.4	36.2	12.3	0.0	1.8	-3.0	113.9
1985	**2.0**	**5.0**	**2.2**	**0.1**	**24.4**	**1.1**	**1.5**	**2.9**	**0.4**	**30.5**	**0.5**	**0.0**	**63.6**	**32.4**	**12.8**	**0.0**	**2.9**	**-9.6**	[illegible]
1986	0.7	5.0	2.6	0.1	23.1	0.7	1.1	3.2	0.4	31.3	1.9	*	64.7	22.2	27.9	0.0	0.9	-8.9	112.3
1987	0.3	5.1	3.3	0.1	25.5	1.0	1.0	3.9	0.4	34.2	1.5	*	70.9	38.1	33.6	0.0	1.6	-27.1	122.5
1988	0.3	5.5	2.6	0.1	27.2	0.8	1.2	4.4	0.4	35.8	1.1	*	73.6	44.2	37.9	0.0	1.0	-33.7	128.7
1989	0.2	6.1	3.0	0.1	27.0	1.2	1.0	5.8	0.4	34.4	0.6	*	73.6	38.7	30.7	0.0	1.9	-20.3	130.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 286. Residential Energy Consumption Estimates, 1960–1989, Vermont

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**0**	**46**	**46**	**0**	**2,044**	**701**	**258**	**3,003**	**451**	**1,121**
1961	0	41	41	0	2,391	846	266	3,503	487	1,186
1962	0	36	36	0	2,641	768	252	3,661	528	1,270
1963	0	34	34	0	2,797	637	242	3,675	577	1,379
1964	0	33	33	0	2,633	490	358	3,481	618	1,472
1965	**0**	**29**	**29**	**0**	**3,110**	**649**	**316**	**4,075**	**678**	**1,619**
1966	0	24	24	1	3,457	537	297	4,291	760	1,824
1967	0	22	22	1	3,527	679	264	4,470	820	1,958
1968	0	21	21	1	3,658	763	345	4,767	933	2,225
1969	0	18	18	1	3,887	598	372	4,857	1,076	2,571
1970	**0**	**17**	**17**	**1**	**3,873**	**436**	**356**	**4,665**	**1,216**	**2,947**
1971	0	17	17	1	3,649	436	388	4,473	1,360	3,288
1972	0	13	13	1	3,988	401	469	4,858	1,496	3,602
1973	0	13	13	1	4,093	341	461	4,894	1,515	3,627
1974	0	11	11	1	3,388	295	487	4,170	1,496	3,649
1975	**0**	**9**	**9**	**1**	**3,101**	**235**	**555**	**3,891**	**1,427**	**3,443**
1976	0	9	9	1	3,656	289	622	4,568	1,485	3,577
1977	0	8	8	1	3,345	284	594	4,223	1,466	3,541
1978	0	7	7	1	3,423	263	641	4,328	1,529	3,741
1979	0	5	5	1	3,222	324	324	3,870	1,698	4,098
1980	**0**	**7**	**7**	**1**	**2,171**	**230**	**356**	**2,757**	**1,781**	**4,331**
1981	0	15	15	1	2,008	177	381	2,566	1,707	4,069
1982	0	9	9	1	1,395	154	416	1,965	1,738	4,174
1983	1	7	8	1	2,004	215	495	2,714	1,766	4,231
1984	0	9	9	1	2,055	133	529	2,717	1,849	4,294
1985	**12**	**7**	**19**	**1**	**2,222**	**233**	**619**	**3,075**	**1,538**	**3,606**
1986	*	6	6	2	1,848	147	630	2,626	1,156	2,651
1987	0	6	6	2	1,877	144	746	2,766	1,409	3,212
1988	0	5	5	2	1,941	142	941	3,024	1,572	3,550
1989	0	2	2	2	2,163	136	1,230	3,529	1,664	3,731

Year	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu	
1960	**1.5**	**19.6**	**3.8**	**23.4**
1961	1.7	22.5	4.0	26.5
1962	1.8	23.4	4.3	27.8
1963	2.0	23.7	4.7	28.4
1964	2.1	22.4	5.0	27.5
1965	**2.3**	**26.1**	**5.5**	**31.6**
1966	2.6	28.2	6.2	34.5
1967	2.8	29.5	6.7	36.2
1968	3.2	31.3	7.6	38.9
1969	3.7	32.6	8.8	41.3
1970	**4.1**	**32.0**	**10.1**	**42.0**
1971	4.6	31.4	11.2	42.6
1972	5.1	33.9	12.3	46.2
1973	5.2	34.2	12.4	46.5
1974	5.1	29.8	12.4	42.3
1975	**4.9**	**27.7**	**11.7**	**39.4**
1976	5.1	31.7	12.2	43.9
1977	5.0	29.6	12.1	41.7
1978	5.2	30.4	12.8	43.1
1979	5.8	28.9	14.0	42.8
1980	**6.1**	**22.8**	**14.8**	**37.5**
1981	5.8	21.6	13.9	35.4
1982	5.9	17.9	14.2	32.2
1983	6.0	22.1	14.4	36.6
1984	6.3	22.5	14.6	37.2
1985	**5.2**	**23.7**	**12.3**	**36.0**
1986	3.9	19.6	9.0	28.6
1987	4.8	21.1	11.0	32.0
1988	5.4	22.9	12.1	35.0
1989	5.7	25.7	12.7	38.5

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity: Net Energy[4]	Electricity: Total[4]
	Trillion Btu									
1960	**0.0**	**1.1**	**1.1**	**0.0**	**11.9**	**4.0**	**1.0**	**16.9**	**19.6**	**23.4**
1961	0.0	1.0	1.0	0.0	13.9	4.8	1.1	19.8	22.5	26.5
1962	0.0	0.9	0.9	0.0	15.4	4.4	1.0	20.7	23.4	27.8
1963	0.0	0.8	0.8	0.0	16.3	3.6	1.0	20.9	23.7	28.4
1964	0.0	0.8	0.8	0.0	15.3	2.8	1.4	19.6	22.4	27.5
1965	**0.0**	**0.7**	**0.7**	**0.0**	**18.1**	**3.7**	**1.3**	**23.1**	**26.1**	**31.6**
1966	0.0	0.6	0.6	0.7	20.1	3.0	1.2	24.4	28.2	34.5
1967	0.0	0.5	0.5	0.8	20.5	3.8	1.0	25.4	29.5	36.2
1968	0.0	0.5	0.5	0.7	21.3	4.3	1.3	27.0	31.3	38.9
1969	0.0	0.4	0.4	1.0	22.6	3.4	1.4	27.4	32.6	41.3
1970	**0.0**	**0.4**	**0.4**	**1.1**	**22.6**	**2.5**	**1.3**	**26.4**	**32.0**	**42.0**
1971	0.0	0.4	0.4	1.1	21.3	2.5	1.5	25.2	31.4	42.6
1972	0.0	0.3	0.3	1.2	23.2	2.3	1.8	27.3	33.9	46.2
1973	0.0	0.3	0.3	1.2	23.8	1.9	1.7	27.5	34.2	46.5
1974	0.0	0.2	0.2	1.2	19.7	1.7	1.8	23.2	29.8	42.3
1975	**0.0**	**0.2**	**0.2**	**1.1**	**18.1**	**1.3**	**2.1**	**21.5**	**27.7**	**39.4**
1976	0.0	0.2	0.2	1.2	21.3	1.6	2.3	25.2	31.7	43.9
1977	0.0	0.2	0.2	1.2	19.5	1.6	2.2	23.3	29.6	41.7
1978	0.0	0.2	0.2	1.2	19.9	1.5	2.4	23.8	30.4	43.1
1979	0.0	0.1	0.1	1.1	18.8	1.8	1.2	21.8	28.9	42.8
1980	**0.0**	**0.1**	**0.1**	**1.3**	**12.6**	**1.3**	**1.3**	**15.3**	**22.8**	**37.5**
1981	0.0	0.4	0.4	1.3	11.7	1.0	1.4	14.1	21.6	35.4
1982	0.0	0.2	0.2	1.3	8.1	0.9	1.5	10.5	17.9	32.2
1983	*	0.2	0.2	1.2	11.7	1.2	1.8	14.7	22.1	36.6
1984	0.0	0.2	0.2	1.3	12.0	0.8	1.9	14.6	22.5	37.2
1985	**0.3**	**0.2**	**0.5**	**1.4**	**12.9**	**1.3**	**2.2**	**16.5**	**23.7**	**36.0**
1986	*	0.1	0.2	1.6	10.8	0.8	2.3	13.9	19.6	28.6
1987	0.0	0.2	0.2	1.6	10.9	0.8	2.7	14.5	21.1	32.0
1988	0.0	0.1	0.1	1.8	11.3	0.8	3.4	15.5	22.9	35.0
1989	0.0	0.1	0.1	2.1	12.6	0.8	4.5	17.9	25.7	38.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 287. Commercial Energy Consumption Estimates, 1960-1989, Vermont

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**0**	**30**	**30**	**0**	**418**	**43**	**46**	**127**	**225**	**859**	**233**	**580**		
1961	0	28	28	0	489	52	47	49	240	876	243	592		
1962	0	24	24	0	540	47	44	107	276	1,015	245	589		
1963	0	23	23	0	572	39	43	115	265	1,033	261	623		
1964	0	22	22	0	538	30	63	23	158	812	281	668		
1965	**0**	**19**	**19**	**0**	**636**	**40**	**56**	**24**	**422**	**1,177**	**303**	**723**		
1966	0	16	16	*	707	33	52	24	450	1,266	328	787		
1967	0	14	14	*	721	42	47	24	191	1,025	457	1,092		
1968	0	14	14	*	748	47	61	24	169	1,049	494	1,179		
1969	0	12	12	*	795	37	66	24	259	1,180	549	1,311		
1970	**0**	**12**	**12**	**1**	**792**	**27**	**63**	**25**	**414**	**1,320**	**609**	**1,475**		
1971	0	11	11	1	746	27	68	24	422	1,288	677	1,637		
1972	0	9	9	1	815	25	83	25	435	1,383	747	1,798		
1973	0	8	8	1	837	21	81	27	405	1,371	766	1,834		
1974	0	7	7	1	693	18	86	26	245	1,068	740	1,805		
1975	**0**	**6**	**6**	**1**	**634**	**15**	**98**	**30**	**373**	**1,149**	**709**	**1,710**		
1976	0	6	6	1	747	18	110	31	581	1,487	753	1,814		
1977	0	6	6	1	684	18	105	31	531	1,368	782	1,889		
1978	0	5	5	1	700	16	113	32	457	1,319	809	1,979		
1979	0	4	4	1	659	20	57	32	158	926	885	2,136		
1980	**0**	**4**	**4**	**1**	**620**	**44**	**63**	**33**	**237**	**996**	**923**	**2,244**		
1981	0	10	10	1	554	26	67	36	153	836	851	2,029		
1982	0	6	6	1	507	26	73	37	115	758	890	2,137		
1983	1	5	6	1	423	9	87	58	48	625	935	2,239		
1984	0	6	6	1	434	4	93	36	46	614	927	2,152		
1985	**22**	**5**	**27**	**2**	**530**	**16**	**109**	**40**	**16**	**711**	**959**	**2,249**		
1986	1	4	5	2	537	30	111	40	85	804	995	2,282		
1987	0	4	4	2	652	19	132	41	64	908	1,424	3,245		
1988	0	3	3	2	691	29	166	39	44	969	1,499	3,386		
1989	0	2	2	2	722	28	217	36	37	1,040	1,537	3,447		
							Trillion Btu							
1960	**0.0**	**0.8**	**0.8**	**0.0**	**2.4**	**0.2**	**0.2**	**0.7**	**1.4**	**4.9**	**0.8**	**6.5**	**2.0**	**8.5**
1961	0.0	0.7	0.7	0.0	2.8	0.3	0.2	0.3	1.5	5.1	0.8	6.6	2.0	8.6
1962	0.0	0.6	0.6	0.0	3.1	0.3	0.2	0.6	1.7	5.9	0.8	7.3	2.0	9.3
1963	0.0	0.5	0.5	0.0	3.3	0.2	0.2	0.6	1.7	6.0	0.9	7.4	2.1	9.6
1964	0.0	0.5	0.5	0.0	3.1	0.2	0.3	0.1	1.0	4.7	1.0	6.2	2.3	8.4
1965	**0.0**	**0.5**	**0.5**	**0.0**	**3.7**	**0.2**	**0.2**	**0.1**	**2.7**	**6.9**	**1.0**	**8.4**	**2.5**	**10.9**
1966	0.0	0.4	0.4	0.2	4.1	0.2	0.2	0.1	2.8	7.5	1.1	9.2	2.7	11.9
1967	0.0	0.3	0.3	0.3	4.2	0.2	0.2	0.1	1.2	5.9	1.6	8.2	3.7	11.9
1968	0.0	0.3	0.3	0.3	4.4	0.3	0.2	0.1	1.1	6.0	1.7	8.3	4.0	12.4
1969	0.0	0.3	0.3	0.4	4.6	0.2	0.2	0.1	1.6	6.8	1.9	9.4	4.5	13.9
1970	**0.0**	**0.3**	**0.3**	**0.6**	**4.6**	**0.2**	**0.2**	**0.1**	**2.6**	**7.7**	**2.1**	**10.6**	**5.0**	**15.7**
1971	0.0	0.3	0.3	0.6	4.3	0.2	0.3	0.1	2.7	7.5	2.3	10.7	5.6	16.3
1972	0.0	0.2	0.2	0.6	4.7	0.1	0.3	0.1	2.7	8.1	2.5	11.4	6.1	17.6
1973	0.0	0.2	0.2	0.6	4.9	0.1	0.3	0.1	2.5	8.0	2.6	11.4	6.3	17.6
1974	0.0	0.2	0.2	0.6	4.0	0.1	0.3	0.1	1.5	6.1	2.5	9.4	6.2	15.6
1975	**0.0**	**0.1**	**0.1**	**0.8**	**3.7**	**0.1**	**0.4**	**0.2**	**2.3**	**6.6**	**2.4**	**10.0**	**5.8**	**15.8**
1976	0.0	0.1	0.1	0.8	4.4	0.1	0.4	0.2	3.7	8.7	2.6	12.1	6.2	18.3
1977	0.0	0.1	0.1	0.8	4.0	0.1	0.4	0.2	3.3	8.0	2.7	11.5	6.4	18.0
1978	0.0	0.1	0.1	0.9	4.1	0.1	0.4	0.2	2.9	7.6	2.8	11.4	6.8	18.2
1979	0.0	0.1	0.1	1.0	3.8	0.1	0.2	0.2	1.0	5.3	3.0	9.4	7.3	16.7
1980	**0.0**	**0.1**	**0.1**	**0.8**	**3.6**	**0.2**	**0.2**	**0.2**	**1.5**	**5.7**	**3.1**	**9.8**	**7.7**	**17.5**
1981	0.0	0.2	0.2	0.8	3.2	0.1	0.2	0.2	1.0	4.8	2.9	8.7	6.9	15.7
1982	0.0	0.1	0.1	0.8	3.0	0.1	0.3	0.2	0.7	4.3	3.0	8.3	7.3	15.6
1983	*	0.1	0.1	0.8	2.5	0.1	0.3	0.3	0.3	3.4	3.2	7.6	7.6	15.3
1984	0.0	0.2	0.2	1.5	2.5	*	0.3	0.2	0.3	3.4	3.2	8.1	7.3	15.5
1985	**0.5**	**0.1**	**0.7**	**1.6**	**3.1**	**0.1**	**0.4**	**0.2**	**0.1**	**3.9**	**3.3**	**9.4**	**7.7**	**17.1**
1986	*	0.1	0.1	1.7	3.1	0.2	0.4	0.2	0.5	4.5	3.4	9.6	7.8	17.4
1987	0.0	0.1	0.1	1.8	3.8	0.1	0.5	0.2	0.4	5.0	4.9	11.8	11.1	22.8
1988	0.0	0.1	0.1	1.9	4.0	0.2	0.6	0.2	0.3	5.3	5.1	12.4	11.6	23.9
1989	0.0	*	*	2.1	4.2	0.2	0.8	0.2	0.2	5.6	5.2	12.9	11.8	24.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 288. Industrial Energy Consumption Estimates, 1960–1989, Vermont

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**41**	**0**	**41**	**0**	**224**	**234**	**75**	**99**	**2**	**0**	**252**	**23**	**909**	**64**	**191**	**474**		
1961	42	0	42	0	234	270	123	114	2	80	272	23	1,118	64	202	492		
1962	39	0	39	0	234	275	83	124	16	0	313	21	1,067	61	256	615		
1963	25	0	25	0	204	292	68	67	16	0	301	20	968	55	268	641		
1964	15	0	15	0	157	280	50	54	17	95	186	19	858	50	300	716		
1965	**14**	**0**	**14**	**0**	**171**	**316**	**71**	**77**	**19**	**100**	**484**	**20**	**1,259**	**53**	**352**	**841**		
1966	13	0	13	0	324	375	73	134	20	98	519	11	1,553	65	413	990		
1967	10	0	10	*	295	390	83	155	16	95	228	11	1,273	60	596	1,423		
1968	8	0	8	1	331	429	88	176	18	78	213	13	1,344	57	632	1,509		
1969	8	0	8	1	280	447	63	148	17	70	297	13	1,334	63	720	1,721		
1970	**3**	**0**	**3**	**1**	**271**	**463**	**39**	**121**	**17**	**68**	**466**	**13**	**1,458**	**62**	**787**	**1,907**		
1971	4	0	4	1	295	440	39	130	12	57	474	0	1,447	59	856	2,070		
1972	2	0	2	1	122	451	78	145	12	59	491	0	1,358	69	954	2,297		
1973	3	0	3	2	109	469	65	141	11	70	458	0	1,324	65	1,003	2,401		
1974	4	0	4	2	99	417	63	128	11	50	278	0	1,046	71	947	2,310		
1975	**2**	**0**	**2**	**2**	**28**	**364**	**68**	**179**	**10**	**77**	**421**	**0**	**1,147**	**67**	**858**	**2,071**		
1976	1	0	1	2	27	459	67	212	12	69	652	0	1,497	74	1,253	3,019		
1977	3	0	3	2	33	418	42	245	15	61	594	0	1,408	72	994	2,400		
1978	1	0	1	2	18	430	47	425	16	49	512	0	1,496	70	1,114	2,725		
1979	2	0	2	2	75	668	43	158	17	38	177	0	1,176	73	1,168	2,819		
1980	**2**	**0**	**2**	**2**	**43**	**501**	**9**	**245**	**15**	**19**	**235**	**0**	**1,066**	**70**	**1,247**	**3,032**		
1981	3	0	3	2	49	468	9	157	15	12	194	0	903	70	1,172	2,794		
1982	0	4	4	2	74	420	7	366	13	13	244	0	1,137	70	1,152	2,768		
1983	2	2	4	2	63	288	34	277	14	10	271	0	957	70	1,210	2,899		
1984	0	3	3	2	226	296	12	40	15	68	262	0	920	70	1,450	3,366		
1985	**4**	**2**	**6**	**2**	**330**	**448**	**12**	**67**	**14**	**117**	**68**	**0**	**1,056**	**70**	**1,518**	**3,560**		
1986	0	3	3	2	419	504	15	132	14	120	212	8	1,423	70	1,576	3,613		
1987	1	1	2	2	491	475	19	168	15	119	171	9	1,467	70	1,264	2,880		
1988	2	1	3	2	396	578	39	83	15	123	130	7	1,371	70	1,345	3,037		
1989	4	1	5	2	453	502	13	131	15	127	45	6	1,293	70	1,373	3,080		
					Trillion Btu													
1960	**1.1**	**0.0**	**1.1**	**0.0**	**1.5**	**1.4**	**0.4**	**0.4**	*	**0.0**	**1.6**	**0.1**	**5.4**	**0.7**	**0.7**	**7.8**	**1.6**	**9.4**
1961	1.1	0.0	1.1	0.0	1.6	1.6	0.7	0.5	*	0.4	1.7	0.1	6.6	0.7	0.7	9.0	1.7	10.7
1962	1.0	0.0	1.0	0.0	1.6	1.6	0.5	0.5	0.1	0.0	2.0	0.1	6.3	0.6	0.9	8.9	2.1	11.0
1963	0.7	0.0	0.7	0.0	1.4	1.7	0.4	0.3	0.1	0.0	1.9	0.1	5.8	0.6	0.9	8.0	2.2	10.2
1964	0.4	0.0	0.4	0.0	1.0	1.6	0.3	0.2	0.1	0.5	1.2	0.1	5.0	0.5	1.0	7.0	2.4	9.4
1965	**0.4**	**0.0**	**0.4**	**0.0**	**1.1**	**1.8**	**0.4**	**0.3**	**0.1**	**0.5**	**3.0**	**0.1**	**7.5**	**0.6**	**1.2**	**9.6**	**2.9**	**12.5**
1966	0.3	0.0	0.3	0.0	2.1	2.2	0.4	0.5	0.1	0.5	3.3	0.1	9.2	0.7	1.4	11.7	3.4	15.1
1967	0.3	0.0	0.3	0.2	2.0	2.3	0.5	0.6	0.1	0.5	1.4	0.1	7.4	0.6	2.0	10.5	4.9	15.4
1968	0.2	0.0	0.2	0.7	2.2	2.5	0.5	0.7	0.1	0.4	1.3	0.1	7.8	0.6	2.2	11.4	5.1	16.6
1969	0.2	0.0	0.2	1.0	1.9	2.6	0.4	0.6	0.1	0.4	1.9	0.1	7.8	0.7	2.5	12.1	5.9	18.0
1970	**0.1**	**0.0**	**0.1**	**1.1**	**1.8**	**2.7**	**0.2**	**0.5**	**0.1**	**0.4**	**2.9**	**0.1**	**8.6**	**0.6**	**2.7**	**13.1**	**6.5**	**19.6**
1971	0.1	0.0	0.1	1.3	2.0	2.6	0.2	0.5	0.1	0.3	3.0	0.0	8.6	0.6	2.9	13.5	7.1	20.6
1972	0.1	0.0	0.1	1.4	0.8	2.6	0.4	0.5	0.1	0.3	3.1	0.0	7.9	0.7	3.3	13.3	7.8	21.1
1973	0.1	0.0	0.1	1.8	0.7	2.7	0.4	0.5	0.1	0.4	2.9	0.0	7.7	0.7	3.4	13.7	8.2	21.9
1974	0.1	0.0	0.1	1.7	0.7	2.4	0.4	0.5	0.1	0.3	1.7	0.0	6.0	0.7	3.2	11.8	7.9	19.6
1975	**0.1**	**0.0**	**0.1**	**1.5**	**0.2**	**2.1**	**0.4**	**0.7**	**0.1**	**0.4**	**2.6**	**0.0**	**6.5**	**0.7**	**2.9**	**11.7**	**7.1**	**18.8**
1976	*	0.0	*	1.6	0.2	2.7	0.4	0.8	0.1	0.4	4.1	0.0	8.5	0.8	4.3	15.3	10.3	25.6
1977	0.1	0.0	0.1	1.7	0.2	2.4	0.2	0.9	0.1	0.3	3.7	0.0	7.9	0.7	3.4	13.8	8.2	22.0
1978	*	0.0	*	1.7	0.1	2.5	0.3	1.6	0.1	0.3	3.2	0.0	8.0	0.7	3.8	14.3	9.3	23.6
1979	*	0.0	*	1.7	0.5	3.9	0.2	0.6	0.1	0.2	1.1	0.0	6.6	0.8	4.0	13.1	9.6	22.8
1980	*	**0.0**	*	**1.6**	**0.3**	**2.9**	**0.1**	**0.9**	**0.1**	**0.1**	**1.5**	**0.0**	**5.8**	**0.7**	**4.3**	**12.5**	**10.3**	**22.8**
1981	0.1	0.0	0.1	2.1	0.3	2.7	0.1	0.6	0.1	0.1	1.2	0.0	5.0	0.7	4.0	11.9	9.5	21.4
1982	0.0	0.1	0.1	2.1	0.5	2.4	*	1.3	0.1	0.1	1.5	0.0	6.0	0.7	3.9	12.9	9.4	22.3
1983	0.1	*	0.1	2.0	0.4	1.7	0.2	1.0	0.1	0.1	1.7	0.0	5.1	0.7	4.1	12.1	9.9	22.0
1984	0.0	0.1	0.1	1.8	1.5	1.7	0.1	0.1	0.1	0.4	1.6	0.0	5.5	0.7	4.9	13.0	11.5	24.5
1985	**0.1**	*	**0.1**	**1.9**	**2.2**	**2.6**	**0.1**	**0.2**	**0.1**	**0.6**	**0.4**	**0.0**	**6.2**	**0.7**	**5.2**	**14.1**	**12.1**	**26.3**
1986	0.0	0.1	0.1	1.7	2.8	2.9	0.1	0.5	0.1	0.6	1.3	*	8.4	0.7	5.4	16.2	12.3	28.6
1987	*	*	0.1	1.7	3.3	2.8	0.1	0.6	0.1	0.6	1.1	*	8.6	0.7	4.3	15.3	9.8	25.2
1988	0.1	*	0.1	1.7	2.6	3.4	0.2	0.3	0.1	0.6	0.8	*	8.1	0.7	4.6	15.2	10.4	25.6
1989	0.1	*	0.1	1.9	3.0	2.9	0.1	0.5	0.1	0.7	0.3	*	7.6	0.7	4.7	15.0	10.5	25.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 289. Transportation Energy Consumption Estimates, 1960-1989, Vermont

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**1**	**0**	**19**	**254**	**82**	*****	**68**	**3,205**	**0**	**3,629**	**0**		**0**	
1961	*	0	15	166	83	*	66	3,237	1	3,568	0		0	
1962	*	0	28	163	89	*	49	3,339	7	3,675	0		0	
1963	*	0	30	121	99	1	49	3,433	0	3,732	0		0	
1964	*	0	24	161	94	*	52	3,460	22	3,812	0		0	
1965	*****	**0**	**25**	**185**	**79**	**1**	**44**	**3,665**	**0**	**4,000**	**0**		**0**	
1966	*	0	24	191	93	1	46	3,919	6	4,281	0		0	
1967	*	*	21	206	117	2	43	4,191	3	4,583	0		0	
1968	*	0	17	205	127	1	47	4,444	0	4,841	0		0	
1969	*	0	15	210	120	2	48	4,631	4	5,030	0		0	
1970	*****	**0**	**14**	**346**	**121**	**3**	**49**	**4,985**	**2**	**5,519**	**0**		**0**	
1971	*	0	12	300	112	4	46	5,250	2	5,725	0		0	
1972	*	0	11	361	123	2	49	5,593	2	6,141	0		0	
1973	*	0	12	530	124	1	49	5,666	2	6,384	0		0	
1974	*	0	8	513	127	1	47	5,550	3	6,249	0		0	
1975	*****	**0**	**11**	**504**	**129**	**1**	**45**	**5,591**	**2**	**6,284**	**0**		**0**	
1976	*	0	9	583	116	2	50	5,914	1	6,674	0		0	
1977	*	0	8	897	125	2	52	6,033	0	7,117	0		0	
1978	0	0	6	706	134	20	56	6,228	0	7,150	0		0	
1979	0	0	4	910	168	2	58	5,759	0	6,901	0		0	
1980	**0**	**0**	**25**	**757**	**137**	**2**	**52**	**5,386**	**0**	**6,359**	**0**		**0**	
1981	0	0	16	772	75	21	50	5,459	0	6,394	0		0	
1982	0	*	19	362	84	6	45	5,479	0	5,995	0		0	
1983	0	*	25	708	106	7	48	5,511	0	6,405	0		0	
1984	0	*	17	905	173	12	51	5,716	0	6,875	0		0	
1985	**0**	*****	**22**	**959**	**201**	**10**	**47**	**5,655**	**0**	**6,894**	**0**		**0**	
1986	0	*	27	1,038	133	8	46	5,806	0	7,058	0		0	
1987	0	0	21	1,295	181	9	52	6,354	3	7,916	0		0	
1988	0	0	17	1,385	143	9	50	6,644	0	8,248	0		0	
1989	0	*	17	1,191	220	9	52	6,388	8	7,885	0		0	
							Trillion Btu					Net Energy[4]		Total[4]
1960	*****	**0.0**	**0.1**	**1.5**	**0.4**	*****	**0.4**	**16.8**	**0.0**	**19.3**	**0.0**	**19.3**	**0.0**	**19.3**
1961	*	0.0	0.1	1.0	0.4	*	0.4	17.0	*	18.9	0.0	18.9	0.0	18.9
1962	*	0.0	0.1	0.9	0.5	*	0.3	17.5	*	19.4	0.0	19.5	0.0	19.5
1963	*	0.0	0.2	0.7	0.5	*	0.3	18.0	0.0	19.7	0.0	19.7	0.0	19.7
1964	*	0.0	0.1	0.9	0.5	*	0.3	18.2	0.1	20.2	0.0	20.2	0.0	20.2
1965	*****	**0.0**	**0.1**	**1.1**	**0.4**	*****	**0.3**	**19.3**	**0.0**	**21.2**	**0.0**	**21.2**	**0.0**	**21.2**
1966	*	0.0	0.1	1.1	0.5	*	0.3	20.6	*	22.6	0.0	22.6	0.0	22.6
1967	*	*	0.1	1.2	0.6	*	0.3	22.0	*	24.2	0.0	24.3	0.0	24.3
1968	*	0.0	0.1	1.2	0.7	*	0.3	23.3	0.0	25.6	0.0	25.6	0.0	25.6
1969	*	0.0	0.1	1.2	0.7	*	0.3	24.3	*	26.6	0.0	26.6	0.0	26.6
1970	*****	**0.0**	**0.1**	**2.0**	**0.7**	*****	**0.3**	**26.2**	*****	**29.3**	**0.0**	**29.3**	**0.0**	**29.3**
1971	*	0.0	0.1	1.7	0.6	*	0.3	27.6	*	30.3	0.0	30.3	0.0	30.3
1972	*	0.0	0.1	2.1	0.7	*	0.3	29.4	*	32.5	0.0	32.5	0.0	32.5
1973	*	0.0	0.1	3.1	0.7	*	0.3	29.8	*	33.9	0.0	33.9	0.0	33.9
1974	*	0.0	*	3.0	0.7	*	0.3	29.2	*	33.2	0.0	33.2	0.0	33.2
1975	*****	**0.0**	**0.1**	**2.9**	**0.7**	*****	**0.3**	**29.4**	*****	**33.4**	**0.0**	**33.4**	**0.0**	**33.4**
1976	*	0.0	*	3.4	0.6	*	0.3	31.1	*	35.5	0.0	35.5	0.0	35.5
1977	*	0.0	*	5.2	0.7	*	0.3	31.7	0.0	38.0	0.0	38.0	0.0	38.0
1978	0.0	0.0	*	4.1	0.7	0.1	0.3	32.7	0.0	38.0	0.0	38.0	0.0	38.0
1979	0.0	0.0	*	5.3	0.9	*	0.4	30.3	0.0	36.9	0.0	36.9	0.0	36.9
1980	**0.0**	**0.0**	**0.1**	**4.4**	**0.8**	*****	**0.3**	**28.3**	**0.0**	**33.9**	**0.0**	**33.9**	**0.0**	**33.9**
1981	0.0	0.0	0.1	4.5	0.4	0.1	0.3	28.7	0.0	34.0	0.0	34.0	0.0	34.0
1982	0.0	*	0.1	2.1	0.5	*	0.3	28.8	0.0	31.7	0.0	31.7	0.0	31.7
1983	0.0	*	0.1	4.1	0.6	*	0.3	29.0	0.0	34.1	0.0	34.1	0.0	34.1
1984	0.0	*	0.1	5.3	1.0	*	0.3	30.0	0.0	36.7	0.0	36.7	0.0	36.7
1985	**0.0**	*****	**0.1**	**5.6**	**1.1**	*****	**0.3**	**29.7**	**0.0**	**36.8**	**0.0**	**36.8**	**0.0**	**36.8**
1986	0.0	*	0.1	6.0	0.7	*	0.3	30.5	0.0	37.7	0.0	37.7	0.0	37.7
1987	0.0	0.0	0.1	7.5	1.0	*	0.3	33.4	*	42.4	0.0	42.4	0.0	42.4
1988	0.0	0.0	0.1	8.1	0.8	*	0.3	34.9	0.0	44.2	0.0	44.2	0.0	44.2
1989	0.0	*	0.1	6.9	1.2	*	0.3	33.6	0.1	42.2	0.0	42.2	0.0	42.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 290. Estimates of Energy Input at Electric Utilities, 1960-1989, Vermont

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**19**	**0**	**19**	**0**	**1**	**8**	**0**	**9**	**0**	**873**	**0**	**0**	
1961	39	0	39	0	1	13	0	14	0	775	0	0	
1962	19	0	19	0	1	7	0	7	0	743	0	0	
1963	48	0	48	0	1	14	0	15	0	660	0	0	
1964	38	0	38	0	1	16	0	17	0	661	0	0	
1965	**43**	**0**	**43**	**0**	**3**	**38**	**0**	**42**	**0**	**702**	**0**	**0**	
1966	32	0	32	0	7	77	0	84	0	795	0	0	
1967	34	0	34	0	8	96	0	105	0	774	0	0	
1968	31	0	31	0	15	172	0	187	0	763	0	0	
1969	42	0	42	0	12	141	0	153	0	867	0	0	
1970	**55**	**0**	**55**	**0**	**23**	**268**	**0**	**291**	**0**	**773**	**0**	**0**	
1971	47	0	47	*	18	256	0	274	0	751	0	0	
1972	32	0	32	1	17	190	0	207	169	957	0	0	
1973	35	0	35	1	4	214	0	218	1,598	1,048	0	0	
1974	37	0	37	1	1	137	0	138	2,483	997	0	0	
1975	**13**	**0**	**13**	**1**	*	**86**	**0**	**87**	**3,561**	**946**	**0**	**0**	
1976	9	0	9	*	16	50	0	66	3,260	1,083	0	0	
1977	12	0	12	*	17	29	0	46	3,538	970	0	1	
1978	7	0	7	*	10	20	0	29	3,241	912	0	11	
1979	13	0	13	1	12	32	0	43	3,449	1,003	0	32	
1980	**9**	**0**	**9**	*	**0**	**63**	**0**	**63**	**2,979**	**930**	**0**	**49**	
1981	14	0	14	*	0	24	0	24	3,569	1,117	0	26	
1982	31	0	31	*	0	23	0	23	4,174	976	0	43	
1983	28	0	28	*	0	16	0	16	2,870	1,133	0	50	
1984	37	0	37	*	0	31	0	31	3,336	1,118	0	178	
1985	**28**	**0**	**28**	*	**0**	**34**	**0**	**34**	**2,999**	**1,173**	**0**	**280**	
1986	12	0	12	*	0	46	0	46	2,058	2,645	0	85	
1987	0	0	0	0	0	71	0	71	3,536	3,202	0	156	
1988	0	0	0	0	0	75	0	75	4,114	3,630	0	100	
1989	0	0	0	*	0	50	0	50	3,607	2,902	0	184	
	Trillion Btu												
1960	**0.5**	**0.0**	**0.5**	**0.0**	*	*	**0.0**	**0.1**	**0.0**	**9.4**	**0.0**	**0.0**	**10.0**
1961	1.1	0.0	1.1	0.0	*	0.1	0.0	0.1	0.0	8.3	0.0	0.0	9.4
1962	0.5	0.0	0.5	0.0	*	*	0.0	*	0.0	7.8	0.0	0.0	8.4
1963	1.3	0.0	1.3	0.0	*	0.1	0.0	0.1	0.0	6.9	0.0	0.0	8.3
1964	1.0	0.0	1.0	0.0	*	0.1	0.0	0.1	0.0	6.9	0.0	0.0	8.0
1965	**1.2**	**0.0**	**1.2**	**0.0**	*	**0.2**	**0.0**	**0.2**	**0.0**	**7.3**	**0.0**	**0.0**	**8.8**
1966	0.9	0.0	0.9	0.0	*	0.4	0.0	0.5	0.0	8.3	0.0	0.0	9.6
1967	0.9	0.0	0.9	0.0	0.1	0.6	0.0	0.6	0.0	8.1	0.0	0.0	9.6
1968	0.9	0.0	0.9	0.0	0.1	1.0	0.0	1.1	0.0	7.9	0.0	0.0	9.9
1969	1.2	0.0	1.2	0.0	0.1	0.8	0.0	0.9	0.0	9.1	0.0	0.0	11.1
1970	**1.4**	**0.0**	**1.4**	**0.0**	**0.1**	**1.6**	**0.0**	**1.7**	**0.0**	**8.1**	**0.0**	**0.0**	**11.2**
1971	1.2	0.0	1.2	*	0.1	1.5	0.0	1.6	0.0	7.9	0.0	0.0	10.7
1972	0.8	0.0	0.8	0.6	0.1	1.1	0.0	1.2	1.8	9.9	0.0	0.0	14.4
1973	0.9	0.0	0.9	0.6	*	1.2	0.0	1.3	17.4	10.9	0.0	0.0	31.1
1974	1.0	0.0	1.0	1.3	*	0.8	0.0	0.8	27.7	10.4	0.0	0.0	41.1
1975	**0.3**	**0.0**	**0.3**	**0.6**	*	**0.5**	**0.0**	**0.5**	**39.2**	**9.8**	**0.0**	**0.0**	**50.5**
1976	0.2	0.0	0.2	0.1	0.1	0.3	0.0	0.4	36.0	11.2	0.0	0.0	47.9
1977	0.3	0.0	0.3	0.4	0.1	0.2	0.0	0.3	38.1	10.1	0.0	*	49.3
1978	0.2	0.0	0.2	*	0.1	0.1	0.0	0.2	35.5	9.4	0.0	0.1	45.4
1979	0.3	0.0	0.3	0.5	0.1	0.2	0.0	0.3	37.5	10.4	0.0	0.3	49.4
1980	**0.2**	**0.0**	**0.2**	**0.2**	**0.0**	**0.4**	**0.0**	**0.4**	**32.5**	**9.7**	**0.0**	**0.5**	**43.5**
1981	0.4	0.0	0.4	0.2	0.0	0.1	0.0	0.1	39.4	11.7	0.0	0.3	52.0
1982	0.8	0.0	0.8	0.1	0.0	0.1	0.0	0.1	46.2	10.2	0.0	0.5	57.9
1983	0.7	0.0	0.7	0.2	0.0	0.1	0.0	0.1	31.3	11.9	0.0	0.5	44.8
1984	0.9	0.0	0.9	0.3	0.0	0.2	0.0	0.2	36.2	11.5	0.0	1.8	50.9
1985	**0.7**	**0.0**	**0.7**	**0.1**	**0.0**	**0.2**	**0.0**	**0.2**	**32.4**	**12.1**	**0.0**	**2.9**	**48.5**
1986	0.3	0.0	0.3	*	0.0	0.3	0.0	0.3	22.2	27.1	0.0	0.9	50.8
1987	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	38.1	32.8	0.0	1.6	73.0
1988	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	44.2	37.1	0.0	1.0	82.8
1989	0.0	0.0	0.0	*	0.0	0.3	0.0	0.3	38.7	30.0	0.0	1.9	70.9

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 291. Energy Consumption Estimates by Source, 1960-1989, Virginia

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours				
1960	**12,142**	**66**	**1,753**	**382**	**14,146**	**4,441**	**5,038**	**1,146**	**633**	**31,077**	**17,825**	**1,276**	**77,719**	**0**	**1,267**	**0**	**0**	**-13,165**
1961	12,598	71	2,227	381	14,681	4,500	5,540	1,250	616	30,793	14,447	1,326	75,762	0	1,183	0	0	-12,361
1962	13,289	77	1,862	576	15,886	4,988	5,734	1,332	645	32,484	13,260	1,390	78,155	0	1,263	0	0	-14,947
1963	13,866	83	2,296	608	16,888	6,062	5,801	1,726	645	33,525	14,126	1,851	83,529	0	875	0	0	-11,606
1964	14,222	89	2,392	655	16,534	6,333	5,268	1,891	677	34,312	15,385	2,110	85,556	0	859	0	0	-10,397
1965	**14,904**	**96**	**2,681**	**721**	**18,609**	**6,504**	**5,544**	**1,658**	**664**	**36,104**	**16,780**	**2,026**	**91,291**	**0**	**883**	**0**	**0**	**-4,629**
1966	15,088	122	2,655	810	20,867	7,239	6,150	1,642	690	37,534	15,370	2,178	95,134	0	764	0	0	2,203
1967	14,526	116	2,289	742	21,373	9,427	6,216	1,879	623	39,186	15,455	2,234	99,425	0	806	0	0	8,828
1968	15,047	122	2,502	615	22,205	10,918	6,639	1,924	685	42,357	14,838	2,407	105,089	0	785	0	0	11,440
1969	13,090	129	2,476	462	23,145	11,489	5,722	2,201	706	46,059	22,989	2,549	117,798	0	705	0	0	15,060
1970	**11,294**	**137**	**2,250**	**356**	**24,640**	**11,093**	**5,029**	**2,412**	**720**	**48,684**	**33,373**	**3,455**	**132,013**	**0**	**691**	**0**	**0**	**16,309**
1971	9,479	144	2,786	321	24,376	11,803	5,064	2,463	717	51,673	40,527	2,878	142,607	0	1,123	0	0	19,543
1972	8,223	156	2,743	322	25,075	11,662	4,722	2,863	768	55,089	44,778	3,237	151,259	448	1,408	0	0	24,076
1973	8,151	153	3,119	321	27,103	12,311	3,285	2,749	881	58,429	44,813	2,661	155,672	6,857	1,318	0	0	16,671
1974	7,550	144	3,026	305	25,364	11,418	2,525	2,672	844	57,945	43,895	2,410	150,402	5,953	1,085	0	0	22,040
1975	**7,130**	**121**	**2,328**	**251**	**22,995**	**11,602**	**2,264**	**3,077**	**734**	**59,293**	**40,953**	**2,320**	**145,818**	**8,970**	**1,311**	**0**	**0**	**22,851**
1976	8,317	124	2,702	228	25,101	11,954	2,580	3,209	815	62,422	39,473	6,206	154,690	7,740	888	0	0	29,270
1977	7,734	118	2,928	241	28,183	12,541	2,142	3,365	951	64,412	41,301	7,368	163,433	9,481	714	0	0	30,889
1978	7,000	134	3,465	255	26,309	12,339	1,823	3,138	1,022	66,616	37,705	7,905	160,576	14,098	1,286	0	0	27,111
1979	8,651	134	3,249	207	33,056	12,079	2,727	3,624	1,069	62,890	35,306	9,491	163,698	7,056	1,543	0	0	47,925
1980	**9,291**	**158**	**2,618**	**218**	**24,599**	**12,279**	**1,716**	**3,131**	**952**	**59,035**	**24,651**	**10,015**	**139,213**	**11,466**	**892**	**0**	**0**	**56,966**
1981	10,666	152	2,357	185	23,613	11,255	1,172	2,945	913	59,241	13,590	6,016	121,287	17,818	365	0	0	52,182
1982	10,419	151	2,013	180	21,913	11,090	1,268	2,958	833	58,355	9,377	4,925	112,911	17,420	940	0	0	59,425
1983	10,888	143	2,823	163	24,890	10,869	1,345	2,975	872	59,687	8,128	4,630	116,381	18,674	1,210	0	0	63,690
1984	12,168	144	3,658	127	25,795	10,465	1,071	3,745	930	61,916	7,814	5,293	120,813	17,045	1,182	0	0	67,082
1985	**11,656**	**139**	**4,033**	**131**	**25,252**	**11,038**	**1,827**	**3,870**	**866**	**62,964**	**7,490**	**4,915**	**122,385**	**22,303**	**845**	**0**	**0**	**62,514**
1986	11,856	141	4,444	155	28,423	13,228	1,424	3,379	847	65,186	9,878	3,948	130,911	21,215	75	0	0	76,421
1987	13,227	159	4,406	74	29,301	14,432	1,434	3,945	958	69,733	8,725	4,115	137,123	18,145	834	0	0	88,182
1988	13,430	164	3,604	74	32,591	15,700	1,408	4,406	923	71,192	8,416	4,198	142,513	21,037	-191	0	*	91,008
1989	14,279	174	4,203	75	29,079	15,768	1,315	4,719	947	70,896	9,539	4,173	140,714	14,264	428	0	*	107,387

Year	Coal	Natural Gas[1]	Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Trillion Btu																		
1960	**316.4**	**68.4**	**11.6**	**1.9**	**82.4**	**24.0**	**28.6**	**4.6**	**3.8**	**163.2**	**112.1**	**7.6**	**439.9**	**0.0**	**13.6**	**0.0**	**0.0**	**-44.9**	**793.5**
1961	328.1	73.0	14.8	1.9	85.5	24.4	31.4	5.0	3.7	161.8	90.8	7.9	427.2	0.0	12.6	0.0	0.0	-42.2	798.7
1962	345.5	79.9	12.4	2.9	92.5	27.0	32.5	5.3	3.9	170.6	83.4	8.2	438.8	0.0	13.3	0.0	0.0	-51.0	826.5
1963	360.2	86.2	15.2	3.1	98.4	33.1	32.9	6.9	3.9	176.1	88.8	10.7	469.1	0.0	9.2	0.0	0.0	-39.6	885.1
1964	370.4	92.0	15.9	3.3	96.3	34.6	29.9	7.6	4.1	180.2	96.7	12.1	480.7	0.0	9.0	0.0	0.0	-35.5	916.6
1965	**386.3**	**98.6**	**17.8**	**3.6**	**108.4**	**35.8**	**31.4**	**6.6**	**4.0**	**189.7**	**105.5**	**11.6**	**514.5**	**0.0**	**9.2**	**0.0**	**0.0**	**-15.8**	**992.9**
1966	386.4	125.3	17.6	4.1	121.5	39.9	34.9	6.6	4.2	197.2	96.6	12.5	535.1	0.0	8.0	0.0	0.0	7.5	1,062.2
1967	370.0	119.4	15.2	3.7	124.5	52.2	35.2	7.2	3.8	205.8	97.2	12.7	557.6	0.0	8.4	0.0	0.0	30.1	1,085.5
1968	383.8	125.7	16.6	3.1	129.3	60.5	37.6	7.3	4.2	222.5	93.3	13.7	588.1	0.0	8.2	0.0	0.0	39.0	1,144.9
1969	328.7	132.7	16.4	2.3	134.8	63.9	32.4	8.4	4.3	241.9	144.5	14.5	663.6	0.0	7.4	0.0	0.0	51.4	1,183.8
1970	**275.3**	**140.1**	**14.9**	**1.8**	**143.5**	**61.9**	**28.5**	**9.1**	**4.4**	**255.7**	**209.8**	**19.9**	**749.6**	**0.0**	**7.3**	**0.0**	**0.0**	**55.6**	**1,227.9**
1971	230.2	147.8	18.5	1.6	142.0	65.9	28.7	9.3	4.3	271.4	254.8	16.7	813.3	0.0	11.8	0.0	0.0	66.7	1,269.7
1972	198.9	159.7	18.2	1.6	146.1	65.1	26.8	10.8	4.7	289.4	281.5	18.8	863.0	4.8	14.6	0.0	0.0	82.1	1,323.2
1973	195.9	156.7	20.7	1.6	157.9	68.9	18.6	10.3	5.3	306.9	281.7	15.4	887.4	74.8	13.7	0.0	0.0	56.9	1,385.3
1974	177.0	146.8	20.1	1.5	147.7	63.8	14.3	10.0	5.1	304.4	276.0	13.8	856.7	66.4	11.3	0.0	0.0	75.2	1,333.5
1975	**169.2**	**123.6**	**15.4**	**1.3**	**133.9**	**64.9**	**12.8**	**11.4**	**4.5**	**311.5**	**257.5**	**13.3**	**826.6**	**98.8**	**13.6**	**0.0**	**0.0**	**78.0**	**1,309.8**
1976	202.2	125.9	17.9	1.2	146.2	67.0	14.6	11.9	4.9	327.9	248.2	35.0	874.8	85.5	9.2	0.0	0.0	99.9	1,397.5
1977	187.0	120.7	19.4	1.2	164.2	70.3	12.1	12.4	5.8	338.4	259.7	41.8	925.1	102.1	7.4	0.0	0.0	105.4	1,447.9
1978	170.6	136.9	23.0	1.3	153.2	69.1	10.3	11.5	6.2	349.9	237.0	44.9	906.5	154.2	13.3	0.0	0.0	92.5	1,474.2
1979	213.7	137.0	21.6	1.0	192.6	67.6	15.5	13.3	6.5	330.4	222.0	53.1	923.5	76.8	16.0	0.0	0.0	163.5	1,530.4
1980	**231.8**	**161.0**	**17.4**	**1.1**	**143.3**	**68.8**	**9.7**	**11.5**	**5.8**	**310.1**	**155.0**	**55.5**	**778.1**	**125.1**	**9.3**	**0.0**	**0.0**	**194.4**	**1,499.7**
1981	264.3	155.4	15.6	0.9	137.5	62.9	6.6	10.7	5.5	311.2	85.4	33.2	669.8	196.5	3.8	0.0	0.0	178.0	1,467.9
1982	259.7	155.0	13.4	0.9	127.6	61.9	7.2	10.7	5.0	306.5	59.0	27.3	619.5	192.9	9.8	0.0	0.0	202.8	1,439.7
1983	275.5	147.2	18.7	0.8	145.0	60.8	7.6	10.8	5.3	313.5	51.1	26.0	639.7	203.6	12.7	0.0	0.0	217.3	1,496.0
1984	306.9	148.8	24.3	0.6	150.3	58.4	6.1	13.5	5.6	325.2	49.1	29.0	662.1	184.8	12.2	0.0	0.0	228.9	1,543.7
1985	**297.1**	**144.9**	**26.8**	**0.7**	**147.1**	**61.7**	**10.4**	**13.9**	**5.3**	**330.7**	**47.1**	**27.1**	**670.7**	**241.2**	**8.7**	**0.0**	**0.0**	**213.3**	**1,575.9**
1986	303.2	146.7	29.5	0.8	165.6	74.1	8.1	12.3	5.1	342.4	62.1	22.0	721.9	229.1	0.8	0.0	0.0	260.7	1,662.5
1987	337.9	165.3	29.2	0.4	170.7	80.9	8.1	14.4	5.8	366.3	54.9	22.8	753.5	195.5	8.6	0.0	0.0	300.9	1,761.6
1988	342.9	170.2	23.9	0.4	189.8	87.9	8.0	16.1	5.6	374.0	52.9	23.4	782.0	226.0	-2.0	0.0	*	310.5	1,829.7
1989	362.3	180.8	27.9	0.4	169.4	88.3	7.5	17.4	5.7	372.4	60.0	23.2	772.1	153.0	4.4	0.0	*	366.4	1,839.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 292. Residential Energy Consumption Estimates, 1960-1989, Virginia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**450**	**8**	**458**	**27**	**6,520**	**4,655**	**734**	**11,909**	**4,099**	**10,196**		
1961	384	8	392	29	6,923	5,139	793	12,856	4,511	10,995		
1962	388	7	395	31	7,170	5,261	858	13,290	4,821	11,590		
1963	341	6	347	33	7,622	5,320	1,116	14,058	5,277	12,620		
1964	332	6	337	34	7,047	4,666	1,225	12,938	5,812	13,841		
1965	**276**	**5**	**281**	**36**	**7,471**	**4,847**	**1,133**	**13,452**	**6,557**	**15,655**		
1966	290	4	294	41	8,465	5,040	1,066	14,570	7,337	17,605		
1967	246	4	250	41	8,881	5,626	1,173	15,680	7,954	19,002		
1968	224	4	228	44	9,181	5,809	1,204	16,194	9,189	21,923		
1969	196	3	199	47	8,544	5,208	1,376	15,128	10,473	25,017		
1970	**163**	**3**	**166**	**50**	**9,734**	**4,544**	**1,430**	**15,708**	**11,546**	**27,979**		
1971	150	3	153	49	9,511	4,541	1,441	15,492	12,053	29,140		
1972	139	2	142	55	9,638	4,118	1,599	15,355	13,037	31,381		
1973	168	2	170	52	10,185	2,949	1,499	14,633	14,697	35,185		
1974	238	2	240	48	9,134	2,245	1,413	12,793	14,752	35,968		
1975	**112**	**2**	**114**	**49**	**9,091**	**2,056**	**1,561**	**12,708**	**15,871**	**38,283**		
1976	153	2	154	52	9,450	2,288	1,665	13,403	17,156	41,326		
1977	150	2	151	49	10,240	1,899	1,662	13,801	18,198	43,944		
1978	75	1	76	54	9,089	1,592	1,492	12,173	18,669	45,674		
1979	67	1	68	51	13,058	2,302	1,361	16,721	18,717	45,170		
1980	**67**	**1**	**68**	**55**	**7,380**	**1,403**	**1,506**	**10,289**	**19,731**	**47,979**		
1981	45	1	46	51	5,572	919	1,391	7,882	20,579	49,044		
1982	85	1	86	48	5,035	1,048	1,309	7,393	20,343	48,862		
1983	88	1	89	47	5,396	1,182	1,557	8,135	21,588	51,719		
1984	100	2	102	51	5,534	987	1,835	8,356	21,711	50,418		
1985	**94**	**1**	**95**	**49**	**5,139**	**1,637**	**1,859**	**8,634**	**22,568**	**52,922**		
1986	85	1	86	52	6,494	1,255	1,588	9,337	25,235	57,859		
1987	113	1	114	55	6,639	1,249	1,824	9,713	26,875	61,249		
1988	101	2	103	59	6,971	1,214	1,854	10,039	28,192	63,666		
1989	68	1	68	62	6,286	1,110	2,209	9,604	29,223	65,550		
					Trillion Btu					Net Energy[4]		Total[4]
1960	**11.1**	**0.2**	**11.4**	**27.9**	**38.0**	**26.4**	**2.9**	**67.3**	**14.0**	**120.5**	**34.8**	**155.3**
1961	9.5	0.2	9.7	29.5	40.3	29.1	3.2	72.6	15.4	127.2	37.5	164.8
1962	9.6	0.2	9.8	32.3	41.8	29.8	3.4	75.0	16.4	133.6	39.5	173.1
1963	8.4	0.1	8.6	34.5	44.4	30.2	4.5	79.0	18.0	140.2	43.1	183.2
1964	8.2	0.1	8.3	35.5	41.1	26.5	4.9	72.4	19.8	136.1	47.2	183.3
1965	**6.8**	**0.1**	**6.9**	**37.4**	**43.5**	**27.5**	**4.5**	**75.5**	**22.4**	**142.3**	**53.4**	**195.7**
1966	7.1	0.1	7.2	41.9	49.3	28.6	4.3	82.2	25.0	156.3	60.1	216.4
1967	6.0	0.1	6.1	42.7	51.7	31.9	4.5	88.1	27.1	164.1	64.8	229.0
1968	5.5	0.1	5.6	44.9	53.5	32.9	4.6	91.0	31.4	172.9	74.8	247.7
1969	4.8	0.1	4.8	48.1	49.8	29.5	5.2	84.5	35.7	173.2	85.4	258.6
1970	**3.9**	**0.1**	**4.0**	**50.8**	**56.7**	**25.8**	**5.4**	**87.9**	**39.4**	**182.1**	**95.5**	**277.5**
1971	3.5	0.1	3.6	50.8	55.4	25.7	5.4	86.6	41.1	182.1	99.4	281.5
1972	3.3	0.1	3.3	56.8	56.1	23.3	6.0	85.5	44.5	190.1	107.1	297.2
1973	4.0	0.1	4.0	52.9	59.3	16.7	5.6	81.7	50.1	188.7	120.0	308.7
1974	5.5	*	5.6	49.2	53.2	12.7	5.3	71.2	50.3	176.3	122.7	299.0
1975	**2.6**	*	**2.7**	**49.7**	**53.0**	**11.7**	**5.8**	**70.4**	**54.2**	**176.9**	**130.6**	**307.6**
1976	3.6	*	3.7	53.5	55.0	13.0	6.2	74.2	58.5	189.9	141.0	330.9
1977	3.5	*	3.6	50.0	59.7	10.8	6.1	76.5	62.1	192.2	149.9	342.1
1978	1.8	*	1.8	55.3	52.9	9.0	5.5	67.4	63.7	188.2	155.8	344.1
1979	1.6	*	1.6	52.0	76.1	13.1	5.0	94.1	63.9	211.6	154.1	365.7
1980	**1.6**	*	**1.7**	**55.6**	**43.0**	**8.0**	**5.5**	**56.5**	**67.3**	**181.1**	**163.7**	**344.8**
1981	1.1	*	1.1	52.2	32.5	5.2	5.1	42.7	70.2	166.2	167.3	333.6
1982	2.1	*	2.1	49.5	29.3	5.9	4.7	40.0	69.4	161.0	166.7	327.8
1983	2.2	*	2.2	48.7	31.4	6.7	5.6	43.8	73.7	168.3	176.5	344.8
1984	2.5	*	2.5	53.3	32.2	5.6	6.6	44.4	74.1	174.3	172.0	346.3
1985	**2.3**	*	**2.4**	**50.7**	**29.9**	**9.3**	**6.7**	**45.9**	**77.0**	**175.9**	**180.6**	**356.5**
1986	2.1	*	2.2	53.6	37.8	7.1	5.8	50.7	86.1	192.5	197.4	390.0
1987	2.8	*	2.9	57.6	38.7	7.1	6.7	52.4	91.7	204.6	209.0	413.6
1988	2.5	*	2.6	60.9	40.6	6.9	6.8	54.3	96.2	214.0	217.2	431.2
1989	1.7	*	1.7	64.2	36.6	6.3	8.1	51.0	99.7	216.7	223.7	440.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 293. Commercial Energy Consumption Estimates, 1960-1989, Virginia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**835**	**6**	**841**	**11**	**1,388**	**93**	**130**	**223**	**175**	**2,009**	**3,676**	**9,143**		
1961	714	5	719	13	1,474	103	140	242	146	2,105	4,032	9,826		
1962	721	4	725	13	1,526	105	151	257	139	2,178	4,470	10,745		
1963	634	4	638	13	1,623	106	197	264	166	2,356	4,991	11,937		
1964	616	4	620	13	1,500	93	216	267	181	2,258	5,536	13,184		
1965	**512**	**3**	**515**	**15**	**1,591**	**97**	**200**	**275**	**211**	**2,373**	**6,192**	**14,784**		
1966	539	3	541	18	1,802	101	188	296	162	2,550	6,943	16,659		
1967	457	3	460	23	1,891	112	207	311	118	2,639	7,596	18,147		
1968	417	2	419	25	1,955	116	212	312	134	2,729	8,671	20,689		
1969	364	2	366	27	1,819	104	243	192	105	2,464	9,791	23,388		
1970	**303**	**2**	**305**	**30**	**2,072**	**91**	**252**	**210**	**118**	**2,744**	**10,804**	**26,181**		
1971	279	2	281	35	2,025	91	254	218	211	2,799	11,644	28,150		
1972	259	2	260	34	2,052	82	282	283	267	2,966	12,617	30,371		
1973	311	2	313	38	2,168	59	265	359	313	3,164	14,055	33,647		
1974	442	1	444	35	1,945	45	249	299	298	2,836	13,827	33,713		
1975	**208**	**1**	**209**	**32**	**1,935**	**41**	**275**	**310**	**245**	**2,807**	**14,014**	**33,802**		
1976	284	1	285	35	2,012	46	294	320	266	2,937	15,003	36,141		
1977	278	1	279	35	2,180	38	293	347	296	3,154	15,479	37,377		
1978	139	1	140	43	1,935	32	263	349	220	2,799	16,213	39,665		
1979	124	1	125	34	2,780	46	240	368	206	3,640	16,340	39,433		
1980	**124**	**1**	**125**	**38**	**1,634**	**46**	**266**	**371**	**443**	**2,759**	**16,970**	**41,265**		
1981	84	*	85	35	1,396	37	245	517	380	2,576	18,201	43,377		
1982	159	*	159	38	1,483	34	231	346	518	2,612	18,493	44,416		
1983	163	1	164	38	2,741	58	275	653	484	4,210	19,186	45,964		
1984	185	1	186	35	2,811	31	324	410	469	4,045	20,638	47,925		
1985	**175**	**1**	**176**	**34**	**2,460**	**97**	**328**	**456**	**308**	**3,649**	**21,496**	**50,409**		
1986	159	*	159	35	2,830	73	280	397	617	4,197	23,513	53,910		
1987	210	*	211	39	2,600	113	322	508	695	4,238	24,999	56,974		
1988	187	1	188	42	2,599	125	327	502	296	3,850	26,156	59,069		
1989	125	*	126	44	2,352	137	390	503	92	3,474	27,766	62,281		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**20.7**	**0.1**	**20.8**	**11.7**	**8.1**	**0.5**	**0.5**	**1.2**	**1.1**	**11.4**	**12.5**	**56.5**	**31.2**	**87.7**
1961	17.7	0.1	17.8	13.0	8.6	0.6	0.6	1.3	0.9	11.9	13.8	56.5	33.5	90.0
1962	17.8	0.1	18.0	13.5	8.9	0.6	0.6	1.3	0.9	12.3	15.3	59.0	36.7	95.7
1963	15.7	0.1	15.8	13.9	9.5	0.6	0.8	1.4	1.0	13.3	17.0	60.0	40.7	100.7
1964	15.2	0.1	15.3	13.9	8.7	0.5	0.9	1.4	1.1	12.7	18.9	60.8	45.0	105.7
1965	**12.6**	**0.1**	**12.7**	**15.3**	**9.3**	**0.5**	**0.8**	**1.4**	**1.3**	**13.4**	**21.1**	**62.5**	**50.4**	**112.9**
1966	13.2	0.1	13.3	18.7	10.5	0.6	0.8	1.6	1.0	14.4	23.7	70.1	56.8	126.9
1967	11.2	0.1	11.2	23.4	11.0	0.6	0.8	1.6	0.7	14.8	25.9	75.4	61.9	137.3
1968	10.2	0.1	10.2	25.4	11.4	0.7	0.8	1.6	0.8	15.3	29.6	80.5	70.6	151.1
1969	8.8	0.1	8.9	28.0	10.6	0.6	0.9	1.0	0.7	13.8	33.4	84.1	79.8	163.9
1970	**7.2**	*	**7.3**	**30.9**	**12.1**	**0.5**	**1.0**	**1.1**	**0.7**	**15.4**	**36.9**	**90.4**	**89.3**	**179.7**
1971	6.6	*	6.6	35.6	11.8	0.5	1.0	1.1	1.3	15.7	39.7	97.7	96.0	193.7
1972	6.1	*	6.1	35.0	12.0	0.5	1.1	1.5	1.7	16.6	43.1	100.8	103.6	204.5
1973	7.3	*	7.4	38.5	12.6	0.3	1.0	1.9	2.0	17.8	48.0	111.7	114.8	226.5
1974	10.3	*	10.3	36.0	11.3	0.3	0.9	1.6	1.9	16.0	47.2	109.5	115.0	224.5
1975	**4.9**	*	**4.9**	**33.0**	**11.3**	**0.2**	**1.0**	**1.6**	**1.5**	**15.7**	**47.8**	**101.4**	**115.3**	**216.7**
1976	6.8	*	6.8	35.5	11.7	0.3	1.1	1.7	1.7	16.4	51.2	109.9	123.3	233.3
1977	6.6	*	6.6	35.4	12.7	0.2	1.1	1.8	1.9	17.7	52.8	112.5	127.5	240.0
1978	3.3	*	3.3	43.9	11.3	0.2	1.0	1.8	1.4	15.6	55.3	118.1	135.3	253.5
1979	3.0	*	3.0	34.6	16.2	0.3	0.9	1.9	1.3	20.6	55.8	113.9	134.5	248.5
1980	**3.0**	*	**3.1**	**39.0**	**9.5**	**0.3**	**1.0**	**1.9**	**2.8**	**15.5**	**57.9**	**115.5**	**140.8**	**256.3**
1981	2.1	*	2.1	36.1	8.1	0.2	0.9	2.7	2.4	14.3	62.1	114.6	148.0	262.6
1982	3.9	*	3.9	39.1	8.6	0.2	0.8	1.8	3.3	14.7	63.1	120.9	151.5	272.4
1983	4.1	*	4.1	39.6	16.0	0.3	1.0	3.4	3.0	23.8	65.5	132.9	156.8	289.7
1984	4.6	*	4.6	36.1	16.4	0.2	1.2	2.0	2.0	22.0	70.7	133.5	165.5	297.5
1985	**4.3**	*	**4.4**	**35.3**	**14.3**	**0.5**	**1.2**	**2.4**	**1.9**	**20.4**	**73.3**	**133.4**	**172.0**	**305.4**
1986	4.0	*	4.0	36.9	16.5	0.4	1.0	2.1	3.9	23.9	80.2	145.0	183.9	328.9
1987	5.3	*	5.3	41.0	15.1	0.6	1.2	2.7	4.4	24.0	85.3	155.6	194.4	350.0
1988	4.7	*	4.7	43.7	15.1	0.7	1.2	2.6	1.9	21.5	89.2	159.3	201.5	360.8
1989	3.1	*	3.1	46.0	13.7	0.8	1.4	2.6	0.6	19.1	94.7	163.0	212.5	375.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 294. Industrial Energy Consumption Estimates, 1960–1989, Virginia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**4,468**	**35**	**4,503**	**22**	**1,753**	**2,133**	**291**	**275**	**182**	**882**	**5,739**	**1,276**	**12,533**	**79**	**3,786**	**9,418**		
1961	4,857	31	4,888	23	2,227	2,609	298	306	177	861	4,654	1,326	12,459	75	4,060	9,896		
1962	4,731	29	4,759	26	1,862	3,146	367	308	208	926	4,525	1,390	12,733	77	4,536	10,905		
1963	5,160	32	5,191	29	2,296	3,353	375	395	208	890	5,261	1,851	14,631	72	4,874	11,656		
1964	5,107	36	5,143	33	2,392	2,916	509	428	219	890	5,758	2,110	15,221	75	5,277	12,567		
1965	**5,792**	**32**	**5,824**	**36**	**2,681**	**2,977**	**600**	**301**	**236**	**838**	**6,754**	**2,026**	**16,413**	**87**	**5,834**	**13,929**		
1966	5,711	27	5,738	54	2,655	3,372	1,009	362	245	785	5,264	2,178	15,871	77	6,322	15,169		
1967	5,426	27	5,453	42	2,289	3,556	478	473	230	704	4,072	2,234	14,036	59	6,822	16,299		
1968	5,035	23	5,059	43	2,502	4,372	713	477	252	740	4,888	2,407	16,352	45	7,634	18,214		
1969	4,368	19	4,388	42	2,476	4,689	410	547	284	666	4,026	2,549	15,647	44	8,182	19,544		
1970	**4,156**	**16**	**4,172**	**45**	**2,250**	**4,415**	**395**	**682**	**289**	**653**	**4,170**	**2,599**	**15,454**	**41**	**7,467**	**18,095**		
1971	3,264	12	3,276	48	2,786	3,703	433	703	279	560	7,282	2,058	17,804	41	7,765	18,774		
1972	2,930	8	2,938	53	2,743	3,443	522	914	298	497	8,844	2,191	19,452	46	8,284	19,939		
1973	2,707	7	2,715	54	3,119	3,828	277	916	404	518	9,982	2,381	21,424	44	8,851	21,190		
1974	2,388	8	2,396	51	3,026	3,122	235	945	387	501	9,434	2,410	20,059	40	8,993	21,927		
1975	**2,806**	**10**	**2,816**	**37**	**2,328**	**3,128**	**167**	**1,184**	**307**	**460**	**7,611**	**2,320**	**17,504**	**38**	**9,437**	**22,764**		
1976	2,198	11	2,209	33	2,702	3,314	246	1,181	341	399	8,386	6,206	22,774	35	10,529	25,362		
1977	2,276	9	2,285	30	2,928	3,904	206	1,327	422	385	9,205	7,368	25,744	26	10,829	26,148		
1978	2,456	8	2,464	33	3,465	3,379	199	1,304	453	328	6,672	7,905	23,704	22	11,010	26,936		
1979	3,292	5	3,297	42	3,249	4,257	379	1,934	474	330	6,365	9,491	26,480	28	11,678	28,183		
1980	**3,529**	**9**	**3,538**	**55**	**2,618**	**3,573**	**267**	**1,312**	**422**	**278**	**5,203**	**10,015**	**23,688**	**27**	**11,637**	**28,297**		
1981	3,974	11	3,985	53	2,357	3,768	216	1,210	405	232	2,736	6,016	16,939	27	11,931	28,435		
1982	3,571	6	3,577	51	2,013	3,830	186	1,340	369	205	2,803	4,925	15,670	27	12,300	29,543		
1983	4,052	5	4,057	47	2,823	2,990	105	1,051	387	159	2,686	4,630	14,830	27	12,733	30,506		
1984	4,553	4	4,557	48	3,658	3,066	53	1,481	412	399	2,605	5,293	16,968	27	13,200	30,653		
1985	**4,214**	**5**	**4,219**	**51**	**4,033**	**3,035**	**94**	**1,604**	**384**	**686**	**2,369**	**4,915**	**17,120**	**27**	**13,561**	**31,801**		
1986	4,261	6	4,267	48	4,444	3,348	96	1,466	376	689	2,396	3,948	16,763	27	14,449	33,127		
1987	4,599	6	4,605	56	4,406	3,497	71	1,729	425	738	1,979	4,115	16,961	27	14,899	33,954		
1988	4,664	6	4,670	54	3,604	3,888	69	2,148	410	690	2,096	4,198	17,103	27	15,690	35,433		
1989	4,505	7	4,512	58	4,203	3,465	68	2,044	420	768	1,273	4,173	16,414	27	16,395	36,776		
					Trillion Btu													
1960	**114.0**	**0.9**	**114.9**	**23.3**	**11.6**	**12.4**	**1.6**	**1.1**	**1.1**	**4.6**	**36.1**	**7.6**	**76.2**	**0.8**	**12.9**	**228.1**	**32.1**	**260.3**
1961	123.6	0.8	124.4	24.0	14.8	15.2	1.7	1.2	1.1	4.5	29.3	7.9	75.6	0.8	13.9	238.7	33.8	272.5
1962	120.3	0.7	121.0	26.9	12.4	18.3	2.1	1.2	1.3	4.9	28.4	8.2	76.8	0.8	15.5	241.0	37.2	278.2
1963	131.0	0.8	131.8	29.8	15.2	19.5	2.1	1.6	1.3	4.7	33.1	10.7	88.2	0.8	16.6	267.2	39.8	306.9
1964	129.6	0.9	130.5	33.8	15.9	17.0	2.9	1.7	1.3	4.7	36.2	12.1	91.8	0.8	18.0	274.9	42.9	317.7
1965	**146.6**	**0.8**	**147.4**	**36.6**	**17.8**	**17.3**	**3.4**	**1.2**	**1.4**	**4.4**	**42.5**	**11.6**	**99.7**	**0.9**	**19.9**	**304.5**	**47.5**	**352.0**
1966	143.7	0.7	144.3	55.7	17.6	19.6	5.7	1.5	1.5	4.1	33.1	12.5	95.6	0.8	21.6	318.0	51.8	369.8
1967	135.3	0.6	135.9	43.4	15.2	20.7	2.7	1.8	1.4	3.7	25.6	12.7	83.8	0.6	23.3	287.0	55.6	342.6
1968	125.3	0.5	125.8	43.9	16.6	25.5	4.0	1.8	1.5	3.9	30.7	13.7	97.8	0.5	26.0	294.0	62.1	356.2
1969	107.4	0.4	107.8	43.8	16.4	27.3	2.3	2.1	1.7	3.5	25.3	14.5	93.2	0.5	27.9	273.2	66.7	339.9
1970	**98.9**	**0.4**	**99.3**	**46.0**	**14.9**	**25.7**	**2.2**	**2.6**	**1.8**	**3.4**	**26.2**	**14.8**	**91.7**	**0.4**	**25.5**	**262.8**	**61.7**	**324.6**
1971	76.6	0.3	76.9	49.8	18.5	21.6	2.5	2.7	1.7	2.9	45.8	11.8	107.4	0.4	26.5	261.0	64.1	325.0
1972	68.4	0.2	68.5	54.6	18.2	20.1	3.0	3.4	1.8	2.6	55.6	12.5	117.2	0.5	28.3	269.1	68.0	337.1
1973	63.3	0.2	63.5	54.9	20.7	22.3	1.6	3.4	2.5	2.7	62.8	13.7	129.6	0.5	30.2	278.6	72.3	350.9
1974	55.4	0.2	55.6	52.4	20.1	18.2	1.3	3.5	2.3	2.6	59.3	13.8	121.2	0.4	30.7	260.3	74.8	335.1
1975	**65.9**	**0.2**	**66.1**	**37.3**	**15.4**	**18.2**	**0.9**	**4.4**	**1.9**	**2.4**	**47.9**	**13.3**	**104.5**	**0.4**	**32.2**	**240.4**	**77.7**	**318.1**
1976	52.5	0.3	52.7	33.6	17.9	19.3	1.4	4.4	2.1	2.1	52.7	35.0	134.9	0.4	35.9	257.5	86.5	344.0
1977	54.4	0.2	54.6	30.9	19.4	22.7	1.2	4.9	2.6	2.0	57.9	41.8	152.4	0.3	36.9	275.2	89.2	364.5
1978	59.7	0.2	59.9	33.8	23.0	19.7	1.1	4.8	2.7	1.7	41.9	44.9	139.9	0.2	37.6	271.4	91.9	363.3
1979	81.2	0.1	81.4	42.3	21.6	24.8	2.1	7.1	2.9	1.7	40.0	53.1	153.3	0.3	39.8	317.1	96.2	413.3
1980	**87.9**	**0.2**	**88.1**	**55.4**	**17.4**	**20.8**	**1.5**	**4.8**	**2.6**	**1.5**	**32.7**	**55.5**	**136.7**	**0.3**	**39.7**	**320.2**	**96.6**	**416.8**
1981	98.5	0.3	98.7	53.8	15.6	21.9	1.2	4.4	2.5	1.2	17.2	33.2	97.3	0.3	40.7	290.9	97.0	387.9
1982	88.8	0.1	89.0	51.9	13.4	22.3	1.1	4.8	2.2	1.1	17.6	27.3	89.8	0.3	42.0	272.9	100.8	373.7
1983	102.6	0.1	102.7	48.0	18.7	17.4	0.6	3.8	2.3	0.8	16.9	26.0	86.6	0.3	43.4	281.0	104.1	385.1
1984	114.9	0.1	115.0	49.3	24.3	17.9	0.3	5.3	2.5	2.1	16.4	29.0	97.7	0.3	45.0	307.3	104.6	411.9
1985	**106.6**	**0.1**	**106.7**	**52.8**	**26.8**	**17.7**	**0.5**	**5.8**	**2.3**	**3.6**	**14.9**	**27.1**	**98.7**	**0.3**	**46.3**	**304.8**	**108.5**	**413.3**
1986	108.1	0.1	108.3	50.3	29.5	19.5	0.5	5.3	2.3	3.6	15.1	22.0	97.8	0.3	49.3	306.0	113.0	419.0
1987	116.9	0.2	117.1	58.2	29.2	20.4	0.4	6.3	2.6	3.9	12.4	22.8	98.0	0.3	50.8	324.4	115.9	440.3
1988	118.6	0.2	118.8	55.8	23.9	22.6	0.4	7.8	2.5	3.6	13.2	23.4	97.5	0.3	53.5	325.9	120.9	446.8
1989	114.2	0.2	114.4	60.6	27.9	20.2	0.4	7.5	2.5	4.0	8.0	23.2	93.8	0.3	55.9	325.0	125.5	450.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 295. Transportation Energy Consumption Estimates, 1960-1989, Virginia

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**79**	**4**	**382**	**4,099**	**4,441**	**7**	**451**	**29,972**	**11,780**	**51,134**	**0**		**0**	
1961	22	5	381	3,670	4,500	10	439	29,689	9,506	48,195	0		0	
1962	19	5	576	4,035	4,988	13	437	31,301	8,419	49,768	0		0	
1963	20	6	608	4,284	6,062	18	436	32,371	8,532	52,310	0		0	
1964	19	7	655	5,061	6,333	21	458	33,156	9,239	54,923	0		0	
1965	**19**	**7**	**721**	**6,564**	**6,504**	**24**	**428**	**34,992**	**9,645**	**58,877**	**0**		**0**	
1966	17	7	810	7,219	7,239	26	445	36,452	9,727	61,918	0		0	
1967	13	7	742	7,034	9,427	26	394	38,171	10,984	66,777	0		0	
1968	11	8	615	6,682	10,918	31	432	41,305	9,462	69,444	0		0	
1969	7	8	462	7,707	11,489	35	423	45,200	9,835	75,150	0		0	
1970	**7**	**8**	**356**	**7,698**	**11,093**	**47**	**430**	**47,821**	**12,000**	**79,446**	**0**		**0**	
1971	4	7	321	8,568	11,803	65	439	50,894	11,832	83,920	0		0	
1972	3	8	322	8,798	11,662	68	470	54,309	11,043	86,672	0		0	
1973	2	6	321	9,978	12,311	69	477	57,552	9,397	90,105	0		0	
1974	1	4	305	9,616	11,418	64	457	57,145	7,300	86,305	0		0	
1975	*	**3**	**251**	**8,217**	**11,602**	**57**	**427**	**58,524**	**6,356**	**85,436**	**0**		**0**	
1976	*	3	228	9,319	11,954	70	475	61,703	5,873	89,622	0		0	
1977	*	3	241	10,266	12,541	82	529	63,680	4,628	91,968	7		17	
1978	0	3	255	10,814	12,339	79	569	65,939	4,292	94,287	11		27	
1979	0	4	207	12,235	12,079	88	595	62,192	4,437	91,833	29		71	
1980	**0**	**8**	**218**	**11,219**	**12,279**	**47**	**530**	**58,386**	**4,419**	**87,098**	**31**		**75**	
1981	0	11	185	12,274	11,255	99	508	58,492	4,202	87,015	37		89	
1982	0	11	180	11,241	11,090	78	463	57,804	3,057	83,913	36		85	
1983	0	7	163	13,486	10,869	92	485	58,876	2,511	86,482	37		88	
1984	0	7	127	14,074	10,465	105	517	61,107	2,422	88,818	40		94	
1985	**0**	**4**	**131**	**14,278**	**11,038**	**79**	**482**	**61,822**	**3,511**	**91,341**	**55**		**129**	
1986	0	5	155	15,477	13,228	44	471	64,100	2,230	95,705	68		156	
1987	0	6	74	16,242	14,432	70	533	68,487	1,775	101,612	74		169	
1988	0	8	74	18,798	15,700	77	514	69,999	2,002	107,165	77		173	
1989	0	6	75	16,382	15,768	77	527	69,625	1,982	104,436	77		172	
							Trillion Btu							
1960	**2.0**	**4.1**	**1.9**	**23.9**	**24.0**	*	**2.7**	**157.4**	**74.1**	**284.1**	**0.0**	**290.2**	**0.0**	**290.2**
1961	0.6	4.9	1.9	21.4	24.4	*	2.7	156.0	59.8	266.1	0.0	271.5	0.0	271.5
1962	0.5	5.5	2.9	23.5	27.0	0.1	2.6	164.4	52.9	273.5	0.0	279.5	0.0	279.5
1963	0.5	6.2	3.1	25.0	33.1	0.1	2.6	170.0	53.6	287.5	0.0	294.2	0.0	294.2
1964	0.5	6.8	3.3	29.5	34.6	0.1	2.8	174.2	58.1	302.5	0.0	309.8	0.0	309.8
1965	**0.5**	**7.0**	**3.6**	**38.2**	**35.8**	**0.1**	**2.6**	**183.8**	**60.6**	**324.8**	**0.0**	**332.2**	**0.0**	**332.2**
1966	0.4	7.1	4.1	42.0	39.9	0.1	2.7	191.5	61.2	341.5	0.0	349.1	0.0	349.1
1967	0.3	7.2	3.7	41.0	52.2	0.1	2.4	200.5	69.1	369.0	0.0	376.5	0.0	376.5
1968	0.3	7.9	3.1	38.9	60.5	0.1	2.6	217.0	59.5	381.7	0.0	389.9	0.0	389.9
1969	0.2	8.2	2.3	44.9	63.9	0.1	2.6	237.4	61.8	413.1	0.0	421.5	0.0	421.5
1970	**0.2**	**8.0**	**1.8**	**44.8**	**61.9**	**0.2**	**2.6**	**251.2**	**75.4**	**438.0**	**0.0**	**446.1**	**0.0**	**446.1**
1971	0.1	7.3	1.6	49.9	65.9	0.2	2.7	267.3	74.4	462.0	0.0	469.5	0.0	469.5
1972	0.1	8.5	1.6	51.2	65.1	0.3	2.8	285.3	69.4	475.8	0.0	484.4	0.0	484.4
1973	*	6.0	1.6	58.1	68.9	0.3	2.9	302.3	59.1	493.2	0.0	499.2	0.0	499.2
1974	*	4.3	1.5	56.0	63.8	0.2	2.8	300.2	45.9	470.5	0.0	474.8	0.0	474.8
1975	*	**3.1**	**1.3**	**47.9**	**64.9**	**0.2**	**2.6**	**307.4**	**40.0**	**464.3**	**0.0**	**467.4**	**0.0**	**467.4**
1976	*	2.8	1.2	54.3	67.0	0.3	2.9	324.1	36.9	486.6	0.0	489.4	0.0	489.4
1977	*	2.8	1.2	59.8	70.3	0.3	3.2	334.5	29.1	498.4	*	501.2	0.1	501.3
1978	0.0	2.7	1.3	63.0	69.1	0.3	3.4	346.4	27.0	510.5	*	513.3	0.1	513.4
1979	0.0	4.1	1.0	71.3	67.6	0.3	3.6	326.7	27.9	498.5	0.1	502.7	0.2	502.9
1980	**0.0**	**8.4**	**1.1**	**65.3**	**68.8**	**0.2**	**3.2**	**306.7**	**27.8**	**473.1**	**0.1**	**481.6**	**0.3**	**481.8**
1981	0.0	11.0	0.9	71.5	62.9	0.4	3.1	307.3	26.4	472.5	0.1	483.5	0.3	483.9
1982	0.0	11.2	0.9	65.5	61.9	0.3	2.8	303.6	19.2	454.2	0.1	465.6	0.3	465.9
1983	0.0	7.4	0.8	78.6	60.8	0.3	2.9	309.3	15.8	468.6	0.1	476.1	0.3	476.4
1984	0.0	6.8	0.6	82.0	58.4	0.4	3.1	321.0	15.2	480.7	0.1	487.7	0.3	488.0
1985	**0.0**	**4.6**	**0.7**	**83.2**	**61.7**	**0.3**	**2.9**	**324.7**	**22.1**	**495.5**	**0.2**	**500.3**	**0.4**	**500.7**
1986	0.0	5.1	0.8	90.2	74.1	0.2	2.9	336.7	14.0	518.7	0.2	524.0	0.5	[illegible]
1987	0.0	6.6	0.4	94.6	80.9	0.3	3.2	359.8	11.2	550.3	0.3	557.1	0.6	557.7
1988	0.0	8.6	0.4	109.5	87.9	0.3	3.1	367.7	12.6	581.5	0.3	590.3	0.6	590.9
1989	0.0	6.1	0.4	95.4	88.3	0.3	3.2	365.7	12.5	565.7	0.3	572.1	0.6	572.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 296. Estimates of Energy Input at Electric Utilities, 1960-1989, Virginia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**6,262**	**0**	**6,262**	**1**	**130**	**6**	**0**	**136**	**0**	**1,189**	**0**	**0**	
1961	6,577	0	6,577	2	141	6	0	147	0	1,108	0	0	
1962	7,390	0	7,390	2	177	8	0	185	0	1,186	0	0	
1963	7,669	0	7,669	2	167	7	0	174	0	803	0	0	
1964	8,103	0	8,103	2	207	9	0	215	0	784	0	0	
1965	**8,265**	**0**	**8,265**	**2**	**170**	**7**	**0**	**178**	**0**	**797**	**0**	**0**	
1966	8,496	0	8,496	2	216	9	0	225	0	686	0	0	
1967	8,349	0	8,349	2	280	12	0	292	0	747	0	0	
1968	9,330	0	9,330	3	355	15	0	370	0	740	0	0	
1969	8,129	0	8,129	4	9,023	386	0	9,409	0	661	0	0	
1970	**6,644**	**0**	**6,644**	**4**	**17,085**	**721**	**856**	**18,662**	**0**	**650**	**0**	**0**	
1971	5,764	0	5,764	4	21,203	570	820	22,593	0	1,082	0	0	
1972	4,880	0	4,880	5	24,625	1,144	1,046	26,815	448	1,362	0	0	
1973	4,951	0	4,951	4	25,121	944	280	26,345	6,857	1,274	0	0	
1974	4,469	0	4,469	5	26,863	1,547	0	28,410	5,953	1,045	0	0	
1975	**3,991**	**0**	**3,991**	*****	**26,741**	**624**	**0**	**27,364**	**8,970**	**1,273**	**0**	**0**	
1976	5,669	0	5,669	*	24,948	1,006	0	25,954	7,740	853	0	0	
1977	5,019	0	5,019	1	27,173	1,593	0	28,766	9,481	687	0	0	
1978	4,320	0	4,320	1	26,522	1,092	0	27,614	14,098	1,264	0	0	
1979	5,162	0	5,162	4	24,298	726	0	25,025	7,056	1,515	0	0	
1980	**5,560**	**0**	**5,560**	**2**	**14,586**	**793**	**0**	**15,379**	**11,466**	**864**	**0**	**0**	
1981	6,550	0	6,550	2	6,272	604	0	6,876	17,818	338	0	0	
1982	6,596	0	6,596	3	2,999	325	0	3,324	17,420	913	0	0	
1983	6,577	0	6,577	3	2,447	278	0	2,724	18,674	1,182	0	0	
1984	7,323	0	7,323	3	2,316	310	0	2,626	17,045	1,154	0	0	
1985	**7,166**	**0**	**7,166**	**2**	**1,301**	**340**	**0**	**1,641**	**22,303**	**818**	**0**	**0**	
1986	7,345	0	7,345	1	4,635	275	0	4,909	21,215	47	0	0	
1987	8,297	0	8,297	2	4,276	323	0	4,599	18,145	807	0	0	
1988	8,469	0	8,469	1	4,021	336	0	4,357	21,037	-218	0	*	
1989	9,573	0	9,573	4	6,192	594	0	6,786	14,264	401	0	*	
	Trillion Btu												
1960	**167.4**	**0.0**	**167.4**	**1.5**	**0.8**	*****	**0.0**	**0.9**	**0.0**	**12.8**	**0.0**	**0.0**	**182.5**
1961	175.6	0.0	175.6	1.7	0.9	*	0.0	0.9	0.0	11.8	0.0	0.0	190.0
1962	196.3	0.0	196.3	1.6	1.1	*	0.0	1.2	0.0	12.5	0.0	0.0	211.6
1963	203.5	0.0	203.5	1.8	1.0	*	0.0	1.1	0.0	8.4	0.0	0.0	214.8
1964	215.7	0.0	215.7	2.0	1.3	0.1	0.0	1.4	0.0	8.2	0.0	0.0	227.3
1965	**218.8**	**0.0**	**218.8**	**2.3**	**1.1**	*****	**0.0**	**1.1**	**0.0**	**8.3**	**0.0**	**0.0**	**230.6**
1966	221.1	0.0	221.1	1.8	1.4	0.1	0.0	1.4	0.0	7.1	0.0	0.0	231.4
1967	216.4	0.0	216.4	2.6	1.8	0.1	0.0	1.8	0.0	7.8	0.0	0.0	228.6
1968	241.9	0.0	241.9	3.6	2.2	0.1	0.0	2.3	0.0	7.7	0.0	0.0	255.5
1969	207.0	0.0	207.0	4.6	56.7	2.2	0.0	59.0	0.0	6.9	0.0	0.0	277.5
1970	**164.6**	**0.0**	**164.6**	**4.4**	**107.4**	**4.2**	**5.2**	**116.8**	**0.0**	**6.8**	**0.0**	**0.0**	**292.6**
1971	143.0	0.0	143.0	4.3	133.3	3.3	4.9	141.6	0.0	11.3	0.0	0.0	300.2
1972	120.8	0.0	120.8	4.8	154.8	6.7	6.3	167.8	4.8	14.1	0.0	0.0	312.4
1973	121.0	0.0	121.0	4.4	157.9	5.5	1.7	165.1	74.8	13.2	0.0	0.0	378.6
1974	105.5	0.0	105.5	4.9	168.9	9.0	0.0	177.9	66.4	10.9	0.0	0.0	365.6
1975	**95.5**	**0.0**	**95.5**	**0.5**	**168.1**	**3.6**	**0.0**	**171.8**	**98.8**	**13.2**	**0.0**	**0.0**	**379.8**
1976	139.0	0.0	139.0	0.5	156.9	5.9	0.0	162.7	85.5	8.8	0.0	0.0	396.6
1977	122.2	0.0	122.2	1.6	170.8	9.3	0.0	180.1	102.1	7.2	0.0	0.0	413.2
1978	105.6	0.0	105.6	1.2	166.7	6.4	0.0	173.1	154.2	13.1	0.0	0.0	447.3
1979	127.8	0.0	127.8	3.9	152.8	4.2	0.0	157.0	76.8	15.7	0.0	0.0	381.1
1980	**139.1**	**0.0**	**139.1**	**2.5**	**91.7**	**4.6**	**0.0**	**96.3**	**125.1**	**9.0**	**0.0**	**0.0**	**372.0**
1981	162.4	0.0	162.4	2.4	39.4	3.5	0.0	43.0	196.5	3.5	0.0	0.0	407.8
1982	164.7	0.0	164.7	3.3	18.9	1.9	0.0	20.7	192.9	9.5	0.0	0.0	391.2
1983	166.5	0.0	166.5	3.5	15.4	1.6	0.0	17.0	203.6	12.4	0.0	0.0	403.1
1984	184.9	0.0	184.9	3.3	14.6	1.8	0.0	16.4	184.8	11.9	0.0	0.0	401.2
1985	**183.6**	**0.0**	**183.6**	**1.6**	**8.2**	**2.0**	**0.0**	**10.2**	**241.2**	**8.5**	**0.0**	**0.0**	**445.0**
1986	188.8	0.0	188.8	0.9	29.1	1.6	0.0	30.7	229.1	0.5	0.0	0.0	450.0
1987	212.7	0.0	212.7	1.8	26.9	1.9	0.0	28.8	195.5	8.3	0.0	0.0	447.0
1988	216.8	0.0	216.8	1.2	25.3	2.0	0.0	27.2	226.0	-2.2	0.0	*	469.0
1989	243.0	0.0	243.0	4.0	38.9	3.5	0.0	42.4	153.0	4.1	0.0	*	446.5

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 297. Energy Consumption Estimates by Source, 1960-1989, Washington

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours				
1960	608	65	1,309	2,161	18,123	4,502	105	548	571	23,076	9,300	3,656	63,351	0	34,299	0	1	-17,081
1961	630	70	1,397	2,190	17,633	4,750	49	519	556	23,917	7,567	5,979	64,556	0	37,362	0	2	-24,427
1962	622	81	1,518	917	17,141	5,745	43	930	562	25,311	7,612	6,688	66,466	0	39,512	0	2	-26,138
1963	526	87	1,656	895	16,770	6,113	39	1,012	562	25,348	7,668	7,449	67,511	0	43,119	0	1	-29,331
1964	473	106	1,521	726	18,053	6,607	23	1,137	590	25,679	8,774	6,876	69,985	0	47,007	0	2	-33,386
1965	488	108	1,683	434	17,116	6,919	34	1,227	597	26,906	9,140	8,028	72,084	0	48,814	0	0	-33,455
1966	451	117	2,231	532	17,597	7,472	30	1,113	621	29,149	9,867	8,089	76,700	989	52,815	0	0	-40,325
1967	336	127	2,095	460	16,150	9,429	26	1,329	596	30,968	9,696	9,173	79,921	2,015	57,810	0	0	-49,351
1968	283	139	2,248	433	17,796	10,715	72	1,369	654	33,241	11,950	10,011	88,489	3,903	63,535	0	0	-63,169
1969	289	145	2,330	358	18,144	11,177	28	1,525	654	34,683	11,264	11,645	91,809	3,667	67,745	0	0	-57,379
1970	245	150	2,335	351	18,201	10,637	239	1,659	666	36,068	10,384	9,732	90,272	2,614	70,142	0	*	-60,750
1971	272	157	2,364	223	18,642	11,721	240	1,659	516	36,788	9,482	11,039	92,673	2,553	71,884	0	0	-63,931
1972	2,179	170	2,983	305	19,374	10,680	148	1,368	553	38,036	11,824	13,039	98,309	2,919	76,883	0	0	-59,753
1973	3,924	198	3,343	307	20,242	11,762	110	1,164	611	39,861	11,306	12,325	101,029	4,432	73,835	0	0	-65,886
1974	3,213	183	2,758	313	16,859	12,312	345	1,147	585	39,752	10,180	11,215	95,466	3,889	84,903	0	0	-82,488
1975	4,492	164	2,910	274	16,971	14,037	346	763	620	41,007	8,459	11,872	97,260	3,308	85,438	0	0	-95,363
1976	4,794	149	3,303	270	18,680	12,990	400	813	689	43,311	7,411	11,276	99,143	2,405	95,061	0	0	-107,920
1977	6,068	143	3,044	294	20,281	12,093	599	957	702	45,412	9,622	13,324	106,327	4,315	71,612	0	0	-57,023
1978	4,973	127	3,127	315	21,243	11,480	669	1,300	754	47,438	11,455	12,360	110,142	4,140	91,370	0	0	-85,287
1979	5,860	159	3,197	299	21,716	12,715	258	1,522	789	45,399	12,856	10,620	109,371	3,613	79,509	0	0	-44,536
1980	5,443	129	2,050	356	18,471	12,036	120	1,487	703	42,653	17,277	9,830	104,982	2,041	83,971	0	0	-46,955
1981	5,448	125	1,800	305	17,617	12,081	748	1,565	674	43,029	16,346	11,639	105,803	2,042	102,382	0	0	-69,437
1982	4,393	109	1,792	229	18,159	12,800	192	1,706	615	43,197	13,521	10,821	103,032	3,631	91,758	0	0	-53,847
1983	4,794	107	2,310	200	16,302	12,830	1,602	1,705	644	44,713	4,936	9,119	94,362	3,494	87,947	0	47	-43,261
1984	4,926	126	2,626	175	18,194	15,646	1,158	2,296	686	46,140	5,105	10,608	102,634	5,313	89,861	0	131	-50,800
1985	5,616	135	2,039	202	20,360	15,417	1,276	2,618	640	44,009	8,294	10,534	105,388	8,038	77,956	0	282	-31,496
1986	3,790	118	2,404	228	23,283	17,073	245	2,833	625	46,951	16,428	10,276	120,346	8,439	76,638	0	191	-25,068
1987	5,819	132	2,268	275	21,226	18,596	279	3,439	707	51,133	11,125	14,504	123,552	5,528	70,964	0	348	-4,642
1988	5,929	147	1,921	214	21,091	20,647	1,308	2,855	682	50,765	11,823	15,929	127,235	6,000	69,053	0	383	22,310
1989	5,843	163	2,612	188	21,037	20,592	1,169	3,626	699	53,788	14,085	17,568	135,364	6,118	70,636	0	376	17,996

Trillion Btu

Year	Coal	Natural Gas	Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power	Geothermal Energy	Other	Net Interstate Flow of Electricity/Losses	Total[7]
1960	15.2	67.2	8.7	10.9	105.6	24.4	0.6	2.2	3.5	121.2	58.5	22.0	357.5	0.0	369.1	0.0	*	-58.3	750.7
1961	15.7	72.8	9.3	11.1	102.7	25.8	0.3	2.1	3.4	125.6	47.6	36.0	363.7	0.0	397.9	0.0	*	-83.3	766.8
1962	15.7	84.3	10.1	4.6	99.8	31.3	0.2	3.7	3.4	133.0	47.9	40.2	374.3	0.0	417.2	0.0	*	-89.2	802.3
1963	13.2	93.4	11.0	4.5	97.7	33.4	0.2	4.1	3.4	133.2	48.2	44.8	380.5	0.0	452.0	0.0	*	-100.1	839.0
1964	11.8	113.9	10.1	3.7	105.2	36.2	0.1	4.6	3.6	134.9	55.2	41.2	394.6	0.0	491.8	0.0	*	-113.9	898.3
1965	12.1	116.2	11.2	2.2	99.7	38.2	0.2	4.9	3.6	141.3	57.5	48.1	406.9	0.0	510.3	0.0	0.0	-114.1	931.4
1966	11.1	124.8	14.8	2.7	102.5	41.3	0.2	4.5	3.8	153.1	62.0	48.4	433.3	11.5	550.1	0.0	0.0	-137.6	993.2
1967	8.3	135.2	13.9	2.3	94.1	52.2	0.1	5.1	3.6	162.7	61.0	55.0	450.0	23.3	603.1	0.0	0.0	-168.4	1,051.5
1968	7.0	148.1	14.9	2.2	103.7	59.4	0.4	5.2	4.0	174.6	75.1	60.0	499.5	44.1	660.6	0.0	0.0	-215.5	1,143.8
1969	7.1	153.5	15.5	1.8	105.7	62.2	0.2	5.8	4.0	182.2	70.8	69.9	517.9	40.5	707.7	0.0	0.0	-195.8	1,230.9
1970	5.9	158.2	15.5	1.8	106.0	59.3	1.4	6.3	4.0	189.5	65.3	58.3	507.4	28.7	736.1	0.0	*	-207.3	1,228.9
1971	6.4	165.3	15.7	1.1	108.6	65.4	1.4	6.3	3.1	193.2	59.6	66.2	520.7	27.7	753.2	0.0	0.0	-218.1	1,255.1
1972	36.6	179.8	19.8	1.5	112.9	59.6	0.8	5.1	3.4	199.8	74.3	78.3	555.5	31.5	798.0	0.0	0.0	-203.9	1,397.5
1973	65.0	208.0	22.2	1.5	117.9	65.8	0.6	4.4	3.7	209.4	71.1	74.0	570.6	48.3	767.1	0.0	0.0	-224.8	1,434.1
1974	54.2	191.3	18.3	1.6	98.2	68.9	2.0	4.3	3.6	208.8	64.0	67.3	536.9	43.4	886.6	0.0	0.0	-281.4	1,430.9
1975	76.2	171.2	19.3	1.4	98.9	78.8	2.0	2.8	3.8	215.4	53.2	71.3	546.7	36.4	889.1	0.0	0.0	-325.4	1,394.3
1976	81.2	154.9	21.9	1.4	108.8	72.9	2.3	3.0	4.2	227.5	46.6	67.6	556.1	26.6	986.1	0.0	0.0	-368.2	1,436.6
1977	102.4	149.1	20.2	1.5	118.1	67.7	3.4	3.5	4.3	238.5	60.5	79.9	597.7	46.5	747.3	0.0	0.0	-194.6	1,448.3
1978	84.7	133.3	20.8	1.6	123.7	64.3	3.8	4.8	4.6	249.2	72.0	74.1	618.8	45.3	946.7	0.0	0.0	-291.0	1,537.9
1979	99.0	165.9	21.2	1.5	126.5	71.4	1.5	5.6	4.8	238.5	80.8	63.6	615.3	39.3	823.2	0.0	0.0	-152.0	1,590.8
1980	91.0	135.5	13.6	1.8	107.6	67.5	0.7	5.5	4.3	224.1	108.6	58.8	592.4	22.3	872.3	0.0	0.0	-160.2	1,553.2
1981	90.9	131.2	11.9	1.5	102.6	67.8	4.2	5.7	4.1	226.0	102.8	70.9	597.7	22.5	1,070.2	0.0	0.0	-236.9	1,675.5
1982	74.1	114.4	11.9	1.2	105.8	71.9	1.1	6.2	3.7	226.9	85.0	66.0	579.6	40.2	959.2	0.0	0.0	-183.7	1,583.8
1983	80.2	111.8	15.3	1.0	95.0	72.1	9.1	6.2	3.9	234.9	31.0	55.3	523.8	38.1	925.2	0.0	0.5	-147.6	1,532.0
1984	82.3	132.0	17.4	0.9	106.0	87.9	6.6	8.3	4.2	242.4	32.1	64.1	569.8	57.6	927.6	0.0	1.4	-173.3	1,597.3
1985	93.7	140.0	13.5	1.0	118.6	86.6	7.2	9.4	3.9	231.2	52.1	64.3	587.9	86.9	806.0	0.0	2.9	-107.5	1,609.9
1986	[illegible]	[illegible]	[illegible]	1.2	[illegible]	[illegible]	1.4	[illegible]	3.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0	2.0	-85.5	1,656.4
1987	95.7	136.1	15.1	1.4	123.6	104.7	1.6	12.6	4.3	268.6	69.9	88.0	689.8	59.6	727.6	0.0	3.6	-15.8	1,696.5
1988	99.1	150.6	12.7	1.1	122.9	116.3	7.4	10.4	4.1	266.7	74.3	96.2	712.2	64.5	706.8	0.0	3.9	76.1	1,813.1
1989	96.9	168.0	17.3	1.0	122.5	116.0	6.6	13.4	4.2	282.5	88.6	105.7	757.8	65.6	729.7	0.0	3.9	61.4	1,883.4

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 298. Residential Energy Consumption Estimates, 1960–1989, Washington

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**63**	**0**	**63**	**8**	**7,303**	**0**	**347**	**7,650**	**8,755**	**21,776**		
1961	71	0	71	9	7,112	9	381	7,502	9,110	22,202		
1962	54	0	54	10	6,621	10	705	7,336	9,760	23,465		
1963	47	0	47	13	6,578	4	740	7,322	10,105	24,166		
1964	45	0	45	17	7,087	8	816	7,910	10,707	25,499		
1965	**51**	**0**	**51**	**17**	**6,495**	**9**	**894**	**7,399**	**11,015**	**26,298**		
1966	47	0	47	20	6,827	16	791	7,633	11,660	27,977		
1967	33	0	33	23	5,988	16	961	6,965	12,236	29,232		
1968	24	0	24	26	6,687	52	984	7,722	13,428	32,038		
1969	23	0	23	30	6,806	15	1,111	7,932	14,823	35,407		
1970	**12**	**0**	**12**	**32**	**7,035**	**115**	**1,145**	**8,296**	**15,355**	**37,209**		
1971	17	0	17	34	6,964	146	1,152	8,263	16,521	39,943		
1972	11	0	11	39	6,658	100	877	7,634	18,945	45,601		
1973	6	0	6	36	6,258	79	766	7,104	19,254	46,094		
1974	5	0	5	36	4,890	229	688	5,807	19,397	47,294		
1975	**7**	**0**	**7**	**34**	**4,806**	**203**	**404**	**5,413**	**19,209**	**46,334**		
1976	8	0	8	32	4,963	272	412	5,647	20,311	48,926		
1977	47	0	47	31	5,476	335	478	6,290	20,630	49,815		
1978	64	0	64	27	5,355	354	525	6,235	21,920	53,627		
1979	46	0	46	33	4,843	135	567	5,545	24,006	57,934		
1980	**56**	**0**	**56**	**30**	**3,422**	**65**	**626**	**4,113**	**24,445**	**59,442**		
1981	42	0	42	27	3,000	535	680	4,215	28,475	67,865		
1982	58	0	58	29	3,247	72	692	4,012	29,157	70,030		
1983	77	0	77	26	2,693	45	818	3,556	27,266	65,323		
1984	73	0	73	29	3,044	74	538	3,656	26,725	62,059		
1985	**76**	**0**	**76**	**33**	**3,095**	**90**	**617**	**3,803**	**27,933**	**65,502**		
1986	31	0	31	30	3,071	16	541	3,628	26,503	60,765		
1987	18	0	18	30	3,029	13	746	3,788	25,773	58,737		
1988	41	0	41	35	3,025	82	565	3,671	27,203	61,433		
1989	32	0	32	38	2,744	89	605	3,439	28,653	64,271		
										Net Energy[4]		Total[4]
	Trillion Btu											
1960	**1.4**	**0.0**	**1.4**	**8.3**	**42.5**	**0.0**	**1.4**	**43.9**	**29.9**	**83.5**	**74.3**	**157.8**
1961	1.6	0.0	1.6	8.8	41.4	*	1.5	43.0	31.1	84.5	75.8	160.3
1962	1.2	0.0	1.2	10.3	38.6	0.1	2.8	41.5	33.3	86.3	80.1	166.3
1963	1.1	0.0	1.1	13.5	38.3	*	3.0	41.3	34.5	90.4	82.5	172.8
1964	1.0	0.0	1.0	18.6	41.3	*	3.3	44.6	36.5	100.8	87.0	187.8
1965	**1.2**	**0.0**	**1.2**	**18.7**	**37.8**	**0.1**	**3.6**	**41.5**	**37.6**	**98.9**	**89.7**	**188.6**
1966	1.1	0.0	1.1	21.9	39.8	0.1	3.2	43.0	39.8	105.7	95.5	201.2
1967	0.7	0.0	0.7	24.6	34.9	0.1	3.7	38.7	41.7	105.8	99.7	205.5
1968	0.5	0.0	0.5	28.0	39.0	0.3	3.8	43.0	45.8	117.3	109.3	226.6
1969	0.5	0.0	0.5	32.4	39.6	0.1	4.2	44.0	50.6	127.4	120.8	248.2
1970	**0.3**	**0.0**	**0.3**	**33.7**	**41.0**	**0.7**	**4.3**	**46.0**	**52.4**	**132.3**	**127.0**	**259.3**
1971	0.4	0.0	0.4	35.8	40.6	0.8	4.3	45.7	56.4	138.3	136.3	274.6
1972	0.2	0.0	0.2	40.8	38.8	0.6	3.3	42.6	64.6	148.3	155.6	303.9
1973	0.1	0.0	0.1	38.3	36.5	0.4	2.9	39.8	65.7	143.9	157.3	301.2
1974	0.1	0.0	0.1	37.2	28.5	1.3	2.6	32.3	66.2	135.8	161.4	297.2
1975	**0.1**	**0.0**	**0.1**	**35.8**	**28.0**	**1.1**	**1.5**	**30.6**	**65.5**	**132.1**	**158.1**	**290.2**
1976	0.2	0.0	0.2	33.7	28.9	1.5	1.5	32.0	69.3	135.1	166.9	302.0
1977	1.0	0.0	1.0	31.9	31.9	1.9	1.8	35.6	70.4	138.9	170.0	308.9
1978	1.4	0.0	1.4	28.7	31.2	2.0	1.9	35.1	74.8	140.1	183.0	323.0
1979	1.0	0.0	1.0	34.4	28.2	0.8	2.1	31.1	81.9	148.4	197.7	346.0
1980	**1.3**	**0.0**	**1.3**	**31.3**	**19.9**	**0.4**	**2.3**	**22.6**	**83.4**	**138.6**	**202.8**	**341.4**
1981	1.0	0.0	1.0	28.2	17.5	3.0	2.5	23.0	97.2	149.3	231.6	380.9
1982	1.3	0.0	1.3	30.7	18.9	0.4	2.5	21.8	99.5	153.3	238.9	392.3
1983	1.8	0.0	1.8	27.1	15.7	0.3	3.0	18.9	93.0	140.8	222.9	363.7
1984	1.7	0.0	1.7	30.6	17.7	0.4	1.9	20.1	91.2	143.5	211.7	355.2
1985	**1.8**	**0.0**	**1.8**	**34.3**	**18.0**	**0.5**	**2.2**	**20.8**	**95.3**	**152.2**	**223.5**	**375.7**
1986	0.7	0.0	0.7	31.1	17.9	0.1	2.0	19.9	90.4	142.2	207.3	349.5
1987	0.4	0.0	0.4	30.8	17.6	0.1	2.7	20.4	87.9	139.6	200.4	340.0
1988	0.9	0.0	0.9	35.9	17.6	0.5	2.1	20.1	92.8	149.7	209.6	359.4
1989	0.7	0.0	0.7	39.6	16.0	0.5	2.2	18.7	97.8	156.8	219.3	376.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 299. Commercial Energy Consumption Estimates, 1960–1989, Washington

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**117**	**0**	**117**	**6**	**2,308**	**0**	**61**	**222**	**441**	**3,032**	**3,220**	**8,010**		
1961	132	0	132	7	2,248	1	67	230	364	2,910	3,346	8,155		
1962	100	0	100	8	2,093	1	124	242	362	2,822	3,645	8,762		
1963	87	0	87	8	2,079	*	131	249	350	2,809	3,853	9,213		
1964	84	0	84	12	2,240	1	144	251	408	3,044	4,057	9,662		
1965	**95**	**0**	**95**	**11**	**2,053**	**1**	**158**	**255**	**412**	**2,880**	**4,380**	**10,457**		
1966	87	0	87	13	2,158	2	140	268	419	2,986	4,818	11,560		
1967	61	0	61	15	1,892	2	170	271	385	2,720	5,179	12,373		
1968	44	0	44	16	2,113	6	174	294	426	3,013	5,660	13,504		
1969	44	0	44	17	2,151	2	196	293	435	3,077	6,323	15,104		
1970	**23**	**0**	**23**	**18**	**2,224**	**15**	**202**	**304**	**481**	**3,226**	**6,724**	**16,294**		
1971	31	0	31	21	2,201	18	203	317	485	3,225	7,244	17,512		
1972	21	0	21	23	2,104	13	155	319	599	3,190	9,667	23,270		
1973	12	0	12	32	1,978	10	135	331	574	3,028	10,310	24,683		
1974	9	0	9	33	1,545	29	121	370	540	2,606	10,056	24,519		
1975	**13**	**0**	**13**	**32**	**1,519**	**26**	**71**	**374**	**355**	**2,345**	**10,377**	**25,030**		
1976	15	0	15	32	1,569	34	73	401	249	2,325	11,070	26,666		
1977	87	0	87	30	1,731	42	84	380	334	2,572	11,059	26,704		
1978	118	0	118	25	1,692	45	93	421	330	2,581	12,072	29,533		
1979	85	0	85	33	1,531	17	100	363	159	2,170	12,936	31,220		
1980	**105**	**0**	**105**	**31**	**1,073**	**18**	**111**	**478**	**426**	**2,105**	**13,845**	**33,667**		
1981	79	0	79	29	744	18	120	430	762	2,074	17,841	42,521		
1982	109	0	109	31	1,990	18	122	472	921	3,523	18,144	43,580		
1983	143	0	143	29	1,726	370	144	509	623	3,372	18,248	43,718		
1984	136	0	136	32	1,950	258	95	283	593	3,180	18,001	41,801		
1985	**140**	**0**	**140**	**35**	**4,272**	**217**	**109**	**357**	**244**	**5,198**	**18,966**	**44,476**		
1986	57	0	57	32	2,419	17	95	309	108	2,948	18,817	43,143		
1987	34	0	34	32	2,331	262	132	314	23	3,060	19,700	44,898		
1988	75	0	75	37	2,644	1,203	100	279	85	4,310	20,708	46,766		
1989	59	0	59	39	1,708	1,068	107	260	84	3,226	20,640	46,298		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**2.7**	**0.0**	**2.7**	**6.7**	**13.4**	**0.0**	**0.2**	**1.2**	**2.8**	**17.6**	**11.0**	**38.0**	**27.3**	**65.3**
1961	3.0	0.0	3.0	7.2	13.1	*	0.3	1.2	2.3	16.9	11.4	38.5	27.8	66.4
1962	2.3	0.0	2.3	8.2	12.2	*	0.5	1.3	2.3	16.2	12.4	39.2	29.9	69.1
1963	2.0	0.0	2.0	9.0	12.1	*	0.5	1.3	2.2	16.1	13.1	40.3	31.4	71.7
1964	1.9	0.0	1.9	13.3	13.0	*	0.6	1.3	2.6	17.5	13.8	46.5	33.0	79.5
1965	**2.2**	**0.0**	**2.2**	**11.5**	**12.0**	*	**0.6**	**1.3**	**2.6**	**16.5**	**14.9**	**45.1**	**35.7**	**80.8**
1966	2.0	0.0	2.0	13.6	12.6	*	0.6	1.4	2.6	17.2	16.4	49.2	39.4	88.7
1967	1.4	0.0	1.4	16.1	11.0	*	0.7	1.4	2.4	15.5	17.7	50.7	42.2	92.9
1968	1.0	0.0	1.0	17.3	12.3	*	0.7	1.5	2.7	17.2	19.3	54.8	46.1	100.9
1969	1.0	0.0	1.0	18.2	12.5	*	0.7	1.5	2.7	17.6	21.6	58.3	51.5	109.9
1970	**0.5**	**0.0**	**0.5**	**19.5**	**13.0**	**0.1**	**0.8**	**1.6**	**3.0**	**18.4**	**22.9**	**61.4**	**55.6**	**117.0**
1971	0.7	0.0	0.7	21.7	12.8	0.1	0.8	1.7	3.1	18.4	24.7	65.6	59.8	125.3
1972	0.5	0.0	0.5	24.5	12.3	0.1	0.6	1.7	3.8	18.4	33.0	76.3	79.4	155.7
1973	0.3	0.0	0.3	34.0	11.5	0.1	0.5	1.7	3.6	17.4	35.2	86.8	84.2	171.1
1974	0.2	0.0	0.2	34.8	9.0	0.2	0.5	1.9	3.4	15.0	34.3	84.2	83.7	167.9
1975	**0.3**	**0.0**	**0.3**	**33.3**	**8.8**	**0.1**	**0.3**	**2.0**	**2.2**	**13.5**	**35.4**	**82.4**	**85.4**	**167.8**
1976	0.3	0.0	0.3	32.9	9.1	0.2	0.3	2.1	1.6	13.3	37.8	84.3	91.0	175.3
1977	1.9	0.0	1.9	31.3	10.1	0.2	0.3	2.0	2.1	14.7	37.7	85.7	91.1	176.8
1978	2.6	0.0	2.6	26.5	9.9	0.3	0.3	2.2	2.1	14.7	41.2	85.0	100.8	185.8
1979	1.8	0.0	1.8	34.9	8.9	0.1	0.4	1.9	1.0	12.3	44.1	93.2	106.5	199.7
1980	**2.4**	**0.0**	**2.4**	**32.4**	**6.2**	**0.1**	**0.4**	**2.5**	**2.7**	**11.9**	**47.2**	**93.9**	**114.9**	**208.8**
1981	1.8	0.0	1.8	30.1	4.3	0.1	0.4	2.3	4.8	11.9	60.9	104.7	145.1	249.8
1982	2.5	0.0	2.5	32.2	11.6	0.1	0.4	2.5	5.8	20.4	61.9	117.0	148.7	265.7
1983	3.3	0.0	3.3	30.0	10.1	2.1	0.5	2.7	3.9	19.3	62.3	114.7	149.2	263.9
1984	3.1	0.0	3.1	[illegible]	11.4	1.5	0.2	1.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1985	**3.3**	**0.0**	**3.3**	**36.9**	**24.9**	**1.2**	**0.4**	**1.9**	**1.5**	**29.9**	**64.7**	**134.8**	**151.8**	**286.5**
1986	1.3	0.0	1.3	33.0	14.1	0.1	0.3	1.6	0.7	16.8	64.2	115.3	147.2	262.5
1987	0.8	0.0	0.8	33.4	13.6	1.5	0.5	1.6	0.1	17.3	67.2	118.7	153.2	271.9
1988	1.7	0.0	1.7	37.6	15.4	6.8	0.4	1.5	0.5	24.6	70.7	134.5	159.6	294.1
1989	1.3	0.0	1.3	39.7	9.9	6.1	0.4	1.4	0.5	18.3	70.4	129.7	158.0	287.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 300. Industrial Energy Consumption Estimates, 1960–1989, Washington

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**420**	**0**	**420**	**50**	**1,309**	**5,937**	**105**	**134**	**158**	**802**	**7,137**	**3,656**	**19,237**	**195**	**13,975**	**34,761**		
1961	424	0	424	54	1,397	5,574	39	65	154	651	5,972	5,979	19,831	183	14,205	34,622		
1962	467	0	467	63	1,518	5,303	31	92	174	828	6,097	6,688	20,732	187	14,670	35,267		
1963	390	0	390	66	1,656	5,054	35	131	174	818	6,045	7,449	21,361	188	16,285	38,945		
1964	342	0	342	76	1,521	5,453	14	167	183	666	7,103	6,876	21,983	181	17,825	42,452		
1965	**341**	**0**	**341**	**79**	**1,683**	**5,546**	**23**	**155**	**216**	**765**	**7,281**	**8,028**	**23,698**	**190**	**18,703**	**44,656**		
1966	315	0	315	82	2,231	5,787	13	166	225	623	7,393	8,089	24,526	211	19,997	47,982		
1967	241	0	241	86	2,095	5,549	8	175	228	598	6,988	9,173	24,814	186	22,028	52,625		
1968	214	0	214	93	2,248	5,318	14	186	251	605	7,764	10,011	26,396	195	23,086	55,082		
1969	222	0	222	92	2,330	5,184	12	192	262	551	8,009	11,645	28,184	155	26,500	63,300		
1970	**210**	**0**	**210**	**93**	**2,335**	**4,986**	**109**	**274**	**267**	**551**	**7,874**	**9,732**	**26,127**	**135**	**25,530**	**61,867**		
1971	223	0	223	96	2,364	4,983	75	260	140	507	7,796	11,039	27,165	158	24,351	58,872		
1972	145	0	145	101	2,983	5,472	36	297	150	523	10,066	13,039	32,565	166	27,947	67,268		
1973	165	0	165	122	3,343	5,301	21	227	185	468	9,125	12,325	30,995	160	26,789	64,134		
1974	274	0	274	108	2,758	3,958	87	301	178	424	8,329	11,215	27,251	177	29,738	72,510		
1975	**463**	**0**	**463**	**92**	**2,910**	**4,025**	**118**	**250**	**192**	**438**	**5,924**	**11,872**	**25,730**	**181**	**27,416**	**66,132**		
1976	665	0	665	79	3,303	4,142	93	285	214	421	4,789	11,276	24,523	167	29,616	71,341		
1977	563	0	563	76	3,044	4,727	221	344	202	360	6,651	13,324	28,872	147	27,099	65,435		
1978	558	0	558	68	3,127	4,995	270	589	216	370	6,028	12,360	27,956	147	31,347	76,690		
1979	564	0	564	83	3,197	5,247	106	738	227	289	2,744	10,620	23,166	135	31,607	76,278		
1980	**332**	**0**	**332**	**64**	**2,050**	**4,350**	**37**	**658**	**202**	**278**	**6,538**	**9,830**	**23,943**	**129**	**31,366**	**76,271**		
1981	362	1	363	67	1,800	4,197	195	555	193	251	7,416	11,639	26,246	129	34,726	82,763		
1982	381	0	381	47	1,792	4,469	102	739	176	275	7,887	10,821	26,261	129	28,236	67,818		
1983	275	1	276	51	2,310	3,875	1,187	563	165	211	2,672	9,119	20,121	129	30,824	73,646		
1984	211	0	211	63	2,626	4,380	826	1,169	197	574	2,544	10,608	22,922	129	33,344	77,430		
1985	**208**	**0**	**208**	**63**	**2,039**	**2,766**	**969**	**1,594**	**184**	**692**	**1,682**	**10,534**	**20,458**	**129**	**29,431**	**69,016**		
1986	372	0	372	54	2,404	3,580	212	1,891	179	740	4,987	10,276	24,270	129	30,040	68,874		
1987	298	0	298	66	2,268	3,736	4	2,303	203	734	2,293	14,504	26,046	129	31,597	72,010		
1988	252	0	252	69	1,921	2,889	23	1,936	196	677	2,485	15,929	26,055	129	36,909	83,352		
1989	238	0	238	73	2,612	3,681	11	2,706	201	697	2,429	17,568	29,905	129	37,369	83,823		
1960	**10.9**	**0.0**	**10.9**	**51.8**	**8.7**	**34.6**	**0.6**	**0.5**	**1.0**	**4.2**	**44.9**	**22.0**	**116.4**	**2.1**	**47.7**	**228.9**	**118.6**	**347.5**
1961	11.0	0.0	11.0	56.4	9.3	32.5	0.2	0.3	0.9	3.4	37.5	36.0	120.1	1.9	48.5	237.9	118.1	356.0
1962	12.1	0.0	12.1	65.3	10.1	30.9	0.2	0.4	1.1	4.4	38.3	40.2	125.5	2.0	50.1	254.9	120.3	375.3
1963	10.1	0.0	10.1	70.9	11.0	29.4	0.2	0.5	1.1	4.3	38.0	44.8	129.3	2.0	55.6	267.9	132.9	400.8
1964	8.8	0.0	8.8	81.4	10.1	31.8	0.1	0.7	1.1	3.5	44.7	41.2	133.1	1.9	60.8	286.0	144.8	430.9
1965	**8.8**	**0.0**	**8.8**	**85.3**	**11.2**	**32.3**	**0.1**	**0.6**	**1.3**	**4.0**	**45.8**	**48.1**	**143.5**	**2.0**	**63.8**	**303.4**	**152.4**	**455.8**
1966	8.1	0.0	8.1	87.9	14.8	33.7	0.1	0.7	1.4	3.3	46.5	48.4	148.8	2.2	68.2	315.2	163.7	478.9
1967	6.1	0.0	6.1	91.9	13.9	32.3	*	0.7	1.4	3.1	43.9	55.0	150.4	1.9	75.2	325.5	179.6	505.1
1968	5.4	0.0	5.4	99.2	14.9	31.0	0.1	0.7	1.5	3.2	48.8	60.0	160.2	2.0	78.8	345.6	187.9	533.6
1969	5.6	0.0	5.6	98.1	15.5	30.2	0.1	0.7	1.6	2.9	50.3	69.9	171.2	1.6	90.4	366.8	216.0	582.8
1970	**5.1**	**0.0**	**5.1**	**98.3**	**15.5**	**29.0**	**0.6**	**1.0**	**1.6**	**2.9**	**49.5**	**58.3**	**158.5**	**1.4**	**87.1**	**350.4**	**211.1**	**561.5**
1971	5.3	0.0	5.3	101.3	15.7	29.0	0.4	1.0	0.9	2.7	49.0	66.2	164.9	1.7	83.1	356.2	200.9	557.1
1972	3.4	0.0	3.4	106.7	19.8	31.9	0.2	1.1	0.9	2.7	63.3	78.3	198.2	1.7	95.4	405.4	229.5	635.0
1973	3.9	0.0	3.9	127.9	22.2	30.9	0.1	0.8	1.1	2.5	57.4	74.0	188.9	1.7	91.4	413.8	218.8	632.7
1974	6.5	0.0	6.5	113.6	18.3	23.1	0.5	1.1	1.1	2.2	52.4	67.3	165.9	1.8	101.5	389.3	247.4	636.7
1975	**10.9**	**0.0**	**10.9**	**96.0**	**19.3**	**23.4**	**0.7**	**0.9**	**1.2**	**2.3**	**37.2**	**71.3**	**156.3**	**1.9**	**93.5**	**358.7**	**225.6**	**584.3**
1976	14.2	0.0	14.2	82.0	21.9	24.1	0.5	1.1	1.3	2.2	30.1	67.6	148.9	1.7	101.1	347.9	243.4	591.3
1977	12.4	0.0	12.4	79.4	20.2	27.5	1.3	1.3	1.2	1.9	41.8	79.9	175.1	1.5	92.5	360.9	223.3	584.2
1978	12.2	0.0	12.2	71.4	20.8	29.1	1.5	2.2	1.3	1.9	37.9	74.1	168.8	1.5	107.0	360.8	261.7	622.4
1979	12.5	0.0	12.5	86.8	21.2	30.6	0.6	2.7	1.4	1.5	17.2	63.6	138.8	1.4	107.8	347.3	260.3	607.6
1980	**7.1**	**0.0**	**7.1**	**67.0**	**13.6**	**25.3**	**0.2**	**2.4**	**1.2**	**1.5**	**41.1**	**58.8**	**144.2**	**1.3**	**107.0**	**326.7**	**260.2**	**586.9**
1981	7.6	*	7.7	70.0	11.9	24.4	1.1	2.0	1.2	1.3	46.6	70.9	159.6	1.4	118.5	357.1	282.4	639.5
1982	7.9	0.0	7.9	49.6	11.9	26.0	0.6	2.7	1.1	1.4	49.6	66.0	159.2	1.4	96.3	314.5	231.4	545.9
1983	5.6	*	5.6	53.1	15.3	22.6	6.7	2.0	1.1	1.1	16.8	55.3	121.0	1.4	105.2	286.2	252.0	538.2
1984	4.5	0.0	4.5	65.6	17.4	25.5	4.7	4.2	1.2	3.0	16.0	64.1	136.1	1.3	113.8	321.4	264.2	585.5
1985	**4.5**	**0.0**	**4.5**	**65.7**	**13.5**	**16.1**	**5.5**	**5.7**	**1.1**	**3.6**	**10.6**	**64.3**	**120.5**	**1.3**	**100.4**	**292.4**	**235.5**	**527.9**
1986	7.4	0.0	7.4	55.6	16.0	20.9	1.2	6.9	1.1	3.9	31.4	63.1	144.3	1.3	102.5	311.1	235.0	546.1
1987	5.9	0.0	5.9	67.9	15.1	21.8	*	8.4	1.2	3.9	14.4	88.0	152.7	1.3	107.8	335.7	245.7	581.4
1988	5.3	0.0	5.3	71.2	12.7	16.8	0.1	7.1	1.2	3.6	15.6	96.2	153.3	1.3	125.9	357.1	284.4	641.5
1989	4.9	0.0	4.9	75.6	17.3	21.4	0.1	10.0	1.2	3.7	15.3	105.7	174.6	1.3	127.5	384.0	286.0	670.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 301. Transportation Energy Consumption Estimates, 1960–1989, Washington

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	7	*	2,161	2,574	4,502	6	413	22,052	1,707	33,415	1	3		
1961	2	*	2,190	2,698	4,750	6	402	23,036	1,222	34,305	1	3		
1962	2	*	917	3,122	5,745	9	387	24,241	1,143	35,564	2	4		
1963	1	0	895	3,058	6,113	10	387	24,281	1,268	36,013	2	4		
1964	1	1	726	3,274	6,607	10	407	24,761	1,259	37,043	2	4		
1965	1	1	434	3,022	6,919	21	381	25,886	1,443	38,104	1	4		
1966	1	1	532	2,804	7,472	17	396	28,258	1,866	41,345	2	4		
1967	1	2	460	2,720	9,429	23	367	30,099	2,311	45,408	1	3		
1968	*	3	433	3,677	10,715	26	404	32,342	3,750	51,346	1	3		
1969	*	5	358	4,001	11,177	27	393	33,838	2,807	52,601	1	3		
1970	*	6	351	3,956	10,637	38	400	35,213	2,025	52,620	1	3		
1971	*	6	223	4,493	11,721	43	376	35,964	1,197	54,017	1	3		
1972	*	7	305	5,139	10,680	40	403	37,194	968	54,729	1	3		
1973	*	7	307	6,675	11,762	35	426	39,062	1,155	59,421	1	3		
1974	*	6	313	6,460	12,312	36	408	38,958	1,260	59,747	1	3		
1975	*	6	274	6,616	14,036	37	428	40,196	2,109	63,696	2	4		
1976	*	6	270	8,004	12,990	43	476	42,489	2,333	66,604	2	4		
1977	*	6	294	8,334	12,092	50	501	44,671	2,602	68,545	2	4		
1978	0	6	315	9,200	11,468	93	538	46,647	5,066	73,326	1	3		
1979	0	7	299	10,078	12,693	117	563	44,747	9,448	77,945	2	4		
1980	0	4	356	9,595	12,036	92	501	41,897	10,112	74,589	2	4		
1981	0	2	305	9,643	12,081	210	481	42,348	8,164	73,231	5	11		
1982	0	2	229	8,429	12,800	153	438	42,450	4,713	69,213	12	28		
1983	0	2	200	7,985	12,830	181	459	43,993	1,642	67,290	12	29		
1984	0	2	175	8,803	15,646	495	489	45,283	1,968	72,859	12	28		
1985	0	3	202	10,210	15,417	298	456	42,960	6,368	75,912	12	29		
1986	0	2	228	14,194	17,073	306	446	45,901	11,332	89,480	12	27		
1987	0	4	275	12,113	18,596	258	504	50,086	8,808	90,639	12	27		
1988	0	4	214	12,518	20,647	255	486	49,810	9,252	93,182	12	26		
1989	0	4	188	12,862	20,592	208	499	52,831	11,422	98,602	12	26		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	0.2	0.4	10.9	15.0	24.4	*	2.5	115.8	10.7	179.4	*	180.0	*	180.0
1961	0.1	0.4	11.1	15.7	25.8	*	2.4	121.0	7.7	183.7	*	184.2	*	184.2
1962	*	0.5	4.6	18.2	31.3	*	2.3	127.3	7.2	191.1	*	191.6	*	191.6
1963	*	0.0	4.5	17.8	33.4	*	2.3	127.5	8.0	193.6	*	193.7	*	193.7
1964	*	0.7	3.7	19.1	36.2	*	2.5	130.1	7.9	199.4	*	200.1	*	200.2
1965	*	0.7	2.2	17.6	38.2	0.1	2.3	136.0	9.1	205.4	*	206.2	*	206.2
1966	*	1.5	2.7	16.3	41.3	0.1	2.4	148.4	11.7	222.9	*	224.4	*	224.5
1967	*	2.6	2.3	15.8	52.2	0.1	2.2	158.1	14.5	245.4	*	248.0	*	248.0
1968	*	3.7	2.2	21.4	59.4	0.1	2.4	169.9	23.6	279.0	*	282.7	*	282.7
1969	*	4.8	1.8	23.3	62.2	0.1	2.4	177.8	17.6	285.2	*	290.0	*	290.0
1970	*	6.8	1.8	23.0	59.3	0.1	2.4	185.0	12.7	284.4	*	291.2	*	291.2
1971	*	6.5	1.1	26.2	65.4	0.2	2.3	188.9	7.5	291.6	*	298.1	*	298.1
1972	*	7.8	1.5	29.9	59.6	0.1	2.4	195.4	6.1	295.1	*	302.9	*	302.9
1973	*	7.7	1.5	38.9	65.8	0.1	2.6	205.2	7.3	321.4	*	329.2	*	329.2
1974	*	5.8	1.6	37.6	68.9	0.1	2.5	204.6	7.9	323.3	*	329.1	*	329.1
1975	*	6.1	1.4	38.5	78.7	0.1	2.6	211.1	13.3	345.8	*	351.9	*	351.9
1976	*	6.2	1.4	46.6	72.9	0.2	2.9	223.2	14.7	361.8	*	368.0	*	368.0
1977	*	6.5	1.5	48.5	67.7	0.2	3.0	234.7	16.4	372.0	*	378.5	*	378.5
1978	0.0	6.7	1.6	53.6	64.2	0.3	3.3	245.0	31.8	399.9	*	406.6	*	406.6
1979	0.0	7.7	1.5	58.7	71.2	0.4	3.4	235.1	59.4	429.7	*	437.4	*	437.4
1980	0.0	3.9	1.8	55.9	67.5	0.3	3.0	220.1	63.6	412.2	*	416.1	*	416.1
1981	0.0	2.4	1.5	56.2	67.8	0.8	2.9	222.5	51.3	403.0	*	405.4	*	405.4
1982	0.0	1.8	1.2	49.1	71.9	0.6	2.7	223.0	29.6	377.9	*	379.8	0.1	379.9
1983	0.0	1.6	1.0	46.5	72.1	0.7	2.8	231.1	10.3	364.5	*	366.1	0.1	366.2
1984	0.0	1.9	0.9	51.3	87.9	1.8	3.0	237.9	12.4	395.1	*	397.1	0.1	397.2
1985	0.0	3.0	1.0	59.5	86.6	1.1	2.8	225.7	40.0	416.7	*	419.7	0.1	419.8
1986	0.0	2.0	1.2	82.7	96.1	1.1	2.7	241.1	71.2	496.1	*	498.2	0.1	498.2
1987	0.0	3.9	1.4	70.6	104.7	0.9	3.1	263.1	55.4	499.1	*	503.1	0.1	503.2
1988	0.0	4.1	1.1	72.9	116.3	0.9	2.9	261.6	58.2	514.0	*	518.1	0.1	518.2
1989	0.0	4.5	1.0	74.9	116.0	0.8	3.0	277.5	71.8	545.0	*	549.6	0.1	549.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 302. Estimates of Energy Input at Electric Utilities, 1960-1989, Washington

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**0**	**0**	**0**	**0**	**14**	**2**	**0**	**16**	**0**	**34,104**	**0**	**1**	
1961	0	0	0	0	8	1	0	9	0	37,180	0	2	
1962	0	0	0	0	11	1	0	12	0	39,325	0	2	
1963	0	0	0	0	5	1	0	5	0	42,931	0	1	
1964	0	0	0	0	3	*	0	4	0	46,826	0	2	
1965	**0**	**0**	**0**	**0**	**3**	*	**0**	**3**	**0**	**48,624**	**0**	**0**	
1966	0	0	0	0	188	22	0	210	989	52,604	0	0	
1967	0	0	0	0	12	1	0	14	2,015	57,623	0	0	
1968	0	0	0	0	11	1	0	12	3,903	63,340	0	0	
1969	0	0	0	0	13	1	0	14	3,667	67,590	0	0	
1970	**0**	**0**	**0**	**0**	**3**	*	**0**	**4**	**2,614**	**70,008**	**0**	*	
1971	0	0	0	0	3	*	0	3	2,553	71,726	0	0	
1972	2,002	0	2,002	0	191	*	0	191	2,919	76,717	0	0	
1973	3,741	0	3,741	0	452	30	0	482	4,432	73,676	0	0	
1974	2,925	0	2,925	0	51	5	0	55	3,889	84,726	0	0	
1975	**4,009**	**0**	**4,009**	**0**	**71**	**4**	**0**	**76**	**3,308**	**85,257**	**0**	**0**	
1976	4,107	0	4,107	0	40	3	0	43	2,405	94,894	0	0	
1977	5,370	0	5,370	0	34	15	0	49	4,315	71,465	0	0	
1978	4,233	0	4,233	*	31	13	0	44	4,140	91,223	0	0	
1979	5,166	0	5,166	2	505	40	0	544	3,613	79,375	0	0	
1980	**4,950**	**0**	**4,950**	**1**	**201**	**31**	**0**	**232**	**2,041**	**83,841**	**0**	**0**	
1981	4,964	0	4,964	*	4	33	0	37	2,042	102,252	0	0	
1982	3,844	0	3,844	*	*	23	0	23	3,631	91,629	0	0	
1983	4,298	0	4,298	*	*	22	0	23	3,494	87,818	0	47	
1984	4,506	0	4,506	*	0	17	0	17	5,313	89,732	0	131	
1985	**5,192**	**0**	**5,192**	*	**0**	**17**	**0**	**17**	**8,038**	**77,827**	**0**	**282**	
1986	3,329	0	3,329	*	1	19	0	20	8,439	76,509	0	191	
1987	5,468	0	5,468	*	1	17	0	18	5,528	70,834	0	348	
1988	5,561	0	5,561	2	1	16	0	16	6,000	68,924	0	383	
1989	5,514	0	5,514	8	150	42	0	192	6,118	70,507	0	376	
					Trillion Btu								
1960	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	*	**0.0**	**0.1**	**0.0**	**367.0**	**0.0**	*	**367.1**
1961	0.0	0.0	0.0	0.0	0.1	*	0.0	0.1	0.0	396.0	0.0	*	396.0
1962	0.0	0.0	0.0	0.0	0.1	*	0.0	0.1	0.0	415.2	0.0	*	415.3
1963	0.0	0.0	0.0	0.0	*	*	0.0	*	0.0	450.0	0.0	*	450.1
1964	0.0	0.0	0.0	0.0	*	*	0.0	*	0.0	489.9	0.0	*	489.9
1965	**0.0**	**0.0**	**0.0**	**0.0**	*	*	**0.0**	*	**0.0**	**508.3**	**0.0**	**0.0**	**508.3**
1966	0.0	0.0	0.0	0.0	1.2	0.1	0.0	1.3	11.5	547.9	0.0	0.0	560.7
1967	0.0	0.0	0.0	0.0	0.1	*	0.0	0.1	23.3	601.1	0.0	0.0	624.5
1968	0.0	0.0	0.0	0.0	0.1	*	0.0	0.1	44.1	658.6	0.0	0.0	702.8
1969	0.0	0.0	0.0	0.0	0.1	*	0.0	0.1	40.5	706.1	0.0	0.0	746.7
1970	**0.0**	**0.0**	**0.0**	**0.0**	*	*	**0.0**	*	**28.7**	**734.7**	**0.0**	*	**763.4**
1971	0.0	0.0	0.0	0.0	*	*	0.0	*	27.7	751.5	0.0	0.0	779.2
1972	32.4	0.0	32.4	0.0	1.2	*	0.0	1.2	31.5	796.2	0.0	0.0	861.4
1973	60.7	0.0	60.7	0.0	2.8	0.2	0.0	3.0	48.3	765.4	0.0	0.0	877.4
1974	47.4	0.0	47.4	0.0	0.3	*	0.0	0.3	43.4	884.7	0.0	0.0	975.9
1975	**64.9**	**0.0**	**64.9**	**0.0**	**0.4**	*	**0.0**	**0.5**	**36.4**	**887.2**	**0.0**	**0.0**	**989.0**
1976	66.5	0.0	66.5	0.0	0.3	*	0.0	0.3	26.6	984.3	0.0	0.0	1,077.7
1977	87.0	0.0	87.0	0.0	0.2	0.1	0.0	0.3	46.5	745.7	0.0	0.0	879.5
1978	68.6	0.0	68.6	0.1	0.2	0.1	0.0	0.3	45.3	945.2	0.0	0.0	1,059.4
1979	83.7	0.0	83.7	2.2	3.2	0.2	0.0	3.4	39.3	821.8	0.0	0.0	950.3
1980	**80.2**	**0.0**	**80.2**	**1.0**	**1.3**	**0.2**	**0.0**	**1.4**	**22.3**	**870.9**	**0.0**	**0.0**	**975.8**
1981	80.4	0.0	80.4	0.5	*	0.2	0.0	0.2	22.5	1,068.8	0.0	0.0	1,172.5
1982	62.3	0.0	62.3	0.1	*	0.1	0.0	0.1	40.2	957.9	0.0	0.0	1,060.6
1983	69.6	0.0	69.6	*	*	0.1	0.0	0.1	38.1	923.8	0.0	0.5	1,032.2
1984	73.0	0.0	73.0	*	0.0	0.1	0.0	0.1	57.6	926.3	0.0	1.4	1,058.4
1985	**84.1**	**0.0**	**84.1**	**0.1**	**0.0**	**0.1**	**0.0**	**0.1**	**86.9**	**804.7**	**0.0**	**2.9**	**978.8**
1986	53.9	0.0	53.9	0.1	*	0.1	0.0	0.1	91.1	785.1	0.0	2.0	932.3
1987	88.6	0.0	88.6	0.1	*	0.1	0.0	0.1	59.6	726.3	0.0	3.6	878.2
1988	91.3	0.0	91.3	1.8	*	0.1	0.0	0.1	64.5	705.4	0.0	3.9	867.0
1989	90.0	0.0	90.0	8.6	0.9	0.2	0.0	1.2	65.6	728.4	0.0	3.9	897.7

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 303. Energy Consumption Estimates by Source, 1960-1989, West Virginia

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**14,060**	**150**	**918**	**119**	**2,473**	**169**	**276**	**558**	**570**	**11,609**	**1,481**	**4,704**	**22,876**	**0**	**938**	**0**	**0**	**-12,238**	
1961	15,422	163	775	35	2,540	147	277	648	555	11,660	1,237	5,945	23,818	0	1,042	0	0	-18,007	
1962	15,662	154	804	13	2,502	153	250	930	531	11,945	1,479	6,562	25,169	0	1,039	0	0	-16,935	
1963	17,478	155	711	257	2,619	138	236	803	531	12,533	1,585	11,881	31,294	0	801	0	0	-18,565	
1964	18,614	164	824	214	2,326	148	187	777	558	12,304	2,291	12,568	32,196	0	904	0	0	-18,338	
1965	**19,049**	**164**	**907**	**201**	**2,837**	**130**	**253**	**961**	**636**	**12,762**	**2,153**	**11,875**	**32,714**	**0**	**828**	**0**	**0**	**-16,716**	
1966	20,900	171	746	231	3,118	178	292	857	661	13,387	2,623	11,700	33,793	0	767	0	*	-25,924	
1967	22,063	151	504	173	3,241	198	765	833	616	13,708	2,187	13,059	35,283	0	1,050	0	*	-36,316	
1968	24,380	183	781	157	3,722	250	350	1,026	676	14,525	2,001	14,304	37,794	0	957	0	*	-45,138	
1969	25,393	170	678	99	3,746	298	379	1,172	672	14,921	2,015	14,538	38,519	0	952	0	0	-51,439	
1970	**25,376**	**181**	**863**	**78**	**3,917**	**290**	**320**	**1,230**	**684**	**15,831**	**2,065**	**14,523**	**39,801**	**0**	**996**	**0**	*	**-52,336**	
1971	26,010	178	999	67	4,663	231	368	1,324	761	16,428	1,882	13,057	39,780	0	1,146	0	0	-60,238	
1972	29,834	199	1,038	60	5,598	200	383	1,514	815	16,904	1,751	14,970	43,233	0	1,246	0	0	-84,215	
1973	33,587	186	911	61	6,080	193	296	1,610	785	18,200	1,377	16,368	45,881	0	1,176	0	0	-104,807	
1974	35,693	182	815	62	5,651	206	324	1,763	752	18,326	1,736	17,332	46,966	0	1,148	0	0	-114,391	
1975	**34,469**	**158**	**944**	**58**	**5,922**	**249**	**325**	**1,498**	**686**	**19,314**	**2,504**	**16,544**	**48,043**	**0**	**1,063**	**0**	**0**	**-120,635**	
1976	36,314	151	1,056	58	6,146	285	297	1,454	762	20,538	4,718	12,144	47,459	0	1,026	0	0	-129,832	
1977	35,620	145	890	61	8,292	299	254	1,519	670	21,205	4,901	14,948	53,039	0	943	0	0	-128,001	
1978	32,852	152	1,155	59	7,502	285	228	1,390	720	21,267	4,236	15,873	52,714	0	925	0	0	-112,884	
1979	34,176	149	1,163	59	10,097	324	801	3,118	753	20,498	2,745	19,159	58,718	0	1,232	0	0	-124,024	
1980	**34,939**	**143**	**717**	**65**	**10,541**	**357**	**496**	**3,435**	**671**	**19,390**	**1,463**	**20,395**	**57,530**	**0**	**1,114**	**0**	**0**	**-133,702**	
1981	35,893	149	740	32	9,432	339	362	3,249	643	18,802	991	19,840	54,429	0	1,090	0	0	-142,536	
1982	32,798	130	663	23	7,701	297	443	2,683	586	18,956	1,391	15,069	47,812	0	1,118	0	0	-130,822	
1983	33,269	116	408	44	10,113	277	414	2,698	614	18,686	1,097	12,288	46,639	0	1,109	0	0	-141,569	
1984	36,253	124	478	39	10,558	242	183	393	655	18,537	1,064	14,106	46,254	0	1,138	0	0	-156,471	
1985	**34,999**	**117**	**430**	**39**	**9,718**	**235**	**316**	**849**	**610**	**18,509**	**674**	**13,876**	**45,254**	**0**	**1,058**	**0**	**0**	**-160,284**	
1986	35,097	113	565	50	7,673	219	298	910	597	18,653	747	16,193	45,904	0	1,051	0	0	-158,491	
1987	34,889	115	537	35	8,999	211	298	920	674	19,293	379	16,357	47,702	0	1,005	0	0	-155,675	
1988	36,527	122	879	38	9,067	248	269	1,057	650	19,770	463	16,819	49,261	0	988	0	0	-160,363	
1989	37,288	130	812	38	10,084	380	249	1,331	667	19,475	462	17,079	50,577	0	1,166	0	0	-163,410	
									Trillion Btu										
1960	**354.5**	**155.6**	**6.1**	**0.6**	**14.4**	**0.9**	**1.6**	**2.2**	**3.5**	**61.0**	**9.3**	**27.3**	**126.9**	**0.0**	**10.1**	**0.0**	**0.0**	**-41.8**	**605.3**
1961	386.4	168.3	5.1	0.2	14.8	0.8	1.6	2.6	3.4	61.3	7.8	34.7	132.2	0.0	11.1	0.0	0.0	-61.4	636.5
1962	391.9	159.2	5.3	0.1	14.6	0.8	1.4	3.7	3.2	62.7	9.3	38.3	139.5	0.0	11.0	0.0	0.0	-57.8	643.8
1963	438.1	163.9	4.7	1.3	15.3	0.7	1.3	3.2	3.2	65.8	10.0	67.2	172.8	0.0	8.4	0.0	0.0	-63.3	719.9
1964	467.2	172.4	5.5	1.1	13.5	0.8	1.1	3.1	3.4	64.6	14.4	70.9	178.4	0.0	9.5	0.0	0.0	-62.6	764.9
1965	**477.4**	**176.1**	**6.0**	**1.0**	**16.5**	**0.7**	**1.4**	**3.9**	**3.9**	**67.0**	**13.5**	**67.0**	**181.0**	**0.0**	**8.7**	**0.0**	**0.0**	**-57.0**	**786.1**
1966	520.0	179.2	5.0	1.2	18.2	1.0	1.7	3.4	4.0	70.3	16.5	65.3	186.5	0.0	8.0	0.0	*	-88.5	805.2
1967	543.1	157.4	3.3	0.9	18.9	1.1	4.3	3.2	3.7	72.0	13.7	72.5	193.7	0.0	11.0	0.0	*	-123.9	781.2
1968	601.9	190.0	5.2	0.8	21.7	1.4	2.0	3.9	4.1	76.3	12.6	79.3	207.2	0.0	9.9	0.0	*	-154.0	855.0
1969	624.1	176.3	4.5	0.5	21.8	1.7	2.2	4.5	4.1	78.4	12.7	80.5	210.7	0.0	9.9	0.0	0.0	-175.5	845.5
1970	**612.4**	**186.5**	**5.7**	**0.4**	**22.8**	**1.6**	**1.8**	**4.6**	**4.2**	**83.2**	**13.0**	**80.4**	**217.7**	**0.0**	**10.4**	**0.0**	*	**-178.6**	**848.5**
1971	618.8	183.6	6.6	0.3	27.2	1.3	2.1	5.0	4.6	86.3	11.8	72.6	217.8	0.0	12.0	0.0	0.0	-205.5	826.7
1972	716.5	204.9	6.9	0.3	32.6	1.1	2.2	5.7	4.9	88.8	11.0	83.7	237.2	0.0	12.9	0.0	0.0	-287.3	884.3
1973	810.2	191.9	6.0	0.3	35.4	1.1	1.7	6.0	4.8	95.6	8.7	91.8	251.4	0.0	12.2	0.0	0.0	-357.6	908.1
1974	841.8	186.6	5.4	0.3	32.9	1.1	1.8	6.6	4.6	96.3	10.9	96.9	256.8	0.0	12.0	0.0	0.0	-390.3	906.8
1975	**817.4**	**164.3**	**6.3**	**0.3**	**34.5**	**1.4**	**1.8**	**5.6**	**4.2**	**101.5**	**15.7**	**92.8**	**264.0**	**0.0**	**11.1**	**0.0**	**0.0**	**-411.6**	**845.1**
1976	872.4	157.2	7.0	0.3	35.8	1.6	1.7	5.4	4.6	107.9	29.7	68.2	262.2	0.0	10.6	0.0	0.0	-443.0	859.4
1977	847.7	150.6	5.9	0.3	48.3	1.7	1.4	5.6	4.1	111.4	30.8	84.6	294.1	0.0	9.8	0.0	0.0	-436.7	865.5
1978	785.7	156.6	7.7	0.3	43.7	1.6	1.3	5.1	4.4	111.7	26.6	89.9	292.3	0.0	9.6	0.0	0.0	-385.2	859.0
1979	828.8	152.1	7.7	0.3	58.8	1.8	4.5	11.5	4.6	107.7	17.3	106.7	320.9	0.0	12.8	0.0	0.0	-423.2	891.4
1980	**857.8**	**147.6**	**4.8**	**0.3**	**61.4**	**2.0**	**2.8**	**12.6**	**4.1**	**101.9**	**9.2**	**112.5**	**311.5**	**0.0**	**11.6**	**0.0**	**0.0**	**-456.2**	**872.3**
1981	877.5	154.5	4.9	0.2	54.9	1.9	2.1	11.8	3.9	98.8	6.2	109.3	294.0	0.0	11.4	0.0	0.0	-486.3	851.0
1982	808.0	136.1	4.4	0.1	44.9	1.7	2.5	9.7	3.6	99.6	8.7	82.8	258.0	0.0	11.7	0.0	0.0	-446.4	767.4
1983	826.1	120.2	2.7	0.2	58.9	1.5	2.4	9.8	3.7	98.2	6.9	68.8	253.1	0.0	11.7	0.0	0.0	-483.0	728.1
1984	898.4	131.0	3.2	0.2	61.5	1.3	1.0	1.4	4.0	97.4	6.7	76.6	253.3	0.0	11.7	0.0	0.0	-533.9	760.6
1985	**871.7**	**125.0**	**2.9**	**0.2**	**56.6**	**1.3**	**1.8**	**3.1**	**3.7**	**97.2**	**4.2**	**75.8**	**246.8**	**0.0**	**10.9**	**0.0**	**0.0**	**-546.9**	**707.6**
1986	877.2	121.1	3.8	0.3	44.7	1.2	1.7	3.3	3.6	98.0	4.7	88.8	250.0	0.0	10.8	0.0	0.0	-540.8	718.4
1987	871.7	123.7	3.6	0.2	52.4	1.2	1.7	3.4	4.1	101.3	2.4	89.1	259.3	0.0	10.3	0.0	0.0	-531.2	733.9
1988	915.4	131.5	5.8	0.2	52.8	1.4	1.5	3.9	3.9	103.9	2.9	92.1	268.4	0.0	10.1	0.0	0.0	-547.2	778.3
1989	928.9	140.1	5.4	0.2	58.7	2.1	1.4	4.9	4.0	102.3	2.9	93.5	275.5	0.0	12.0	0.0	0.0	-557.6	799.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 304. Residential Energy Consumption Estimates, 1960-1989, West Virginia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			
1960	**85**	**0**	**85**	**50**	**204**	**148**	**226**	**578**	**1,714**	**4,263**		
1961	85	0	85	49	301	193	294	789	1,809	4,409		
1962	120	0	120	50	320	192	468	980	1,932	4,644		
1963	93	0	93	52	341	202	359	902	2,049	4,900		
1964	79	0	79	52	270	134	306	710	2,222	5,291		
1965	**84**	**0**	**84**	**50**	**304**	**184**	**280**	**768**	**2,365**	**5,647**		
1966	107	0	107	53	365	211	230	806	2,600	6,238		
1967	128	0	128	50	388	643	184	1,215	2,808	6,709		
1968	132	0	132	55	332	297	252	881	3,112	7,425		
1969	90	0	90	56	302	299	282	883	3,452	8,246		
1970	**67**	**0**	**67**	**58**	**250**	**267**	**266**	**783**	**3,459**	**8,383**		
1971	88	0	88	56	358	313	292	963	3,723	9,001		
1972	91	0	91	60	539	313	358	1,210	4,041	9,726		
1973	90	0	90	56	522	245	321	1,088	4,457	10,669		
1974	154	0	154	54	482	186	309	976	4,656	11,351		
1975	**83**	**0**	**83**	**51**	**581**	**172**	**331**	**1,084**	**4,979**	**12,010**		
1976	66	0	66	51	792	145	331	1,268	5,285	12,731		
1977	81	0	81	52	936	175	354	1,466	5,816	14,044		
1978	93	0	93	53	675	154	366	1,195	6,114	14,958		
1979	106	0	106	48	1,301	664	417	2,382	6,248	15,078		
1980	**55**	**0**	**55**	**48**	**1,169**	**408**	**395**	**1,973**	**6,606**	**16,064**		
1981	73	0	73	47	892	275	394	1,561	6,705	15,980		
1982	66	1	67	43	863	312	255	1,431	6,625	15,911		
1983	82	1	82	40	494	257	304	1,054	6,754	16,180		
1984	75	0	75	40	506	123	213	842	6,769	15,718		
1985	**27**	**2**	**29**	**37**	**462**	**177**	**231**	**871**	**6,712**	**15,740**		
1986	39	0	39	36	558	231	237	1,026	6,983	16,010		
1987	49	0	49	36	634	196	263	1,093	7,250	16,524		
1988	39	0	39	38	573	184	348	1,105	7,549	17,047		
1989	51	1	52	37	644	168	420	1,233	7,634	17,124		
										Net Energy[4]		Total[4]
					Trillion Btu							
1960	**2.1**	**0.0**	**2.1**	**51.4**	**1.2**	**0.8**	**0.9**	**2.9**	**5.8**	**62.4**	**14.5**	**76.9**
1961	2.1	0.0	2.1	50.9	1.8	1.1	1.2	4.0	6.2	63.2	15.0	78.3
1962	3.0	0.0	3.0	51.4	1.9	1.1	1.9	4.8	6.6	65.8	15.8	81.6
1963	2.3	0.0	2.3	55.3	2.0	1.1	1.4	4.6	7.0	69.2	16.7	85.9
1964	2.0	0.0	2.0	54.6	1.6	0.8	1.2	3.6	7.6	67.8	18.1	85.8
1965	**2.1**	**0.0**	**2.1**	**53.2**	**1.8**	**1.0**	**1.1**	**3.9**	**8.1**	**67.3**	**19.3**	**86.5**
1966	2.7	0.0	2.7	55.2	2.1	1.2	0.9	4.2	8.9	71.0	21.3	92.3
1967	3.2	0.0	3.2	52.3	2.3	3.6	0.7	6.6	9.6	71.7	22.9	94.6
1968	3.3	0.0	3.3	56.7	1.9	1.7	1.0	4.6	10.6	75.2	25.3	100.5
1969	2.2	0.0	2.2	58.5	1.8	1.7	1.1	4.5	11.8	77.0	28.1	105.2
1970	**1.6**	**0.0**	**1.6**	**59.7**	**1.5**	**1.5**	**1.0**	**4.0**	**11.8**	**77.0**	**28.6**	**105.6**
1971	2.1	0.0	2.1	57.2	2.1	1.8	1.1	5.0	12.7	77.0	30.7	107.7
1972	2.2	0.0	2.2	61.3	3.1	1.8	1.3	6.3	13.8	83.5	33.2	116.7
1973	2.2	0.0	2.2	57.4	3.0	1.4	1.2	5.6	15.2	80.4	36.4	116.8
1974	3.6	0.0	3.6	55.1	2.8	1.1	1.2	5.0	15.9	79.6	38.7	118.3
1975	**2.0**	**0.0**	**2.0**	**53.2**	**3.4**	**1.0**	**1.2**	**5.6**	**17.0**	**77.8**	**41.0**	**118.8**
1976	1.6	0.0	1.6	53.7	4.6	0.8	1.2	6.7	18.0	80.0	43.4	123.4
1977	1.9	0.0	1.9	53.8	5.5	1.0	1.3	7.7	19.8	83.3	47.9	131.2
1978	2.2	0.0	2.2	55.1	3.9	0.9	1.3	6.1	20.9	84.3	51.0	135.4
1979	2.6	0.0	2.6	49.1	7.6	3.8	1.5	12.9	21.3	85.9	51.4	137.3
1980	**1.3**	**0.0**	**1.3**	**49.8**	**6.8**	**2.3**	**1.5**	**10.6**	**22.5**	**84.3**	**54.8**	**139.1**
1981	1.8	0.0	1.8	49.0	5.2	1.6	1.4	8.2	22.9	81.8	54.5	136.4
1982	1.6	*	1.6	45.0	5.0	1.8	0.9	7.7	22.6	77.0	54.3	131.3
1983	2.0	*	2.0	41.5	2.9	1.5	1.1	5.4	23.0	72.0	55.2	127.2
1984	1.9	0.0	1.9	41.8	2.9	0.7	0.8	4.4	23.1	71.2	53.6	124.8
1985	**0.7**	*	**0.7**	**39.2**	**2.7**	**1.0**	**0.8**	**4.5**	**22.9**	**67.4**	**53.7**	**121.1**
1986	1.0	0.0	1.0	39.0	3.3	1.3	0.9	5.4	23.8	69.2	54.6	123.8
1987	1.2	0.0	1.2	38.3	3.7	1.1	1.0	5.8	24.7	70.0	56.4	126.4
1988	1.0	0.0	1.0	40.6	3.3	1.0	1.3	5.7	25.8	73.0	58.2	131.2
1989	1.3	*	1.3	40.0	3.8	1.0	1.5	6.3	26.0	73.6	58.4	132.0

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 305. Commercial Energy Consumption Estimates, 1960-1989, West Virginia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**158**	**0**	**158**	**15**	**75**	**8**	**40**	**65**	**8**	**195**	**1,134**	**2,821**		
1961	158	0	158	16	110	10	52	69	6	248	1,203	2,931		
1962	223	0	223	17	117	10	83	71	8	288	1,305	3,138		
1963	173	0	173	17	125	10	63	66	8	273	1,392	3,330		
1964	147	0	147	15	99	7	54	57	12	229	1,509	3,593		
1965	**157**	**0**	**157**	**15**	**111**	**9**	**49**	**66**	**12**	**248**	**1,620**	**3,869**		
1966	199	0	199	16	134	11	41	61	14	260	1,753	4,207		
1967	238	0	238	19	142	33	32	55	11	274	1,902	4,543		
1968	246	0	246	20	122	15	44	56	10	247	2,163	5,162		
1969	167	0	167	22	111	15	50	56	10	241	2,401	5,736		
1970	**124**	**0**	**124**	**22**	**92**	**14**	**47**	**56**	**9**	**218**	**2,238**	**5,423**		
1971	164	0	164	23	131	16	52	57	8	264	2,390	5,778		
1972	168	0	168	27	198	16	63	58	6	340	2,590	6,235		
1973	168	0	168	26	191	13	57	59	4	324	2,814	6,737		
1974	287	0	287	25	176	10	55	59	3	303	2,822	6,881		
1975	**155**	**0**	**155**	**25**	**213**	**9**	**58**	**59**	**9**	**349**	**2,858**	**6,893**		
1976	123	0	123	20	290	7	58	60	20	436	3,035	7,310		
1977	150	0	150	20	343	9	62	61	20	495	3,271	7,899		
1978	172	0	172	23	247	8	65	61	13	394	3,322	8,127		
1979	197	0	197	22	477	34	74	62	9	656	3,460	8,350		
1980	**101**	**0**	**101**	**22**	**262**	**37**	**70**	**110**	**5**	**484**	**3,658**	**8,895**		
1981	135	0	135	22	710	16	70	126	2	924	4,081	9,727		
1982	123	*	123	21	302	16	45	126	3	493	4,219	10,133		
1983	151	*	152	19	532	61	54	263	1	910	4,289	10,277		
1984	140	0	140	19	546	22	38	257	*	862	4,316	10,023		
1985	**51**	**1**	**52**	**17**	**603**	**58**	**41**	**307**	**3**	**1,013**	**4,462**	**10,464**		
1986	73	0	73	16	750	28	42	325	6	1,151	4,617	10,585		
1987	91	0	91	17	451	34	46	323	3	857	4,757	10,842		
1988	72	0	72	22	357	37	61	309	127	891	4,914	11,097		
1989	96	*	96	23	495	37	74	309	39	954	5,019	11,257		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**4.0**	**0.0**	**4.0**	**16.0**	**0.4**	*	**0.2**	**0.3**	*	**1.0**	**3.9**	**24.9**	**9.6**	**34.5**
1961	3.9	0.0	3.9	16.2	0.6	0.1	0.2	0.4	*	1.3	4.1	25.5	10.0	35.5
1962	5.6	0.0	5.6	17.3	0.7	0.1	0.3	0.4	*	1.5	4.5	28.9	10.7	39.6
1963	4.3	0.0	4.3	18.1	0.7	0.1	0.3	0.3	0.1	1.4	4.8	28.6	11.4	40.0
1964	3.7	0.0	3.7	15.8	0.6	*	0.2	0.3	0.1	1.2	5.1	25.8	12.3	38.0
1965	**3.9**	**0.0**	**3.9**	**15.6**	**0.6**	**0.1**	**0.2**	**0.3**	**0.1**	**1.3**	**5.5**	**26.3**	**13.2**	**39.5**
1966	4.9	0.0	4.9	16.6	0.8	0.1	0.2	0.3	0.1	1.4	6.0	28.9	14.4	43.3
1967	5.9	0.0	5.9	19.3	0.8	0.2	0.1	0.3	0.1	1.5	6.5	33.1	15.5	48.6
1968	6.1	0.0	6.1	21.2	0.7	0.1	0.2	0.3	0.1	1.3	7.4	35.9	17.6	53.6
1969	4.1	0.0	4.1	22.4	0.6	0.1	0.2	0.3	0.1	1.3	8.2	35.9	19.6	55.5
1970	**3.0**	**0.0**	**3.0**	**22.3**	**0.5**	**0.1**	**0.2**	**0.3**	**0.1**	**1.1**	**7.6**	**34.1**	**18.5**	**52.6**
1971	3.9	0.0	3.9	23.8	0.8	0.1	0.2	0.3	0.1	1.4	8.2	37.2	19.7	56.9
1972	4.0	0.0	4.0	27.5	1.2	0.1	0.2	0.3	*	1.8	8.8	42.1	21.3	63.4
1973	4.0	0.0	4.0	26.7	1.1	0.1	0.2	0.3	*	1.7	9.6	42.0	23.0	65.0
1974	6.7	0.0	6.7	25.2	1.0	0.1	0.2	0.3	*	1.6	9.6	43.1	23.5	66.6
1975	**3.7**	**0.0**	**3.7**	**25.7**	**1.2**	**0.1**	**0.2**	**0.3**	**0.1**	**1.9**	**9.8**	**41.0**	**23.5**	**64.5**
1976	2.9	0.0	2.9	21.4	1.7	*	0.2	0.3	0.1	2.4	10.4	37.0	24.9	62.0
1977	3.6	0.0	3.6	20.4	2.0	0.1	0.2	0.3	0.1	2.7	11.2	37.9	27.0	64.8
1978	4.2	0.0	4.2	23.2	1.4	*	0.2	0.3	0.1	2.1	11.3	40.8	27.7	68.6
1979	4.8	0.0	4.8	22.9	2.8	0.2	0.3	0.3	0.1	3.6	11.8	43.0	28.5	71.5
1980	**2.4**	**0.0**	**2.4**	**22.7**	**1.5**	**0.2**	**0.3**	**0.6**	*	**2.6**	**12.5**	**40.2**	**30.3**	**70.6**
1981	3.3	0.0	3.3	23.1	4.1	0.1	0.3	0.7	*	5.2	13.9	45.4	33.2	78.6
1982	3.0	*	3.0	21.5	1.8	0.1	0.2	0.7	*	2.7	14.4	41.7	34.6	76.2
1983	3.8	*	3.8	19.5	3.1	0.3	0.2	1.4	*	5.0	14.6	42.9	35.1	78.0
1984	3.5	0.0	3.5	19.8	3.2	0.1	0.1	1.3	*	4.8	14.7	42.8	34.2	77.0
1985	**1.3**	*	**1.3**	**18.4**	**3.5**	**0.3**	**0.1**	**1.6**	*	**5.6**	**15.2**	**40.5**	**35.7**	**76.2**
1986	1.8	0.0	1.8	17.2	4.4	0.2	0.2	1.7	*	6.4	15.8	41.2	36.1	77.3
1987	2.3	0.0	2.3	18.0	2.6	0.2	0.2	1.7	*	4.7	16.2	41.3	37.0	78.3
1988	1.8	0.0	1.8	24.1	2.1	0.2	0.2	1.6	0.8	4.9	16.8	47.7	37.9	85.5
1989	2.4	*	2.4	25.0	2.9	0.2	0.3	1.6	0.2	5.2	17.1	49.8	38.4	88.2

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 306. Industrial Energy Consumption Estimates, 1960–1989, West Virginia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				Trillion Btu
1960	**7,767**	**35**	**7,802**	**76**	**918**	**452**	**120**	**290**	**372**	**204**	**1,437**	**4,704**	**8,497**	**540**	**5,915**	**14,713**		
1961	8,270	31	8,301	90	775	645	73	300	362	178	1,201	5,945	9,480	567	6,108	14,886		
1962	8,255	29	8,283	79	804	720	48	370	363	184	1,441	6,562	10,493	604	6,577	15,811		
1963	9,617	32	9,648	76	711	803	24	374	363	178	1,537	11,881	15,871	450	6,934	16,583		
1964	10,524	36	10,560	82	824	625	46	412	381	160	2,239	12,568	17,255	517	7,357	17,522		
1965	**10,715**	**32**	**10,747**	**81**	**907**	**890**	**60**	**627**	**438**	**155**	**2,080**	**11,875**	**17,033**	**493**	**7,984**	**19,063**		
1966	10,857	27	10,884	84	746	995	69	584	455	147	2,509	11,700	17,205	375	8,279	19,866		
1967	10,315	27	10,342	65	504	1,109	89	615	446	144	1,998	13,059	17,964	585	8,158	19,489		
1968	10,835	23	10,858	90	781	1,307	39	729	490	137	1,781	14,304	19,567	538	8,915	21,270		
1969	10,538	19	10,558	91	678	1,304	65	836	491	128	1,786	14,538	19,825	535	9,455	22,586		
1970	**10,263**	**16**	**10,279**	**93**	**863**	**1,087**	**39**	**907**	**500**	**114**	**1,621**	**14,523**	**19,655**	**558**	**9,426**	**22,842**		
1971	9,396	12	9,408	89	999	1,113	39	969	546	96	1,467	13,057	18,285	661	9,260	22,387		
1972	9,753	8	9,760	98	1,038	1,396	54	1,076	584	87	1,088	14,970	20,294	712	9,492	22,847		
1973	10,108	7	10,115	87	911	1,388	39	1,217	563	85	854	16,368	21,425	679	9,977	23,884		
1974	9,738	8	9,747	88	815	1,308	129	1,386	539	94	561	17,332	22,164	671	10,271	25,044		
1975	**8,414**	**10**	**8,424**	**68**	**944**	**1,533**	**144**	**1,095**	**447**	**78**	**1,787**	**16,544**	**22,571**	**595**	**9,102**	**21,955**		
1976	8,680	11	8,691	65	1,056	2,031	144	1,049	496	74	3,961	12,144	20,957	606	9,816	23,645		
1977	7,537	9	7,546	59	890	3,315	70	1,084	420	81	3,979	14,948	24,787	526	9,987	24,117		
1978	6,972	8	6,980	61	1,155	2,488	66	934	451	64	2,722	15,873	23,752	504	10,077	24,653		
1979	6,495	5	6,500	61	1,163	4,091	103	2,607	472	65	1,950	19,159	29,612	719	11,017	26,588		
1980	**6,275**	**9**	**6,284**	**59**	**717**	**3,585**	**51**	**2,955**	**420**	**81**	**1,458**	**20,395**	**29,663**	**690**	**10,567**	**25,695**		
1981	5,537	9	5,546	64	740	2,517	71	2,753	403	73	989	19,840	27,385	690	11,083	26,413		
1982	4,797	15	4,812	53	663	2,283	115	2,363	368	65	1,388	15,069	22,313	690	9,913	23,809		
1983	4,054	11	4,065	48	408	2,147	97	2,318	385	56	1,096	12,288	18,795	690	9,669	23,164		
1984	4,965	15	4,980	50	478	2,202	39	128	411	118	1,063	14,106	18,543	690	10,017	23,261		
1985	**3,545**	**6**	**3,551**	**45**	**430**	**1,897**	**80**	**560**	**383**	**229**	**671**	**13,876**	**18,125**	**690**	**9,673**	**22,684**		
1986	4,186	9	4,195	44	565	1,879	39	616	374	229	742	16,193	20,637	690	9,003	20,643		
1987	4,136	8	4,144	50	537	2,531	68	597	423	236	376	16,357	21,125	690	9,067	20,664		
1988	4,706	6	4,712	49	879	2,586	48	630	408	236	336	16,819	21,943	690	9,925	22,414		
1989	4,744	5	4,749	58	812	2,590	43	820	418	248	423	17,079	22,434	690	10,195	22,867		
								Trillion Btu										
1960	**203.5**	**0.9**	**204.4**	**78.4**	**6.1**	**2.6**	**0.7**	**1.2**	**2.3**	**1.1**	**9.0**	**27.3**	**50.3**	**5.8**	**20.2**	**359.0**	**50.2**	**409.2**
1961	216.2	0.8	217.0	92.7	5.1	3.8	0.4	1.2	2.2	0.9	7.6	34.7	55.9	6.0	20.8	392.4	50.8	443.2
1962	215.5	0.7	216.2	81.6	5.3	4.2	0.3	1.5	2.2	1.0	9.1	38.3	61.8	6.4	22.4	388.5	53.9	442.5
1963	250.9	0.8	251.7	80.2	4.7	4.7	0.1	1.5	2.2	0.9	9.7	67.2	91.0	4.7	23.7	451.3	56.6	507.8
1964	274.4	0.9	275.3	86.5	5.5	3.6	0.3	1.7	2.3	0.8	14.1	70.9	99.2	5.4	25.1	491.4	59.8	551.2
1965	**279.2**	**0.8**	**280.0**	**87.1**	**6.0**	**5.2**	**0.3**	**2.5**	**2.7**	**0.8**	**13.1**	**67.0**	**97.6**	**5.1**	**27.2**	**497.1**	**65.0**	**562.1**
1966	281.7	0.7	282.3	87.8	5.0	5.8	0.4	2.3	2.8	0.8	15.8	65.3	98.1	3.9	28.2	500.4	67.8	568.2
1967	266.3	0.6	266.9	67.8	3.3	6.5	0.5	2.4	2.7	0.8	12.6	72.5	101.1	6.1	27.8	469.7	66.5	536.2
1968	279.5	0.5	280.0	93.8	5.2	7.6	0.2	2.8	3.0	0.7	11.2	79.3	110.0	5.6	30.4	519.8	72.6	592.3
1969	270.7	0.4	271.2	94.6	4.5	7.6	0.4	3.2	3.0	0.7	11.2	80.5	111.1	5.6	32.3	514.7	77.1	591.8
1970	**259.8**	**0.4**	**260.2**	**95.7**	**5.7**	**6.3**	**0.2**	**3.4**	**3.0**	**0.6**	**10.2**	**80.4**	**109.9**	**5.9**	**32.2**	**503.9**	**77.9**	**581.8**
1971	235.5	0.3	235.8	91.8	6.6	6.5	0.2	3.7	3.3	0.5	9.2	72.6	102.6	6.9	31.6	468.7	76.4	545.1
1972	245.2	0.2	245.4	100.7	6.9	8.1	0.3	4.0	3.5	0.5	6.8	83.7	113.9	7.4	32.4	499.7	78.0	577.7
1973	255.1	0.2	255.2	89.6	6.0	8.1	0.2	4.6	3.4	0.4	5.4	91.8	119.9	7.1	34.0	505.8	81.5	587.3
1974	245.3	0.2	245.5	90.0	5.4	7.6	0.7	5.2	3.3	0.5	3.5	96.9	123.1	7.0	35.0	500.6	85.4	586.1
1975	**212.3**	**0.2**	**212.5**	**70.5**	**6.3**	**8.9**	**0.8**	**4.1**	**2.7**	**0.4**	**11.2**	**92.8**	**127.2**	**6.2**	**31.1**	**447.5**	**74.9**	**522.4**
1976	223.0	0.3	223.2	67.5	7.0	11.8	0.8	3.9	3.0	0.4	24.9	68.2	120.1	6.3	33.5	450.6	80.7	531.3
1977	193.1	0.2	193.3	61.0	5.9	19.3	0.4	4.0	2.5	0.4	25.0	84.6	142.2	5.5	34.1	436.1	82.3	518.4
1978	178.3	0.2	178.5	62.6	7.7	14.5	0.4	3.4	2.7	0.3	17.1	89.9	136.1	5.2	34.4	416.8	84.1	500.9
1979	167.2	0.1	167.3	62.7	7.7	23.8	0.6	9.6	2.9	0.3	12.3	106.7	163.9	7.4	37.6	438.9	90.7	529.6
1980	**162.2**	**0.2**	**162.4**	**61.4**	**4.8**	**20.9**	**0.3**	**10.9**	**2.5**	**0.4**	**9.2**	**112.5**	**161.4**	**7.2**	**36.1**	**428.4**	**87.7**	**516.1**
1981	142.7	0.2	142.9	66.3	4.9	14.7	0.4	10.0	2.4	0.4	6.2	109.3	148.4	7.2	37.8	402.6	90.1	492.7
1982	123.3	0.4	123.6	55.5	4.4	13.3	0.7	8.5	2.2	0.3	8.7	82.8	121.0	7.2	33.8	341.1	81.2	422.4
1983	104.0	0.3	104.3	49.5	2.7	12.5	0.5	8.4	2.3	0.3	6.9	68.8	102.5	7.3	33.0	296.5	79.0	375.5
1984	126.6	0.4	127.0	52.3	3.2	12.8	0.2	0.5	2.5	0.6	6.7	76.6	103.1	7.1	34.2	323.7	79.4	403.1
1985	**90.8**	**0.1**	**91.0**	**48.4**	**2.9**	**11.1**	**0.5**	**2.0**	**2.3**	**1.2**	**4.2**	**75.8**	**99.9**	**7.1**	**33.0**	**279.4**	**77.4**	**356.8**
1986	108.2	0.2	108.4	47.0	3.8	10.9	0.2	2.2	2.3	1.2	4.7	88.8	114.1	7.1	30.7	307.3	70.4	377.7
1987	106.7	0.2	106.9	54.0	3.6	14.7	0.4	2.2	2.6	1.2	2.4	89.1	116.1	7.1	30.9	315.0	70.5	385.5
1988	121.6	0.2	121.7	52.5	5.8	15.1	0.3	2.3	2.5	1.2	2.1	92.1	121.4	7.1	33.9	336.6	76.5	413.0
1989	122.1	0.1	122.2	62.8	5.4	15.1	0.2	3.0	2.5	1.3	2.7	93.5	123.8	7.1	34.8	350.7	78.0	428.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 307. Transportation Energy Consumption Estimates, 1960–1989, West Virginia

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**137**	**8**	**119**	**1,742**	**169**	**2**	**199**	**11,340**	**3**	**13,573**	**0**		**0**	
1961	38	8	35	1,482	147	2	193	11,413	3	13,275	0		0	
1962	34	8	13	1,345	153	9	168	11,691	0	13,378	0		0	
1963	37	9	257	1,350	138	7	168	12,289	7	14,215	0		0	
1964	40	14	214	1,331	148	5	176	12,087	4	13,965	0		0	
1965	**36**	**18**	**201**	**1,530**	**130**	**4**	**198**	**12,541**	**0**	**14,603**	**0**		**0**	
1966	33	18	231	1,625	178	2	205	13,179	0	15,421	0		0	
1967	25	17	173	1,601	198	2	170	13,509	75	15,727	0		0	
1968	24	17	157	1,960	250	1	186	14,333	81	16,969	0		0	
1969	18	0	99	2,028	298	5	181	14,737	26	17,374	0		0	
1970	**17**	**8**	**78**	**2,485**	**290**	**10**	**185**	**15,660**	**5**	**18,713**	**0**		**0**	
1971	12	10	67	3,056	231	11	215	16,275	0	19,856	0		0	
1972	10	15	60	3,470	181	16	230	16,760	0	20,717	0		0	
1973	7	18	61	3,977	179	15	222	18,056	0	22,509	0		0	
1974	5	16	62	3,687	195	14	213	18,173	0	22,343	0		0	
1975	**1**	**14**	**58**	**3,589**	**242**	**14**	**239**	**19,176**	**0**	**23,318**	**0**		**0**	
1976	1	14	58	3,032	254	16	266	20,404	0	24,031	0		0	
1977	*	15	61	3,700	282	18	250	21,063	0	25,375	0		0	
1978	0	15	59	4,092	283	25	268	21,142	0	25,870	0		0	
1979	0	17	59	4,228	322	20	281	20,370	1	25,282	0		0	
1980	**0**	**13**	**65**	**4,846**	**353**	**14**	**250**	**19,199**	**0**	**24,728**	**0**		**0**	
1981	0	15	32	4,500	325	32	240	18,603	0	23,732	0		0	
1982	0	13	23	3,734	293	20	219	18,764	0	23,054	0		0	
1983	0	9	44	6,522	277	24	229	18,367	0	25,462	0		0	
1984	0	16	39	6,922	242	15	244	18,163	0	25,624	0		0	
1985	**0**	**18**	**39**	**6,386**	**235**	**17**	**228**	**17,972**	*****	**24,876**	**0**		**0**	
1986	0	16	50	4,105	219	15	223	18,098	0	22,710	0		0	
1987	0	12	35	5,000	211	12	252	18,734	0	24,244	0		0	
1988	0	13	38	5,194	248	18	243	19,225	0	24,967	0		0	
1989	0	11	38	5,952	380	16	249	18,918	0	25,554	0		0	
							Trillion Btu					Net Energy[4]		Total[4]
1960	**3.5**	**8.7**	**0.6**	**10.1**	**0.9**	*****	**1.2**	**59.6**	*****	**72.5**	**0.0**	**84.7**	**0.0**	**84.7**
1961	1.0	7.8	0.2	8.6	0.8	*	1.2	60.0	*	70.8	0.0	79.5	0.0	79.5
1962	0.9	8.1	0.1	7.8	0.8	*	1.0	61.4	0.0	71.2	0.0	80.1	0.0	80.1
1963	0.9	9.6	1.3	7.9	0.7	*	1.0	64.6	*	75.5	0.0	86.1	0.0	86.1
1964	1.0	14.6	1.1	7.8	0.8	*	1.1	63.5	*	74.2	0.0	89.8	0.0	89.8
1965	**0.9**	**19.3**	**1.0**	**8.9**	**0.7**	*****	**1.2**	**65.9**	**0.0**	**77.7**	**0.0**	**97.9**	**0.0**	**97.9**
1966	0.8	18.6	1.2	9.5	1.0	*	1.2	69.2	0.0	82.1	0.0	101.5	0.0	101.5
1967	0.6	17.4	0.9	9.3	1.1	*	1.0	71.0	0.5	83.8	0.0	101.8	0.0	101.8
1968	0.6	17.4	0.8	11.4	1.4	*	1.1	75.3	0.5	90.5	0.0	108.6	0.0	108.6
1969	0.4	0.0	0.5	11.8	1.7	*	1.1	77.4	0.2	92.7	0.0	93.1	0.0	93.1
1970	**0.4**	**8.1**	**0.4**	**14.5**	**1.6**	*****	**1.1**	**82.3**	*****	**99.9**	**0.0**	**108.5**	**0.0**	**108.5**
1971	0.3	10.4	0.3	17.8	1.3	*	1.3	85.5	0.0	106.3	0.0	116.9	0.0	116.9
1972	0.2	15.2	0.3	20.2	1.0	0.1	1.4	88.0	0.0	111.0	0.0	126.5	0.0	126.5
1973	0.2	18.1	0.3	23.2	1.0	0.1	1.3	94.8	0.0	120.7	0.0	139.0	0.0	139.0
1974	0.1	16.1	0.3	21.5	1.1	0.1	1.3	95.5	0.0	119.7	0.0	135.8	0.0	135.8
1975	*****	**14.6**	**0.3**	**20.9**	**1.3**	**0.1**	**1.5**	**100.7**	**0.0**	**124.8**	**0.0**	**139.4**	**0.0**	**139.4**
1976	*	14.5	0.3	17.7	1.4	0.1	1.6	107.2	0.0	128.2	0.0	142.7	0.0	142.7
1977	*	15.4	0.3	21.6	1.6	0.1	1.5	110.6	0.0	135.7	0.0	151.1	0.0	151.1
1978	0.0	15.7	0.3	23.8	1.6	0.1	1.6	111.1	0.0	138.5	0.0	154.2	0.0	154.2
1979	0.0	17.3	0.3	24.6	1.8	0.1	1.7	107.0	*	135.5	0.0	152.9	0.0	152.9
1980	**0.0**	**13.6**	**0.3**	**28.2**	**2.0**	**0.1**	**1.5**	**100.9**	**0.0**	**133.0**	**0.0**	**146.6**	**0.0**	**146.6**
1981	0.0	15.9	0.2	26.2	1.8	0.1	1.5	97.7	0.0	127.5	0.0	143.4	0.0	143.4
1982	0.0	14.0	0.1	21.8	1.6	0.1	1.3	98.6	0.0	123.5	0.0	137.5	0.0	137.5
1983	0.0	9.6	0.2	38.0	1.5	0.1	1.4	96.5	0.0	137.7	0.0	147.3	0.0	147.3
1984	0.0	17.0	0.2	40.3	1.3	0.1	1.5	95.4	0.0	138.8	0.0	155.8	0.0	155.8
1985	**0.0**	**19.0**	**0.2**	**37.2**	**1.3**	**0.1**	**1.4**	**94.4**	*****	**134.6**	**0.0**	**153.5**	**0.0**	**153.5**
1986	0.0	17.6	0.3	23.9	1.2	0.1	1.3	95.1	0.0	121.9	0.0	139.5	0.0	139.5
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1988	0.0	14.2	0.2	30.3	1.4	0.1	1.5	101.0	0.0	134.4	0.0	148.6	0.0	148.6
1989	0.0	12.1	0.2	34.7	2.1	0.1	1.5	99.4	0.0	137.9	0.0	150.1	0.0	150.1

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 308. Estimates of Energy Input at Electric Utilities, 1960-1989, West Virginia

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**5,879**	**0**	**5,879**	**1**	**33**	*	**0**	**33**	**0**	**398**	**0**	**0**	
1961	6,841	0	6,841	1	26	*	0	27	0	475	0	0	
1962	7,001	0	7,001	1	30	*	0	30	0	435	0	0	
1963	7,528	0	7,528	1	33	*	0	33	0	351	0	0	
1964	7,788	0	7,788	1	36	*	0	36	0	387	0	0	
1965	**8,025**	**0**	**8,025**	**1**	**61**	*	**0**	**62**	**0**	**336**	**0**	**0**	
1966	9,678	0	9,678	1	101	1	0	101	0	392	0	*	
1967	11,329	0	11,329	1	103	1	0	104	0	465	0	*	
1968	13,120	0	13,120	1	129	1	0	130	0	418	0	*	
1969	14,559	0	14,559	1	194	1	0	196	0	417	0	0	
1970	**14,889**	**0**	**14,889**	**1**	**430**	**3**	**0**	**433**	**0**	**437**	**0**	*	
1971	16,338	0	16,338	*	408	4	0	411	0	486	0	0	
1972	19,805	0	19,805	*	658	15	0	672	0	534	0	0	
1973	23,206	0	23,206	*	519	16	0	535	0	497	0	0	
1974	25,501	0	25,501	*	1,172	9	0	1,181	0	477	0	0	
1975	**25,805**	**0**	**25,805**	*	**708**	**14**	**0**	**722**	**0**	**467**	**0**	**0**	
1976	27,433	0	27,433	*	736	31	0	768	0	420	0	0	
1977	27,842	0	27,842	*	902	15	0	917	0	417	0	0	
1978	25,608	0	25,608	*	1,501	2	0	1,503	0	420	0	0	
1979	27,373	0	27,373	*	785	2	0	787	0	513	0	0	
1980	**28,499**	**0**	**28,499**	*	**0**	**683**	**0**	**683**	**0**	**424**	**0**	**0**	
1981	30,139	0	30,139	*	0	826	0	826	0	400	0	0	
1982	27,796	0	27,796	*	0	522	0	522	0	428	0	0	
1983	28,970	0	28,970	*	0	418	0	418	0	419	0	0	
1984	31,058	0	31,058	*	0	383	0	383	0	448	0	0	
1985	**31,367**	**0**	**31,367**	*	**0**	**369**	**0**	**369**	**0**	**356**	**0**	**0**	
1986	30,790	0	30,790	*	0	381	0	381	0	361	0	0	
1987	30,605	0	30,605	*	0	383	0	383	0	315	0	0	
1988	31,704	0	31,704	*	0	356	0	356	0	297	0	0	
1989	32,391	0	32,391	*	0	402	0	402	0	476	0	0	
	Trillion Btu												
1960	**140.6**	**0.0**	**140.6**	**1.0**	**0.2**	*	**0.0**	**0.2**	**0.0**	**4.3**	**0.0**	**0.0**	**146.0**
1961	162.4	0.0	162.4	0.8	0.2	*	0.0	0.2	0.0	5.1	0.0	0.0	168.4
1962	166.2	0.0	166.2	0.8	0.2	*	0.0	0.2	0.0	4.6	0.0	0.0	171.8
1963	178.8	0.0	178.8	0.7	0.2	*	0.0	0.2	0.0	3.7	0.0	0.0	183.4
1964	185.3	0.0	185.3	0.9	0.2	*	0.0	0.2	0.0	4.1	0.0	0.0	190.5
1965	**190.5**	**0.0**	**190.5**	**1.0**	**0.4**	*	**0.0**	**0.4**	**0.0**	**3.5**	**0.0**	**0.0**	**195.4**
1966	229.3	0.0	229.3	0.9	0.6	*	0.0	0.6	0.0	4.1	0.0	*	235.0
1967	266.6	0.0	266.6	0.6	0.6	*	0.0	0.7	0.0	4.8	0.0	*	272.7
1968	312.0	0.0	312.0	0.8	0.8	*	0.0	0.8	0.0	4.4	0.0	*	317.9
1969	346.1	0.0	346.1	0.8	1.2	*	0.0	1.2	0.0	4.4	0.0	0.0	352.5
1970	**347.2**	**0.0**	**347.2**	**0.7**	**2.7**	*	**0.0**	**2.7**	**0.0**	**4.6**	**0.0**	*	**355.2**
1971	376.7	0.0	376.7	0.4	2.6	*	0.0	2.6	0.0	5.1	0.0	0.0	384.8
1972	464.8	0.0	464.8	0.2	4.1	0.1	0.0	4.2	0.0	5.5	0.0	0.0	474.8
1973	548.6	0.0	548.6	0.2	3.3	0.1	0.0	3.4	0.0	5.2	0.0	0.0	557.3
1974	585.9	0.0	585.9	0.2	7.4	*	0.0	7.4	0.0	5.0	0.0	0.0	598.5
1975	**599.2**	**0.0**	**599.2**	**0.2**	**4.4**	**0.1**	**0.0**	**4.5**	**0.0**	**4.9**	**0.0**	**0.0**	**608.8**
1976	644.6	0.0	644.6	0.2	4.6	0.2	0.0	4.8	0.0	4.4	0.0	0.0	653.9
1977	648.8	0.0	648.8	*	5.7	0.1	0.0	5.8	0.0	4.3	0.0	0.0	659.0
1978	600.8	0.0	600.8	*	9.4	*	0.0	9.4	0.0	4.4	0.0	0.0	614.6
1979	654.2	0.0	654.2	0.1	4.9	*	0.0	4.9	0.0	5.3	0.0	0.0	664.5
1980	**691.7**	**0.0**	**691.7**	**0.1**	**0.0**	**4.0**	**0.0**	**4.0**	**0.0**	**4.4**	**0.0**	**0.0**	**700.1**
1981	729.6	0.0	729.6	0.2	0.0	4.8	0.0	4.8	0.0	4.2	0.0	0.0	738.8
1982	679.6	0.0	679.6	0.1	0.0	3.0	0.0	3.0	0.0	4.5	0.0	0.0	687.3
1983	716.0	0.0	716.0	0.1	0.0	2.4	0.0	2.4	0.0	4.4	0.0	0.0	723.0
1984	766.1	0.0	766.1	0.1	0.0	2.2	0.0	2.2	0.0	4.6	0.0	0.0	773.1
1985	**778.7**	**0.0**	**778.7**	**0.1**	**0.0**	**2.1**	**0.0**	**2.1**	**0.0**	**3.8**	**0.0**	**0.0**	**784.8**
1986	766.0	0.0	766.0	0.3	0.0	2.2	0.0	2.2	0.0	3.7	0.0	0.0	772.2
1987	761.2	0.0	761.2	0.2	0.0	2.2	0.0	2.2	0.0	3.2	0.0	0.0	766.9
1988	790.9	0.0	790.9	0.1	0.0	2.1	0.0	2.1	0.0	3.0	0.0	0.0	796.1
1989	803.0	0.0	803.0	0.1	0.0	2.3	0.0	2.3	0.0	4.9	0.0	0.0	810.4

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 309. Energy Consumption Estimates by Source, 1960–1989, Wisconsin

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**12,737**	**91**	**2,847**	**427**	**21,750**	**245**	**2,964**	**4,258**	**872**	**33,125**	**4,394**	**692**	**71,575**	**0**	**2,399**	**0**	**0**	**-185**	
1961	12,880	114	2,450	382	22,249	258	3,033	4,197	849	33,140	4,129	670	71,357	0	2,017	0	0	192	
1962	12,946	137	2,641	679	23,480	357	2,764	4,626	896	33,894	3,840	771	73,948	0	2,137	0	1	123	
1963	13,316	152	2,566	678	23,404	469	2,477	5,313	896	34,631	4,165	810	75,410	0	1,551	0	7	-361	
1964	13,873	170	2,187	639	23,380	513	2,198	5,011	941	35,017	4,152	1,389	75,425	0	1,532	0	5	612	
1965	**14,528**	**200**	**2,806**	**636**	**23,508**	**629**	**1,249**	**5,246**	**898**	**36,295**	**3,209**	**1,394**	**75,870**	**0**	**2,131**	**0**	**2**	**1,343**	
1966	15,598	225	3,171	627	23,958	629	1,319	6,751	933	37,892	3,166	1,106	79,552	0	2,052	0	*	238	
1967	15,242	248	3,073	626	26,387	938	3,985	6,852	851	38,668	2,345	1,036	84,762	0	2,072	0	29	721	
1968	15,050	272	2,893	548	26,333	1,346	4,077	7,105	935	41,322	2,182	1,189	87,931	0	2,391	0	41	2,478	
1969	15,989	316	3,805	358	25,985	1,687	3,648	7,599	974	43,215	2,196	1,343	90,810	0	2,158	0	33	-819	
1970	**16,899**	**338**	**4,671**	**332**	**25,841**	**1,603**	**3,002**	**7,679**	**992**	**45,483**	**2,936**	**1,661**	**94,201**	**157**	**1,904**	**0**	**8**	**-1,922**	
1971	15,044	348	4,461	274	26,538	1,872	2,254	7,935	975	46,818	2,155	1,984	95,266	3,469	2,230	0	0	-3,259	
1972	14,709	321	4,408	279	26,833	2,014	1,533	8,769	1,044	49,625	2,411	2,138	99,055	3,294	2,413	0	0	-1,493	
1973	13,636	368	5,001	200	27,430	2,283	1,499	8,735	1,220	51,239	2,520	2,219	102,346	5,952	2,444	0	0	-3,203	
1974	12,632	381	3,635	198	26,913	2,146	1,110	8,472	1,168	50,702	1,881	2,222	98,447	8,256	2,020	0	0	-1,965	
1975	**12,733**	**365**	**3,019**	**173**	**26,561**	**2,206**	**974**	**8,448**	**923**	**51,548**	**2,106**	**2,096**	**98,053**	**10,293**	**2,037**	**0**	**0**	**-1,338**	
1976	13,991	315	3,578	172	30,155	2,243	778	9,470	1,025	53,642	3,211	2,256	106,530	10,722	1,652	0	0	-2,292	
1977	14,297	349	3,153	182	30,646	2,291	665	10,705	1,019	54,934	3,641	2,160	109,397	10,945	1,821	0	*	1,105	
1978	13,980	371	4,079	128	32,663	2,370	692	9,106	1,094	56,790	3,663	2,312	112,898	11,718	2,371	0	20	2,474	
1979	15,156	368	3,316	113	32,137	2,591	221	6,888	1,145	53,781	2,478	2,436	105,105	10,403	2,294	0	33	2,368	
1980	**15,644**	**352**	**3,016**	**124**	**22,495**	**2,397**	**222**	**6,036**	**1,019**	**49,606**	**1,772**	**2,393**	**89,080**	**9,911**	**2,115**	**0**	**62**	**4,498**	
1981	16,186	325	1,948	108	20,968	2,282	125	4,932	977	48,233	866	3,397	83,835	9,719	2,142	0	57	8,241	
1982	15,794	312	2,111	31	20,511	2,097	242	5,914	891	46,233	2,132	2,790	82,952	10,268	2,422	0	73	6,699	
1983	17,407	299	2,041	113	20,465	1,843	118	5,950	933	46,837	793	2,790	81,884	9,299	2,556	0	59	6,133	
1984	17,949	305	1,516	96	21,956	1,605	165	8,699	995	46,648	813	3,159	85,652	10,745	2,338	0	79	14,750	
1985	**18,034**	**308**	**1,690**	**102**	**22,605**	**1,663**	**355**	**8,612**	**927**	**46,545**	**437**	**2,865**	**85,803**	**10,979**	**2,546**	**0**	**88**	**18,691**	
1986	18,743	279	2,055	108	21,953	1,562	96	8,262	907	47,422	1,242	2,497	86,104	11,199	2,419	0	112	16,460	
1987	19,652	279	2,396	83	21,150	1,448	102	7,651	1,025	47,381	1,232	2,659	85,126	11,311	1,576	0	154	7,172	
1988	20,038	317	3,416	93	24,182	1,344	62	8,914	989	49,587	1,178	2,704	92,469	11,464	1,488	0	164	13,007	
1989	19,921	331	3,805	129	24,281	1,343	68	9,755	1,014	49,106	1,312	2,673	93,486	10,848	1,577	0	181	15,802	
									Trillion Btu										
1960	**304.7**	**93.8**	**18.9**	**2.2**	**126.7**	**1.3**	**16.8**	**17.1**	**5.3**	**174.0**	**27.6**	**4.0**	**393.9**	**0.0**	**25.8**	**0.0**	**0.0**	**-0.6**	**817.5**
1961	307.8	117.7	16.3	1.9	129.6	1.4	17.2	16.8	5.1	174.1	26.0	3.8	392.3	0.0	21.5	0.0	0.0	0.7	839.9
1962	310.3	141.3	17.5	3.4	136.8	2.0	15.7	18.6	5.4	178.0	24.1	4.5	406.0	0.0	22.6	0.0	*	0.4	880.6
1963	319.3	156.2	17.0	3.4	136.3	2.6	14.0	21.3	5.4	181.9	26.2	4.7	413.0	0.0	16.3	0.0	0.1	-1.2	903.5
1964	333.4	173.9	14.5	3.2	136.2	2.9	12.5	20.1	5.7	183.9	26.1	7.7	412.8	0.0	16.0	0.0	*	2.1	938.3
1965	**347.9**	**204.1**	**18.6**	**3.2**	**136.9**	**3.5**	**7.1**	**21.0**	**5.4**	**190.7**	**20.2**	**7.7**	**414.4**	**0.0**	**22.3**	**0.0**	*	**4.6**	**993.3**
1966	370.7	229.4	21.0	3.2	139.6	3.5	7.5	27.1	5.7	199.0	19.9	6.2	432.6	0.0	21.4	0.0	*	0.8	1,054.9
1967	360.8	253.7	20.4	3.2	153.7	5.3	22.6	26.3	5.2	203.1	14.7	5.8	460.3	0.0	21.6	0.0	0.3	2.5	1,099.2
1968	356.2	278.6	19.2	2.8	153.4	7.6	23.1	27.1	5.7	217.1	13.7	6.7	476.3	0.0	24.9	0.0	0.4	8.5	1,144.8
1969	373.9	324.2	25.3	1.8	151.4	9.5	20.7	28.9	5.9	227.0	13.8	7.6	491.8	0.0	22.5	0.0	0.3	-2.8	1,210.0
1970	**381.6**	**344.2**	**31.0**	**1.7**	**150.5**	**9.0**	**17.0**	**29.0**	**6.0**	**238.9**	**18.5**	**9.5**	**511.2**	**1.7**	**20.0**	**0.0**	**0.1**	**-6.6**	**1,252.2**
1971	337.3	354.7	29.6	1.4	154.6	10.6	12.8	29.9	5.9	245.9	13.6	11.2	515.5	37.6	23.4	0.0	0.0	-11.1	1,257.3
1972	333.6	326.9	29.3	1.4	156.3	11.4	8.7	33.0	6.3	260.7	15.2	12.1	534.3	35.5	25.0	0.0	0.0	-5.1	1,250.3
1973	310.7	373.5	33.2	1.0	159.8	12.9	8.5	32.7	7.4	269.2	15.8	12.5	553.0	64.9	25.4	0.0	0.0	-10.9	1,316.6
1974	278.6	386.9	24.1	1.0	156.8	12.1	6.3	31.6	7.1	266.3	11.8	12.5	529.7	92.1	21.1	0.0	0.0	-6.7	1,301.7
1975	**272.0**	**372.1**	**20.0**	**0.9**	**154.7**	**12.5**	**5.5**	**31.4**	**5.6**	**270.8**	**13.2**	**11.9**	**526.5**	**113.4**	**21.2**	**0.0**	**0.0**	**-4.6**	**1,300.6**
1976	304.0	320.5	23.7	0.9	175.7	12.7	4.4	35.1	6.2	281.8	20.2	12.7	573.4	118.5	17.1	0.0	0.0	-7.8	1,325.7
1977	307.5	354.4	20.9	0.9	178.5	13.0	3.8	39.4	6.2	288.6	22.9	12.2	586.3	117.9	19.0	0.0	*	3.8	1,388.8
1978	296.1	375.3	27.1	0.6	190.3	13.4	3.9	33.4	6.6	298.3	23.0	13.0	609.7	128.2	24.6	0.0	0.2	8.4	1,442.4
1979	321.1	372.3	22.0	0.6	187.2	14.6	1.3	25.3	6.9	282.5	15.6	13.7	569.7	113.2	23.7	0.0	0.3	8.1	1,408.3
1980	**327.3**	**354.7**	**20.0**	**0.6**	**131.0**	**13.5**	**1.3**	**22.2**	**6.2**	**260.6**	**11.1**	**13.4**	**479.9**	**108.1**	**22.0**	**0.0**	**0.6**	**15.3**	**1,307.9**
1981	327.3	327.5	12.9	0.5	122.1	12.9	0.7	18.0	5.9	253.4	5.4	18.8	450.7	107.2	22.4	0.0	0.6	28.1	1,263.9
1982	324.1	315.8	14.0	0.2	119.5	11.8	1.4	21.4	5.4	242.9	13.4	15.5	445.4	113.7	25.3	0.0	0.8	22.9	1,247.9
1983	352.8	301.8	13.5	0.6	119.2	10.4	0.7	21.5	5.7	246.0	5.0	15.6	438.2	101.4	26.9	0.0	0.6	20.9	1,242.6
1984	363.4	307.5	10.1	0.5	127.9	9.0	0.9	31.3	6.0	245.0	5.1	17.4	453.3	116.5	24.1	0.0	0.8	50.3	1,316.0
1985	**360.7**	**311.4**	**11.2**	**0.5**	**131.7**	**9.3**	**2.0**	**31.0**	**5.6**	**244.5**	**2.8**	**15.8**	**454.5**	**118.7**	**26.3**	**0.0**	**0.9**	**63.8**	**1,336.4**
1986	371.4	281.6	12.6	0.5	127.9	8.8	0.5	30.1	5.5	249.1	7.9	[illegible]	[illegible]	[illegible]	[illegible]	0.0	1.1	55.2	[illegible]
1987	386.6	281.6	15.9	0.4	123.2	8.1	0.6	28.0	6.2	248.9	7.7	14.7	453.7	121.9	16.2	0.0	1.6	24.5	1,286.0
1988	394.1	319.7	22.7	0.5	140.9	7.5	0.4	32.6	6.0	260.5	7.4	15.0	493.4	123.2	15.2	0.0	1.7	44.4	1,391.6
1989	393.3	332.4	25.2	0.6	141.4	7.5	0.4	35.9	6.2	258.0	8.3	14.8	498.4	116.3	16.3	0.0	1.9	53.9	1,412.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 310. Residential Energy Consumption Estimates, 1960–1989, Wisconsin

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**960**	**4**	**964**	**47**	**11,206**	**1,227**	**2,675**	**15,107**	**5,298**	**13,178**
1961	1,034	4	1,037	52	11,405	1,669	2,698	15,772	5,574	13,585
1962	976	3	979	59	11,908	1,507	3,240	16,656	5,870	14,112
1963	792	3	795	64	11,757	1,396	3,624	16,778	6,143	14,692
1964	638	3	641	68	11,584	1,189	3,585	16,359	6,498	15,475
1965	**706**	**3**	**709**	**79**	**11,790**	**660**	**3,692**	**16,142**	**6,963**	**16,624**
1966	738	2	740	84	11,886	670	4,907	17,463	7,395	17,744
1967	626	2	628	91	12,932	1,884	5,234	20,050	7,898	18,867
1968	622	2	623	93	12,560	1,914	5,375	19,848	8,516	20,318
1969	592	2	594	101	12,026	1,845	5,514	19,385	9,190	21,952
1970	**452**	**2**	**453**	**105**	**11,721**	**1,608**	**5,606**	**18,935**	**9,825**	**23,810**
1971	479	2	480	110	11,776	1,170	5,788	18,734	10,343	25,006
1972	262	1	264	105	11,872	831	6,345	19,048	11,055	26,609
1973	171	1	172	111	11,757	824	5,981	18,562	11,449	27,409
1974	173	1	174	116	11,494	605	5,730	17,829	11,513	28,071
1975	**202**	**1**	**202**	**120**	**11,019**	**530**	**5,405**	**16,953**	**11,782**	**28,420**
1976	185	1	186	123	12,530	397	5,604	18,531	12,133	29,227
1977	136	1	137	119	12,531	332	5,398	18,262	12,618	30,468
1978	100	1	100	129	12,780	363	5,219	18,362	13,046	31,917
1979	128	*	129	125	12,264	122	3,064	15,450	13,285	32,061
1980	**18**	**1**	**18**	**123**	**8,155**	**124**	**2,983**	**11,261**	**13,597**	**33,063**
1981	14	0	14	111	7,490	72	2,705	10,267	13,735	32,734
1982	13	1	14	118	7,565	79	2,810	10,454	13,978	33,574
1983	16	1	17	112	4,958	81	3,343	8,382	14,440	34,596
1984	43	1	44	113	5,354	137	5,173	10,664	16,025	37,212
1985	**9**	**1**	**9**	**116**	**6,423**	**297**	**5,035**	**11,755**	**16,307**	**38,240**
1986	11	1	12	111	6,426	72	4,856	11,354	16,557	37,961
1987	32	1	33	103	5,782	89	4,783	10,654	15,429	35,163
1988	27	0	27	121	6,517	48	5,540	12,105	16,383	36,998
1989	6	1	7	127	5,395	43	6,503	11,941	16,259	36,470

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Net Energy[4]	Electrical System Energy Losses[3]	Total[4]
	Trillion Btu											
1960	**21.0**	**0.1**	**21.1**	**49.1**	**65.3**	**7.0**	**10.7**	**83.0**	**18.1**	**171.2**	**45.0**	**216.2**
1961	22.6	0.1	22.7	53.9	66.4	9.5	10.8	86.7	19.0	182.4	46.4	228.8
1962	21.4	0.1	21.4	60.9	69.4	8.5	13.0	90.9	20.0	193.2	48.1	241.4
1963	17.3	0.1	17.4	65.4	68.5	7.9	14.5	90.9	21.0	194.7	50.1	244.8
1964	14.0	0.1	14.0	70.0	67.5	6.7	14.4	88.6	22.2	194.8	52.8	247.6
1965	**15.4**	**0.1**	**15.5**	**80.9**	**68.7**	**3.7**	**14.8**	**87.2**	**23.8**	**207.3**	**56.7**	**264.0**
1966	16.0	0.1	16.1	85.7	69.2	3.8	19.7	92.7	25.2	219.7	60.5	280.2
1967	13.5	*	13.6	93.1	75.3	10.7	20.1	106.1	26.9	239.7	64.4	304.1
1968	13.4	*	13.5	95.8	73.2	10.9	20.5	104.5	29.1	242.8	69.3	312.2
1969	12.7	*	12.7	103.7	70.0	10.5	21.0	101.5	31.4	249.2	74.9	324.1
1970	**9.5**	*	**9.5**	**107.2**	**68.3**	**9.1**	**21.2**	**98.6**	**33.5**	**248.9**	**81.2**	**330.1**
1971	10.0	*	10.0	111.8	68.6	6.6	21.8	97.1	35.3	254.2	85.3	339.6
1972	5.5	*	5.5	106.6	69.2	4.7	23.9	97.7	37.7	247.6	90.8	338.4
1973	3.6	*	3.6	112.2	68.5	4.7	22.4	95.6	39.1	250.4	93.5	343.9
1974	3.6	*	3.6	118.1	67.0	3.4	21.4	91.8	39.3	252.7	95.8	348.5
1975	**3.8**	*	**3.8**	**122.4**	**64.2**	**3.0**	**20.1**	**87.3**	**40.2**	**253.7**	**97.0**	**350.7**
1976	4.4	*	4.4	124.9	73.0	2.3	20.8	96.0	41.4	266.7	99.7	366.4
1977	3.2	*	3.2	121.1	73.0	1.9	19.8	94.7	43.1	262.1	104.0	366.0
1978	2.1	*	2.1	130.5	74.4	2.1	19.1	95.7	44.5	272.7	108.9	381.6
1979	2.6	*	2.6	126.3	71.4	0.7	11.3	83.4	45.3	257.7	109.4	367.1
1980	**0.4**	*	**0.4**	**124.2**	**47.5**	**0.7**	**11.0**	**59.2**	**46.4**	**230.2**	**112.8**	**343.0**
1981	0.3	0.0	0.3	112.4	43.6	0.4	9.9	53.9	46.9	213.5	111.7	325.2
1982	0.3	*	0.3	119.6	44.1	0.4	10.2	54.7	47.7	222.3	114.6	336.8
1983	0.4	*	0.4	113.4	28.9	0.5	12.1	41.4	49.3	204.4	118.0	322.5
1984	1.0	*	1.1	113.9	31.2	0.8	18.6	50.6	54.7	220.2	127.0	347.2
1985	**0.2**	*	**0.2**	**117.4**	**37.4**	**1.7**	**18.1**	**57.2**	**55.6**	**230.5**	**130.5**	**360.9**
1986	0.3	*	0.3	111.9	37.4	0.4	17.7	55.5	56.5	224.2	129.5	353.7
1987	0.8	*	0.8	104.0	33.7	0.5	17.5	51.7	52.6	209.1	120.0	329.1
1988	0.7	0.0	0.7	122.3	38.0	0.3	20.2	58.5	55.9	237.3	126.2	363.6
1989	0.1	*	0.2	127.6	31.4	0.2	23.9	55.6	55.5	238.9	124.4	363.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 311. Commercial Energy Consumption Estimates, 1960-1989, Wisconsin

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**1,782**	**3**	**1,785**	**11**	**1,817**	**101**	**472**	**295**	**556**	**3,239**	**3,059**	**7,608**		
1961	1,920	3	1,922	13	1,849	137	476	313	494	3,270	3,232	7,876		
1962	1,812	2	1,814	17	1,931	124	572	275	479	3,379	3,430	8,246		
1963	1,471	2	1,473	17	1,906	114	640	317	492	3,468	3,604	8,620		
1964	1,186	2	1,188	19	1,878	97	633	293	496	3,397	3,812	9,079		
1965	**1,312**	**2**	**1,314**	**24**	**1,911**	**54**	**652**	**309**	**407**	**3,332**	**4,160**	**9,933**		
1966	1,371	1	1,372	29	1,927	55	866	274	386	3,508	4,526	10,860		
1967	1,163	1	1,164	34	2,096	154	924	289	269	3,733	4,821	11,517		
1968	1,154	1	1,156	36	2,036	157	949	284	269	3,694	5,253	12,533		
1969	1,100	1	1,101	52	1,950	151	973	287	276	3,638	5,683	13,575		
1970	**839**	**1**	**840**	**55**	**1,900**	**132**	**989**	**56**	**244**	**3,321**	**6,180**	**14,975**		
1971	889	1	890	48	1,909	96	1,021	50	195	3,271	6,579	15,905		
1972	487	1	488	44	1,925	68	1,120	54	202	3,369	7,115	17,127		
1973	317	1	317	55	1,906	68	1,055	53	189	3,272	8,265	19,787		
1974	322	1	322	66	1,863	50	1,011	53	184	3,161	8,177	19,937		
1975	**375**	**1**	**375**	**67**	**1,786**	**43**	**954**	**52**	**168**	**3,004**	**8,342**	**20,121**		
1976	344	1	344	58	2,031	33	989	51	289	3,393	8,815	21,234		
1977	252	1	253	61	2,032	27	953	50	320	3,382	9,236	22,301		
1978	185	*	185	78	2,072	30	921	61	258	3,342	9,663	23,641		
1979	238	*	238	81	1,988	10	541	60	211	2,809	10,013	24,165		
1980	**33**	*	**33**	**77**	**1,682**	**57**	**526**	**76**	**30**	**2,371**	**10,019**	**24,363**		
1981	27	0	27	68	1,152	5	477	81	12	1,727	10,228	24,377		
1982	25	*	25	70	1,278	130	496	86	38	2,028	10,216	24,537		
1983	31	*	31	68	3,759	8	590	269	8	4,634	10,345	24,785		
1984	81	*	81	70	4,060	6	913	255	8	5,242	12,955	30,083		
1985	**16**	*	**17**	**73**	**3,172**	**27**	**889**	**283**	**128**	**4,499**	**12,087**	**28,345**		
1986	21	*	21	55	1,727	5	857	280	304	3,173	12,329	28,269		
1987	60	*	60	58	1,796	4	844	283	121	3,049	12,174	27,745		
1988	51	0	51	67	1,804	6	978	286	266	3,341	12,931	29,201		
1989	11	*	11	70	2,016	7	1,148	279	380	3,829	13,122	29,434		
	Trillion Btu											Net Energy[4]		Total[4]
1960	**39.1**	**0.1**	**39.1**	**11.3**	**10.6**	**0.6**	**1.9**	**1.5**	**3.5**	**18.1**	**10.4**	**78.9**	**26.0**	**104.9**
1961	42.0	0.1	42.1	13.2	10.8	0.8	1.9	1.6	3.1	18.2	11.0	84.5	26.9	111.4
1962	39.7	0.1	39.7	18.0	11.2	0.7	2.3	1.4	3.0	18.7	11.7	88.1	28.1	116.2
1963	32.2	*	32.2	17.2	11.1	0.6	2.6	1.7	3.1	19.1	12.3	80.8	29.4	110.2
1964	25.9	*	26.0	19.7	10.9	0.6	2.5	1.5	3.1	18.7	13.0	77.4	31.0	108.3
1965	**28.6**	*	**28.6**	**24.0**	**11.1**	**0.3**	**2.6**	**1.6**	**2.6**	**18.2**	**14.2**	**85.0**	**33.9**	**118.9**
1966	29.8	*	29.8	29.5	11.2	0.3	3.5	1.4	2.4	18.9	15.4	93.6	37.1	130.7
1967	25.1	*	25.2	34.4	12.2	0.9	3.5	1.5	1.7	19.8	16.4	95.8	39.3	135.1
1968	25.0	*	25.0	37.0	11.9	0.9	3.6	1.5	1.7	19.6	17.9	99.4	42.8	142.2
1969	23.6	*	23.6	53.6	11.4	0.9	3.7	1.5	1.7	19.2	19.4	115.8	46.3	162.1
1970	**17.7**	*	**17.7**	**55.6**	**11.1**	**0.7**	**3.7**	**0.3**	**1.5**	**17.4**	**21.1**	**111.7**	**51.1**	**162.8**
1971	18.6	*	18.6	48.6	11.1	0.5	3.9	0.3	1.2	17.0	22.4	106.6	54.3	160.9
1972	10.1	*	10.2	44.6	11.2	0.4	4.2	0.3	1.3	17.4	24.3	96.4	58.4	154.8
1973	6.6	*	6.6	55.8	11.1	0.4	4.0	0.3	1.2	16.9	28.2	107.6	67.5	175.1
1974	6.6	*	6.6	66.7	10.9	0.3	3.8	0.3	1.2	16.3	27.9	117.5	68.0	185.6
1975	**7.1**	*	**7.1**	**68.9**	**10.4**	**0.2**	**3.5**	**0.3**	**1.1**	**15.5**	**28.5**	**120.0**	**68.7**	**188.6**
1976	8.1	*	8.1	58.7	11.8	0.2	3.7	0.3	1.8	17.8	30.1	114.6	72.5	187.1
1977	5.9	*	5.9	62.2	11.8	0.2	3.5	0.3	2.0	17.8	31.5	117.4	76.1	193.5
1978	3.8	*	3.8	78.9	12.1	0.2	3.4	0.3	1.6	17.6	33.0	133.2	80.7	213.9
1979	4.9	*	4.9	81.8	11.6	0.1	2.0	0.3	1.3	15.3	34.2	136.1	82.4	218.6
1980	**0.8**	*	**0.8**	**77.7**	**9.8**	**0.3**	**1.9**	**0.4**	**0.2**	**12.6**	**34.2**	**125.4**	**83.1**	**208.5**
1981	0.6	0.0	0.6	68.7	6.7	*	1.7	0.4	0.1	9.0	34.9	113.2	83.2	196.4
1982	0.6	*	0.6	70.5	7.4	0.7	1.8	0.5	0.2	10.7	34.9	116.6	83.7	200.4
1983	0.7	*	0.7	68.6	21.9	*	2.1	1.4	0.1	25.5	35.3	130.2	84.6	214.8
1984	1.0	*	2.0	70.8	22.6	*	3.2	[illegible]	*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1985	**0.4**	*	**0.4**	**73.5**	**18.5**	**0.2**	**3.2**	**1.5**	**0.8**	**24.1**	**41.2**	**139.3**	**96.7**	**236.0**
1986	0.5	*	0.5	55.8	10.1	*	3.1	1.5	1.9	16.6	42.1	115.0	96.5	211.5
1987	1.4	*	1.4	58.2	10.5	*	3.1	1.5	0.8	15.8	41.5	117.0	94.7	211.7
1988	1.2	0.0	1.2	67.5	10.5	*	3.6	1.5	1.7	17.3	44.1	130.1	99.6	229.8
1989	0.3	*	0.3	70.4	11.7	*	4.2	1.5	2.4	19.9	44.8	135.4	100.4	235.8

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 312. Industrial Energy Consumption Estimates, 1960–1989, Wisconsin

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels									Million Kilowatthours				
1960	**4,703**	**8**	**4,710**	**30**	**2,847**	**6,950**	**1,636**	**1,088**	**345**	**2,774**	**3,416**	**692**	**19,748**	**338**	**4,230**	**10,520**		
1961	4,822	7	4,829	38	2,450	7,339	1,227	995	336	2,803	3,030	670	18,850	311	4,258	10,377		
1962	4,795	6	4,802	48	2,641	7,484	1,133	782	366	2,878	2,903	771	18,958	308	4,722	11,352		
1963	4,917	7	4,924	59	2,566	7,527	967	1,013	366	2,654	3,009	810	18,912	244	5,227	12,501		
1964	5,409	8	5,417	72	2,187	7,543	912	762	385	2,487	3,042	1,389	18,705	265	5,694	13,560		
1965	**5,782**	**7**	**5,789**	**82**	**2,806**	**7,654**	**535**	**866**	**405**	**2,541**	**2,371**	**1,394**	**18,572**	**306**	**6,153**	**14,691**		
1966	5,857	6	5,863	94	3,171	7,820	594	933	421	2,118	2,308	1,106	18,471	328	6,774	16,255		
1967	5,508	6	5,514	100	3,073	8,594	1,946	637	356	2,228	1,699	1,036	19,568	333	7,156	17,095		
1968	5,033	5	5,038	117	2,893	8,274	2,006	695	391	2,669	1,683	1,189	19,801	342	7,866	18,768		
1969	4,901	4	4,905	128	3,805	8,207	1,652	1,008	432	2,127	1,714	1,343	20,287	333	8,451	20,186		
1970	**5,144**	**4**	**5,147**	**141**	**4,671**	**7,917**	**1,262**	**1,009**	**440**	**2,471**	**1,554**	**1,421**	**20,745**	**306**	**8,570**	**20,767**		
1971	3,852	3	3,854	156	4,461	8,000	988	1,037	385	2,277	1,298	1,780	20,225	347	8,924	21,574		
1972	3,532	2	3,534	138	4,408	7,922	633	1,206	412	2,359	1,414	1,919	20,273	304	9,723	23,404		
1973	3,063	2	3,064	167	5,001	7,791	607	1,592	618	2,166	1,411	2,107	21,293	336	10,093	24,163		
1974	2,602	2	2,604	160	3,635	7,432	455	1,627	592	1,888	1,318	2,205	19,151	314	10,294	25,101		
1975	**2,436**	**2**	**2,439**	**152**	**3,019**	**7,150**	**401**	**1,996**	**426**	**2,027**	**1,105**	**2,059**	**18,182**	**318**	**10,823**	**26,106**		
1976	2,590	3	2,593	120	3,578	8,109	348	2,774	473	2,106	1,751	2,239	21,378	277	11,563	27,853		
1977	2,412	2	2,414	160	3,153	8,077	305	4,231	496	1,899	1,949	2,155	22,265	271	12,266	29,620		
1978	2,277	2	2,279	154	4,079	8,281	299	2,827	533	1,593	1,582	2,307	21,500	310	13,107	32,066		
1979	2,491	1	2,492	137	3,316	7,694	89	3,151	558	1,455	1,393	2,395	20,050	269	13,494	32,565		
1980	**2,362**	**2**	**2,364**	**130**	**3,016**	**3,589**	**41**	**2,444**	**497**	**1,633**	**1,439**	**2,385**	**15,043**	**258**	**13,290**	**32,317**		
1981	2,301	3	2,304	130	1,948	3,555	48	1,558	476	1,354	763	3,357	13,060	258	14,064	33,517		
1982	2,283	2	2,285	116	2,111	3,292	33	2,444	434	1,140	2,065	2,772	14,292	258	13,410	32,209		
1983	2,265	0	2,265	112	2,041	3,196	29	1,806	455	1,145	666	2,790	12,128	258	14,232	34,098		
1984	2,018	2	2,020	117	1,516	3,452	22	2,279	485	1,204	614	3,136	12,707	258	15,738	36,546		
1985	**2,130**	**2**	**2,132**	**115**	**1,690**	**3,074**	**32**	**2,450**	**452**	**1,137**	**191**	**2,842**	**11,868**	**258**	**17,195**	**40,322**		
1986	2,109	0	2,109	107	2,055	3,446	20	2,382	442	1,067	840	2,497	12,750	258	17,799	40,808		
1987	1,980	0	1,980	113	2,396	3,098	9	1,889	500	999	1,111	2,659	12,661	258	17,374	39,595		
1988	2,099	0	2,099	122	3,416	3,478	8	2,233	482	870	907	2,704	14,098	258	18,552	41,896		
1989	2,049	4	2,053	127	3,805	3,362	18	1,956	494	868	928	2,673	14,104	258	18,995	42,607		
					Trillion Btu													
1960	**116.4**	**0.2**	**116.6**	**30.8**	**18.9**	**40.5**	**9.3**	**4.4**	**2.1**	**14.6**	**21.5**	**4.0**	**115.1**	**3.6**	**14.4**	**280.6**	**35.9**	**316.5**
1961	119.2	0.2	119.4	39.1	16.3	42.8	7.0	4.0	2.0	14.7	19.1	3.8	109.6	3.3	14.5	285.9	35.4	321.3
1962	118.4	0.2	118.6	49.3	17.5	43.6	6.4	3.1	2.2	15.1	18.3	4.5	110.7	3.2	16.1	298.0	38.7	336.7
1963	121.3	0.2	121.5	60.4	17.0	43.8	5.5	4.1	2.2	13.9	18.9	4.7	110.2	2.6	17.8	312.5	42.7	355.1
1964	133.4	0.2	133.6	73.3	14.5	43.9	5.2	3.1	2.3	13.1	19.1	7.7	108.9	2.8	19.4	338.0	46.3	384.2
1965	**142.2**	**0.2**	**142.4**	**83.0**	**18.6**	**44.6**	**3.0**	**3.5**	**2.5**	**13.3**	**14.9**	**7.7**	**108.1**	**3.2**	**21.0**	**357.7**	**50.1**	**407.9**
1966	143.1	0.1	143.2	95.6	21.0	45.5	3.4	3.7	2.6	11.1	14.5	6.2	108.1	3.4	23.1	373.4	55.5	428.9
1967	133.8	0.1	133.9	102.8	20.4	50.1	11.0	2.4	2.2	11.7	10.7	5.8	114.3	3.5	24.4	378.9	58.3	437.2
1968	121.9	0.1	122.0	120.2	19.2	48.2	11.4	2.7	2.4	14.0	10.6	6.7	115.1	3.6	26.8	387.7	64.0	451.7
1969	117.6	0.1	117.7	131.6	25.3	47.8	9.4	3.8	2.6	11.2	10.8	7.6	118.4	3.5	28.8	400.1	68.9	468.9
1970	**119.5**	**0.1**	**119.6**	**143.6**	**31.0**	**46.1**	**7.2**	**3.8**	**2.7**	**13.0**	**9.8**	**8.0**	**121.5**	**3.2**	**29.2**	**417.1**	**70.9**	**488.0**
1971	89.0	0.1	89.0	159.0	29.6	46.6	5.6	3.9	2.3	12.0	8.2	10.0	118.1	3.6	30.4	400.2	73.6	473.8
1972	81.4	*	81.5	140.7	29.3	46.1	3.6	4.5	2.5	12.4	8.9	10.8	118.1	3.2	33.2	376.6	79.9	456.4
1973	70.2	*	70.2	169.8	33.2	45.4	3.4	6.0	3.7	11.4	8.9	11.8	123.8	3.5	34.4	401.8	82.4	484.3
1974	59.4	*	59.5	162.3	24.1	43.3	2.6	6.1	3.6	9.9	8.3	12.4	110.3	3.3	35.1	370.4	85.6	456.0
1975	**54.7**	**0.1**	**54.7**	**155.5**	**20.0**	**41.6**	**2.3**	**7.4**	**2.6**	**10.6**	**6.9**	**11.6**	**103.2**	**3.3**	**36.9**	**353.7**	**89.1**	**442.8**
1976	59.5	0.1	59.5	122.4	23.7	47.2	2.0	10.3	2.9	11.1	11.0	12.6	120.8	2.9	39.5	345.1	95.0	440.1
1977	55.6	0.1	55.7	162.2	20.9	47.1	1.7	15.6	3.0	10.0	12.3	12.1	122.7	2.8	41.9	385.2	101.1	486.3
1978	51.5	*	51.6	155.9	27.1	48.2	1.7	10.4	3.2	8.4	9.9	13.0	121.9	3.2	44.7	377.3	109.4	486.7
1979	57.2	*	57.2	138.8	22.0	44.8	0.5	11.6	3.4	7.6	8.8	13.4	112.1	2.8	46.0	356.9	111.1	468.0
1980	**54.5**	*	**54.6**	**130.6**	**20.0**	**20.9**	**0.2**	**9.0**	**3.0**	**8.6**	**9.0**	**13.3**	**84.1**	**2.7**	**45.3**	**317.2**	**110.3**	**427.5**
1981	52.8	0.1	52.9	130.8	12.9	20.7	0.3	5.7	2.9	7.1	4.8	18.6	73.0	2.7	48.0	307.3	114.4	421.6
1982	52.6	*	52.7	117.3	14.0	19.2	0.2	8.8	2.6	6.0	13.0	15.4	79.2	2.7	45.8	297.6	109.9	407.5
1983	51.7	0.0	51.7	113.5	13.5	18.6	0.2	6.5	2.8	6.0	4.2	15.6	67.4	2.7	48.6	283.9	116.3	400.3
1984	45.7	0.1	45.8	117.9	10.1	20.1	0.1	8.2	2.9	6.3	3.9	17.2	68.9	2.7	53.7	288.9	124.7	413.6
1985	**49.7**	*	**49.7**	**116.4**	**11.2**	**17.9**	**0.2**	**8.8**	**2.7**	**6.0**	**1.2**	**15.7**	**63.7**	**2.7**	**58.7**	**291.2**	**137.6**	**428.8**
1986	49.8	0.0	49.8	108.4	13.6	20.1	0.1	8.7	2.7	5.6	5.3	13.9	69.9	2.6	60.7	291.4	139.2	430.7
1987	45.8	0.0	45.8	113.8	15.9	18.0	*	6.9	3.0	5.2	7.0	14.7	70.9	2.6	59.3	292.3	135.1	427.4
1988	45.9	0.0	45.9	122.8	22.7	20.3	*	8.2	2.9	4.6	5.7	15.0	79.4	2.6	63.3	314.0	142.9	457.0
1989	46.3	0.1	46.4	128.1	25.2	19.6	0.1	7.2	3.0	4.6	5.8	14.8	80.4	2.7	64.8	322.3	145.4	467.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.

* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 313. Transportation Energy Consumption Estimates, 1960-1989, Wisconsin

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**83**	**1**	**427**	**1,773**	**245**	**23**	**527**	**30,056**	**378**	**33,430**	**0**	**0**		
1961	22	*	382	1,651	258	28	513	30,023	565	33,421	0	0		
1962	20	*	679	2,153	357	33	530	30,742	420	34,914	0	0		
1963	19	*	678	2,209	469	36	530	31,660	625	36,207	0	0		
1964	20	1	639	2,371	513	30	557	32,237	577	36,924	0	0		
1965	**19**	**2**	**636**	**2,148**	**629**	**36**	**493**	**33,446**	**378**	**37,765**	**0**	**0**		
1966	18	2	627	2,318	629	44	512	35,500	402	40,032	0	0		
1967	13	3	626	2,757	938	58	496	36,151	308	41,334	0	0		
1968	11	3	548	3,440	1,346	86	545	38,369	29	44,364	0	0		
1969	8	3	358	3,782	1,687	103	542	40,800	15	47,288	0	0		
1970	**8**	**7**	**332**	**4,179**	**1,603**	**74**	**552**	**42,956**	**6**	**49,703**	**0**	**0**		
1971	5	6	274	4,734	1,872	88	590	44,490	16	52,066	0	0		
1972	4	6	279	5,075	1,910	98	632	47,212	53	55,261	0	0		
1973	2	5	200	5,555	2,208	106	602	49,020	61	57,752	0	0		
1974	1	5	198	5,632	2,085	104	576	48,761	79	57,435	0	0		
1975	*	**5**	**173**	**6,064**	**2,169**	**93**	**497**	**49,469**	**285**	**58,751**	**0**	**0**		
1976	*	2	172	6,852	2,168	103	552	51,484	388	61,719	0	0		
1977	*	2	182	7,352	2,248	125	522	52,985	343	63,757	0	0		
1978	0	2	128	8,263	2,370	139	561	55,137	453	67,050	0	0		
1979	0	4	113	9,415	2,591	132	587	52,266	332	65,437	0	0		
1980	**0**	**8**	**124**	**8,570**	**2,397**	**84**	**523**	**47,897**	**235**	**59,829**	**0**	**0**		
1981	0	8	108	8,420	2,282	191	501	46,797	77	58,377	0	0		
1982	0	4	31	8,119	2,097	164	457	45,007	29	55,903	0	0		
1983	0	3	113	8,301	1,843	211	479	45,424	119	56,489	0	0		
1984	0	3	96	8,909	1,605	334	510	45,188	192	56,834	0	0		
1985	**0**	**3**	**102**	**9,685**	**1,663**	**238**	**476**	**45,125**	**119**	**57,408**	**0**	**0**		
1986	0	4	108	10,094	1,562	166	465	46,074	98	58,568	0	0		
1987	0	3	83	10,301	1,448	135	526	46,098	0	58,590	0	0		
1988	0	4	93	12,154	1,344	163	507	48,430	5	62,696	0	0		
1989	0	4	129	13,339	1,343	148	520	47,960	4	63,444	0	0		
			Trillion Btu											
1960	**2.0**	**0.6**	**2.2**	**10.3**	**1.3**	**0.1**	**3.2**	**157.9**	**2.4**	**177.4**	**0.0**	**180.0**	**0.0**	**180.0**
1961	0.5	0.4	1.9	9.6	1.4	0.1	3.1	157.7	3.6	177.5	0.0	178.4	0.0	178.4
1962	0.5	0.4	3.4	12.5	2.0	0.1	3.2	161.5	2.6	185.4	0.0	186.3	0.0	186.3
1963	0.5	0.4	3.4	12.9	2.6	0.1	3.2	166.3	3.9	192.5	0.0	193.4	0.0	193.4
1964	0.5	1.3	3.2	13.8	2.9	0.1	3.4	169.3	3.6	196.4	0.0	198.2	0.0	198.2
1965	**0.5**	**1.6**	**3.2**	**12.5**	**3.5**	**0.1**	**3.0**	**175.7**	**2.4**	**200.4**	**0.0**	**202.5**	**0.0**	**202.5**
1966	0.4	2.2	3.2	13.5	3.5	0.2	3.1	186.5	2.5	212.5	0.0	215.1	0.0	215.1
1967	0.3	2.8	3.2	16.1	5.3	0.2	3.0	189.9	1.9	219.6	0.0	222.7	0.0	222.7
1968	0.3	2.8	2.8	20.0	7.6	0.3	3.3	201.6	0.2	235.8	0.0	238.8	0.0	238.8
1969	0.2	3.1	1.8	22.0	9.5	0.4	3.3	214.3	0.1	251.5	0.0	254.8	0.0	254.8
1970	**0.2**	**6.7**	**1.7**	**24.3**	**9.0**	**0.3**	**3.3**	**225.7**	*	**264.4**	**0.0**	**271.3**	**0.0**	**271.3**
1971	0.1	5.7	1.4	27.6	10.6	0.3	3.6	233.7	0.1	277.3	0.0	283.0	0.0	283.0
1972	0.1	6.4	1.4	29.6	10.8	0.4	3.8	248.0	0.3	294.3	0.0	300.7	0.0	300.7
1973	*	5.5	1.0	32.4	12.5	0.4	3.6	257.5	0.4	307.8	0.0	313.3	0.0	313.3
1974	*	5.5	1.0	32.8	11.8	0.4	3.5	256.1	0.5	306.1	0.0	311.6	0.0	311.6
1975	*	**5.1**	**0.9**	**35.3**	**12.3**	**0.3**	**3.0**	**259.9**	**1.8**	**313.5**	**0.0**	**318.5**	**0.0**	**318.5**
1976	*	2.3	0.9	39.9	12.3	0.4	3.4	270.4	2.4	329.7	0.0	332.0	0.0	332.0
1977	*	2.4	0.9	42.8	12.7	0.5	3.2	278.3	2.2	340.6	0.0	343.0	0.0	343.0
1978	0.0	1.7	0.6	48.1	13.4	0.5	3.4	289.6	2.8	358.5	0.0	360.2	0.0	360.2
1979	0.0	3.9	0.6	54.8	14.6	0.5	3.6	274.6	2.1	350.7	0.0	354.6	0.0	354.6
1980	**0.0**	**8.3**	**0.6**	**49.9**	**13.5**	**0.3**	**3.2**	**251.6**	**1.5**	**320.6**	**0.0**	**328.9**	**0.0**	**328.9**
1981	0.0	8.2	0.5	49.0	12.9	0.7	3.0	245.8	0.5	312.5	0.0	320.7	0.0	320.7
1982	0.0	4.0	0.2	47.3	11.8	0.6	2.8	236.4	0.2	299.2	0.0	303.3	0.0	303.3
1983	0.0	2.8	0.6	48.4	10.4	0.8	2.9	238.6	0.7	302.3	0.0	305.1	0.0	305.1
1984	0.0	3.0	0.5	51.9	9.0	1.2	3.1	237.4	1.2	304.3	0.0	307.3	0.0	307.3
1985	**0.0**	**2.8**	**0.5**	**56.4**	**9.3**	**0.9**	**2.9**	**237.0**	**0.7**	**307.8**	**0.0**	**310.6**	**0.0**	**310.6**
1986	0.0	3.8	0.5	58.8	8.8	0.6	2.8	242.0	0.6	314.2	0.0	318.0	0.0	318.0
1987	0.0	3.4	0.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0	317.8	0.0	317.8
1988	0.0	4.3	0.5	70.8	7.5	0.6	3.1	254.4	*	336.9	0.0	341.2	0.0	341.2
1989	0.0	4.2	0.6	77.7	7.5	0.5	3.2	251.9	*	341.5	0.0	345.7	0.0	345.7

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 314. Estimates of Energy Input at Electric Utilities, 1960–1989, Wisconsin

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**5,195**	**0**	**5,195**	**2**	**45**	**5**	**0**	**50**	**0**	**2,061**	**0**	**0**	
1961	5,070	0	5,070	11	39	4	0	43	0	1,706	0	0	
1962	5,332	0	5,332	12	38	4	0	42	0	1,829	0	1	
1963	6,106	0	6,106	12	39	4	0	43	0	1,307	0	7	
1964	6,606	0	6,606	9	36	4	0	40	0	1,267	0	5	
1965	**6,697**	**0**	**6,697**	**14**	**53**	**6**	**0**	**59**	**0**	**1,825**	**0**	**2**	
1966	7,605	0	7,605	16	70	8	0	78	0	1,724	0	*	
1967	7,923	0	7,923	20	69	8	0	77	0	1,739	0	29	
1968	8,221	0	8,221	22	201	22	0	223	0	2,049	0	41	
1969	9,381	0	9,381	31	191	21	0	212	0	1,825	0	33	
1970	**10,450**	**0**	**10,450**	**31**	**1,132**	**124**	**240**	**1,497**	**157**	**1,597**	**0**	**8**	
1971	9,814	0	9,814	29	647	118	204	970	3,469	1,883	0	0	
1972	10,420	0	10,420	28	742	144	219	1,104	3,294	2,109	0	0	
1973	10,080	0	10,080	30	859	497	112	1,468	5,952	2,108	0	0	
1974	9,531	0	9,531	34	301	552	18	870	8,256	1,706	0	0	
1975	**9,716**	**0**	**9,716**	**20**	**548**	**578**	**37**	**1,163**	**10,293**	**1,719**	**0**	**0**	
1976	10,868	0	10,868	12	784	708	16	1,508	10,722	1,375	0	0	
1977	11,492	0	11,492	6	1,029	696	6	1,731	10,945	1,550	0	*	
1978	11,415	0	11,415	8	1,370	1,268	5	2,643	11,718	2,061	0	20	
1979	12,297	0	12,297	21	542	776	41	1,359	10,403	2,025	0	33	
1980	**13,229**	**0**	**13,229**	**14**	**68**	**499**	**9**	**576**	**9,911**	**1,857**	**0**	**62**	
1981	13,841	0	13,841	7	13	351	40	404	9,719	1,884	0	57	
1982	13,470	0	13,470	4	0	257	18	275	10,268	2,164	0	73	
1983	15,094	0	15,094	4	0	251	0	251	9,299	2,298	0	59	
1984	15,804	0	15,804	2	0	181	23	205	10,745	2,080	0	79	
1985	**15,876**	**0**	**15,876**	**1**	**0**	**251**	**24**	**274**	**10,979**	**2,288**	**0**	**88**	
1986	16,601	0	16,601	2	0	260	0	260	11,199	2,161	0	112	
1987	17,579	0	17,579	2	0	173	0	173	11,311	1,319	0	154	
1988	17,861	0	17,861	3	0	229	0	229	11,464	1,230	0	164	
1989	17,851	0	17,851	2	0	168	0	168	10,848	1,319	0	181	
					Trillion Btu								
1960	**125.8**	**0.0**	**125.8**	**2.1**	**0.3**	*	**0.0**	**0.3**	**0.0**	**22.2**	**0.0**	**0.0**	**150.4**
1961	123.0	0.0	123.0	11.1	0.2	*	0.0	0.3	0.0	18.2	0.0	0.0	152.5
1962	130.1	0.0	130.1	12.7	0.2	*	0.0	0.3	0.0	19.3	0.0	*	162.4
1963	147.7	0.0	147.7	12.8	0.2	*	0.0	0.3	0.0	13.7	0.0	0.1	174.5
1964	159.3	0.0	159.3	9.7	0.2	*	0.0	0.3	0.0	13.3	0.0	*	182.6
1965	**161.0**	**0.0**	**161.0**	**14.7**	**0.3**	*	**0.0**	**0.4**	**0.0**	**19.1**	**0.0**	*	**195.1**
1966	181.2	0.0	181.2	16.4	0.4	*	0.0	0.5	0.0	18.0	0.0	*	216.0
1967	187.8	0.0	187.8	20.6	0.4	*	0.0	0.5	0.0	18.1	0.0	0.3	227.4
1968	195.5	0.0	195.5	22.9	1.3	0.1	0.0	1.4	0.0	21.3	0.0	0.4	241.5
1969	219.6	0.0	219.6	32.1	1.2	0.1	0.0	1.3	0.0	19.1	0.0	0.3	272.5
1970	**234.6**	**0.0**	**234.6**	**31.2**	**7.1**	**0.7**	**1.4**	**9.3**	**1.7**	**16.8**	**0.0**	**0.1**	**293.6**
1971	219.5	0.0	219.5	29.7	4.1	0.7	1.2	6.0	37.6	19.7	0.0	0.0	312.5
1972	236.4	0.0	236.4	28.7	4.7	0.8	1.3	6.8	35.5	21.9	0.0	0.0	329.4
1973	230.2	0.0	230.2	30.1	5.4	2.9	0.7	9.0	64.9	21.9	0.0	0.0	356.1
1974	209.0	0.0	209.0	34.3	1.9	3.2	0.1	5.2	92.1	17.8	0.0	0.0	358.5
1975	**206.3**	**0.0**	**206.3**	**20.3**	**3.4**	**3.4**	**0.2**	**7.0**	**113.4**	**17.9**	**0.0**	**0.0**	**364.8**
1976	232.0	0.0	232.0	12.2	4.9	4.1	0.1	9.1	118.5	14.3	0.0	0.0	386.0
1977	242.7	0.0	242.7	6.5	6.5	4.0	*	10.6	117.9	16.2	0.0	*	393.8
1978	238.6	0.0	238.6	8.4	8.6	7.4	*	16.0	128.2	21.4	0.0	0.2	412.7
1979	256.3	0.0	256.3	21.4	3.4	4.5	0.2	8.2	113.2	21.0	0.0	0.3	420.4
1980	**271.5**	**0.0**	**271.5**	**13.8**	**0.4**	**2.9**	**0.1**	**3.4**	**108.1**	**19.3**	**0.0**	**0.6**	**416.8**
1981	273.5	0.0	273.5	7.5	0.1	2.0	0.2	2.4	107.2	19.7	0.0	0.6	410.9
1982	270.6	0.0	270.6	4.4	0.0	1.5	0.1	1.6	113.7	22.6	0.0	0.8	413.6
1983	300.0	0.0	300.0	3.5	0.0	1.5	0.0	1.5	101.4	24.2	0.0	0.6	431.2
1984	314.6	0.0	314.6	1.9	0.0	1.1	0.1	1.2	116.5	21.5	0.0	0.8	456.6
1985	**310.3**	**0.0**	**310.3**	**1.3**	**0.0**	**1.5**	**0.1**	**1.6**	**118.7**	**23.7**	**0.0**	**0.9**	**456.5**
1986	320.8	0.0	320.8	1.8	0.0	1.5	0.0	1.5	120.9	22.2	0.0	1.1	468.3
1987	338.6	0.0	338.6	2.2	0.0	1.0	0.0	1.0	121.9	13.5	0.0	1.6	478.7
1988	346.2	0.0	346.2	2.7	0.0	1.3	0.0	1.3	123.2	12.6	0.0	1.7	487.8
1989	346.5	0.0	346.5	2.1	0.0	1.0	0.0	1.0	116.3	13.6	0.0	1.9	481.4

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 315. Energy Consumption Estimates by Source, 1960–1989, Wyoming

Year	Coal	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG[2]	Lubricants	Motor Gasoline	Residual Fuel	Other	Total	Nuclear Electric Power	Hydroelectric Power[3]	Geothermal Energy[4]	Other[5]	Net Interstate Flow of Electricity/Losses[6]	Total[7]
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	**993**	**51**	**734**	**132**	**3,278**	**56**	**91**	**1,114**	**93**	**4,431**	**1,749**	**1,943**	**13,622**	**0**	**609**	**0**	**0**	**-3,186**	
1961	1,248	57	647	92	3,278	55	117	1,139	90	4,427	2,598	2,108	14,551	0	633	0	0	-4,234	
1962	1,445	59	635	159	3,859	57	109	1,124	108	4,616	3,291	2,139	16,097	0	975	0	0	-4,103	
1963	1,886	59	646	241	3,815	61	103	1,018	108	4,686	2,498	2,254	15,432	0	879	0	0	-5,625	
1964	1,926	60	705	237	3,666	66	146	1,153	113	4,670	2,235	2,345	15,336	0	874	0	0	-5,976	
1965	**2,109**	**59**	**743**	**217**	**3,696**	**74**	**206**	**1,171**	**84**	**4,739**	**2,171**	**2,416**	**15,516**	**0**	**884**	**0**	**0**	**-4,049**	
1966	2,608	66	612	289	2,982	98	470	1,321	87	4,836	1,939	2,272	14,906	0	923	0	0	-5,033	
1967	2,485	73	572	260	3,949	119	625	1,546	72	4,929	2,826	2,243	17,142	0	789	0	0	-2,651	
1968	2,666	79	1,016	296	5,154	151	705	1,822	79	5,300	2,006	2,617	19,147	0	959	0	0	-3,220	
1969	3,325	100	821	301	5,229	157	572	1,967	112	5,572	2,408	2,623	19,764	0	1,097	0	0	-6,758	
1970	**3,802**	**110**	**1,099**	**256**	**5,059**	**128**	**341**	**1,848**	**114**	**5,900**	**1,487**	**2,554**	**18,786**	**0**	**1,006**	**0**	**0**	**-10,347**	
1971	3,600	115	1,245	258	5,731	129	373	2,078	93	6,055	1,203	2,355	19,519	0	1,312	0	0	-9,267	
1972	4,818	126	1,064	262	5,499	163	368	2,475	99	6,552	1,281	2,564	20,328	0	1,172	0	0	-13,695	
1973	6,085	109	982	257	6,295	163	349	2,120	101	6,910	1,550	3,005	21,731	0	1,209	0	0	-19,039	
1974	6,365	96	657	245	7,094	165	242	1,789	96	6,798	1,995	3,173	22,255	0	1,411	0	0	-19,357	
1975	**7,628**	**87**	**606**	**218**	**7,656**	**124**	**172**	**1,815**	**154**	**7,354**	**2,076**	**3,157**	**23,332**	**0**	**1,120**	**0**	**0**	**-21,926**	
1976	10,155	87	773	222	8,161	130	78	1,832	171	7,869	2,686	3,075	24,997	0	1,043	0	0	-33,080	
1977	13,033	84	1,297	250	9,340	150	81	1,795	208	8,275	2,595	3,438	27,428	0	762	0	0	-42,946	
1978	12,947	87	1,646	296	10,553	176	24	2,022	223	8,833	2,945	3,620	30,339	0	982	0	0	-39,604	
1979	15,311	94	1,049	318	12,047	189	93	2,068	234	8,544	3,075	4,103	31,719	0	1,053	0	0	-48,619	
1980	**15,208**	**69**	**1,160**	**108**	**13,247**	**162**	**62**	**2,030**	**208**	**8,501**	**2,171**	**3,724**	**31,374**	**0**	**1,108**	**0**	**0**	**-48,625**	
1981	18,354	69	976	85	12,433	249	69	2,028	199	8,498	1,989	2,240	28,766	0	841	0	0	-61,603	
1982	19,197	91	908	60	11,090	214	139	2,551	182	8,266	1,575	1,981	26,965	0	850	0	0	-64,437	
1983	17,970	81	396	55	7,231	155	61	2,641	190	7,856	320	2,462	21,366	0	1,150	0	1	-58,288	
1984	20,756	85	1,223	57	7,403	159	37	2,202	203	8,196	327	2,542	22,349	0	1,286	0	3	-67,083	
1985	**23,155**	**82**	**1,676**	**51**	**7,669**	**154**	**24**	**2,091**	**189**	**7,669**	**976**	**2,234**	**22,734**	**0**	**1,068**	**0**	**3**	**-77,572**	
1986	19,338	75	1,604	50	6,900	144	7	2,150	185	7,152	800	2,278	21,272	0	1,140	0	1	-59,906	
1987	24,399	82	1,469	51	8,772	202	8	2,619	209	7,261	720	2,592	23,902	0	768	0	*	-83,359	
1988	25,424	82	1,046	53	9,409	193	9	2,030	202	7,436	1,151	3,150	24,679	0	789	0	*	-87,836	
1989	23,952	82	924	39	9,782	160	3	2,446	207	7,557	223	3,195	24,535	0	680	0	*	-78,714	
									Trillion Btu										
1960	**15.8**	**52.8**	**4.9**	**0.7**	**19.1**	**0.3**	**0.5**	**4.5**	**0.6**	**23.3**	**11.0**	**11.7**	**76.4**	**0.0**	**6.6**	**0.0**	**0.0**	**-10.9**	**140.7**
1961	20.1	59.3	4.3	0.5	19.1	0.3	0.7	4.6	0.5	23.3	16.3	12.7	82.2	0.0	6.7	0.0	0.0	-14.4	153.9
1962	23.7	61.2	4.2	0.8	22.5	0.3	0.6	4.5	0.7	24.3	20.7	12.8	91.4	0.0	10.3	0.0	0.0	-14.0	172.6
1963	30.3	55.0	4.3	1.2	22.2	0.3	0.6	4.1	0.7	24.6	15.7	13.5	87.2	0.0	9.2	0.0	0.0	-19.2	162.6
1964	32.4	55.4	4.7	1.2	21.4	0.4	0.8	4.6	0.7	24.5	14.0	14.1	86.4	0.0	9.1	0.0	0.0	-20.4	163.0
1965	**34.5**	**54.8**	**4.9**	**1.1**	**21.5**	**0.4**	**1.2**	**4.7**	**0.5**	**24.9**	**13.6**	**14.5**	**87.4**	**0.0**	**9.2**	**0.0**	**0.0**	**-13.8**	**172.1**
1966	41.4	62.9	4.1	1.5	17.4	0.5	2.7	5.3	0.5	25.4	12.2	13.6	83.2	0.0	9.6	0.0	0.0	-17.2	179.9
1967	39.8	69.6	3.8	1.3	23.0	0.7	3.5	5.9	0.4	25.9	17.8	13.5	95.8	0.0	8.2	0.0	0.0	-9.0	204.4
1968	43.6	75.6	6.7	1.5	30.0	0.8	4.0	7.0	0.5	27.8	12.6	15.7	106.7	0.0	10.0	0.0	0.0	-11.0	225.0
1969	55.6	96.1	5.4	1.5	30.5	0.9	3.2	7.5	0.7	29.3	15.1	15.8	109.9	0.0	11.5	0.0	0.0	-23.1	249.9
1970	**63.5**	**112.5**	**7.3**	**1.3**	**29.5**	**0.7**	**1.9**	**7.0**	**0.7**	**31.0**	**9.3**	**15.3**	**104.1**	**0.0**	**10.6**	**0.0**	**0.0**	**-35.3**	**255.3**
1971	58.8	117.9	8.3	1.3	33.4	0.7	2.1	7.8	0.6	31.8	7.6	14.1	107.7	0.0	13.7	0.0	0.0	-31.6	266.6
1972	80.1	128.7	7.1	1.3	32.0	0.9	2.1	9.3	0.6	34.4	8.1	15.4	111.2	0.0	12.2	0.0	0.0	-46.7	285.4
1973	102.4	110.4	6.5	1.3	36.7	0.9	2.0	7.9	0.6	36.3	9.7	18.0	120.0	0.0	12.6	0.0	0.0	-65.0	280.5
1974	109.1	95.4	4.4	1.2	41.3	0.9	1.4	6.7	0.6	35.7	12.5	19.1	123.8	0.0	14.7	0.0	0.0	-66.0	276.9
1975	**128.0**	**81.4**	**4.0**	**1.1**	**44.6**	**0.7**	**1.0**	**6.7**	**0.9**	**38.6**	**13.1**	**19.0**	**129.7**	**0.0**	**11.7**	**0.0**	**0.0**	**-74.8**	**276.0**
1976	179.1	82.5	5.1	1.1	47.5	0.7	0.4	6.8	1.0	41.3	16.9	18.5	139.5	0.0	10.8	0.0	0.0	-112.9	299.0
1977	230.7	78.4	8.6	1.3	54.4	0.8	0.5	6.6	1.3	43.5	16.3	20.6	153.9	0.0	8.0	0.0	0.0	-146.5	324.4
1978	228.1	79.8	10.9	1.5	61.5	1.0	0.1	7.4	1.4	46.4	18.5	21.7	170.4	0.0	10.2	0.0	0.0	-135.1	353.3
1979	268.9	87.2	7.0	1.6	70.2	1.1	0.5	7.6	1.4	44.9	19.3	24.6	178.2	0.0	10.9	0.0	0.0	-165.9	379.3
1980	**268.1**	**73.1**	**7.7**	**0.5**	**77.2**	**0.9**	**0.4**	**7.5**	**1.3**	**44.7**	**13.6**	**22.4**	**176.1**	**0.0**	**11.5**	**0.0**	**0.0**	**-165.9**	**362.9**
1981	318.9	73.1	6.5	0.4	72.4	1.4	0.4	7.4	1.2	44.6	12.5	14.0	160.9	0.0	8.8	0.0	0.0	-210.2	351.5
1982	333.6	91.1	6.0	0.3	64.6	1.2	0.8	9.2	1.1	43.4	9.9	12.3	148.9	0.0	8.9	0.0	0.0	-219.9	362.6
1983	313.6	85.6	2.6	0.3	42.1	0.9	0.3	9.5	1.2	41.3	2.0	15.1	115.3	0.0	12.1	0.0	*	-198.9	327.8
1984	359.4	90.0	8.1	0.3	43.1	0.9	0.2	7.9	1.2	43.1	2.1	15.5	122.4	0.0	13.3	0.0	*	-228.9	356.2
1985	**405.5**	**86.4**	**11.1**	**0.3**	**44.7**	**0.9**	**0.1**	**7.5**	**1.1**	**40.3**	**6.1**	**13.8**	**126.0**	**0.0**	**11.0**	**0.0**	*	**-264.7**	**364.3**
1986	336.6	78.8	10.6	0.3	40.2	0.8	*	7.8	1.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]	[illegible]
1987	428.1	86.4	9.7	0.3	51.1	1.1	*	9.6	1.3	38.1	4.5	15.9	131.7	0.0	7.9	0.0	*	-284.4	369.6
1988	445.7	86.7	6.9	0.3	54.8	1.1	*	7.4	1.2	39.1	7.2	19.1	137.2	0.0	8.1	0.0	*	-299.7	378.0
1989	421.3	86.9	6.1	0.2	57.0	0.9	*	9.0	1.3	39.7	1.4	19.2	134.8	0.0	7.0	0.0	*	-268.6	381.5

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Includes industrial and electric utility generation and net imports of electricity (assumed to be hydroelectricity).
[4] Electricity generated for distribution from geothermal energy.
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
[6] Net interstate flow of electricity is the difference between the amounts of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. The net interstate flow, therefore, includes associated electrical system energy losses. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.
[7] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, non-electric utility consumption of wood energy in the United States was estimated to be 2,474 trillion Btu.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 316. Residential Energy Consumption Estimates, 1960-1989, Wyoming

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours	
1960	**20**	**0**	**20**	**9**	**4**	**8**	**561**	**573**	**275**	**684**
1961	19	0	19	10	8	18	587	614	294	716
1962	21	0	21	10	8	14	553	575	367	882
1963	17	0	17	9	10	16	511	537	397	949
1964	15	0	15	10	8	23	561	592	448	1,067
1965	**15**	**0**	**15**	**11**	**7**	**32**	**532**	**570**	**442**	**1,055**
1966	14	0	14	12	4	69	617	690	437	1,048
1967	9	0	9	12	10	96	805	912	446	1,064
1968	9	0	9	13	10	98	933	1,040	468	1,117
1969	9	0	9	17	13	77	943	1,033	503	1,201
1970	**7**	**0**	**7**	**18**	**12**	**39**	**1,001**	**1,053**	**604**	**1,463**
1971	10	0	10	19	12	44	1,100	1,157	654	1,581
1972	13	0	13	22	13	42	1,295	1,350	701	1,687
1973	8	0	8	14	17	39	1,082	1,138	785	1,878
1974	11	0	11	12	18	20	914	952	812	1,980
1975	**17**	**0**	**17**	**12**	**26**	**11**	**960**	**997**	**891**	**2,149**
1976	23	0	23	12	26	*	984	1,011	957	2,305
1977	45	0	45	11	30	1	968	999	1,020	2,463
1978	80	0	80	14	35	1	1,083	1,119	1,167	2,855
1979	127	0	127	14	39	9	682	730	1,318	3,181
1980	**37**	**0**	**37**	**10**	**23**	**0**	**644**	**667**	**1,410**	**3,429**
1981	40	0	40	9	26	8	719	753	1,633	3,892
1982	51	0	51	15	30	0	822	852	1,820	4,371
1983	51	0	51	14	317	3	1,006	1,326	1,816	4,350
1984	57	0	57	14	324	2	569	894	1,800	4,180
1985	**37**	**0**	**37**	**14**	**50**	**9**	**543**	**603**	**1,815**	**4,255**
1986	35	0	35	13	27	1	804	832	1,678	3,846
1987	36	0	36	11	33	2	1,292	1,327	1,635	3,725
1988	49	0	49	12	31	1	856	888	1,764	3,984
1989	48	0	48	12	33	1	570	603	1,721	3,861

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Distillate Fuel	Kerosene	LPG[2]	Petroleum: Total	Electricity	Electrical System Energy Losses[3]	Net Energy[4]	Total[4]
	Trillion Btu											
1960	**0.4**	**0.0**	**0.4**	**9.1**	*	*	**2.3**	**2.3**	**0.9**	**12.8**	**2.3**	**15.1**
1961	0.4	0.0	0.4	10.0	*	0.1	2.4	2.5	1.0	13.9	2.4	16.3
1962	0.4	0.0	0.4	10.4	*	0.1	2.2	2.3	1.3	14.4	3.0	17.4
1963	0.4	0.0	0.4	8.3	0.1	0.1	2.1	2.2	1.4	12.2	3.2	15.5
1964	0.3	0.0	0.3	9.4	*	0.1	2.3	2.4	1.5	13.6	3.6	17.3
1965	**0.3**	**0.0**	**0.3**	**9.9**	*	**0.2**	**2.1**	**2.4**	**1.5**	**14.1**	**3.6**	**17.7**
1966	0.3	0.0	0.3	11.0	*	0.4	2.5	2.9	1.5	15.7	3.6	19.3
1967	0.2	0.0	0.2	11.3	0.1	0.5	3.1	3.7	1.5	16.7	3.6	20.4
1968	0.2	0.0	0.2	12.1	0.1	0.6	3.6	4.2	1.6	18.0	3.8	21.9
1969	0.2	0.0	0.2	15.9	0.1	0.4	3.6	4.1	1.7	21.9	4.1	26.0
1970	**0.1**	**0.0**	**0.1**	**18.4**	**0.1**	**0.2**	**3.8**	**4.1**	**2.1**	**24.7**	**5.0**	**29.7**
1971	0.2	0.0	0.2	19.9	0.1	0.3	4.2	4.5	2.2	26.8	5.4	32.2
1972	0.3	0.0	0.3	22.8	0.1	0.2	4.9	5.2	2.4	30.6	5.8	36.4
1973	0.2	0.0	0.2	14.1	0.1	0.2	4.1	4.4	2.7	21.3	6.4	27.7
1974	0.2	0.0	0.2	12.0	0.1	0.1	3.4	3.6	2.8	18.6	6.8	25.4
1975	**0.3**	**0.0**	**0.3**	**11.3**	**0.2**	**0.1**	**3.6**	**3.8**	**3.0**	**18.5**	**7.3**	**25.8**
1976	0.4	0.0	0.4	11.1	0.2	*	3.7	3.8	3.3	18.6	7.9	26.5
1977	0.8	0.0	0.8	10.5	0.2	*	3.6	3.7	3.5	18.5	8.4	26.9
1978	1.4	0.0	1.4	12.7	0.2	*	4.0	4.2	4.0	22.3	9.7	32.1
1979	2.3	0.0	2.3	13.4	0.2	0.1	2.5	2.8	4.5	22.9	10.9	33.8
1980	**0.7**	**0.0**	**0.7**	**10.3**	**0.1**	**0.0**	**2.4**	**2.5**	**4.8**	**18.3**	**11.7**	**30.0**
1981	0.7	0.0	0.7	9.4	0.2	*	2.6	2.8	5.6	18.5	13.3	31.8
1982	0.9	0.0	0.9	15.2	0.2	0.0	3.0	3.1	6.2	25.5	14.9	40.4
1983	0.9	0.0	0.9	14.8	1.8	*	3.6	5.5	6.2	27.3	14.8	42.2
1984	1.0	0.0	1.0	14.5	1.9	*	2.0	3.9	6.1	25.6	14.3	39.9
1985	**0.6**	**0.0**	**0.6**	**15.1**	**0.3**	**0.1**	**2.0**	**2.3**	**6.2**	**24.2**	**14.5**	**38.8**
1986	0.6	0.0	0.6	13.4	0.2	*	2.9	3.1	5.7	22.8	13.1	35.9
1987	0.6	0.0	0.6	11.2	0.2	*	4.7	4.9	5.6	22.4	12.7	35.1
1988	0.9	0.0	0.9	12.3	0.2	*	3.1	3.3	6.0	22.5	13.6	36.1
1989	0.8	0.0	0.8	12.4	0.2	*	2.1	2.3	5.9	21.4	13.2	34.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in the Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the residential sector in the United States consumed an estimated 918 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 317. Commercial Energy Consumption Estimates, 1960-1989, Wyoming

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	**37**	**0**	**37**	**5**	**9**	**29**	**99**	**73**	**37**	**246**	**174**	**432**		
1961	35	0	35	6	20	69	104	75	69	336	177	432		
1962	39	0	39	7	18	54	98	76	116	362	228	548		
1963	32	0	32	7	24	61	90	85	90	350	268	641		
1964	29	0	29	9	19	88	99	73	75	353	314	747		
1965	**28**	**0**	**28**	**8**	**16**	**119**	**94**	**73**	**40**	**341**	**594**	**1,419**		
1966	25	0	25	10	10	261	109	47	31	458	637	1,529		
1967	17	0	17	11	24	364	142	77	45	652	652	1,557		
1968	17	0	17	12	24	369	165	80	44	681	671	1,601		
1969	16	0	16	14	31	291	166	67	70	625	718	1,715		
1970	**14**	**0**	**14**	**14**	**30**	**147**	**177**	**85**	**48**	**487**	**657**	**1,591**		
1971	18	0	18	14	30	167	194	78	48	516	707	1,708		
1972	25	0	25	17	32	158	229	78	34	530	745	1,794		
1973	15	0	15	13	42	146	191	81	49	508	829	1,986		
1974	21	0	21	13	44	75	161	68	64	412	961	2,343		
1975	**32**	**0**	**32**	**10**	**63**	**43**	**169**	**72**	**83**	**431**	**775**	**1,870**		
1976	42	0	42	9	63	1	174	98	117	452	824	1,985		
1977	83	0	83	9	73	2	171	94	107	447	1,008	2,434		
1978	149	0	149	8	85	2	191	102	124	504	980	2,398		
1979	236	0	236	8	94	34	120	99	29	376	1,065	2,570		
1980	**68**	**0**	**68**	**5**	**428**	**23**	**114**	**103**	**27**	**694**	**1,138**	**2,767**		
1981	73	0	73	5	125	0	127	113	5	370	1,434	3,416		
1982	96	0	96	10	351	15	145	114	175	801	1,523	3,659		
1983	96	0	96	9	222	13	178	65	33	511	1,583	3,794		
1984	106	0	106	9	227	6	100	60	34	427	2,056	4,775		
1985	**70**	**0**	**70**	**9**	**440**	**7**	**96**	**67**	**319**	**929**	**2,321**	**5,443**		
1986	64	0	64	8	391	1	142	121	459	1,113	2,248	5,155		
1987	67	0	67	8	273	2	228	72	181	757	2,177	4,961		
1988	91	0	91	9	269	3	151	68	531	1,023	2,220	5,013		
1989	88	0	88	9	250	1	101	64	4	418	2,219	4,978		
												Net Energy[4]		Total[4]
	Trillion Btu													
1960	**0.8**	**0.0**	**0.8**	**5.1**	**0.1**	**0.2**	**0.4**	**0.4**	**0.2**	**1.2**	**0.6**	**7.7**	**1.5**	**9.2**
1961	0.7	0.0	0.7	6.6	0.1	0.4	0.4	0.4	0.4	1.7	0.6	9.7	1.5	11.2
1962	0.8	0.0	0.8	6.9	0.1	0.3	0.4	0.4	0.7	1.9	0.8	10.4	1.9	12.2
1963	0.7	0.0	0.7	6.7	0.1	0.3	0.4	0.4	0.6	1.9	0.9	10.2	2.2	12.4
1964	0.6	0.0	0.6	7.9	0.1	0.5	0.4	0.4	0.5	1.9	1.1	11.5	2.5	14.0
1965	**0.6**	**0.0**	**0.6**	**7.4**	**0.1**	**0.7**	**0.4**	**0.4**	**0.2**	**1.8**	**2.0**	**11.8**	**4.8**	**16.7**
1966	0.5	0.0	0.5	9.2	0.1	1.5	0.4	0.2	0.2	2.4	2.2	14.3	5.2	19.5
1967	0.3	0.0	0.3	10.3	0.1	2.1	0.5	0.4	0.3	3.4	2.2	16.3	5.3	21.6
1968	0.4	0.0	0.4	11.2	0.1	2.1	0.6	0.4	0.3	3.6	2.3	17.4	5.5	22.8
1969	0.3	0.0	0.3	13.5	0.2	1.7	0.6	0.3	0.4	3.3	2.4	19.5	5.9	25.4
1970	**0.3**	**0.0**	**0.3**	**14.3**	**0.2**	**0.8**	**0.7**	**0.4**	**0.3**	**2.4**	**2.2**	**19.3**	**5.4**	**24.7**
1971	0.3	0.0	0.3	14.4	0.2	0.9	0.7	0.4	0.3	2.6	2.4	19.7	5.8	25.5
1972	0.5	0.0	0.5	17.7	0.2	0.9	0.9	0.4	0.2	2.6	2.5	23.3	6.1	29.4
1973	0.3	0.0	0.3	13.4	0.2	0.8	0.7	0.4	0.3	2.5	2.8	19.1	6.8	25.9
1974	0.4	0.0	0.4	13.2	0.3	0.4	0.6	0.4	0.4	2.0	3.3	18.9	8.0	26.9
1975	**0.6**	**0.0**	**0.6**	**9.6**	**0.4**	**0.2**	**0.6**	**0.4**	**0.5**	**2.1**	**2.6**	**15.0**	**6.4**	**21.3**
1976	0.8	0.0	0.8	8.7	0.4	*	0.6	0.5	0.7	2.3	2.8	14.6	6.8	21.3
1977	1.5	0.0	1.5	8.2	0.4	*	0.6	0.5	0.7	2.2	3.4	15.4	8.3	23.7
1978	2.7	0.0	2.7	7.4	0.5	*	0.7	0.5	0.8	2.5	3.3	16.0	8.2	24.1
1979	4.2	0.0	4.2	7.6	0.5	0.2	0.4	0.5	0.2	1.9	3.6	17.4	8.8	26.1
1980	**1.2**	**0.0**	**1.2**	**5.3**	**2.5**	**0.1**	**0.4**	**0.5**	**0.2**	**3.7**	**3.9**	**14.1**	**9.4**	**23.6**
1981	1.3	0.0	1.3	4.8	0.7	0.0	0.5	0.6	*	1.8	4.9	12.8	11.7	24.5
1982	1.7	0.0	1.7	10.1	2.0	0.1	0.5	0.6	1.1	4.4	5.2	21.4	12.5	33.8
1983	1.7	0.0	1.7	9.7	1.3	0.1	0.6	0.3	0.2	2.6	5.4	19.4	12.9	32.3
1984	1.9	0.0	1.9	9.9	1.3	*	0.4	0.3	0.2	2.2	7.0	[illegible]	[illegible]	[illegible]
1985	**1.2**	**0.0**	**1.2**	**9.6**	**2.6**	*	**0.3**	**0.4**	**2.0**	**5.3**	**7.9**	**24.0**	**18.6**	**42.6**
1986	1.1	0.0	1.1	8.4	2.3	*	0.5	0.6	2.9	6.3	7.7	23.6	17.6	41.2
1987	1.2	0.0	1.2	8.9	1.6	*	0.8	0.4	1.1	4.0	7.4	21.5	16.9	38.4
1988	1.6	0.0	1.6	9.2	1.6	*	0.6	0.4	3.3	5.8	7.6	24.2	17.1	41.3
1989	1.6	0.0	1.6	9.0	1.5	*	0.4	0.3	*	2.2	7.6	20.3	17.0	37.3

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 318. Industrial Energy Consumption Estimates, 1960–1989, Wyoming

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Asphalt and Road Oil	Petroleum: Distillate Fuel	Petroleum: Kerosene	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Other	Petroleum: Total	Industrial Hydro-Power	Electricity	Electrical System Energy Losses[3]
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels										Million Kilowatthours	
1960	**119**	**0**	**119**	**35**	**734**	**1,458**	**55**	**384**	**2**	**320**	**756**	**1,943**	**5,653**	**0**	**270**	**671**
1961	139	0	139	38	647	1,593	30	372	2	302	1,670	2,108	6,724	0	312	759
1962	279	0	279	39	635	1,881	41	391	22	305	2,226	2,139	7,641	0	595	1,431
1963	164	0	164	41	646	2,032	26	352	22	303	1,775	2,254	7,410	0	742	1,774
1964	130	0	130	40	705	1,977	35	422	23	442	1,533	2,345	7,482	0	780	1,858
1965	**124**	**0**	**124**	**38**	**743**	**1,790**	**55**	**496**	**3**	**510**	**942**	**2,416**	**6,956**	**0**	**1,285**	**3,067**
1966	138	0	138	42	612	1,244	140	545	3	477	684	2,272	5,977	0	1,558	3,739
1967	183	0	183	46	572	1,639	164	554	3	389	993	2,243	6,557	0	1,939	4,633
1968	248	0	248	52	1,016	1,967	238	655	3	478	999	2,617	7,972	0	2,123	5,064
1969	231	0	231	63	821	2,080	204	744	29	484	1,381	2,623	8,367	0	2,361	5,640
1970	**210**	**0**	**210**	**70**	**1,099**	**1,931**	**155**	**578**	**30**	**552**	**960**	**2,554**	**7,858**	**0**	**1,896**	**4,595**
1971	172	0	172	73	1,245	2,044	162	660	3	628	888	2,355	7,986	0	1,951	4,718
1972	225	0	225	79	1,064	2,021	168	796	3	655	970	2,564	8,241	0	2,121	5,106
1973	265	0	265	72	982	2,552	164	718	4	560	1,212	3,005	9,198	0	2,313	5,538
1974	487	0	487	62	657	2,742	148	596	4	598	1,607	3,173	9,525	0	2,428	5,921
1975	**640**	**0**	**640**	**59**	**606**	**3,596**	**117**	**569**	**45**	**591**	**1,881**	**3,157**	**10,562**	**0**	**2,916**	**7,038**
1976	1,090	0	1,090	59	773	3,970	77	537	50	602	2,390	3,075	11,475	0	3,127	7,531
1977	1,535	0	1,535	57	1,297	4,665	79	521	57	766	2,351	3,438	13,174	0	3,390	8,185
1978	1,571	0	1,571	58	1,646	5,160	21	563	62	370	2,667	3,620	14,109	0	4,003	9,793
1979	1,690	0	1,690	63	1,049	6,166	50	1,199	64	358	2,897	4,103	15,886	0	4,333	10,457
1980	**1,605**	**0**	**1,605**	**48**	**1,160**	**6,255**	**39**	**1,199**	**57**	**365**	**2,144**	**3,724**	**14,943**	**0**	**4,621**	**11,237**
1981	1,682	0	1,682	49	976	5,913	61	1,063	55	269	1,981	2,240	12,558	0	4,402	10,490
1982	1,521	0	1,521	59	908	5,545	124	1,454	50	440	1,391	1,981	11,893	0	4,730	11,361
1983	1,688	0	1,688	52	396	3,133	45	1,299	53	439	287	2,462	8,112	0	4,801	11,501
1984	1,788	0	1,788	57	1,223	3,199	28	1,477	56	173	293	2,542	8,992	0	5,882	13,659
1985	**1,875**	**0**	**1,875**	**54**	**1,676**	**2,750**	**7**	**1,411**	**52**	**530**	**656**	**2,234**	**9,317**	**0**	**6,212**	**14,568**
1986	1,786	0	1,786	49	1,604	2,454	5	1,163	51	503	341	2,278	8,399	0	6,047	13,865
1987	1,887	0	1,887	57	1,469	2,653	5	1,056	58	450	538	2,592	8,820	0	6,699	15,266
1988	1,722	0	1,722	56	1,046	2,221	4	981	56	462	620	3,150	8,540	0	6,980	15,764
1989	1,908	0	1,908	57	924	2,293	1	1,747	57	481	218	3,195	8,917	0	7,293	16,359

Year	Industrial Hydro-Power	Electricity	Net Energy[4]	Total[4]
	Trillion Btu			
1960	**0.0**	**0.9**	**72.8**	**2.3**	**75.1**
1961	0.0	1.1	83.6	2.6	86.2
1962	0.0	2.0	94.1	4.9	99.0
1963	0.0	2.5	88.2	6.1	94.3
1964	0.0	2.7	86.3	6.3	92.6
1965	**0.0**	**4.4**	**82.9**	**10.5**	**93.4**
1966	0.0	5.3	83.4	12.8	96.2
1967	0.0	6.6	92.2	15.8	108.0
1968	0.0	7.2	108.6	17.3	125.9
1969	0.0	8.1	121.5	19.2	140.7
1970	**0.0**	**6.5**	**127.9**	**15.7**	**143.5**
1971	0.0	6.7	130.8	16.1	146.9
1972	0.0	7.2	140.6	17.4	158.0
1973	0.0	7.9	140.2	18.9	159.1
1974	0.0	8.3	135.2	20.2	155.4
1975	**0.0**	**10.0**	**138.8**	**24.0**	**162.8**
1976	0.0	10.7	154.3	25.7	180.0
1977	0.0	11.6	170.6	27.9	198.5
1978	0.0	13.7	178.6	33.4	212.0
1979	0.0	14.8	196.3	35.7	231.9
1980	**0.0**	**15.8**	**182.6**	**38.3**	**220.9**
1981	0.0	15.0	170.8	35.8	206.6
1982	0.0	16.1	170.1	38.8	208.9
1983	0.0	16.4	147.1	39.2	186.3
1984	0.0	20.1	162.1	46.6	208.7
1985	**0.0**	**21.2**	**163.8**	**49.7**	**213.5**
1986	0.0	20.6	151.6	47.3	198.9
1987	0.0	22.9	166.6	52.1	218.7
1988	0.0	23.8	162.8	53.8	216.6
1989	0.0	24.9	167.8	55.8	223.6

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution). In 1989, the industrial sector in the United States (primarily the pulp and paper industry) consumed an estimated 1,556 trillion Btu of wood energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 319. Transportation Energy Consumption Estimates, 1960–1989, Wyoming

Year	Coal	Natural Gas[1]	Petroleum: Aviation Gasoline	Petroleum: Distillate Fuel	Petroleum: Jet Fuel	Petroleum: LPG[2]	Petroleum: Lubricants	Petroleum: Motor Gasoline	Petroleum: Residual Fuel	Petroleum: Total	Electricity	Electrical System Energy Losses[3]		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	**2**	**2**	**132**	**1,801**	**56**	**70**	**91**	**4,038**	**951**	**7,138**	**0**	**0**		
1961	1	2	92	1,646	55	76	88	4,051	851	6,860	0	0		
1962	1	2	159	1,949	57	82	86	4,235	947	7,516	0	0		
1963	1	2	241	1,736	61	64	86	4,298	621	7,107	0	0		
1964	*	1	237	1,654	66	71	90	4,155	621	6,895	0	0		
1965	*	**2**	**217**	**1,864**	**74**	**49**	**81**	**4,157**	**1,173**	**7,615**	**0**	**0**		
1966	*	2	289	1,714	98	51	84	4,312	1,218	7,766	0	0		
1967	*	4	260	2,262	119	45	69	4,464	1,776	8,995	0	0		
1968	1	2	296	3,137	151	70	76	4,742	951	9,424	0	0		
1969	*	4	301	3,090	157	114	83	5,022	945	9,712	0	0		
1970	*	**6**	**256**	**3,072**	**128**	**91**	**85**	**5,262**	**469**	**9,363**	**0**	**0**		
1971	*	8	258	3,626	129	123	90	5,349	239	9,813	0	0		
1972	*	6	262	3,421	163	156	97	5,819	242	10,160	0	0		
1973	*	9	257	3,676	163	128	96	6,269	199	10,789	0	0		
1974	*	8	245	4,286	165	117	92	6,132	219	11,258	0	0		
1975	*	**5**	**218**	**3,965**	**124**	**116**	**108**	**6,691**	**0**	**11,223**	**0**	**0**		
1976	*	7	222	4,092	130	136	120	7,169	52	11,921	0	0		
1977	*	6	250	4,564	150	136	151	7,415	45	12,709	0	0		
1978	0	7	296	5,258	176	185	162	8,361	1	14,437	0	0		
1979	0	8	318	5,743	189	66	169	8,087	8	14,580	0	0		
1980	**0**	**6**	**108**	**6,419**	**162**	**73**	**151**	**8,034**	**0**	**14,946**	**0**	**0**		
1981	0	6	85	6,223	249	118	144	8,116	3	14,938	0	0		
1982	0	7	60	5,049	214	129	132	7,712	9	13,305	0	0		
1983	0	5	55	3,478	155	158	138	7,352	0	11,336	0	0		
1984	0	5	57	3,532	159	56	147	7,962	0	11,915	0	0		
1985	**0**	**5**	**51**	**4,287**	**154**	**41**	**137**	**7,071**	**1**	**11,742**	**0**	**0**		
1986	0	5	50	3,906	144	42	134	6,529	0	10,805	0	0		
1987	0	6	51	5,697	202	43	151	6,738	0	12,883	0	0		
1988	0	6	53	6,767	193	43	146	6,906	0	14,108	0	0		
1989	0	5	39	7,087	160	29	150	7,012	2	14,479	0	0		
												Net Energy[4]		Total[4]
			Trillion Btu											
1960	*	**1.8**	**0.7**	**10.5**	**0.3**	**0.3**	**0.5**	**21.2**	**6.0**	**39.5**	**0.0**	**41.3**	**0.0**	**41.3**
1961	*	2.3	0.5	9.6	0.3	0.3	0.5	21.3	5.4	37.8	0.0	40.1	0.0	40.1
1962	*	2.4	0.8	11.4	0.3	0.3	0.5	22.2	6.0	41.5	0.0	44.0	0.0	44.0
1963	*	1.6	1.2	10.1	0.3	0.3	0.5	22.6	3.9	38.9	0.0	40.5	0.0	40.5
1964	*	1.3	1.2	9.6	0.4	0.3	0.5	21.8	3.9	37.8	0.0	39.0	0.0	39.0
1965	*	**2.0**	**1.1**	**10.9**	**0.4**	**0.2**	**0.5**	**21.8**	**7.4**	**42.3**	**0.0**	**44.3**	**0.0**	**44.3**
1966	*	1.9	1.5	10.0	0.5	0.2	0.5	22.7	7.7	43.0	0.0	45.0	0.0	45.0
1967	*	4.1	1.3	13.2	0.7	0.2	0.4	23.4	11.2	50.4	0.0	54.5	0.0	54.5
1968	*	2.1	1.5	18.3	0.8	0.3	0.5	24.9	6.0	52.2	0.0	54.3	0.0	54.3
1969	*	4.1	1.5	18.0	0.9	0.4	0.5	26.4	5.9	53.7	0.0	57.8	0.0	57.8
1970	*	**6.0**	**1.3**	**17.9**	**0.7**	**0.3**	**0.5**	**27.6**	**2.9**	**51.3**	**0.0**	**57.4**	**0.0**	**57.4**
1971	*	8.2	1.3	21.1	0.7	0.5	0.5	28.1	1.5	53.7	0.0	61.9	0.0	61.9
1972	*	6.2	1.3	19.9	0.9	0.6	0.6	30.6	1.5	55.4	0.0	61.7	0.0	61.7
1973	*	8.9	1.3	21.4	0.9	0.5	0.6	32.9	1.2	58.9	0.0	67.8	0.0	67.8
1974	*	7.5	1.2	25.0	0.9	0.4	0.6	32.2	1.4	61.7	0.0	69.2	0.0	69.2
1975	*	**4.9**	**1.1**	**23.1**	**0.7**	**0.4**	**0.7**	**35.2**	**0.0**	**61.1**	**0.0**	**66.1**	**0.0**	**66.1**
1976	*	6.3	1.1	23.8	0.7	0.5	0.7	37.7	0.3	64.9	0.0	71.2	0.0	71.2
1977	*	5.9	1.3	26.6	0.8	0.5	0.9	39.0	0.3	69.3	0.0	75.3	0.0	75.3
1978	0.0	6.4	1.5	30.6	1.0	0.7	1.0	43.9	*	78.7	0.0	85.1	0.0	85.1
1979	0.0	7.6	1.6	33.5	1.1	0.2	1.0	42.5	*	79.9	0.0	87.5	0.0	87.5
1980	**0.0**	**6.2**	**0.5**	**37.4**	**0.9**	**0.3**	**0.9**	**42.2**	**0.0**	**82.2**	**0.0**	**88.4**	**0.0**	**88.4**
1981	0.0	6.7	0.4	36.2	1.4	0.4	0.9	42.6	*	82.0	0.0	88.7	0.0	88.7
1982	0.0	6.8	0.3	29.4	1.2	0.5	0.8	40.5	0.1	72.7	0.0	79.5	0.0	79.5
1983	0.0	5.6	0.3	20.3	0.9	0.6	0.8	38.6	0.0	61.4	0.0	67.0	0.0	67.0
1984	0.0	5.5	0.3	20.6	0.9	0.2	0.9	41.8	0.0	64.7	0.0	70.1	0.0	70.1
1985	**0.0**	**5.2**	**0.3**	**25.0**	**0.9**	**0.1**	**0.8**	**37.1**	*	**64.2**	**0.0**	**69.4**	**0.0**	**69.4**
1986	0.0	5.3	0.3	22.8	0.8	0.2	0.8	34.3	0.0	59.1	0.0	64.4	0.0	64.4
1987	0.0	6.4	0.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0	71.0	0.0	77.4	0.0	77.4
1988	0.0	6.0	0.3	39.4	1.1	0.2	0.9	36.3	0.0	78.1	0.0	84.0	0.0	84.0
1989	0.0	5.7	0.2	41.3	0.9	0.1	0.9	36.8	*	80.2	0.0	85.9	0.0	85.9

[1] Includes supplemental gaseous fuels.
[2] Liquefied petroleum gases (LPG) series estimates since 1979 may be affected by the changing data sources and estimation procedures. See the LPG notes in Appendix A.
[3] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[4] Due to the lack of consistent historical data, statistics exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy (except for small amounts used by electric utilities to generate electricity for distribution).
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 320. Estimates of Energy Input at Electric Utilities, 1960-1989, Wyoming

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas[1]	Petroleum: Heavy Oil[2]	Petroleum: Light Oil[3]	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Electric Power	Hydro-electric Power[4]	Geothermal Energy	Other[5]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours				
1960	**815**	**0**	**815**	**1**	**5**	**6**	**0**	**12**	**0**	**609**	**0**	**0**	
1961	1,054	0	1,054	1	8	10	0	18	0	633	0	0	
1962	1,104	0	1,104	1	2	2	0	4	0	975	0	0	
1963	1,672	0	1,672	*	12	14	0	26	0	879	0	0	
1964	1,752	0	1,752	*	6	7	0	13	0	874	0	0	
1965	**1,941**	**0**	**1,941**	*	**15**	**19**	**0**	**34**	**0**	**884**	**0**	**0**	
1966	2,431	0	2,431	*	7	8	0	15	0	923	0	0	
1967	2,276	0	2,276	*	12	14	0	26	0	789	0	0	
1968	2,390	0	2,390	*	14	16	0	30	0	959	0	0	
1969	3,068	0	3,068	2	12	15	0	28	0	1,097	0	0	
1970	**3,571**	**0**	**3,571**	**2**	**11**	**13**	**0**	**25**	**0**	**1,006**	**0**	**0**	
1971	3,400	0	3,400	1	28	19	0	47	0	1,312	0	0	
1972	4,554	0	4,554	1	36	12	0	47	0	1,172	0	0	
1973	5,797	0	5,797	*	90	8	0	98	0	1,209	0	0	
1974	5,846	0	5,846	1	105	3	0	108	0	1,411	0	0	
1975	**6,938**	**0**	**6,938**	**1**	**112**	**6**	**0**	**118**	**0**	**1,120**	**0**	**0**	
1976	9,000	0	9,000	1	128	10	0	138	0	1,043	0	0	
1977	11,371	0	11,371	1	93	7	0	100	0	762	0	0	
1978	11,147	0	11,147	1	154	14	0	169	0	982	0	0	
1979	13,258	0	13,258	*	141	6	0	147	0	1,053	0	0	
1980	**13,498**	**0**	**13,498**	*	**0**	**123**	**0**	**123**	**0**	**1,108**	**0**	**0**	
1981	16,559	0	16,559	*	0	147	0	147	0	841	0	0	
1982	17,529	0	17,529	*	0	115	0	115	0	850	0	0	
1983	16,135	0	16,135	*	0	81	0	81	0	1,150	0	1	
1984	18,805	0	18,805	*	0	121	0	121	0	1,286	0	3	
1985	**21,173**	**0**	**21,173**	*	**0**	**143**	**0**	**143**	**0**	**1,068**	**0**	**3**	
1986	17,452	0	17,452	*	0	123	0	123	0	1,140	0	1	
1987	22,408	0	22,408	*	0	115	0	115	0	768	0	*	
1988	23,563	0	23,563	*	0	121	0	121	0	789	0	*	
1989	21,908	0	21,908	*	0	118	0	118	0	680	0	*	
	Trillion Btu												
1960	**12.1**	**0.0**	**12.1**	**0.7**	*	*	**0.0**	**0.1**	**0.0**	**6.6**	**0.0**	**0.0**	**19.4**
1961	16.1	0.0	16.1	0.7	0.1	0.1	0.0	0.1	0.0	6.7	0.0	0.0	23.6
1962	16.8	0.0	16.8	0.7	*	*	0.0	*	0.0	10.3	0.0	0.0	27.8
1963	25.9	0.0	25.9	0.2	0.1	0.1	0.0	0.2	0.0	9.2	0.0	0.0	35.5
1964	28.8	0.0	28.8	0.1	*	*	0.0	0.1	0.0	9.1	0.0	0.0	38.2
1965	**31.0**	**0.0**	**31.0**	**0.2**	**0.1**	**0.1**	**0.0**	**0.2**	**0.0**	**9.2**	**0.0**	**0.0**	**40.6**
1966	37.9	0.0	37.9	0.1	*	*	0.0	0.1	0.0	9.6	0.0	0.0	47.7
1967	35.6	0.0	35.6	0.2	0.1	0.1	0.0	0.2	0.0	8.2	0.0	0.0	44.2
1968	38.1	0.0	38.1	0.4	0.1	0.1	0.0	0.2	0.0	10.0	0.0	0.0	48.7
1969	50.5	0.0	50.5	2.4	0.1	0.1	0.0	0.2	0.0	11.5	0.0	0.0	64.5
1970	**59.0**	**0.0**	**59.0**	**2.4**	**0.1**	**0.1**	**0.0**	**0.1**	**0.0**	**10.6**	**0.0**	**0.0**	**72.2**
1971	55.0	0.0	55.0	1.2	0.2	0.1	0.0	0.3	0.0	13.7	0.0	0.0	70.2
1972	75.1	0.0	75.1	0.6	0.2	0.1	0.0	0.3	0.0	12.2	0.0	0.0	88.2
1973	97.0	0.0	97.0	0.3	0.6	*	0.0	0.6	0.0	12.6	0.0	0.0	110.4
1974	99.4	0.0	99.4	0.5	0.7	*	0.0	0.7	0.0	14.7	0.0	0.0	115.3
1975	**115.4**	**0.0**	**115.4**	**0.4**	**0.7**	*	**0.0**	**0.7**	**0.0**	**11.7**	**0.0**	**0.0**	**128.2**
1976	157.8	0.0	157.8	0.5	0.8	0.1	0.0	0.9	0.0	10.8	0.0	0.0	169.9
1977	200.4	0.0	200.4	0.6	0.6	*	0.0	0.6	0.0	8.0	0.0	0.0	209.7
1978	195.6	0.0	195.6	0.6	1.0	0.1	0.0	1.1	0.0	10.2	0.0	0.0	207.4
1979	231.9	0.0	231.9	0.4	0.9	*	0.0	0.9	0.0	10.9	0.0	0.0	244.1
1980	**237.4**	**0.0**	**237.4**	**0.2**	**0.0**	**0.7**	**0.0**	**0.7**	**0.0**	**11.5**	**0.0**	**0.0**	**249.8**
1981	286.7	0.0	286.7	0.1	0.0	0.9	0.0	0.9	0.0	8.8	0.0	0.0	296.4
1982	303.9	0.0	303.9	0.1	0.0	0.7	0.0	0.7	0.0	8.9	0.0	0.0	313.6
1983	281.2	0.0	281.2	0.1	0.0	0.5	0.0	0.5	0.0	12.1	0.0	*	293.9
1984	325.2	0.0	325.2	0.1	0.0	0.7	0.0	0.7	0.0	13.3	0.0	*	339.3
1985	**370.7**	**0.0**	**370.7**	**0.1**	**0.0**	**0.8**	**0.0**	**0.8**	**0.0**	**11.0**	**0.0**	*	**382.8**
1986	303.9	0.0	303.9	0.1	0.0	0.7	0.0	0.7	0.0	11.7	0.0	*	316.4
1987	393.4	0.0	393.4	0.1	0.0	0.7	0.0	0.7	0.0	7.9	0.0	*	402.0
1988	412.6	0.0	412.6	0.2	0.0	0.7	0.0	0.7	0.0	8.1	0.0	*	421.6
1989	385.1	0.0	385.1	0.1	0.0	0.7	0.0	0.7	0.0	7.0	0.0	*	392.9

[1] Includes supplemental gaseous fuels.
[2] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes Grade Nos. 4, 5, and 6 and residual fuel oils.
[3] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes Grade No. 2 heating oil, kerosene and jet fuel.
[4] When applicable, includes net imports of electricity (assumed to be hydroelectricity).
[5] Other is electricity generated for distribution from wood and waste, wind, photovoltaic, and solar thermal energy.
* Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Appendix A Documentation

Section 1. How to Use the Documentation

Appendix A of the *State Energy Data Report* describes how the estimates in the report were derived by the State Energy Data System (SEDS). The following five sections, one for each energy source, provide: descriptions of all the data series that are entered into SEDS; the formulas applied in SEDS for creating additional data series derived from the input series; and notes on special circumstances for any series.

Appendix B is an alphabetical listing of the variable names and formulas used in the system; Appendix C lists the sources of all data series entered into SEDS; Appendix D lists the conversion factors used in SEDS to convert physical units into British thermal units and gives the sources for those factors; and Appendix E is a summary of the changes made in SEDS since the last report, which was released in April 1990.

Nearly 400 variables are used in SEDS to create the estimates in this report. All of the variables are identified by seven-letter names, such as MGTCPAL, composed as follows:

Characters:	MG	TC	P	AL
Positions:	1 and 2	3 and 4	5	6 and 7
Identify:	Type of energy	Energy activity or consumption end-use sector	Type of data	Geographic area

In this example MGTCPAL is the identifying code for data on motor gasoline total consumption in physical units in Alabama.

The type of energy categories in SEDS, which are represented by the first two letters of the variable name, are:

AB = aviation gasoline blending components
AC = anthracite
AI = aluminum ingot
AR = asphalt and road oil
AS = asphalt
AV = aviation gasoline
BC = bituminous coal and lignite
CC = coal coke
CG = coated and glazed paper
CL = coal
CO = crude oil, including lease condensate
CT = catalytic cracking
DF = distillate fuel
DK = distillate fuel, including kerosene-type jet fuel
EL = electricity
ES = electricity sales
FF = fossil fuels
FN = petrochemical feedstocks, naphtha less than 401 °F
FO = petrochemical feedstocks, other oils equal to or greater than 401 °F
FS = petrochemical feedstocks, still gas
GE = geothermal energy
GW = geothermal, wood, waste, wind, photovoltaic, and solar thermal energy
HY = hydroelectric power
JF = jet fuel
JK = jet fuel, kerosene-type
JN = jet fuel, naphtha-type
KS = kerosene
LG = liquefied petroleum gases
LO = electrical system energy losses
LU = lubricants
MB = motor gasoline blending components
MG = motor gasoline
MS = miscellaneous petroleum products
NA = natural gasoline (including isopentane)
NG = natural gas
NU = nuclear electric power
OC = organic chemicals
PA = all petroleum products
PC = petroleum coke
PI = paints and allied products
PL = plant condensate
PO = other petroleum products
PP = pentanes plus

RD = road oil
RF = residual fuel
SG = still gas
SN = special naphtha
TE = total energy
TN = total net energy
TP = U.S. resident population
UO = unfinished oils
US = unfractionated stream
WI = wood, waste, wind, photovoltaic, and solar thermal energy
WN = wind, photovoltaic, and solar thermal energy
WW = wood and waste
WX = waxes

The consumption end-use sectors, identified by characters three and four of each variable name, are:

AC = transportation sector consumption
CC = commercial sector consumption
EU = electric utility sector consumption
IC = industrial sector consumption
RC = residential sector consumption
TC = total consumption of all sectors

Many other characters occur in the third and fourth positions of the variable names for the sales, deliveries, and distribution data series used in the intermediate calculations in SEDS to derive the end-use consumption estimates. Examples of these codes are:

AG = sales for use in agriculture
BK = sales for use in vessel bunkering
IN = deliveries to the industrial sector
OD = distribution to other industrial users

Combining the first two components (the first four letters) produces variable names such as:

MGAG = motor gasoline sold for use in agriculture
MGAC = motor gasoline consumed by the transportation sector
NGIN = natural gas delivered to the industrial sector
NGIC = natural gas consumed by the industrial sector

The fifth character of the variable names in SEDS identifies the type of data by using one of the following letters:

B = data in British thermal units (Btu)
K = factor for converting data from physical units to Btu
M = data in alternative physical units
P = data in standardized physical units
S = share or ratio expressed as a fraction
V = value added in manufacture

Data entered into SEDS are in physical units, represented by a "P" in the fifth character: for example, coal data are in thousand short tons, petroleum data are in thousand barrels, and natural gas data are in million cubic feet. In a few cases, data are obtained from the source documents in different units, such as thousand gallons instead of thousand barrels, and are represented by an "M" until converted in SEDS to the unit that is consistent with other variables. Conversion factors, represented by a "K" in the fifth character, are applied to the physical unit data to convert the data to British thermal units, a common unit for all forms of energy. The derived data series in thousand British thermal units are represented by "B" in the fifth character. In a few cases, consumption estimates are derived by calculating shares of aggregated consumption data. The fractions used to calculate the consumption shares are identified by an "S" in the fifth character. The consumption estimates for some petroleum products are based on the value added in manufacture by related industries in each State. The data series for those industry activities are in dollars, and the variable names contain "V" in the fifth character.

The last two characters of each variable name are for geographic identification. Geographic areas used in SEDS are the 50 States and the District of Columbia (represented by the U.S. Postal Service State abbreviations) and the United States. Some estimates of electricity sales and losses are derived by using only the contiguous 48 States and the District of Columbia, and the

variables used in those calculations are identified by "48" in the last two characters of the names. The geographic area codes used in SEDS are:

AK	Alaska	NC	North Carolina
AL	Alabama	ND	North Dakota
AR	Arkansas	NE	Nebraska
AZ	Arizona	NH	New Hampshire
CA	California	NJ	New Jersey
CO	Colorado	NM	New Mexico
CT	Connecticut	NV	Nevada
DC	District of Columbia	NY	New York
DE	Delaware	OH	Ohio
FL	Florida	OK	Oklahoma
GA	Georgia	OR	Oregon
HI	Hawaii	PA	Pennsylvania
IA	Iowa	RI	Rhode Island
ID	Idaho	SC	South Carolina
IL	Illinois	SD	South Dakota
IN	Indiana	TN	Tennessee
KS	Kansas	TX	Texas
KY	Kentucky	UT	Utah
LA	Louisiana	VA	Virginia
MA	Massachusetts	VT	Vermont
MD	Maryland	WA	Washington
ME	Maine	WI	Wisconsin
MI	Michigan	WV	West Virginia
MN	Minnesota	WY	Wyoming
MO	Missouri	US	United States
MS	Mississippi	48	The contiguous 48 States and the District of Columbia
MT	Montana		

Throughout this documentation, "ZZ" is used as a geographic identifier to represent the different State abbreviations that would be interchanged in that position of the variable name.

Section 2. Petroleum

Petroleum Overview

The 27 petroleum products included in the *State Energy Data Report* are explained in this section. For 12 of these products, the means of estimating their individual consumption by State is described in individual sections. The 12 petroleum products are:

- asphalt (AS)
- aviation gasoline (AV)
- distillate fuel (DF)
- jet fuel, kerosene-type (JK)
- jet fuel, naphtha-type (JN)
- kerosene (KS)
- liquefied petroleum gases (LG)
- lubricants (LU)
- motor gasoline (MG)
- petroleum coke (PC)
- residual fuel (RF)
- road oil (RD)

The remaining 15 products are described in the section "Other Petroleum Products" and include the following:

- crude oil, including lease condensate (CO)
- miscellaneous petroleum products (MS)
- natural gasoline (NA) (including isopentane)
- petroleum feedstocks, naphtha less than 401 °F (FN)
- petroleum feedstocks, other oils equal to or greater than 401 °F (FO)
- petroleum feedstocks, still gas (FS)
- plant condensate (PL)
- pentanes plus (PP)
- special naphthas (SN)
- still gas (SG)
- unfractionated stream (US)
- waxes (WX)
- unfinished oils (UO)
- motor gasoline blending components (MB)
- aviation gasoline blending components (AB)

The last petroleum documentation section, "Petroleum Summaries," describes how the 27 petroleum products are combined for each major end-use sector's estimated consumption.

Table A1 summarizes the petroleum products' end-use assignments in SEDS. Shown in this table are the first four letters of the seven-letter variable names used to identify all energy sources. The first two letters identify the petroleum product and the next two letters identify the end-use sector. For example, the table shows that the aviation gasoline estimated to be consumed by the transportation sector is all aviation gasoline consumed, and that there is some estimated consumption of lubricants in the industrial and transportation sectors while distillate fuel is consumed in every sector.

Table A1. Summary of Petroleum Products in the State Energy Data System

Petroleum Products	Residential Sector Estimated Consumption (RC)		Commercial Sector Estimated Consumption (CC)		Industrial Sector Estimated Consumption (IC)		Transportation Sector Estimated Consumption (AC)		Electric Utility Sector Estimated Consumption (EU)		Total Estimated Consumption (TC)
Asphalt and Road Oil (AR):					ARIC					=	ARTC
					+						+
Aviation Gasoline (AV):							AVAC			=	AVTC
							+				+
Distillate Fuel (DF):	DFRC	+	DFCC	+	DFIC	+	DFAC	+	DFEU	=	DFTC
	+		+		+		+		+		+
Jet Fuel, Kerosene (JK):							JKAC	+	JKEU	=	JKTC
							+		+		+
Jet Fuel, Naphtha (JN):							JNAC			=	JNTC
							+				+
Kerosene (KS)	KSRC	+	KSCC	+	KSIC					=	KSTC
	+		+		+						+
Liquefied Petroleum Gases (LG):	LGRC	+	LGCC	+	LGIC	+	LGAC			=	LGTC
			+		+		+				+
Lubricants (LU):					LUIC	+	LUAC			=	LUTC
					+		+				+
Motor Gasoline (MG):			MGCC	+	MGIC	+	MGAC			=	MGTC
			+		+		+				+
Residual Fuel (RF):			RFCC	+	RFIC	+	RFAC	+	RFEU	=	RFTC
					+				+		+
Other Petroleum Products (PO):					POIC[1]			+	PCEU[2]	=	POTC
Total Petroleum (PA):	PARC	+	PACC	+	PAIC	+	PAAC	+	PAEU	=	PATC

[1]"Other petroleum products" consumed by the industrial sector is composed of: crude oil, including lease condensate; miscellaneous products; natural gasoline; petroleum feedstocks (naphtha less than 401 °F, other oils equal to or greater than 401 °F, and still gas); petroleum coke for non-electric utility use; plant condensate; pentanes plus; special naphthas; still gas; unfractionated stream; waxes; unfinished oils; motor gasoline blending components; and aviation gasoline blending components.

[2]Petroleum coke consumed at electric utilities.

Asphalt and Road Oil

Physical Units

There are no State-level consumption data for asphalt and road oil available. Therefore, the State-level sales data are used to apportion the national consumption numbers to the States. There is an inherent problem in this methodology because asphalt and road oil sold by a producer in one State may easily be transported across State lines and be consumed in a neighboring State. The Asphalt Institute, which collects the sales data, acknowledges this problem and estimates that about 15 States may have consumption estimates as much as 20 percent too high or too low.

The asphalt and road oil sales data are in short tons, while the consumption data are in thousand barrels. Since the sales data are used only for apportioning the U.S. consumption data to the States, they do not need to be converted into thousand barrels.

The four data series that are used to estimate consumption of asphalt and road oil are ("ZZ" in the variable name represents the two-letter State code that differs for each State):

ASINPZZ = asphalt sold for use in the industrial sector of each State, in short tons;
ASTCPUS = asphalt total consumed in the United States, in thousand barrels;
RDINPZZ = road oil sold for use in the industrial sector of each State, in short tons; and
RDTCPUS = road oil total consumed in the United States, in thousand barrels.

All asphalt consumption is assigned to the industrial sector because it is used in construction activity. ASINPZZ represents all asphalt sold as paving products, as roofing products, and for all other uses. Since the Federal government stopped collecting asphalt sales data in 1980, the source for these numbers in recent years has been the Asphalt Institute's reports.

ASTCPUS represents total U.S. consumption of asphalt. It is the product supplied data series in the publication *Petroleum Supply Annual* published by the Energy Information Administration (EIA). (Beginning in 1983, asphalt product supplied includes road oil.)

The source of the third variable, RDINPZZ, is the report series "Sales of Asphalt" for 1960 through 1980, published by the EIA. This sales series was discontinued after the 1980 report. For 1981 and 1982, State estimates of road oil sales (RDINPZZ) were created by first converting the annual total U.S. road oil product supplied data into short tons (one short ton contains 5.5 barrels of road oil). Then, the U.S. total road oil product supplied, in short tons, was disaggregated to each State in proportion to the State's share of total U.S. asphalt sales as reported in the Asphalt Institute's *Report on Sales of Asphalt in the U.S.*

RDTCPUS, which represents total U.S. consumption of road oil, is the product supplied data series in the publication *Petroleum Supply Annual.* Beginning in 1983, road oil product supplied is included in asphalt product supplied data in the source publication. Therefore, all post-1982 values for RDINPZZ and RDTCPUS are entered as zero in the SEDS.

To calculate State consumption estimates of asphalt, total sales of asphalt in the United States to the industrial sector is first calculated as the sum of the State data:

$$ASINPUS = \Sigma ASINPZZ$$

Each State's consumption of asphalt in the industrial sector (ASICPZZ) is calculated to be in proportion to each State's sales:

$$ASICPZZ = (ASINPZZ / ASINPUS) * ASTCPUS$$

The U.S. industrial sector consumption of asphalt is the sum of the States' consumption:

$$ASICPUS = \Sigma ASICPZZ$$

Since all consumption of asphalt is assumed to be in the industrial sector, the total consumption of asphalt in each State equals the industrial sector consumption:

$$ASTCPZZ = ASICPZZ$$

The State sales of road oil are used to create an estimate of State consumption of road oil.

The U.S. total of all road oil sales to the industrial sector is calculated by adding all of the States' sales:

$$RDINPUS = \Sigma RDINPZZ$$

Each State's consumption of road oil in the industrial sector (RDICPZZ) is calculated to be in proportion to each State's sales:

RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUS

The U.S. industrial sector consumption of road oil is the sum of the States' consumption:

RDICPUS = ΣRDICPZZ

Since all road oil consumption is assumed to be in the industrial sector, the total consumption of road oil in each State equals the industrial sector consumption:

RDTCPZZ = RDICPZZ

Asphalt and road oil consumption are added together:

ARICPZZ = ASICPZZ + RDICPZZ
ARICPUS = ΣARICPZZ
ARTCPZZ = ASTCPZZ + RDTCPZZ
ARTCPUS = ΣARTCPZZ

British Thermal Units (Btu)

Asphalt and road oil have a heat content value of approximately 6.636 million Btu per barrel. This factor is applied to convert asphalt and road oil estimated consumption from physical units to Btu:

ARICBZZ = ARICPZZ * 6.636
ARICBUS = ΣARICBZZ

Since all asphalt and road oil is assumed to be used by the industrial sector, total asphalt and road oil consumption in each State and in the United States is assumed to equal the industrial sector consumption:

ARTCBZZ = ARICBZZ
ARTCBUS = ARICBUS

Aviation Gasoline

Physical Units

The three data series used to estimate consumption of aviation gasoline are:

AVMIPZZ = aviation gasoline issued to the military in each State, in thousand barrels;
AVNMMZZ = aviation gasoline sold to nonmilitary users in each State, in thousand gallons; and
AVTCPUS = aviation gasoline total consumed in the United States, in thousand barrels.

The U.S. Department of Transportation, Federal Highway Administration publishes the nonmilitary aviation gasoline sales data by State (AVNMMZZ) in *Highway Statistics.*

AVMIPZZ is the issues of aviation gasoline to the military in each State and is obtained from the U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. These data are reported by fiscal year and are available for 1977 forward. In SEDS, the 1977 data are used for 1960 through 1976.

Total U.S. consumption of aviation gasoline (AVTCPUS) is the product supplied data series in the publication *Petroleum Supply Annual* published by the Energy Information Administration.

The State-level data series are summed to provide totals for the United States:

AVMIPUS = ΣAVMIPZZ
AVNMMUS = ΣAVNMMZZ

The State sales of nonmilitary aviation gasoline data are converted from thousand gallons to thousand barrels (42 gallons = 1 barrel):

AVNMPZZ = AVNMMZZ / 42

The U.S. nonmilitary sales is the sum of the States' sales:

AVNMPUS = ΣAVNMPZZ

The total sales of aviation gasoline is estimated as the sum of nonmilitary sales and military issues:

AVTTPZZ = AVNMPZZ + AVMIPZZ
AVTTPUS = ΣAVTTPZZ

All aviation gasoline is assumed to be used by the transportation sector. An estimate of aviation gasoline consumption by the transportation sector by State (AVACPZZ) is calculated by assuming that each State consumes aviation gasoline in proportion to the amount sold to that State:

AVACPZZ = (AVTTPZZ / AVTTPUS) * AVTCPUS
AVACPUS = ΣAVACPZZ

Total aviation gasoline consumption in each State, AVTCPZZ, equals the transportation sector consumption in each State:

AVTCPZZ = AVACPZZ

British Thermal Units (Btu)

Aviation gasoline has a heat content value of approximately 5.048 million Btu per barrel. This factor is applied to convert aviation gasoline estimated consumption from physical units to Btu:

AVACBZZ = AVACPZZ * 5.048
AVACBUS = ΣAVACBZZ

Since all aviation gasoline is assumed to be used for transportation, aviation gasoline total consumption in each State and in the United States equals the transportation sector consumption:

AVTCBZZ = AVACBZZ
AVTCBUS = AVACBUS

Distillate Fuel

Physical Units

Since State-level and end-use consumption data for distillate fuel (except for that consumed by electric utilities) are not available, deliveries of distillate fuel into or within each State, in thousand barrels, published by EIA are used to estimate distillate fuel consumption. The following variable names have been assigned to the deliveries series ("ZZ" in the variable names represents the two-letter State code that differs for each State):

DFBKPZZ = distillate fuel delivered for vessel bunkering use (i.e., the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies, and fueling for other marine purposes), excluding that sold to the Armed Forces;

DFCMPZZ = distillate fuel delivered to commercial establishments for space heating, water heating, and cooking;

DFIBPZZ = distillate fuel delivered to industrial establishments for space heating and for other industrial use (i.e., for all uses to mines, smelters, plants engaged in producing manufactured products, in processing goods, and in assembling), including farm use;

DFMIPZZ = distillate fuel delivered to the Armed Forces, regardless of use;

DFOCPZZ = distillate fuel delivered for oil company use, including all fuel oil, crude oil, or acid sludge used as fuel at refineries, by pipelines, or in field operations;

DFOFPZZ = distillate fuel delivered as diesel for off-highway use in construction (i.e., earthmoving equipment, cranes, stationary generators, air compressors, etc.) and for off-highway uses other than construction (i.e., logging);

DFONPZZ = distillate fuel delivered as diesel for onhighway use (i.e., as engine fuel for trucks, buses, and automobiles);

DFOTPZZ = distillate fuel delivered for all other uses not identified in other deliveries categories;

DFRRPZZ = distillate fuel delivered to the railroads for use in fueling trains, operating railroad equipment, space heating of buildings, and other operations; and

DFRSPZZ = distillate fuel delivered to the residential sector for space heating, water heating, and cooking, excluding farm houses.

Petroleum

Three series are used in SEDS for consumption data:

DKEUPZZ = distillate fuel consumed by electric utilities, in thousand barrels;

JKEUPZZ = kerosene-type jet fuel consumed by electric utilities, in thousand barrels; and

DFTCPUS = distillate fuel total consumed in the United States, in thousand barrels.

Distillate fuel consumed by electric utilities (DKEUPZZ) is collected by the Energy Information Administration on Form EIA-759, "Monthly Power Plant Report" and predecessor forms. (See Note 4 at the end of this distillate fuel section for further information on changes in this series' data definitions.) The series DKEUPZZ includes kerosene-type jet fuel consumed at electric utilities that is identified as JKEUPZZ. The kerosene-type jet fuel is subtracted from the distillate fuel data and accounted for in the jet fuel data described in a following section of this documentation.

Total consumption of distillate fuel in the United States, DFTCPUS, is the product supplied series in the EIA publication, *Petroleum Supply Annual.*

To begin calculating distillate fuel State and end-use consumption, all of the State-level data series are summed to provide totals for the United States:

DFBKPUS = ΣDFBKPZZ
DFCMPUS = ΣDFCMPZZ
DFIBPUS = ΣDFIBPZZ
DFMIPUS = ΣDFMIPZZ
DFOCPUS = ΣDFOCPZZ
DFOFPUS = ΣDFOFPZZ
DFONPUS = ΣDFONPZZ
DFOTPUS = ΣDFOTPZZ
DFRRPUS = ΣDFRRPZZ
DFRSPUS = ΣDFRSPZZ
DKEUPUS = ΣDKEUPZZ

Next, the variables are combined as closely as possible into the major end-use sectors used in SEDS. The residential sector deliveries and the commercial sector deliveries contain only DFRSPZZ and DFCMPZZ, respectively.

The deliveries of distillate fuel to the industrial sector for each State, DFINPZZ, is the sum of the distillate fuel delivered for industrial use, including industrial space heating and farm use (DFIBPZZ), for oil company use (DFOCPZZ), for off-highway use (DFOFPZZ), and distillate fuel delivered for all other uses (DFOTPZZ):

DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ
DFINPUS = ΣDFINPZZ

The deliveries of distillate fuel to the transportation sector for each State, DFTRPZZ, is the sum of the distillate fuel deliveries for vessel bunkering, military use, railroad use, and the diesel-type used onhighway:

DFTRPZZ = DFBKPZZ + DFMIPZZ + DFRRPZZ + DFONPZZ
DFTRPUS = ΣDFTRPZZ

Deliveries of distillate fuel oil to the residential, commercial, industrial, and transportation sectors are added to create a non-electric utilities deliveries total (DFNDPZZ):

DFNDPZZ = DFRSPZZ + DFCMPZZ + DFINPZZ + DFTRPZZ
DFNDPUS = ΣDFNDPZZ

Consumption of distillate fuel by electric utilities (DFEUPZZ) is calculated by subtracting the kerosene-type jet fuel consumed by electric utilities from the input series DKEUPZZ:

DFEUPZZ = DKEUPZZ — JKEUPZZ
DFEUPUS = ΣDFEUPZZ

The estimated non-electric utilities distillate fuel consumption for the United States (DFNCPUS) is calculated by subtracting the distillate fuel consumption at electric utilities from the total U.S. distillate fuel consumption:

DFNCPUS = DFTCPUS — DFEUPUS

The U.S. total non-electric utilities consumption is apportioned to the States by using the non-electric utilities deliveries State data. This is done by assuming that each State consumes distillate fuel in proportion to the amount delivered to that State:

DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS

Total State distillate fuel consumption is the sum of the non-electric utilities consumption and the electric utilities consumption:

DFTCPZZ = DFNCPZZ + DFEUPZZ

Each State's non-electric utilities consumption of distillate fuel (DFNCPZZ) is further divided into end-use estimates in proportion to each sector's deliveries as a portion of total non-electric utilities deliveries. The estimated residential sector consumption in each State, DFRCPZZ, is calculated:

DFRCPZZ = (DFRSPZZ / DFNDPZZ) * DFNCPZZ

The commercial sector's estimated consumption in each State, DFCCPZZ, is calculated:

DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ

The industrial sector's estimated consumption in each State, DFICPZZ, is calculated:

DFICPZZ = (DFINPZZ / DFNDPZZ) * DFNCPZZ

The transportation sector's estimated consumption in each State, DFACPZZ, is calculated:

DFACPZZ = (DFTRPZZ / DFNDPZZ) * DFNCPZZ

The consumption of distillate fuel in the United States by major end-use sector is estimated by summing the States' estimated consumption:

DFRCPUS = ΣDFRCPZZ
DFCCPUS = ΣDFCCPZZ
DFICPUS = ΣDFICPZZ
DFACPUS = ΣDFACPZZ

British Thermal Units (Btu)

Distillate fuel has a heat content value of approximately 5.825 million Btu per barrel. This factor is applied to convert distillate fuel estimated consumption from physical units to Btu:

DFRCBZZ = DFRCPZZ * 5.825
DFCCBZZ = DFCCPZZ * 5.825
DFICBZZ = DFICPZZ * 5.825
DFACBZZ = DFACPZZ * 5.825
DFEUBZZ = DFEUPZZ * 5.825
DFTCBZZ = DFRCBZZ + DFCCBZZ + DFICBZZ + DFACBZZ + DFEUBZZ

The U.S. level Btu consumption estimates are calculated:

DFRCBUS = ΣDFRCBZZ
DFCCBUS = ΣDFCCBZZ
DFICBUS = ΣDFICBZZ
DFACBUS = ΣDFACBZZ
DFEUBUS = ΣDFEUBZZ
DFTCBUS = ΣDFTCBZZ

In the *State Energy Data Report* tables, "Estimates of Energy Input at Electric Utilities," the data used in the column headed "Light Oil" is the variable DKEUP (distillate fuel plus jet kerosene) in physical units. The Btu variable, DKEUB, is calculated:

DKEUBZZ = DFEUBZZ + JKEUBZZ
DKEUBUS = ΣDKEUBZZ

Additional Notes on Distillate Fuel

1. "Deliveries" data are actually called "shipments" in the source document for 1960 and 1961; "consumption" for 1962 through 1966; "shipments" for 1967; "sales" from 1968 through 1978; "deliveries" for 1979 through 1988; and "adjusted sales" for 1989.

2. State data for the variables DFONPZZ (onhighway use), DFOFPZZ (off-highway use), and DFOTPZZ (other) for 1967 are unavailable from published sources. These three variables compose the miscellaneous use category for distillate fuel, which is known for all years by State. State estimates of DFONPZZ and DFOFPZZ for 1967 were developed by dividing the 1966 values for DFONPZZ and DFOFPZZ by the 1966 total miscellaneous use for each State and applying these percentages to the 1967 total miscellaneous use for each State. The 1967 State estimates for DFOTPZZ are the remainder of the 1967 miscellaneous category after DFONPZZ and DFOFPZZ were subtracted.

3. In 1979, the Energy Information Administration implemented a new survey form, EIA-172, to obtain deliveries of fuel oil and kerosene data and updated the list of respondents. (A detailed explanation is published in the *Energy Data Report* "Deliveries of Fuel Oil and Kerosene in 1979.") In the new survey form, certain end-use categories were redefined—in many cases to collect more disaggregated data. The reclassifications resulted in some end-use categories that were no longer comparable with those in previous surveys. Where discontinuities occurred, estimates for the pre-1979 years have been made in the State Energy Data System (SEDS) to conform with the 1979 fuel oil deliveries classifications. The pre-1979 deliveries estimates are not published in this report, but are used in SEDS to disaggregate the known U.S. total product supplied (consumption) into State and major end-use sector consumption estimates.

For distillate fuel deliveries in 1979, the end-use categories called "residential," "commercial," "industrial," and "farm" are available. The pre-1979 deliveries categories are called "heating" and "industrial" (which included farm use). While the pre-1979 categories individually are not continuous with the 1979 categories, their subtotals are related. That is, a general comparison can be made between the sum of residential, commercial, industrial, and farm deliveries in 1979 and the sum of heating and industrial deliveries in the pre-1979 years. Therefore, the following method was applied to present a comparable series for distillate fuel delivered to the residential, commercial, and industrial sectors:

- For each of the pre-1979 years, a subtotal was created for each State by adding each State's heating and industrial deliveries categories. A comparable 1979 subtotal was created by adding each State's residential, commercial, industrial, and farm deliveries categories.
- Residential, commercial, and industrial (including farm) shares of the subtotal in 1979 were calculated for each State.
- These 1979 end-use shares were then applied to each pre-1979 subtotal of distillate fuel deliveries in each State to create State estimates of end-use deliveries for 1960 through 1978.

The 1980 through 1982 distillate fuel deliveries data are based on the same survey as that used for 1979; therefore, the 1980 through 1982 data are directly comparable to 1979 data.

In 1984, EIA again updated the list of respondents for this survey, and the Form EIA-172 became the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." The EIA did not conduct a fuel oil and kerosene deliveries survey for 1983. The 1983 estimates in SEDS are based on 1984 data obtained from the Form EIA-821. Statistical procedures and methodologies used for the Form EIA-821 differ from those used in previous years. Therefore, the 1983 and forward sales data may not be directly comparable to the pre-1983 data. (In the source document, the deliveries data for 1983 forward are reported in thousand gallons. These data are first converted to thousand barrels before being entered into SEDS.)

Some of the No. 2 diesel fuel reported as sold to the commercial and industrial sectors, DFCMPZZ and DFINPZZ, on the EIA forms may also be included in the on-highway data, DFONPZZ, obtained from the Federal Highway Administration. Included in the commercial sector is some diesel fuel consumed by government vehicles and school buses, and included in the industrial sector is some diesel fuel consumed by fleets of trucks. Because the specific quantities involved are unknown, SEDS reflects the diesel fuel consumption as reported in the EIA *Petroleum Marketing Monthly* and makes no attempt to adjust the end-use reporting.

4. The fuel oil consumed at electric utilities data for all years and States are actual fuel oil consumption numbers collected from electric utilities on the Energy Information Administration Form EIA-759, "Monthly Power Plant Report" and predecessor forms. Due to changes in fuel oil reporting classifications on the Form EIA-759 over the years, it is not possible to develop a thoroughly consistent series for all years. However, over time, data more accurately dissagregating fuel oil into distillate fuel and residual fuel have become available. For 1960 through 1969, only total fuel oil consumed at electric utilities by State is available. For 1970 through 1979, fuel oil consumed by plant type (internal combustion and gas turbine plants combined and steam plants) by State are available. For 1980 forward, consumption of light oil at all plant types combined and consumption of heavy oil at all plant types combined are available by State. In SEDS, the following assumptions have been made:

   - 1960 through 1969 — State estimates of fuel oil consumption by plant type have been created for each year by applying the shares of steam plants (primarily residual fuel) and internal combustion and gas turbine plants (primarily distillate fuel plus small amounts of jet kerosene) by State in 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
   - 1970 through 1979 — fuel oil consumed by steam plants is assumed to equal residual fuel consumption, and fuel oil consumed by internal combustion and gas turbine plants is assumed to equal distillate fuel plus jet kerosene consumption.
   - 1980 and forward — total heavy oil consumption at all plant types is assumed to equal residual fuel consumption, and total light oil consumption at all plant types is assumed to equal distillate fuel plus jet kerosene consumption.

   The data series thus derived for SEDS for residual fuel and distillate fuel plus jet kerosene consumption at electric utilities is considered to be actual consumption at electric utilities for each State and each year.

Jet Fuel

There are two types of jet fuel with different heat contents, kerosene-type jet fuel (JK) and naphtha-type jet fuel (JN), which are added in the State Energy Data System (SEDS) to give total jet fuel (JF). Jet fuel is used primarily for transportation although, for 1972 through 1982, small amounts of the kerosene-type jet fuel were reported as used in the electric utility sector.

Kerosene-Type Jet Fuel

Physical Units

Data series used to calculate kerosene-type jet fuel consumption estimates are ("ZZ" in the variable name represents the two-letter State code that differs for each State):

JKTCPUS = kerosene-type jet fuel consumed in the United States, in thousand barrels;
JKEUPZZ = the electric utility sector consumption of kerosene-type jet fuel in each State, in thousand barrels; and
JKNMPZZ = kerosene-type jet fuel sold for nonmilitary use in each State, in thousand gallons.

Total U.S. consumption of kerosene-type jet fuel, JKTCPUS, is the product supplied data series in the publication *Petroleum Supply Annual* published by the Energy Information Administration.

Kerosene-type jet fuel consumed by electric utilities, JKEUPZZ, is published by the Energy Information Administration in the *Cost and Quality of Fuels for Electric Utility Plants.* These data are available for 1972 through 1982 only. Consumption in all other years is assumed to be zero. State-level data for 1972 through 1974 are not available. The percentage of each State's consumption of the total U.S. consumption in 1975 was used to apportion the 1972 through 1974 national data to the States.

Kerosene-type jet fuel sold for nonmilitary use, JKNMPZZ, was collected by the Ethyl Corporation, Petroleum Chemicals Division, for 1960 through 1983 and by the Energy Information Administration for 1984 forward.

U.S. totals for the two State series are formed as the sum of the State data:

JKEUPUS = ΣJKEUPZZ
JKNMPUS = ΣJKNMPZZ

Most kerosene-type jet fuel is used by the transportation sector. The transportation sector consumption for the United States (JKACPUS) is estimated as the difference between the total kerosene-type jet fuel consumed and the electric utility consumption:

JKACPUS = JKTCPUS — JKEUPUS

It is assumed that kerosene-type jet fuel is used primarily by commercial aircraft. (See Note 1 at the end of this section for the source reference for this assumption.) Therefore, each State's consumption of kerosene-type jet fuel for transportation purposes is estimated to be in proportion to each State's sales of kerosene-type jet fuel for nonmilitary use:

JKACPZZ = (JKNMPZZ / JKNMPUS) * JKACPUS

Total kerosene-type jet fuel by State is estimated as:

JKTCPZZ = JKACPZZ + JKEUPZZ

British Thermal Units (Btu)

Kerosene-type jet fuel has a heat content value of approximately 5.670 million Btu per barrel. This factor is applied to convert kerosene-type jet fuel from physical units to Btu:

JKACBZZ = JKACPZZ * 5.670
JKACBUS = ΣJKACBZZ
JKEUBZZ = JKEUPZZ * 5.670
JKEUBUS = ΣJKEUBZZ
JKTCBZZ = JKTCPZZ * 5.670
JKTCBUS = ΣJKTCBZZ

Additional Notes on Kerosene-Type Jet Fuel

1. An assumption is made that the kerosene-type jet fuel used for transportation purposes is for nonmilitary use only. This assumption is based on product definitions from the American Petroleum Institute's *Standard Definitions for Petroleum Statistics*, Technical Report No. 1, Third Edition (1981), page 13, which states that kerosene-type jet fuel is used primarily by commercial aircraft engines.

2. Ethyl Corporation jet fuel sales to commercial users by State include some sales data that were improperly allocated between the States of Illinois and Indiana for 1960 through 1973. To adjust for this error, the

average relative proportions of Illinois and Indiana sales from 1974 through 1978 were applied to the sum of the Illinois and Indiana sales in 1960 through 1973. From 1974 through 1983, sales data were correctly allocated.

3. Jet fuel sales in Illinois decreased sharply from 1984 forward, while sales in Indiana increased by about the same amount. It is possible that jet fuel for use at Chicago, Illinois, airports may have been purchased in Indiana. The same anomally may have happened between New York and New Jersey beginning in 1981 where jet fuel for consumption at New York City airports may have been purchased in New Jersey. This is an inherent problem with using sales data as a indication of consumption and no attempt has been made to adjust the numbers.

4. Prior to 1964, kerosene-type jet fuel was included in the total kerosene product supplied data in the source, the U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual:" Table 2, 'Salient Statistics of the Major Refined Petroleum Products in the United States.' Table A2 below summarizes the derivation of kerosene and jet fuel consumption estimates (columns 4 and 5) from data published in the source (columns 1, 2, and 3) for 1960 through 1963. For 1964 and years following, kerosene and kerosene-type jet fuel are reported separately in the source documents.

Naphtha-Type Jet Fuel

Physical Units

Two data series are used to estimate naphtha-type jet fuel consumption:

JNTCPUS = naphtha-type jet fuel total consumed, in thousand barrels; and

JNMIPZZ = naphtha-type jet fuel issued to the military in each State, in thousand barrels.

Total U.S. consumption of naphtha-type jet fuel, JNTCPUS, is the product supplied data series in the publication *Petroleum Supply Annual* published by the Energy Information Administration.

Naphtha-type jet fuel issued to the military in each State, JNMIPZZ, is from the U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. These data are reported by fiscal year and are available for 1977 forward. In SEDS, the 1977 data are used for 1960 through 1976.

The total U.S. military issues is the sum of the State data:

$$\text{JNMIPUS} = \Sigma\text{JNMIPZZ}$$

It is assumed that all naphtha-type jet fuel is used by military aircraft engines. (See the Additional Notes at the end of this section for the source reference for this assumption.) Therefore, an estimate of naphtha-type jet fuel consumption by State, JNTCPZZ, is calculated by assuming that each State consumes

Table A2. Estimate of Kerosene and Jet Fuel U. S. Consumption for 1960 through 1963
(Thousand barrels)

	(1) Kerosene Demand, Including Commercial Jet Fuel	(2) Jet Fuel Demand, Military Use Only	(3) Sales of Kerosene for Commercial Jet Fuel Use	(4) Estimated Kerosene Consumption (1) — (3)	(5) Estimated Total Jet Fuel Consumption (2) + (3)
1960	132,499	102,803	33,159	99,340	135,962
1961	144,435	104,436	47,187	97,248	151,623
1962	164,167	112,401	66,134	98,033	178,535
1963	172,212	115,237	75,236	96,976	190,473

naphtha-type jet fuel in proportion to the amount issued to that State:

JNTCPZZ = (JNMIPZZ / JNMIPUS) * JNTCPUS

All naphtha-type jet fuel is assumed to be used by the military for transportation purposes so the transportation consumption equals the estimated total consumption for each State and for the United States:

JNACPZZ = JNTCPZZ
JNACPUS = JNTCPUS

British Thermal Units (Btu)

Naphtha-type jet fuel has a heat content value of approximately 5.355 million Btu per barrel. This factor is applied to convert naphtha-type jet fuel from physical units to Btu:

JNTCBZZ = JNTCPZZ * 5.355
JNTCBUS = ΣJNTCBZZ
JNACBZZ = JNTCBZZ
JNACBUS = JNTCBUS

Additional Notes on Naphtha-Type Jet Fuel

An assumption was made that the naphtha-type jet fuel is for military use only. This assumption was based on product definitions from the American Petroleum Institute's *Standard Definitions for Petroleum Statistics*, Technical Report No. 1, Third Edition (1981) page 13, which states that naphtha-type jet fuel is used primarily by military aircraft engines.

Jet Fuel Totals

Physical Units

The following calculations are used to provide total jet fuel consumption estimates by end use in physical units:

JFACPZZ = JKACPZZ + JNACPZZ
JFACPUS = ΣJFACPZZ
JFEUPZZ = JKEUPZZ
JFEUPUS = JKEUPUS
JFTCPZZ = JFACPZZ + JFEUPZZ
JFTCPUS = ΣJFTCPZZ

British Thermal Units (Btu)

The following calculations are used to provide total jet fuel consumption estimates by end use in Btu:

JFACBZZ = JKACBZZ + JNACBZZ
JFACBUS = ΣJFACBZZ
JFEUBZZ = JKEUBZZ
JFEUBUS = JKEUBUS
JFTCBZZ = JFACBZZ + JFEUBZZ
JFTCBUS = ΣJFTCBZZ

Kerosene

Physical Units

Since State-level and end-use consumption data for kerosene are not available, four data series published by EIA representing deliveries of kerosene into or within each State are used to estimate kerosene consumption. The fifth data series, the U.S. total consumption, is the product supplied series from the EIA *Petroleum Supply Annual.* The deliveries series are used to apportion the known U.S. total consumption into State-level estimates of end-use consumption. The following variable names have been assigned to the five data series ("ZZ" in the variable names represents the two-letter State code that differs for each State):

KSCMPZZ = kerosene delivered to the commercial sector for heating, in thousand barrels;
KSIHPZZ = kerosene delivered to the industrial sector for heating, in thousand barrels;
KSOTPZZ = kerosene delivered for all other uses, including farm use, in thousand barrels;
KSRSPZZ = kerosene delivered to the residential sector for heating, in thousand barrels; and
KSTCPUS = kerosene total consumed in the United States, in thousand barrels.

U.S. deliveries totals are created by summing the State values:

KSCMPUS = ΣKSCMPZZ
KSIHPUS = ΣKSIHPZZ
KSOTPUS = ΣKSOTPZZ
KSRSPUS = ΣKSRSPZZ

The variables are combined as closely as possible into the major end-use sectors used in SEDS. The residential and commercial sectors contain only KSRSPZZ and KSCMPZZ, respectively.

The deliveries of kerosene to the industrial sector, KSINPZZ, for each State is the sum of kerosene delivered for industrial space heating (KSIHPZZ) and kerosene delivered for all other uses (KSOTPZZ), including farm use. Deliveries of kerosene to the industrial sector are calculated:

KSINPZZ = KSOTPZZ + KSIHPZZ
KSINPUS = ΣKSINPZZ

Total deliveries of kerosene in each State is the sum of these three sectors' deliveries:

KSTTPZZ = KSRSPZZ + KSCMPZZ + KSINPZZ
KSTTPUS = ΣKSTTPZZ

An estimate of each State's total consumption of kerosene is made by disaggregating the U.S. total to the States in proportion to each State's total deliveries share of the U.S. total deliveries:

KSTCPZZ = (KSTTPZZ / KSTTPUS) * KSTCPUS

Each State's residential sector deliveries percentage of total deliveries is applied to the State's estimated total consumption to create estimated residential sector consumption for the State, KSRCPZZ:

KSRCPZZ = (KSRSPZZ / KSTTPZZ) * KSTCPZZ

The commercial sector's estimated consumption in each State, KSCCPZZ, is calculated:

KSCCPZZ = (KSCMPZZ / KSTTPZZ) * KSTCPZZ

The industrial sector's estimated consumption in each State, KSICPZZ, is calculated:

KSICPZZ = (KSINPZZ / KSTTPZZ) * KSTCPZZ

U.S. totals for the three sectors' consumption estimates are the sums of the States' estimated consumption:

KSRCPUS = ΣKSRCPZZ
KSCCPUS = ΣKSCCPZZ
KSICPUS = ΣKSICPZZ

British Thermal Units (Btu)

Kerosene has a heat content value of approximately 5.670 million Btu per barrel. This factor is applied to convert kerosene estimated consumption from physical units to Btu:

KSRCBZZ = KSRCPZZ * 5.670
KSCCBZZ = KSCCPZZ * 5.670
KSICBZZ = KSICPZZ * 5.670
KSTCBZZ = KSRCBZZ + KSCCBZZ + KSICBZZ

The U.S. Btu consumption estimates are calculated:

KSRCBUS = ΣKSRCBZZ
KSCCBUS = ΣKSCCBZZ
KSICBUS = ΣKSICBZZ
KSTCBUS = ΣKSTCBZZ

Additional Notes on Kerosene

1. See Note 4 at the end of the "Kerosene-Type Jet Fuel" section of this petroleum documentation for comments concerning the inclusion of kerosene-type jet fuel with the kerosene total product supplied prior to 1964 in the source documents.

2. "Deliveries" data are actually called "shipments" in the source documents for 1960 and 1961; "consumption" for 1962 through 1966; "shipments" for 1967; "sales" from 1968 through 1978; "deliveries" for 1979 through 1988; and "adjusted sales" for 1989.

3. In 1979, the Energy Information Administration (EIA) implemented a new survey form, EIA-172, to obtain deliveries of fuel oil and kerosene data and updated the list of respondents. (A detailed explanation is published in the *Energy Data Report* "Deliveries of Fuel Oil and Kerosene in 1979.") In the new survey form, certain end-use categories were redefined—in many cases to collect more disaggregated data. The reclassifications resulted in some end-use categories that were no longer comparable with those in previous surveys. Where discontinuities occurred, estimates for the pre-1979 years have been made in SEDS to conform with the 1979 fuel oil deliveries classifications. The pre-1979 deliveries estimates are not published in this report, but are used in SEDS to disaggregate the known U.S. total product supplied (consumption) into State and major end-use sector consumption estimates.

For kerosene fuel deliveries in 1979, the end-use categories called "residential," "commercial," and "industrial" are available. The pre-1979 delivery category called "heating" is related to the sum of "residential," "commercial," and "industrial" in 1979. Therefore, the following method was applied to present a comparable series for kerosene delivered to the residential, commercial, and industrial sectors:

- A 1979 subtotal for heating was created by summing each State's residential, commercial, and industrial deliveries categories, thereby creating a comparable deliveries subtotal for all years.
- Residential, commercial, and industrial shares of the heating subtotal in 1979 were calculated for each State.
- These 1979 end-use shares were then applied to each pre-1979 heating subtotal in each State to create State estimates of end-use deliveries for 1960 through 1978.

The 1980 through 1982 kerosene deliveries data are based on the same survey as that used for 1979; therefore, the 1980 through 1982 data are directly comparable to 1979 data.

In 1984, EIA again updated the list of respondents for this survey, and the Form EIA-172 became the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." The EIA did not conduct a fuel oil and kerosene deliveries survey for 1983. The 1983 estimates in SEDS are based on 1984 data obtained from the Form EIA-821. Statistical procedures and methodologies used for the Form EIA-821 differ from those used in previous years. Therefore, the 1983 and forward sales data may not be directly comparable to the pre-1983 data. (In the source document, the deliveries data for 1983 forward are reported in thousand gallons. These data were first converted to thousand barrels before being entered into SEDS.)

4. In 1975 through 1977, the industrial sector consumption of kerosene includes small quantities of kerosene-type jet fuel that were produced as jet fuel and sold as kerosene.

Liquefied Petroleum Gases

Liquefied petroleum gases (LPG) in SEDS include: ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane.

Physical Units

The following data series used in SEDS to estimate LPG consumption represent sales or estimated sales by State in thousand gallons. Sources for these variables are given in Appendix C.

LGCBMZZ = LPG sold for internal combustion engine fuel use. Included are sales for use in all kinds of highway vehicles, forklifts, industrial tractors, and for use in oil field drilling and production uses;

LGHCMZZ = LPG sold for residential and commercial use. Included are sales for nonfarm private households for space heating, cooking, water heating, and other household uses such as clothes drying and incineration. Also included are sales to nonmanufacturing organizations, such as motels, restaurants, retail stores, laundries, and other service enterprises, primarily for use in space heating, water heating, and cooking; and

LGTTPZZ = LPG total sales for all uses.

Total U.S. consumption of LPG is the product supplied data series in the publication *Petroleum Supply Annual* published by the Energy Information Administration:

LGTCPUS = LPG total consumed in the United States, in thousand barrels.

Another variable is used in SEDS to estimate LPG consumption by the transportation sector. It is described in detail in Note 1 at the end of this LPG section:

LGTRSUS = the transportation sector share of LPG internal combustion engine sales.

Since the LPG sales data are in gallons, they must be converted to barrels (42 U.S. gallons per U.S. barrel) to be comparable to total consumption estimates. The formulas for calculating State sales data are:

LGCBPZZ = LGCBMZZ / 42
LGHCPZZ = LGHCMZZ / 42

The U.S. totals of the LPG sales State data are calculated:

LGCBPUS = ΣLGCBPZZ
LGHCPUS = ΣLGHCPZZ
LGTTPUS = ΣLGTTPZZ
LGCBMUS = ΣLGCBMZZ
LGHCMUS = ΣLGHCMZZ

An assumption is made that 85 percent of the LPG sold for residential and commercial use (LGHCPZZ) is sold to the residential sector (LGRCPZZ), and 15 percent is sold to the commercial sector (LGCCPZZ) for all States and years. (See Note 2 at the end of this LPG section for the source reference for this assumption.) It is also assumed that LPG sales to the residential and commercial sectors are equal to the consumption in those sectors. The formulas used are:

LGRCPZZ = LGHCPZZ * 0.85
LGCCPZZ = LGHCPZZ * 0.15

The LPG consumption by the transportation sector is estimated to be the transportation share of the sales for internal combustion engine fuel:

LGACPZZ = LGCBPZZ * LGTRSUS

An estimate of each State's total LPG consumption (LGTCPZZ) is made by allocating the U.S. total consumption to the States in proportion to each State's sales share of the U.S. total sales:

LGTCPZZ = (LGTTPZZ / LGTTPUS) * LGTCPUS

The industrial (LGICPZZ) sector consumption of each State is the difference between the State's total LPG consumption and the sum of its residential, commercial, and transportation sectors consumption:

LGICPZZ = LGTCPZZ — (LGRCPZZ + LGCCPZZ + LGACPZZ)

U.S. totals for the end-use sector estimates are the sums of the State estimates:

LGRCPUS = ΣLGRCPZZ
LGCCPUS = ΣLGCCPZZ
LGACPUS = ΣLGACPZZ
LGICPUS = ΣLGICPZZ

British Thermal Units (Btu)

The factor for converting LPG from physical unit values to British thermal units, LGTCKUS, is calculated annually for 1967 forward by EIA as a weighted average by multiplying the quantity consumed of each of the component products (ethane, propane, butane, butane-propane, ethane-propane, and isobutane) by each product's conversion factor (listed in Appendix D, Thermal Conversion Factor Source Documentation) and dividing the sum of those heat contents by the sum of the quantities consumed. The consumption of each product is from the product supplied data series in the *Energy Data Report* "Petroleum Statement, Annual" (1967 through 1980) and the *Petroleum Supply Annual* (1981 forward) published by the EIA. For 1960 through 1966, EIA adopted the Bureau of Mines thermal conversion factor of 4.011 million Btu per barrel as published in the *Mineral Industry Surveys,* "Crude Petroleum and Petroleum Products, 1956," Table 4 footnote.

This factor is used to estimate consumption in Btu for all States and end uses:

LGRCBZZ = LGRCPZZ * LGTCKUS
LGCCBZZ = LGCCPZZ * LGTCKUS
LGICBZZ = LGICPZZ * LGTCKUS
LGACBZZ = LGACPZZ * LGTCKUS

Total estimated consumption of LPG in Btu is the sum of the end-use consumption estimates:

LGTCBZZ = LGRCBZZ + LGCCBZZ + LGICBZZ + LGACBZZ

The U.S. Btu consumption estimates are calculated:

LGRCBUS = ΣLGRCBZZ
LGCCBUS = ΣLGCCBZZ
LGICBUS = ΣLGICBZZ
LGACBUS = ΣLGACBZZ
LGTCBUS = ΣLGTCBZZ

Additional Notes on Liquefied Petroleum Gases

1. The sales of LPG for internal combustion engine fuel use are divided between the transportation sector and the industrial sector using LGTRSUS, the transportation sector's share of internal combustion engine use. LGTRSUS is estimated from data on "special fuels used on highways," a category which includes only LPG and diesel fuel. The special fuels data are published by the U.S. Department of Transportation, Federal Highway Administration. The quantity of LPG included in special fuels is estimated each year (the LPG portion ranges from 8.4

percent in 1960 to 1.2 percent in 1989). LGTRSUS is then derived by dividing the quantity of LPG included in special fuels used on highways by the quantity of LPG sold for internal combustion engine use. This U.S. factor is applied to each of the States. LGTRSUS values are shown in the following table:

Year	LGTRSUS	Year	LGTRSUS	Year	LGTRSUS
1960	0.229	1970	0.363	1980	0.380
1961	0.258	1971	0.423	1981	0.671
1962	0.266	1972	0.392	1982	0.579
1963	0.273	1973	0.384	1983	0.578
1964	0.259	1974	0.381	1984	0.492
1965	0.290	1975	0.406	1985	0.343
1966	0.325	1976	0.440	1986	0.364
1967	0.368	1977	0.478	1987	0.329
1968	0.389	1978	0.594	1988	0.357
1969	0.341	1979	0.536	1989	0.360

2. Little information exists for allocating the residential and commercial use of LPG to the individual sectors. SEDS applies an 85 percent residential and 15 percent commercial split for all States and years based on figures published in the Federal Energy Administration Project Independence Blueprint Task Force Report, "Residential and Commercial Energy Use Patterns, 1970 - 1990," November 1974, Table 1.A.1.

3. Sales data for Maryland and the District of Columbia are combined in the source documents. Sales data are published in six categories. The following percentages are applied to the combined State data for all years:

	Maryland	D.C.
• Residential and commercial	99.9%	0.1%
• Internal combustion engine fuel	98.9	1.1
• Industrial	99.4	0.6
• Chemical	100.0	0.0
• Utility gas	100.0	0.0
• Miscellaneous	100.0	0.0

4. LPG sales data by State and end-use categories for 1960 through 1982 are from the EIA's "Sales of Liquefied Petroleum Gases and Ethane." In 1979, the EIA modified the LPG sales survey, Form EIA-174, and changed the list of respondents. Because of the updated sampling frame, the 1979 through 1982 sales data may not be directly comparable to the pre-1979 sales when a different estimation procedure was used. Explanation of the discontinuities caused by the change in the 1979 sampling frame are provided in EIA's *Energy Data Report,* "Sales of Liquefied Petroleum Gases and Ethane in 1979."

Because of the change in survey techniques used for measuring LPG sales, many States' data were withheld from publication in the 1979 through 1982 LPG sales reports to avoid disclosure of company-level data. The consumption estimates in SEDS use all data published in the 1979 through 1982 LPG sales reports and estimates prepared by EIA's Office of Oil and Gas for data that were withheld from publication. (See Note 5 below for estimation procedures.)

Some end-use categories changed in 1979 due to redefinition of the classifications. One of these changes, for example, occurred with LPG sold to farms for household heating and cooking. Prior to 1979 these sales were reported as part of the residential and commercial category, while in 1979 they were counted in the farm use category that goes into the industrial sector in SEDS. No attempt has been made to adjust for this type of inconsistency.

The Form EIA-174 was cancelled after collection of 1982 data. The 1983 LPG consumption estimates are based on the assumption that LPG end-use sector demand in 1983 occurred in the same proportion as 1982 sector demand within each State; i.e., the 1983 LPG product supplied figure was allocated to the States using the distribution of volumes consumed for 1982.

5. The following procedures were used to estimate the State end-use sales that were withheld from publication in the 1979-1982 LPG sales reports:

   - For each year, missing State total sales were estimated by allocating the sum of the missing State sales within each Petroleum Administration for Defense District (PADD) to the individual States, in proportion to the sum of the known end-use sales for those States.

   - Missing PADD end-use totals for 1979 and 1980 were obtained by using the 1980 and 1981 sales reports. Missing PADD chemical sales were estimated by allocating the total missing volume of chemical sales to the PADD in proportion to the number of chemical plants in each PADD. The remaining PADD end-use totals were obtained by subtraction. For 1981 and 1982, no PADD estimations were necessary as all PADD end-use totals are known.

- The published data and the estimated State and PADD end-use totals were used to estimate missing State end-use sales volumes within a PADD: missing State end-use sector values were estimated by allocating the missing volume for the State approximately proportional to the PADD end-use sector totals.

6. Prior to 1979, State data for chemical use of LPG were withheld from publication, although they were included in the U.S. total in the tables in in EIA's "Sales of Liquefied Petroleum Gases and Ethane" reports. Beginning in 1979, State-level chemical use data were published in the LPG sales reports, but data for several States are withheld. Estimates for the withheld data for chemical use sales for 1979 and 1980 were created using the estimation procedure described in Note 5 above. Then the published and the estimated State data for 1979 were used to create State shares of the total U.S. chemical use sales. These percentage shares (shown in Table A3) were applied to the total U.S. LPG chemical use sales in 1960 through 1978 to create State chemical use estimates. The chemical use estimates were added to the States' total LPG sales series, LGTTPZZ.

7. Beginning in 1984, the American Petroleum Institute (API), the Gas Processors Association, and the National LP-Gas Association jointly sponsored an LPG sales survey. The results are published in the API's report, *Sales of Natural Gas Liquids and Liquefied Refinery Gases.* These data include sales of pentanes plus; the pentanes plus data were removed prior to use in SEDS.

   The API report publishes total LPG sales for Alaska and Hawaii, but disaggregated data for those States are withheld. EIA estimates the withheld data for the "Residential and Commercial" and the "Internal Combustion Fuel" columns as follows:

   - Alaska and Hawaii are the only States of the seven States in PADD V for which data are withheld. Therefore, subtracting the available data for the other five States from the PADD V total gives the withheld data for Alaska and Hawaii combined.

   - The withheld data are assigned to Alaska and Hawaii in proportion to each State's share of their combined published total sales.

Table A3. State Shares of the Total U.S. LPG Sold for Chemical Use

State	Percent	State	Percent
Alabama	0	Montana	0
Alaska	0.589	Nebraska	0
Arizona	0	Nevada	0
Arkansas	0	New Hampshire	0
California	2.667	New Jersey	2.040
Colorado	0.232	New Mexico	0.603
Connecticut	0.053	New York	0
Delaware	0.811	North Carolina	0.327
District of Columbia	0	North Dakota	0
Florida	0	Ohio	1.103
Georgia	0.699	Oklahoma	0.309
Hawaii	0	Oregon	0
Idaho	0	Pennsylvania	0.354
Illinois	7.066	Rhode Island	0
Indiana	0.243	South Carolina	0.021
Iowa	0.900	South Dakota	0
Kansas	0.451	Tennessee	0
Kentucky	2.548	Texas	57.425
Louisiana	20.566	Utah	0
Maine	0.012	Vermont	0
Maryland	0.050	Virginia	0.025
Massachusetts	0.009	Washington	0
Michigan	0.151	West Virginia	0.286
Minnesota	0	Wisconsin	0
Mississippi	0.315	Wyoming	0.091
Missouri	0.054	United States	100.000

Lubricants

Physical Units

Three data series are used to estimate State consumption of lubricants. The two State-level sales data series are used to apportion the U.S. total consumption data to the States and the end-use sectors within the States. "ZZ" in the variable names represent the two-letter State codes that differ for each State:

LUINPZZ = lubricants sold to the industrial sector, in thousand barrels;
LUTRPZZ = lubricants sold to the transportation sector, in thousand barrels; and
LUTCPUS = lubricants total consumed in the United States, in thousand barrels.

Data for the first two variables are developed from the Bureau of the Census reports called "Sales of Lubricating and Industrial Oils and Greases" in the series called *Current Industrial Reports*. These series were discontinued in 1977 and the method of estimation for 1978 forward is explained in Note 1 at the end of this "Lubricants" section. The third variable for lubricants is the product supplied data series in the publication *Petroleum Supply Annual* published by the Energy Information Administration. The first two variables are used for apportioning the third into State total consumption and State end-use consumption estimates using the following calculations.

Total sales of lubricants for each State, LUTTPZZ, is created by adding the industrial and transportation sales:

LUTTPZZ = LUINPZZ + LUTRPZZ

U.S. sales totals are calculated by summing the State sales:

LUINPUS = ΣLUINPZZ
LUTRPUS = ΣLUTRPZZ
LUTTPUS = ΣLUTTPZZ

Each State's proportion of total U.S. sales is used to calculate each State's estimated consumption of lubricants:

LUTCPZZ = (LUTTPZZ / LUTTPUS) * LUTCPUS

Each State's estimated total consumption of lubricants is further divided into end-use estimates in proportion to that State's sales by sector as a portion of total sales in the State. Lubricants consumed by State for industrial use, LUICPZZ, and for transportation use, LUACPZZ, are calculated:

LUICPZZ = (LUINPZZ / LUTTPZZ) * LUTCPZZ
LUACPZZ = (LUTRPZZ / LUTTPZZ) * LUTCPZZ

The consumption of lubricants in the United States by these two end-use sectors is created by summing the State estimates:

LUICPUS = ΣLUICPZZ
LUACPUS = ΣLUACPZZ

British Thermal Units (Btu)

Lubricants have a heat content value of approximately 6.065 million Btu per barrel. This factor is applied to convert lubricants estimated consumption from physical units to Btu:

LUICBZZ = LUICPZZ * 6.065
LUACBZZ = LUACPZZ * 6.065

The State total consumption in Btu is the sum of the two sectors' consumption in Btu:

LUTCBZZ = LUICBZZ + LUACBZZ

The U.S. sector and total consumption estimates in Btu are calculated:

LUICBUS = ΣLUICBZZ
LUACBUS = ΣLUACBZZ
LUTCBUS = ΣLUTCBZZ

Additional Notes on Lubricants

1. The lubricants sales data (LUINPZZ and LUTRPZZ) were published approximately every other year by the Bureau of the Census until the discontinuation of the series after 1977. Each year's sales data have been used to calculate that year's and at least one other year's consumption estimates. The following list specifies which years of consumption estimates depend on which years of the sales data.

Year of Sales Data	Year of Consumption Estimates
1960	1960 and 1961
1962	1962, 1963, and 1964
1965	1965 and 1966
1967	1967 and 1968
1969	1969 and 1970
1971	1971 and 1972
1973	1973 and 1974
1975	1975 and 1976
1977	1977 forward

2. The sales data from the source document for LUINPZZ and LUTRPZZ are available in incompatible units. The industrial series, LUINPZZ, is oils and greases sold for industrial lubricating and other uses measured in thousand gallons. The transportation series, LUTRPZZ, is oils and greases sold for automotive and aviation uses measured in thousand pounds. Prior to use in SEDS, these are converted to thousand barrels by dividing the oil data by 42 gallons per barrel and dividing the greases data by 300 pounds per barrel. In the source document, some State data are not published to avoid disclosing figures for individual companies. The undisclosed data were entered as zero in SEDS.

Motor Gasoline

Physical Units

Nine data series are used to estimate the State end-use consumption of motor gasoline. Eight of the series are from the U.S. Department of Transportation, Federal Highway Administration publication, *Highway Statistics*, and represent sales of motor gasoline. The sales data are categorized as sales for highway and nonhighway use:

Highway Use sales data (MGMFP) are from the *Highway Statistics* Table MF-21; however, they are reduced by the amount of highway "special fuels" (MGSFP) used in each State each year as reported on Table MF-25. Special fuels are primarily diesel fuels, not motor gasoline, and are included in the transportation sector of distillate fuel.

Nonhighway Use sales are further subdivided into sales for: (1) public use by States, counties, and municipalities (MGPNP) from Table MF-21, and (2) private and commercial use as reported on MF-24. The private and commercial nonhighway use of motor gasoline has the following components: agricultural use (MGAGP), industrial and commercial use (MGIYP), construction use (MGCUP), marine use (MGMRP), and miscellaneous and unclassified uses (MGMSP). Another component of the private and commercial nonhighway series is aviation gasoline (AVNMM), which is discussed under the "Aviation Gasoline" section of this documentation.

The ninth motor gasoline data series (MGTCPUS) is the total U.S. consumption of motor gasoline published in the product supplied series in the EIA publication, *Petroleum Supply Annual.*

The nine motor gasoline data series are ("ZZ" in the variable names represent the two-letter State code that differs for each State):

MGAGPZZ = motor gasoline sold for agricultural use in each State, in thousand gallons;
MGCUPZZ = motor gasoline sold for construction use in each State, in thousand gallons;
MGIYPZZ = motor gasoline sold for industrial and commercial use in each State, in thousand gallons;
MGMFPZZ = motor fuel sold for highway use in each State, in thousand gallons;
MGMRPZZ = motor gasoline sold for marine use in each State, in thousand gallons;
MGMSPZZ = motor gasoline sold for miscellaneous and unclassified uses in each State, in thousand gallons;
MGPNPZZ = motor fuel sold for public nonhighway use in each State, in thousand gallons;
MGSFPZZ = special fuels (primarily diesel fuel with small amounts of liquefied petroleum gases) sold in each State, in thousand gallons; and
MGTCPUS = motor gasoline total consumed in the United States, in thousand barrels.

U.S. totals for the eight State series named above are formed as the sum of the State data:

MGAGPUS	= ΣMGAGPZZ	MGMRPUS	= ΣMGMRPZZ
MGCUPUS	= ΣMGCUPZZ	MGMSPUS	= ΣMGMSPZZ
MGIYPUS	= ΣMGIYPZZ	MGPNPUS	= ΣMGPNPZZ
MGMFPUS	= ΣMGMFPZZ	MGSFPUS	= ΣMGSFPZZ

The transportation sector accounts for most of the motor gasoline sales. Sales to the transportation sector is estimated to be the sum of motor fuel sales for marine use and for highway use (minus the sales of special fuels, which are primarily diesel fuels and are accounted for in the transportation sector of distillate fuel). Sales of motor gasoline to the transportation sector in each State (MGTRPZZ) is calculated:

MGTRPZZ = MGMFPZZ + MGMRPZZ — MGSFPZZ

Two sales data series are added to estimate motor gasoline sales to the commercial sector: miscellaneous (including unclassified) and public nonhighway sales. Sales of motor gasoline to the commercial sector in each State (MGCMPZZ) is calculated:

MGCMPZZ = MGMSPZZ + MGPNPZZ

Sales of motor gasoline for use in the industrial sector in each State (MGINPZZ) is calculated as the sum of the sales for agricultural use, for construction use, and for industrial and commercial use:

MGINPZZ = MGAGPZZ + MGCUPZZ + MGIYPZZ

Total sales of motor gasoline in each State (MGTTPZZ) is calculated as the sum of the sales to the major sectors:

MGTTPZZ = MGCMPZZ + MGINPZZ + MGTRPZZ

U.S. totals for major end-use sales and for total sales are calculated as the sum of the States' sales:

MGCMPUS = ΣMGCMPZZ MGTRPUS = ΣMGTRPZZ
MGINPUS = ΣMGINPZZ MGTTPUS = ΣMGTTPZZ

The motor gasoline sales data for the major end-use sectors in each State are used to apportion the U.S. total consumption of motor gasoline to the States and to the major end-use sectors within each State.

The estimated consumption of motor gasoline in each State is calculated according to each State's share of the total sales. Estimated consumption of motor gasoline in each State (MGTCPZZ) is calculated:

MGTCPZZ = (MGTTPZZ / MGTTPUS) * MGTCPUS

The commercial sector estimated consumption of motor gasoline (MGCCPZZ) is calculated:

MGCCPZZ = (MGCMPZZ / MGTTPZZ) * MGTCPZZ

The industrial sector estimated consumption (MGICPZZ) is calculated:

MGICPZZ = (MGINPZZ / MGTTPZZ) * MGTCPZZ

The transportation sector estimated consumption (MGACPZZ) is calculated:

MGACPZZ = (MGTRPZZ / MGTTPZZ) * MGTCPZZ

The consumption of motor gasoline by major end-use sector in the United States is estimated by summing the States' estimated consumption:

MGCCPUS = ΣMGCCPZZ
MGICPUS = ΣMGICPZZ
MGACPUS = ΣMGACPZZ

British Thermal Units (Btu)

Motor gasoline has a heat content value of approximately 5.253 million Btu per barrel. This factor is applied to convert motor gasoline estimated consumption from physical units to Btu:

MGCCBZZ = MGCCPZZ * 5.253
MGICBZZ = MGICPZZ * 5.253
MGACBZZ = MGACPZZ * 5.253
MGTCBZZ = MGCCBZZ + MGICBZZ + MGACBZZ

The U.S. level Btu consumption estimates are calculated:

MGCCBUS = ΣMGCCBZZ MGACBUS = ΣMGACBZZ
MGICBUS = ΣMGICBZZ MGTCBUS = ΣMGTCBZZ

Petroleum Coke

Physical Units

Five data series are used to estimate the consumption of petroleum coke. Three are measures of petroleum coke consumption and two are indicators of industrial activity used to apportion U.S. consumption to the States. "ZZ" in the variable name represents the two-letter State code that differs for each State:

PCTCPUS = petroleum coke total consumed in the United States (utility and non-electric utility sectors), in thousand barrels;

PCEUMZZ = petroleum coke consumed by electric utilities in each State, in thousand short tons;

PCCTPUS = petroleum coke used at refineries as both catalytic and marketable coke in the United States, in thousand barrels;
CTCAPZZ = catalytic cracking charge capacity of petroleum refineries in each State, in barrels per calendar day (1960 through 1979) and barrels per stream day (1980 forward); and
AICAPZZ = aluminum ingot production capacity in each State, in short tons.

The total consumption of petroleum coke in the United States (PCTCPUS) is the product supplied series from the EIA, *Petroleum Supply Annual.*

Petroleum coke consumed at electric utilities, PCEUMZZ, is available from 1970 forward from the Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report," and predecessor forms. Prior to 1970, no data are available for this series and zero is used. These data are in thousand short tons and are converted into thousand barrels in SEDS by applying a conversion factor of 5 barrels per short ton:

PCEUPZZ = PCEUMZZ * 5

The source for petroleum coke used at refineries, PCCTPUS, is the EIA series of reports entitled "Petroleum Statement, Annual" and predecessor reports. For 1960 through 1980, the data are provided in thousand short tons. For consistency with later years' data, the 1960 through 1980 data were first converted into thousand barrels before being used in SEDS.

The data for petroleum coke consumed by electric utilities are available by State. Other petroleum coke consumption data are available only on a U.S. level and are accredited to the industrial sector in SEDS, either as petroleum coke used as catalyst coke at refineries in a process for increasing the yield of gasoline from crude oil (catalytic cracking) or as petroleum coke used for all other industrial uses (mainly converted into electrodes that are consumed in the production of aluminum). The industrial petroleum coke consumption series are apportioned to the States by using the data series that indicate the size of the refining industry and aluminum production industry in each State. The capacity of refineries' catalytic cracking equipment (CTCAPZZ) and the aluminum ingot production capacity (AICAPZZ) are not measured in thousand barrels, but since these data series are used only to apportion U.S. industrial consumption of petroleum coke to the States, they do not need to be converted into thousand barrels.

The U.S. totals for the State-level data series are calculated:

PCEUMUS = ΣPCEUMZZ CTCAPUS = ΣCTCAPZZ
PCEUPUS = ΣPCEUPZZ AICAPUS = ΣAICAPZZ

To estimate industrial consumption of petroleum coke, electric utility consumption is subtracted from the total U.S. petroleum coke product supplied:

PCICPUS = PCTCPUS — PCEUPUS

The petroleum coke used at refineries in the United States as catalytic coke is subtracted from the U.S. industrial sector consumption to derive consumption of petroleum coke by all other industrial users:

PCOCPUS = PCICPUS — PCCTPUS

State-level estimates of the catalytic coke portion of the industrial sector are calculated by assuming that each State consumes catalytic coke in proportion to the catalytic cracking charge capacity of the refineries in the State:

PCCTPZZ = (CTCAPZZ / CTCAPUS) * PCCTPUS

State-level estimates of the petroleum coke consumed by the other industrial users are assumed to be in proportion to each State's aluminum ingot production capacity:

PCOCPZZ = (AICAPZZ / AICAPUS) * PCOCPUS

The State totals for the industrial sector use of petroleum coke are added:

PCICPZZ = PCCTPZZ + PCOCPZZ

Total petroleum coke consumption by State is industrial use plus electric utility use:

PCTCPZZ = PCICPZZ + PCEUPZZ

British Thermal Units (Btu)

Petroleum coke has a heat content value of approximately 6.024 million Btu per barrel. This factor is applied to convert petroleum coke estimated consumption from physical units to Btu by State and at the U.S. level:

PCICBZZ = PCICPZZ * 6.024
PCICBUS = ΣPCICBZZ
PCEUBZZ = PCEUPZZ * 6.024
PCEUBUS = ΣPCEUBZZ
PCTCBZZ = PCICBZZ + PCEUBZZ
PCTCBUS = ΣPCTCBZZ

Residual Fuel

Physical Units

Since State-level end-use consumption data for residual fuel (with the exception of electric utilities data) are not available, deliveries of residual fuel into or within each State, in thousand barrels, published by EIA are used to estimate residual fuel consumption. "ZZ" in the following variable names represent the two-letter State code that differs for each State:

RFBKPZZ = residual fuel delivered for vessel bunkering use (i.e., the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies, and fueling for other marine purposes), excluding deliveries to the Armed Forces;

RFCMPZZ = residual fuel delivered to the commercial sector for heating;

RFIBPZZ = residual fuel delivered to industrial establishments for space heating and for other industrial use (i.e., for all uses to mines, smelters, plants engaged in producing manufactured products, in processing goods, and in assembling);

RFMIPZZ = residual fuel delivered to the Armed Forces, regardless of use;

RFMSPZZ = residual fuel delivered for all other uses not identified in other deliveries categories;

RFOCPZZ = residual fuel delivered for oil company use, including all fuel oil, crude oil, or acid sludge used as fuel at refineries, by pipelines, or in field operations; and

RFRRPZZ = residual fuel delivered to the railroads for use in fueling trains, operating railroad equipment, space heating of buildings, and other operations.

Two other data series that represent consumption of residual fuel are:

RFEUPZZ = residual fuel consumed by electric utilities in each State, in thousand barrels.

RFTCPUS = residual fuel total supplied in the United States, in thousand barrels.

Residual fuel oil consumed by electric utilities, RFEUPZZ, is collected by EIA on Form EIA-759, "Monthly Power Plant Report" and predecessor forms. (See Note 3 at the end of this residual fuel section for further information on changes in this series' data definitions.)

Total U.S. consumption of residual fuel, RFTCPUS, is the product supplied series in the publication *Petroleum Supply Annual* published by the Energy Information Administration.

To begin calculating residual fuel State and end-use consumption estimates, all State-level data series are summed to provide totals for the United States:

$$\text{RFBKPUS} = \Sigma\text{RFBKPZZ} \qquad \text{RFMIPUS} = \Sigma\text{RFMIPZZ}$$
$$\text{RFCMPUS} = \Sigma\text{RFCMPZZ} \qquad \text{RFMSPUS} = \Sigma\text{RFMSPZZ}$$
$$\text{RFEUPUS} = \Sigma\text{RFEUPZZ} \qquad \text{RFOCPUS} = \Sigma\text{RFOCPZZ}$$
$$\text{RFIBPUS} = \Sigma\text{RFIBPZZ} \qquad \text{RFRRPUS} = \Sigma\text{RFRRPZZ}$$

Then the data series are combined as closely as possible into the major end-use sectors used in SEDS. No residual fuel is delivered to the residential sector. Residual fuel deliveries to the commercial sector is the RFCMPZZ series.

The deliveries of residual fuel to the industrial sector in each State, RFINPZZ, is the sum of the residual fuel delivered for industrial use, including industrial space heating (RFIBPZZ), for oil company use (RFOCPZZ), and for all other uses (RFMSPZZ):

$$\text{RFINPZZ} = \text{RFIBPZZ} + \text{RFOCPZZ} + \text{RFMSPZZ}$$
$$\text{RFINPUS} = \Sigma\text{RFINPZZ}$$

The deliveries of residual fuel to the transportation sector in each state, RFTRPZZ, is the sum of the residual fuel deliveries series for vessel bunkering (RFBKPZZ), military use (RFMIPZZ), and railroad use (RFRRPZZ):

$$\text{RFTRPZZ} = \text{RFBKPZZ} + \text{RFMIPZZ} + \text{RFRRPZZ}$$
$$\text{RFTRPUS} = \Sigma\text{RFTRPZZ}$$

Deliveries of residual fuel oil to the commercial, industrial, and transportation sectors are added to create a non-electric utilities deliveries total (RFNDPZZ). The formulas for calculating the non-electric utilities deliveries totals are:

$$\text{RFNDPZZ} = \text{RFCMPZZ} + \text{RFINPZZ} + \text{RFTRPZZ}$$
$$\text{RFNDPUS} = \Sigma\text{RFNDPZZ}$$

The estimated total non-electric utilities residual fuel consumption for the United States (RFNCPUS) is calculated by subtracting the total residual fuel consumption at electric utilities from the total U.S. residual fuel consumption:

RFNCPUS = RFTCPUS — RFEUPUS

The total non-electric utilities deliveries are used to derive the estimated total non-electric utilities consumption for each State (RFNCPZZ). This is done by assuming that each State consumes residual fuel in proportion to the amount delivered to that State:

RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS

Total State residual fuel consumption is the sum of the non-electric utilities consumption and the electric utilities consumption:

RFTCPZZ = RFNCPZZ + RFEUPZZ

Each State's estimated non-electric utilities consumption of residual fuel is further divided into end-use estimates in proportion to each sector's deliveries as a portion of the non-electric utilities deliveries. The estimated commercial sector consumption in each State, RFCCPZZ, is calculated:

RFCCPZZ = (RFCMPZZ / RFNDPZZ) * RFNCPZZ

The industrial sector's estimated consumption in each State, RFICPZZ, is calculated:

RFICPZZ = (RFINPZZ / RFNDPZZ) * RFNCPZZ

The transportation sector's estimated consumption in each State, RFACPZZ, is calculated:

RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ

The consumption of residual fuel in the United States by major end-use sector is estimated by adding the States' estimated consumption:

RFCCPUS = ΣRFCCPZZ
RFICPUS = ΣRFICPZZ
RFACPUS = ΣRFACPZZ

British Thermal Units (Btu)

Residual fuel has a heat content value of approximately 6.287 million Btu per barrel. This factor is applied to convert residual fuel estimated consumption from physical units to Btu:

RFCCBZZ = RFCCPZZ * 6.287
RFICBZZ = RFICPZZ * 6.287
RFACBZZ = RFACPZZ * 6.287
RFEUBZZ = RFEUPZZ * 6.287
RFTCBZZ = RFCCBZZ + RFICBZZ + RFACBZZ + RFEUBZZ

The U.S. level Btu consumption estimates are calculated:

RFCCBUS = ΣRFCCBZZ
RFICBUS = ΣRFICBZZ
RFACBUS = ΣRFACBZZ
RFEUBUS = ΣRFEUBZZ
RFTCBUS = ΣRFTCBZZ

Additional Notes on Residual Fuel

1. "Deliveries" data are actually called "shipments" in the source documents for 1960 and 1961; "consumption" for 1962 through 1966; "shipments" for 1967; "sales" from 1968 through 1978; "deliveries" for 1979 through 1988; and "adjusted sales" for 1989.

2. In 1979, the Energy Information Administration implemented a new survey form, EIA-172, to obtain deliveries of fuel oil and kerosene data and updated the list of respondents. (A detailed explanation is published in the *Energy Data Report* "Deliveries of Fuel Oil and Kerosene in 1979.") In the new survey form, certain end-use categories were redefined—in many cases to collect more disaggregated data. The reclassifications resulted in some end-use categories that were no longer comparable with those in previous surveys. Where discontinuities occurred, estimates for the pre-1979 years have been made in SEDS to conform with the 1979 fuel oil deliveries classifications. The pre-1979 deliveries estimates are not published in this report, but are used in SEDS to disaggregate the known U.S. total product supplied (consumption) into State and major end-use sector consumption estimates.

   For residual fuel deliveries in 1979, the end-use categories called "commercial" and "industrial" are available. The pre-1979 deliveries categories are called "heating" and "industrial." While the pre-1979 categories individually are not continuous with the 1979 categories, their subtotals are related. That is, a general comparison can be made between the sum of commercial and industrial deliveries in 1979 and the sum of heating and industrial deliveries in the pre-1979 years. Therefore, the following method was applied to present a comparable series for residual fuel delivered to the commercial and industrial sectors:

- For each of the pre-1979 years, a subtotal was created for each State by adding each State's heating and industrial deliveries categories. A comparable 1979 subtotal was created by adding each State's commercial and industrial deliveries categories.

- Commercial and industrial shares of the subtotal in 1979 were calculated for each State.

- These 1979 end-use shares were then applied to each pre-1979 subtotal of residual fuel deliveries in each State to create State estimates of end-use deliveries for 1960 through 1978.

The 1980 through 1982 residual fuel deliveries data are based on the same survey as that used for 1979; therefore, the 1980 through 1982 data are directly comparable to 1979 data.

In 1984, EIA again updated the list of respondents for this survey, and the Form EIA-172 became the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." The EIA did not conduct a fuel oil and kerosene deliveries survey for 1983. The 1983 estimates in SEDS are based on 1984 data obtained from the Form EIA-821. Statistical procedures and methodologies used for the Form EIA-821 differ from those used in previous years. Therefore, the 1983 and forward sales data may not be directly comparable to the pre-1983 data. (In the source document, the deliveries data for 1983 forward are reported in thousand gallons. These data were first converted to thousand barrels before being entered into SEDS.)

3. The fuel oil at electric utilities data for all years and States are actual fuel oil consumption numbers collected from electric utilities by EIA on Form EIA-759, "Monthly Power Plant Report" and predecessor forms. Due to changes in fuel oil reporting classifications on the Form EIA-759 over the years, it is not possible to develop a thoroughly consistent series for all years. However, over time, data more accurately disaggregating fuel oil into distillate fuel and residual fuel have become available. For 1960 through 1969, only total fuel oil consumed at electric utilities by State is available. For 1970 through 1979, fuel oil consumed by plant type (internal combustion and gas turbine plants combined and steam plants) by State are available. For 1980 forward, consumption of light oil at all plant types combined and consumption of heavy oil at all plant types combined are available by State. In SEDS, the following assumptions have been made:

- 1960 through 1969 — State estimates of fuel oil consumption by plant type have been created for each year by applying the shares of steam plants (primarily residual fuel) and internal combustion and gas turbine plants (primarily distillate fuel plus small amounts of jet kerosene) by State in 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.

- 1970 through 1979 — fuel oil consumed by steam plants is assumed to equal residual fuel consumption, and fuel oil consumed by internal combustion and gas turbine plants is assumed to equal distillate fuel plus jet kerosene consumption.

- 1980 and forward — total heavy oil consumption at all plant types is assumed to equal residual fuel consumption, and total light oil consumption at all plant types is assumed to equal distillate fuel plus jet kerosene consumption.

The data series thus derived for SEDS for residual fuel and distillate fuel plus jet kerosene consumption at electric utilities is considered to be actual consumption at electric utilities for each State and each year.

Other Petroleum Products

There are 16 petroleum products that are summed and called "other petroleum products," in SEDS. These products, in thousand barrels, are:

ABTCPUS = aviation gasoline blending components total consumed in the United States;

COTCPZZ = crude oil (including lease condensate) consumed in each State;

FNTCPUS = petroleum feedstocks, naphtha less than 401 °F, total consumed in the United States;

FOTCPUS = petroleum feedstocks, other oils equal to or greater than 401 °F, total consumed in the United States;

FSTCPUS = petroleum feedstocks, still gas, total consumed in the United States;

MBTCPUS = motor gasoline blending components total consumed in the United States;

MSTCPUS = miscellaneous petroleum products total consumed in the United States;

NATCPUS = natural gasoline (including isopentane) total consumed in the United States;

PCTCPUS = petroleum coke total consumed in the United States;

PLTCPUS = plant condensate total consumed in the United States;
PPTCPUS = pentanes plus total consumed in the United States;
SGTCPUS = still gas total consumed in the United States;
SNTCPUS = special naphthas total consumed in the United States;
UOTCPUS = unfinished oils total consumed in the United States;
USTCPUS = unfractionated stream total consumed in the United States; and
WXTCPUS = waxes total consumed in the United States.

The methods used to create State estimates for each of these products (except petroleum coke, which was described earlier in the petroleum coke documentation) are explained in the following sections. It is assumed that all of these products are used by the industrial sector, except for the small portion of petroleum coke consumed at electric utilities. State estimates are created for other petroleum products by using the following four variables to allocate the products to the States:

COCAPZZ = crude oil throughput operating capacity at refineries in each State, in barrels per calendar day;
OCVAVZZ = value added by manufacture of industrial organic chemicals in each State, in million dollars;
PIVAVZZ = value added by manufacture of paints and allied products in each State, in million dollars; and
CGVAVZZ = value added by manufacture of coated and glazed paper in each State, in million dollars.

Value added by manufacture is a measure of manufacturing activity that is derived by subtracting the cost of materials (which covers materials, supplies, containers, fuel, purchased electricity, and contract work) from the value of shipments. This difference is then adjusted by the net change in finished goods and work-in-process between the beginning and end-of-year inventories. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas. The value added data are from the Department of Commerce *Census of Manufactures* reports.

Crude Oil

Physical Units

State estimates for crude oil consumed in petroleum industry operations are the data series COTCPZZ. The U.S. total for this data series is summed:

COTCPUS = ΣCOTCPZZ

Industrial consumption equals total consumption of crude oil:

COICPZZ = COTCPZZ
COICPUS = COTCPUS

British Thermal Units (Btu)

Crude oil has a heat content value of approximately 5.800 million Btu per barrel. The calculations performed to estimate total Btu consumption and industrial use Btu consumption by State and for the United States are:

COTCBZZ = COTCPZZ * 5.800
COTCBUS = ΣCOTCBZZ
COICBZZ = COTCBZZ
COICBUS = COTCBUS

Aviation Gasoline Blending Components; Petroleum Feedstocks, Still Gas; Motor Gasoline Blending Components; Still Gas; and Unfinished Oils

Physical Units

The five petroleum products in this category are consumed as refinery fuels. Therefore, State consumption estimates of these products are created in proportion to each State's crude oil throughput operating capacity at refineries (COCAPZZ). The U.S. total for this variable is summed:

COCAPUS = ΣCOCAPZZ

Aviation gasoline blending components State and U.S. consumption are estimated:

ABTCPZZ = (COCAPZZ / COCAPUS) * ABTCPUS
ABICPZZ = ABTCPZZ
ABICPUS = ABTCPUS

Petroleum feedstocks, still gas, State and U.S. consumption are estimated:

FSTCPZZ = (COCAPZZ / COCAPUS) * FSTCPUS
FSICPZZ = FSTCPZZ
FSICPUS = FSTCPUS

Motor gasoline blending components State and U.S. consumption are estimated:

MBTCPZZ = (COCAPZZ / COCAPUS) * MBTCPUS
MBICPZZ = MBTCPZZ
MBICPUS = MBTCPUS

Still gas State and U.S. consumption are estimated:

SGTCPZZ = (COCAPZZ / COCAPUS) * SGTCPUS
SGICPZZ = SGTCPZZ
SGICPUS = SGTCPUS

Unfinished oils State and U.S. consumption are estimated:

UOTCPZZ = (COCAPZZ / COCAPUS) * UOTCPUS
UOICPZZ = UOTCPZZ
UOICPUS = UOTCPUS

British Thermal Units (Btu)

Btu estimates for the five products in this group are developed by multiplying each individual product's estimated consumption in physical units by its respective heat content conversion factor. The calculations performed to estimate total Btu consumption and industrial use Btu consumption by State and for the United States are:

ABTCBZZ = ABTCPZZ * 5.048
ABTCBUS = ΣABTCBZZ
ABICBZZ = ABTCBZZ
ABICBUS = ABTCBUS

FSTCBZZ = FSTCPZZ * 6.000
FSTCBUS = ΣFSTCBZZ
FSICBZZ = FSTCBZZ
FSICBUS = FSTCBUS

MBTCBZZ = MBTCPZZ * 5.253
MBTCBUS = ΣMBTCBZZ
MBICBZZ = MBTCBZZ
MBICBUS = MBTCBUS

SGTCBZZ = SGTCPZZ * 6.000
SGTCBUS = ΣSGTCBZZ
SGICBZZ = SGTCBZZ
SGICBUS = SGTCBUS

UOTCBZZ = UOTCPZZ * 5.825
UOTCBUS = ΣUOTCBZZ
UOICBZZ = UOTCBZZ
UOICBUS = UOTCBUS

Petroleum Feedstocks, Naphtha Less Than 401 °F; Petroleum Feedstocks, Other Oils Equal to or Greater Than 401 °F; Miscellaneous Petroleum Products; Natural Gasoline (Including Isopentane); Plant Condensate; Pentanes Plus; and Unfractionated Stream.

Physical Units

The seven petroleum products in this category are allocated to the States in proportion to the value added by the manufacture of industrial organic chemicals in each State (OCVAVZZ).

The two petroleum feedstocks are consumed by the chemical industry in producing petrochemical "building blocks" that in turn are converted to products such as synthetic fibers, synthetic rubber, and plastics.

Miscellaneous products include such products as petrolatum, synthetic natural gas feedstocks, and specialty oils (e.g., hydraulic oils insulating oils, medicinal oils, rust preventatives, and spray oils). Finished petrochemicals are usually the largest volume miscellaneous product, it is assumed that the chief consuming industry for this product line is the chemical industry.

Natural gasoline (including isopentane), plant condensate, pentanes plus, and unfractionated stream are included in this group since the chemical industry is the only one that could readily utilize these lighter liquid hydrocarbons (as petrochemical feedstocks). Beginning in 1984 in the source document, natural gasoline (including isopentane) and plant condensate are reported together as a new product, pentanes plus. At the same time, unfractionated stream was dropped because its components were reported separately as liquefied petroleum gases.

The U.S. total for the data series used to apportion these products to the States is summed:

OCVAVUS = ΣOCVAVZZ

Total petroleum feedstocks, naphtha less than 401 °F, State and U.S. consumption are estimated:

FNTCPZZ = (OCVAVZZ / OCVAVUS) * FNTCPUS
FNICPZZ = FNTCPZZ
FNICPUS = FNTCPUS

Petroleum feedstocks, other oils equal to or greater than 401 °F, State and U.S. consumption are estimated:

FOTCPZZ = (OCVAVZZ / OCVAVUS) * FOTCPUS
FOICPZZ = FOTCPZZ
FOICPUS = FOTCPUS

Miscellaneous petroleum products State and U.S. consumption are estimated:

MSTCPZZ = (OCVAVZZ / OCVAVUS) * MSTCPUS
MSICPZZ = MSTCPZZ
MSICPUS = MSTCPUS

Natural gasoline (including isopentane) State and U.S. consumption are estimated:

NATCPZZ = (OCVAVZZ / OCVAVUS) * NATCPUS
NAICPZZ = NATCPZZ
NAICPUS = NATCPUS

Plant condensate State and U.S. consumption are estimated:

PLTCPZZ = (OCVAVZZ / OCVAVUS) * PLTCPUS
PLICPZZ = PLTCPZZ
PLICPUS = PLTCPUS

Pentanes plus State and U.S. consumption are estimated:

PPTCPZZ = (OCVAVZZ / OCVAVUS) * PPTCPUS
PPICPZZ = PPTCPZZ
PPICPUS = PPTCPUS

Unfractionated stream State and U.S. consumption are estimated:

USTCPZZ = (OCVAVZZ / OCVAVUS) * USTCPUS
USICPZZ = USTCPZZ
USICPUS = USTCPUS

British Thermal Units (Btu)

Btu estimates for the seven petroleum products in this group are developed by multiplying each individual product's estimated consumption in physical units by its respective approximate heat content conversion factor. The calculations performed to estimate total Btu consumption and industrial use Btu consumption by State and for the United States are:

FNTCBZZ = FNTCPZZ * 5.248
FNTCBUS = ΣFNTCBZZ
FNICBZZ = FNTCBZZ
FNICBUS = FNTCBUS

FOTCBZZ = FOTCPZZ * 5.825
FOTCBUS = ΣFOTCBZZ
FOICBZZ = FOTCBZZ
FOICBUS = FOTCBUS

MSTCBZZ = MSTCPZZ * 5.796
MSTCBUS = ΣMSTCBZZ
MSICBZZ = MSTCBZZ
MSICBUS = MSTCBUS

NATCBZZ = NATCPZZ * 4.620
NATCBUS = ΣNATCBZZ
NAICBZZ = NATCBZZ
NAICBUS = NATCBUS

PLTCBZZ = PLTCPZZ * 5.418
PLTCBUS = ΣPLTCBZZ
PLICBZZ = PLTCBZZ
PLICBUS = PLTCBUS

PPTCBZZ = PPTCPZZ * 4.620
PPTCBUS = ΣPPTCBZZ
PPICBZZ = PPTCBZZ
PPICBUS = PPTCBUS

USTCBZZ = USTCPZZ * 5.418
USTCBUS = ΣUSTCBZZ
USICBZZ = USTCBZZ
USICBUS = USTCBUS

Special Naphthas

Physical Units

Special naphthas are used as paint and varnish thinners and dry cleaning liquids or solvents. This petroleum product is allocated to the States in proportion to the value added by the manufacture of paints and allied products in each State (PIVAVZZ).

The U.S. total for the apportioning data series is calculated:

PIVAVUS = ΣPIVAVZZ

Special naphthas State and U.S. consumption are estimated:

SNTCPZZ = (PIVAVZZ / PIVAVUS) * SNTCPUS
SNICPZZ = SNTCPZZ
SNICPUS = SNTCPUS

British Thermal Units (Btu)

Special naphthas have a heat content value of approximately 5.248 million Btu per barrel. This factor is applied to convert special naphthas estimated consumption from physical units to Btu by State and for the United States:

SNTCBZZ = SNTCPZZ * 5.248
SNTCBUS = ΣSNTCBZZ
SNICBZZ = SNTCBZZ
SNICBUS = SNTCBUS

Waxes

Physical Units

Because petroleum waxes are very cost-effective moisture and gas barriers, food packaging is the largest market for petroleum waxes in the United States, accounting for more than 50 percent of petroleum wax consumption. Therefore, waxes are allocated to the States in proportion to the value added by the manufacture of coated and glazed paper (which is used in food packaging) in each State (CGVAVZZ).

The U.S. total for this variable is summed:

CGVAVUS = ΣCGVAVZZ

State and U.S. consumption are estimated:

WXTCPZZ = (CGVAVZZ / CGVAVUS) * WXTCPUS
WXICPZZ = WXTCPZZ
WXICPUS = WXTCPUS

British Thermal Units (Btu)

Waxes have a heat content value of approximately 5.537 million Btu per barrel. This factor is applied to convert waxes estimated consumption from physical units to Btu by State and at the U.S. level:

WXTCBZZ = WXTCPZZ * 5.537
WXTCBUS = ΣWXTCBZZ
WXICBZZ = WXTCBZZ
WXICBUS = WXTCBUS

Total Other Petroleum Products

Physical Units

Total other petroleum products is the sum of the 16 "other petroleum products." All of these products are consumed by the industrial sector except for some petroleum coke consumed by electric utilities (PCEUP), which is calculated in SEDS with electric utility fuel consumption. Therefore, State and U.S. industrial use of these other petroleum products are calculated:

POICPZZ = ABICPZZ + COICPZZ + FNICPZZ + FOICPZZ + FSICPZZ + MBICPZZ + MSICPZZ + NAICPZZ + PCICPZZ + PLICPZZ + PPICPZZ + SGICPZZ + SNICPZZ + UOICPZZ + USICPZZ + WXICPZZ
POICPUS = ΣPOICPZZ

Total consumption of these products (including petroleum coke consumption by electric utilities) is calculated:

POTCPZZ = ABTCPZZ + COTCPZZ + FNTCPZZ + FOTCPZZ + FSTCPZZ + MBTCPZZ + MSTCPZZ + NATCPZZ + PCTCPZZ + PLTCPZZ + PPTCPZZ + SGTCPZZ + SNTCPZZ + UOTCPZZ + USTCPZZ + WXTCPZZ
POTCPUS = ΣPOTCPZZ

British Thermal Units (Btu)

Estimated consumption of all 16 "other petroleum products" in Btu is the sum of the Btu consumption of each product by the industrial sector. The State and U.S. totals are calculated:

POICBZZ = ABICBZZ + COICBZZ + FNICBZZ + FOICBZZ + FSICBZZ + MBICBZZ + MSICBZZ + NAICBZZ + PCICBZZ + PLICBZZ + PPICBZZ + SGICBZZ + SNICBZZ + UOICBZZ + USICBZZ + WXICBZZ

POICBUS = ΣPOICBZZ

State and U.S. total consumption of these products, which includes electric utility consumption of petroleum coke, is calculated:

POTCBZZ = ABTCBZZ + COTCBZZ + FNTCBZZ + FOTCBZZ + FSTCBZZ + MBTCBZZ + MSTCBZZ + NATCBZZ + PCTCBZZ + PLTCBZZ + PPTCBZZ + SGTCBZZ + SNTCBZZ + UOTCBZZ + USTCBZZ + WXTCBZZ

POTCBUS = ΣPOTCBZZ

Additional Notes on Other Petroleum Products

1. In the "Energy Consumption Estimates by Source" tables in this report, a petroleum column called "Other" is the other products including petroleum coke consumed by electric utilities (POTCB and POTCP). In the "Industrial Energy Consumption Estimates" tables the petroleum "Other" column is the other petroleum products consumption total for industrial use (POICB and POICP).

2. The value added by manufacture data used to allocate many of the other petroleum products are from the Department of Commerce, *Census of Manufactures* reports. For all years, several States' data were withheld from publication to avoid disclosing operations of individual companies. The total withheld data was apportioned to the withheld States based on those States' proportional values in the previous year.

   In 1982, all respondents to the Census of Manufactures survey were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting valuation method. Consequently, data for value added by manufacture for 1982 are not comparable to the prior years data.

Petroleum Summaries

This section describes the method of estimating consumption by the major end-use sectors within the States for all petroleum data series. Table A1 in the Overview of this section indicates which petroleum products are consumed in each of the five major end-use sectors. In the preceding portions of this section, end-use consumption estimates have been derived for each petroleum product. These petroleum product subtotals are now summed, in physical units of thousand barrels and in Btu, to create estimated end-use consumption for all petroleum products.

Residential Sector

Petroleum products consumed by the residential sector are: distillate fuel (DF), kerosene (KS), and liquefied petroleum gas (LG). For the residential sector, the State and U.S. totals in physical units are:

PARCPZZ = DFRCPZZ + KSRCPZZ + LGRCPZZ

PARCPUS = ΣPARCPZZ

State and U.S. totals in Btu are:

PARCBZZ = DFRCBZZ + KSRCBZZ + LGRCBZZ

PARCBUS = ΣPARCBZZ

Commercial Sector

The commercial sector's use of petroleum products includes: distillate fuel (DF), kerosene (KS), liquefied petroleum gases (LG), motor gasoline (MG), and residual fuel (RF). In physical units, the State and the U.S. totals for the commercial sector are calculated:

PACCPZZ = DFCCPZZ + KSCCPZZ + LGCCPZZ + MGCCPZZ + RFCCPZZ

PACCPUS = ΣPACCPZZ

State and U.S. totals in Btu are:

PACCBZZ = DFCCBZZ + KSCCBZZ + LGCCBZZ + MGCCBZZ + RFCCBZZ

PACCBUS = ΣPACCBZZ

Industrial Sector

The industrial sector's use of petroleum includes: asphalt and road oil (AR); distillate fuel (DF); kerosene (KS); liquefied petroleum gases (LG); lubricants (LU); motor gasoline (MG); residual fuel (RF); and the 16 products that are already summed in the "other petroleum" products (PO) subtotal. The State and U.S. total estimates in physical units are:

PAICPZZ = ARICPZZ + DFICPZZ + KSICPZZ + LGICPZZ + LUICPZZ + MGICPZZ + RFICPZZ + POICPZZ
PAICPUS = ΣPAICPZZ

State and U.S. totals in Btu are:

PAICBZZ = ARICBZZ + DFICBZZ + KSICBZZ + LGICBZZ + LUICBZZ + MGICBZZ + RFICBZZ + POICBZZ
PAICBUS = ΣPAICBZZ

Transportation Sector

Petroleum products used in the transportation sector are: aviation gasoline (AV), distillate fuel (DF), kerosene-type jet fuel (JK), naphtha-type jet fuel (JN), liquefied petroleum gases (LG), lubricants (LU), motor gasoline (MG), and residual fuel (RF). The State and U.S. totals in physical units are:

PAACPZZ = AVACPZZ + DFACPZZ + JKACPZZ + JNACPZZ + LGACPZZ + LUACPZZ + MGACPZZ + RFACPZZ
PAACPUS = ΣPAACPZZ

State and U.S. totals in Btu are:

PAACBZZ = AVACBZZ + DFACBZZ + JKACBZZ + JNACBZZ + LGACBZZ + LUACBZZ + MGACBZZ + RFACBZZ
PAACBUS = ΣPAACBZZ

Electric Utility Sector

Petroleum products consumed by the electric utility sector are: distillate fuel (DF), kerosene-type jet fuel (JK), petroleum coke (PC), and residual fuel (RF). In physical units, the State and U.S. totals are:

PAEUPZZ = DFEUPZZ + JKEUPZZ + PCEUPZZ + RFEUPZZ
PAEUPUS = ΣPAEUPZZ

State and U.S. totals in Btu are:

PAEUBZZ = DFEUBZZ + JKEUBZZ + PCEUBZZ + RFEUBZZ
PAEUBUS = ΣPAEUBZZ

Total Consumption of Petroleum Products

Total consumption of all petroleum products is the sum of all of the individual product totals. The State and U.S. physical unit totals are:

PATCPZZ = ARTCPZZ + AVTCPZZ + DFTCPZZ + JKTCPZZ + JNTCPZZ + KSTCPZZ + LGTCPZZ + LUTCPZZ + MGTCPZZ + RFTCPZZ + POTCPZZ
PATCPUS = ΣPATCPZZ

State and U.S. totals in Btu are:

PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + JKTCBZZ + JNTCBZZ + KSTCBZZ + LGTCBZZ + LUTCBZZ + MGTCBZZ + RFTCBZZ + POTCBZZ
PATCBUS = ΣPATCBZZ

Additional Calculations

Additional calculations are performed by SEDS to provide data that are used in EIA's *Annual Energy Review* and published in the conversion factor section of EIA's *Monthly Energy Review.* Conversion factors for all petroleum products consumed by each sector as well as data for the residential and commercial sectors combined are calculated by SEDS.

The conversion factor for all petroleum products consumed by the residential sector is calculated:

PARCKUS = PARCBUS / PARCPUS

The conversion factor for all petroleum products consumed by the commercial sector is calculated:

PACCKUS = PACCBUS / PACCPUS

Petroleum

Consumption of all petroleum products by the residential and commercial sectors combined, in physical units, in Btu, and the average conversion factor are calculated:

PAHCPUS = PARCPUS + PACCPUS
PAHCBUS = PARCBUS + PACCBUS
PAHCKUS = PAHCBUS / PAHCPUS

The conversion factor for all petroleum products consumed by the industrial sector is calculated:

PAICKUS = PAICBUS / PAICPUS

The conversion factor for all petroleum products consumed by the transportation sector is calculated:

PAACKUS = PAACBUS / PAACPUS

The conversion factor for all petroleum products consumed by electric utilities is calculated:

PAEUKUS = PAEUBUS / PAEUPUS

The conversion factor for all petroleum products consumed by all sectors is calculated:

PATCKUS = PATCBUS / PATCPUS

Section 3. Natural Gas

Physical Units

Six natural gas data series are used to derive the natural gas consumption estimates in SEDS. Three of these data series are deliveries of natural gas to the end user by State and are used as consumption since actual consumption data at these levels are not available. The sources for the natural gas data are the reports in the *Natural Gas Annual* series published by the Energy Information Administration and its predecessors. These series, in million cubic feet, for each State are as follows (the two-letter State code is represented by "ZZ" in the following variable names):

NGACPZZ = natural gas consumed by the transportation sector (i.e., as pipeline fuel);

NGCCPZZ = natural gas delivered to the commercial sector (includes gas used by nonmanufacturing organizations, such as hotels, restaurants, retail stores, laundries, and other service enterprises, and gas used in agriculture, forestry, and fisheries) plus natural gas delivered to other consumers (includes deliveries to municipalities and public authorities for institutional heating and street lighting);

NGEUPZZ = natural gas consumed by the electric utilities;

NGINPZZ = a portion of the natural gas delivered to the industrial sector (includes gas used as fuel and feedstock in chemical plants and used to produce carbon black);

NGLPPZZ = natural gas consumed as lease and plant fuel; and

NGRCPZZ = natural gas delivered to the residential sector and used as consumption in SEDS.

The U.S. totals of these independent variables are calculated as the sum of the States' values:

NGACPUS = ΣNGACPZZ
NGCCPUS = ΣNGCCPZZ
NGEUPUS = ΣNGEUPZZ
NGINPUS = ΣNGINPZZ
NGLPPUS = ΣNGLPPZZ
NGRCPUS = ΣNGRCPZZ

The data are combined into the five major end-use sectors used in SEDS as closely as possible. However, natural gas data are collected using different aggregations of users. The industrial sector in SEDS is intended to contain energy used in agriculture, forestry, and fisheries. For natural gas, these categories are reported with commercial use of natural gas (the series called NGCCPZZ in SEDS) and cannot be separately identified. No adjustment for this end-use inconsistency could be made in SEDS.

The residential sector's consumption of natural gas is represented by the variable for deliveries to the residential sector, NGRCPZZ.

The commercial sector's consumption of natural gas is represented by the variable for deliveries to the commercial sector, NGCCPZZ.

The industrial sector's consumption of natural gas in SEDS, NGICPZZ, is estimated to be the sum of two variables:

NGICPZZ = NGINPZZ + NGLPPZZ

The transportation sector's consumption of natural gas is the variable NGACPZZ, which is natural gas consumed as pipeline fuel.

The electric utility sector's consumption of natural gas is represented by the input variable NGEUPZZ.

The total consumption of natural gas, estimated for each State, is the sum of the consumption by these five major end-use sectors:

NGTCPZZ = NGRCPZZ + NGCCPZZ + NGICPZZ + NGACPZZ + NGEUPZZ

And the U.S. totals for the calculated series are:

NGICPUS = ΣNGICPZZ
NGTCPUS = ΣNGTCPZZ

British Thermal Units (Btu)

Three factors are used for converting the consumption of natural gas from its input units of million cubic feet into thousand Btu per cubic foot. Two of these factors are from sources listed in Appendix C:

NGEUKZZ = The factor for converting natural gas consumed by the electric utility sector from physical units to Btu; and

NGTCKZZ = The factor for converting natural gas consumed by all sectors from physical units to Btu.

These two factors are used to derive a third factor for converting natural gas used by all non-electric utility sectors in Btu:

NGTCBZZ = NGTCPZZ * NGTCKZZ
NGEUBZZ = NGEUPZZ * NGEUKZZ
NGNUKZZ = (NGTCBZZ — NGEUBZZ) / (NGTCPZZ — NGEUPZZ)

Prior to 1972, conversion factors for natural gas consumed by electric utilities were not collected; therefore, the factor for all natural gas consumed (NGTCKZZ) is used for electric utility (NGEUKZZ) and non-electric utility (NGNUKZZ) sectors for 1963 through 1971. Prior to 1963, State-level conversion factors for natural gas consumption were not collected and a standard factor of 1.035 thousand Btu per cubic feet is used for all sectors in all States for 1960 through 1962.

Natural gas consumption in Btu for each sector within a State is calculated:

NGRCBZZ = NGRCPZZ * NGNUKZZ
NGCCBZZ = NGCCPZZ * NGNUKZZ
NGICBZZ = NGICPZZ * NGNUKZZ
NGACBZZ = NGACPZZ * NGNUKZZ

U.S. end-use and total consumption estimates are calculated as the sum of the States' values:

NGRCBUS = ΣNGRCBZZ
NGCCBUS = ΣNGCCBZZ
NGICBUS = ΣNGICBZZ
NGACBUS = ΣNGACBZZ
NGEUBUS = ΣNGEUBZZ
NGTCBUS = ΣNGTCBZZ

Additional Calculations

Although SEDS does not use U.S.-level conversion factors for calculating natural gas consumption, these factors are calculated by SEDS for reference and are shown in the natural gas tables in Appendix D:

NGEUKUS = NGEUBUS / NGEUPUS
NGTCKUS = NGTCBUS / NGTCPUS
NGNUKUS = (NGTCBUS — NGEUBUS) / (NGTCPUS — NGEUPUS)

Section 4. Coal

Two forms of coal—anthracite (AC) and bituminous coal and lignite (BC)—are added to provide coal totals (CL).

Anthracite

Physical Units

There are seven input data series used to estimate the State end-use consumption of anthracite, and all are in units of thousand short tons. "ZZ" in the variable names is used to represent the two-letter State code that differs for each State:

ACEUPZZ = anthracite consumed by the electric utilities in each State;
ACHCPUS = anthracite consumed by the residential and commercial sectors in the United States;
ACHDPZZ = anthracite distributed to the residential and commercial sectors in each State.
ACKCPUS = anthracite consumed by coke plants in the United States;
ACKDPZZ = anthracite distributed to coke plants in each State;
ACOCPUS = anthracite consumed by other industrial users in the United States; and
ACODPZZ = anthracite distributed to other industrial users in each State;

The U.S. estimates are calculated by summing the State data:

ACEUPUS = ΣACEUPZZ
ACKDPUS = ΣACKDPZZ
ACODPUS = ΣACODPZZ
ACHDPUS = ΣACHDPZZ

Estimates of anthracite consumed by the residential and commercial sectors combined are made by assuming that anthracite is consumed in proportion to the amount of anthracite distributed to the residential and commercial sectors in each State:

ACHCPZZ = (ACHDPZZ/ACHDPUS) * ACHCPUS

Little information is available regarding disaggregating the combined residential and commercial estimates. An estimate of 60 percent to the residential sector and 40 percent to the commercial sector is made for all States and years. Therefore, the residential sector consumption of anthracite, ACRCPZZ, is estimated:

ACRCPZZ = ACHCPZZ * 0.60

and the commercial sector consumption, ACCCPZZ, is estimated:

ACCCPZZ = ACHCPZZ * 0.40

To gain a perspective on these estimates, the residential and commercial sectors combined consumed about 0.7 percent of the total coal consumed in 1989; of that, 0.1 percent was anthracite and 0.6 percent was bituminous coal and lignite.

The industrial sector consumption is estimated by State. An assumption is made that anthracite is consumed by coke plants in proportion to the amount of anthracite distributed to coke plants in each State. It is also assumed that the consumption of anthracite by industrial users other than coke plants is in proportion to the amount of anthracite delivered to the other industrial users in each State. The industrial sector consumption is the sum of anthracite consumed by coke plants and by other industrial users for each State:

ACKCPZZ = (ACKDPZZ/ACKDPUS) * ACKCPUS
ACOCPZZ = (ACODPZZ/ACODPUS) * ACOCPUS
ACICPZZ = ACKCPZZ + ACOCPZZ

Total anthracite consumption in each State is the sum of the sectors' consumption:

ACTCPZZ = ACRCPZZ + ACCCPZZ + ACICPZZ + ACEUPZZ

U.S. totals are calculated:

ACRCPUS = ΣACRCPZZ
ACCCPUS = ΣACCCPZZ
ACICPUS = ΣACICPZZ
ACTCPUS = ΣACTCPZZ

British Thermal Units (Btu)

Two factors are used for converting anthracite consumption from physical units to Btu. The factors, in million Btu per short ton, are:

ACEUKUS = the factor for converting anthracite consumed in the electric utility sector from short tons to Btu; and
ACNUKUS = the factor for converting anthracite consumed by all non-electric utility sectors from short tons to Btu.

The industrial sector Btu consumption is estimated in three steps in order to maintain separate series for anthracite used as coking coal (ACKCB) and anthracite consumed by other industrial users (ACOCB):

ACKCBZZ = ACKCPZZ * ACNUKUS
ACOCBZZ = ACOCPZZ * ACNUKUS
ACICBZZ = ACKCBZZ + ACOCBZZ

The remaining end-use sectors are calculated for all States:

ACEUBZZ = ACEUPZZ * ACEUKUS
ACRCBZZ = ACRCPZZ * ACNUKUS
ACCCBZZ = ACCCPZZ * ACNUKUS
ACTCBZZ = ACRCBZZ + ACCCBZZ + ACICBZZ + ACEUBZZ

Total U.S. end-use consumption estimates are calculated:

ACKCBUS = ΣACKCBZZ
ACOCBUS = ΣACOCBZZ
ACRCBUS = ΣACRCBZZ
ACCCBUS = ΣACCCBZZ
ACICBUS = ΣACICBZZ
ACEUBUS = ΣACEUBZZ
ACTCBUS = ΣACTCBZZ

Additional Notes on Anthracite

From 1980 forward, the data in the distribution series variables—ACKDPZZ, ACODPZZ, and ACHDPZZ—are estimates of actual anthracite consumption rather than the distribution data as used in previous years. State total coal consumption data are available, but consumption by sector within many States is withheld. Estimates of the withheld sector consumption are derived by using the distribution series for the residential and commercial sector to fill in withheld residential and commercial consumption. In most States, this leaves only one sector withheld and it can be derived by subtracting known sectors from the State total. This gives total coal consumption estimates for sectors that are compatible with State coal consumption data published in other EIA reports. Anthracite consumption is then derived by using anthracite distribution data to estimate consumption within each sector and State that equal published U.S. totals for anthracite consumption by sector.

Bituminous Coal and Lignite

Physical Units

Eight data series are used to estimate bituminous coal and lignite consumption. They are consumption and distribution data, and are all in units of thousand short tons:

BCACPUS = bituminous coal and lignite consumed by the transportation sector in the United States;
BCEUPZZ = bituminous coal and lignite consumed by the electric utilities in each State;
BCHCPUS = bituminous coal and lignite consumed by the residential and commercial sectors in the United States;
BCHDPZZ = bituminous coal and lignite distributed to the residential and commercial sectors in each State.
BCKCPUS = bituminous coal and lignite consumed by coke plants in the United States;
BCKDPZZ = bituminous coal and lignite distributed to coke plants in each State;
BCOCPUS = bituminous coal and lignite consumed by other industrial users in the United States; and
BCODPZZ = bituminous coal and lignite distributed to other industrial users in each State;

Series with State-level data are summed to U.S. totals:

BCEUPUS = ΣBCEUPZZ
BCHDPUS = ΣBCHDPZZ
BCKDPUS = ΣBCKDPZZ
BCODPUS = ΣBCODPZZ

An assumption is made that bituminous coal and lignite are consumed by the residential and commercial sectors combined in proportion to the amount of bituminous coal and lignite distributed to the residential and commercial sectors in each State:

BCHCPZZ = (BCHDPZZ / BCHDPUS) * BCHCPUS

Little information exists for disaggregating the combined residential and commercial estimates. An estimate of 35 percent to the residential sector and 65 percent to the commercial sector is made for all States and years. That is, the residential sector consumption, BCRCPZZ, is estimated:

BCRCPZZ = BCHCPZZ * 0.35

and the commercial sector consumption, BCCCPZZ, is estimated:

BCCCPZZ = BCHCPZZ * 0.65

To gain a perspective on these estimates, the residential and commercial sectors combined consumed about 0.7 percent of the total coal consumed in 1989; of that, 0.6 percent was bituminous coal and lignite and 0.1 percent was anthracite.

The industrial sector consumption is estimated by State. An assumption is made that bituminous coal and lignite is consumed by coke plants in proportion to the amount of bituminous coal and lignite distributed to coke plants in each State. It is also assumed that the consumption of bituminous coal and lignite by industrial users other than coke plants is in proportion to the amount delivered to other industrial users in each State. The industrial sector consumption is the sum of bituminous coal and lignite consumed by coke plants and by other industrial users for each State:

BCKCPZZ = (BCKDPZZ / BCKDPUS) * BCKCPUS
BCOCPZZ = (BCODPZZ / BCODPUS) * BCOCPUS
BCICPZZ = BCKCPZZ + BCOCPZZ

There are no data available for estimating the transportation sector's consumption of bituminous coal and lignite by State. The quantity would be very small. The transportation sector accounted for only 1 percent of the national total consumption in 1960 and none since 1978. An assumption is made that when transportation sector consumption exists, the consumption by State, BCACPZZ, is in proportion to the share of the U.S. industrial sector attributed to each State:

BCACPZZ = (BCICPZZ / BCICPUS) * BCACPUS

Total consumption in each State, BCTCPZZ, is the sum of the sectors' consumption:

BCTCPZZ = BCRCPZZ + BCCCPZZ + BCICPZZ + BCACPZZ + BCEUPZZ

U.S. totals are calculated:

BCICPUS = ΣBCICPZZ
BCRCPUS = ΣBCRCPZZ
BCCCPUS = ΣBCCCPZZ
BCTCPUS = ΣBCTCPZZ

British Thermal Units (Btu)

Three factors are used for converting bituminous coal and lignite from physical units to Btu. The three factors, State-specific for each year, in units of million Btu per short ton, are:

BCEUKZZ = the factor for converting bituminous coal and lignite consumed by the electric utility sector in each State from short tons to Btu;
BCHCKZZ = the factor for converting bituminous coal and lignite consumed by the residential and commercial sectors in each State from short tons to Btu; and
BCOCKZZ = the factor for converting bituminous coal and lignite consumed by other industrial users in each State from short tons to Btu.

The electric utility factor for each State is applied to estimate bituminous coal and lignite consumed by electric utilities in Btu:

BCEUBZZ = BCEUPZZ * BCEUKZZ

The residential and commercial sectors' State factor is applied to estimate bituminous coal and lignite consumed by the two sectors in Btu:

BCRCBZZ = BCRCPZZ * BCHCKZZ
BCCCBZZ = BCCCPZZ * BCHCKZZ

The industrial sector Btu consumption is estimated in three steps. A constant conversion factor of 26.80 million Btu per short ton is used for coking coal consumption for all years. The conversion factor for industrial users other than coke plants in each State is applied to other industrial users sector consumption. The industrial sector Btu consumption is then estimated by adding coking coal Btu consumption and other industrial users Btu consumption:

BCKCBZZ = BCKCPZZ * 26.80
BCOCBZZ = BCOCPZZ * BCOCKZZ
BCICBZZ = BCKCBZZ + BCOCBZZ

The transportation sector Btu consumption is estimated by applying the other industrial users sector State factor to the transportation consumption:

BCACBZZ = BCACPZZ * BCOCKZZ

Total consumption for each State is the sum of the sectors' consumption:

BCTCBZZ = BCRCBZZ + BCCCBZZ + BCICBZZ + BCACBZZ + BCEUBZZ

The U.S. estimates in Btu are:

BCRCBUS	= ΣBCRCBZZ	BCICBUS	= ΣBCICBZZ
BCCCBUS	= ΣBCCCBZZ	BCACBUS	= ΣBCACBZZ
BCKCBUS	= ΣBCKCBZZ	BCEUBUS	= ΣBCEUBZZ
BCOCBUS	= ΣBCOCBZZ	BCTCBUS	= ΣBCTCBZZ

Additional Notes for Bituminous Coal and Lignite

1. Prior to 1974, data for distribution of bituminous coal and lignite distribution by State included several groupings of States for which separate State data were unavailable. These groupings were: (1) Maine, New Hampshire, Vermont, and Rhode Island; (2) North Dakota and South Dakota; (3) Delaware and Maryland; (4) Georgia and Florida; (5) Alabama and Mississippi; (6) Arkansas, Louisiana, Oklahoma, and Texas; (7) Montana and Idaho; (8) Arizona and Nevada; and (9) Washington and Oregon. Beginning with 1974, individual State distribution data became available; to estimate the 1960 through 1973 State distribution data, the combined States were disaggregated in proportion to the individual States' shares of each similar State grouping in 1974.

2. From 1980 forward, the data in the distribution series variables—BCKDPZZ, BCODPZZ, and BCHDPZZ—are estimates of actual bituminous coal and lignite consumption rather than the distribution data used in previous years. State total coal consumption data are available, but consumption by sector within many States is withheld. Estimates of the withheld sector consumption are derived by using the distribution series for the residential and commercial sector to fill in withheld residential and commercial consumption. In most States, this leaves only one sector withheld and it can be derived by subtracting known sectors from the State total. This gives total coal consumption estimates for sectors that are compatible with State coal consumption data published in other EIA reports. Anthracite consumption is then derived by using anthracite distribution data to estimate consumption within each sector and State that equal published U.S. totals for anthracite consumption by sector. Bituminous coal and lignite consumption for each sector and State is, then, the difference between the total coal consumption estimates and anthracite consumption estimates.

Coal consumption data published by State do not sum to the published U.S. totals due to a quantity called "Unknown" in the source tables. This unknown coal consumption is assumed to be bituminous coal and lignite and is added to the residential and commercial sector and the other industrial sector of Alabama, Illinois, Kentucky, Pennsylvania, Tennessee, and West Virginia.

Coal

Physical Units

All coal totals are the sum of the anthracite and bituminous coal and lignite estimates. It is assumed that no anthracite is consumed by the transportation sector. The calculations are:

CLRCPZZ = ACRCPZZ + BCRCPZZ
CLCCPZZ = ACCCPZZ + BCCCPZZ
CLICPZZ = ACICPZZ + BCICPZZ
CLACPZZ = BCACPZZ
CLEUPZZ = ACEUPZZ + BCEUPZZ
CLTCPZZ = ACTCPZZ + BCTCPZZ

CLRCPUS = ACRCPUS + BCRCPUS
CLCCPUS = ACCCPUS + BCCCPUS
CLICPUS = ACICPUS + BCICPUS
CLACPUS = BCACPUS
CLEUPUS = ACEUPUS + BCEUPUS
CLTCPUS = ACTCPUS + BCTCPUS

British Thermal Units (Btu)

State and U.S. estimates of total coal consumption in Btu are:

CLRCBZZ = ACRCBZZ + BCRCBZZ
CLCCBZZ = ACCCBZZ + BCCCBZZ
CLICBZZ = ACICBZZ + BCICBZZ
CLACBZZ = BCACBZZ

CLEUBZZ = ACEUBZZ + BCEUBZZ
CLTCBZZ = ACTCBZZ + BCTCBZZ

CLRCBUS = ACRCBUS + BCRCBUS
CLCCBUS = ACCCBUS + BCCCBUS
CLICBUS = ACICBUS + BCICBUS
CLACBUS = BCACBUS
CLEUBUS = ACEUBUS + BCEUBUS
CLTCBUS = ACTCBUS + BCTCBUS

Additional calculations are performed to provide coal consumption estimates for the *State Energy Price and Expenditure Report* (SEPER). Coal prices are available for two categories: coking coal (CLKCB) and all other types of coal, referred to as steam coal (CLSCB). Coking coal is a portion of the SEDS industrial coal consumption. The remaining industrial portion, i.e, industrial steam coal, is the same as the other industrial coal consumption series in SEDS (CLOCB). The calculations for coking coal and steam coal data used by SEPER in Btu are:

CLKCBZZ = ACKCBZZ + BCKCBZZ
CLKCBUS = ACKCBUS + BCKCBUS

CLOCBZZ = ACOCBZZ + BCOCBZZ
CLOCBUS = ACOCBUS + BCOCBUS

CLSCBZZ = CLTCBZZ — CLKCBZZ
CLSCBUS = CLTCBUS — CLKCBUS

Net Imports of Coal Coke

Physical Units

Net imports of coal coke is a component of total U.S. energy consumption. There is no attempt to estimate State allocations of this energy source. All of it is considered to be used by the industrial sector. In the *State Energy Data Report,* net imports of coal coke is included the U.S. data but not in the State-level data for total consumption and industrial sector consumption in all tables in the Highlights section and in Tables 1, 3, 6, 9, and 12.

Variables for net imports of coal coke into the United States are:

CCIMPUS = coal coke imported into the United States, in thousand short tons; and
CCEXPUS = coal coke exported from the United States, in thousand short tons.

Net imports is calculated:

CCNIPUS = CCIMPUS — CCEXPUS

British Thermal Units (Btu)

The factor for converting coal coke from short tons to Btu is 24.80 million Btu per short ton:

CCIMBUS = CCIMPUS * 24.80
CCEXBUS = CCEXPUS * 24.80
CCNIBUS = CCIMBUS — CCEXBUS

Section 5. Electricity

This section describes: electrical energy sources; electricity consumed by end users (i.e., electricity sold to end users); estimates of the electrical system energy losses incurred in the generation, transmission, and distribution of electricity; and estimates of net interstate sales of electricity.

Electrical Energy Sources

Physical Units

Electricity is generated from a number of energy sources. In SEDS, petroleum, natural gas, and coal are measured in physical units of thousand barrels, million cubic feet, and thousand short tons, respectively, as they are consumed by the electric utilities. Because comparable measures in physical units for hydroelectric, nuclear power, wood, waste, geothermal, wind, photovoltaic, and solar thermal energy sources are not available, energy output in the form of electricity generated from these energy sources, in million kilowatthours, is used instead. The variable names for these data are as follows ("ZZ" in the variable name represents the two-letter State code that differs for each State):

PAEUPZZ = petroleum consumed by electric utilities (described in the petroleum section of this report), in thousand barrels;

NGEUPZZ = natural gas consumed by electric utilities (described in the natural gas section), in million cubic feet;

CLEUPZZ = coal consumed by electric utilities (described in the coal section), in thousand short tons;

HYEOPZZ = electricity generated by hydroelectric power at electric utilities, in million kilowatthours;

HYICPZZ = electricity generated by hydroelectric power at industrial facilities primarily for their own use, in million kilowatthours;

NUEOPZZ = electricity generated by nuclear power at electric utilities, in million kilowatthours;

GEEOPZZ = electricity generated by geothermal energy at electric utilities, in million kilowatthours;

WNEOPZZ = electricity generated by wind, photovoltaic, and solar thermal energy sources at electric utilities, in million kilowatthours;

WWEOPZZ = electricity generated by wood and waste at electric utilities, in million kilowatthours;

ELIMPZZ = electricity imported into the United States (assumed to be of hydroelectric power origin), in million kilowatthours; and

ELEXPZZ = electricity exported from the United States (assumed to be of hydroelectric power origin), in million kilowatthours.

U.S. totals for petroleum, natural gas, and coal consumed at electric utilities have been discussed in their respective sections of this documentation. The U.S. totals for the remaining energy sources are calculated:

HYEOPUS	= ΣHYEOPZZ	WNEOPUS	= ΣWNEOPZZ
HYICPUS	= ΣHYICPZZ	WWEOPUS	= ΣWWEOPZZ
NUEOPUS	= ΣNUEOPZZ	ELIMPUS	= ΣELIMPZZ
GEEOPUS	= ΣGEEOPZZ	ELEXPUS	= ΣELEXPZZ

British Thermal Units (Btu)

In order to total all the energy that is used to generate electricity, the energy sources are converted to the common unit of Btu and then added. The methods for calculating the Btu content of petroleum, natural gas, and coal consumed by utilities are explained in their respective sections of this documentation. The following factors are used to convert the remaining components:

FFEOKUS = factor for converting hydroelectricity, wood, waste, wind, photovoltaic, and solar thermal energy sources from kilowatthours to Btu;

NUEOKUS = factor for converting nuclear electricity from kilowatthours to Btu; and

GEEOKUS = factor for converting geothermal electricity from kilowatthours to Btu.

Values for these factors can be found in Appendix D of this report. The conversion factor for fossil fuels burned at steam-electric power plants (FFEOKUS) is used for hydroelectric power, wood, waste, wind, photovoltaic, and solar thermal energy sources, and for the electricity imports and exports, which are considered to be primarily hydroelectric power in origin.

Electricity

Formulas for applying these factors are:

HYEOBZZ = HYEOPZZ * FFEOKUS
HYICBZZ = HYICPZZ * FFEOKUS
NUEOBZZ = NUEOPZZ * NUEOKUS
GEEOBZZ = GEEOPZZ * GEEOKUS
WNEOBZZ = WNEOPZZ * FFEOKUS
WWEOBZZ = WWEOPZZ * FFEOKUS
ELIMBZZ = ELIMPZZ * FFEOKUS
ELEXBZZ = ELEXPZZ * FFEOKUS

U.S. totals are created for these series:

HYEOBUS = ΣHYEOBZZ
HYICBUS = ΣHYICBZZ
NUEOBUS = ΣNUEOBZZ
GEEOBUS = ΣGEEOBZZ
WNEOBUS = ΣWNEOBZZ
WWEOBUS = ΣWWEOBZZ
ELIMBUS = ΣELIMBZZ
ELEXBUS = ΣELEXBZZ

A total of all energy input at electric utilities is calculated by the following formulas for each State and for the United States:

TEEUBZZ = PAEUBZZ + NGEUBZZ + CLEUBZZ + HYEOBZZ + NUEOBZZ + GEEOBZZ + WWEOBZZ + WNEOBZZ + ELIMBZZ — ELEXBZZ
TEEUBUS = ΣTEEUBZZ

Additional Calculations

Additional calculations are made to aggregate some SEDS electricity data series to be shown in the tables in this report. Wood, waste, wind, photovoltaic, and solar thermal energy sources that are used at electric utilities are combined as WIEO to be shown in the "Other" column in tables titled, "Estimates of Energy Consumption by Source" and "Estimates of Energy Input at Electric Utilities." These variables are calculated for each State and the United States in million kilowatthours and billion Btu as follows:

WIEOPZZ = WWEOPZZ + WNEOPZZ
WIEOPUS = ΣWIEOPZZ

WIEOBZZ = WWEOBZZ + WNEOBZZ
WIEOBUS = ΣWIEOBZZ

A combination of geothermal energy (GEEO), wood and waste (WWEO), and wind, photovoltaic, and solar thermal energy sources (WNEO) are shown together in the "Other" column of Tables HL4 and 1. This combined series, GWEO, in billion Btu, is calculated:

GWEOBZZ = GEEOBZZ + WWEOBZZ + WNEOBZZ
GWEOBUS = ΣGWEOBZZ

The variable HYEN represents electricity produced from hydroelectric power at electric utilities plus net imports of electricity across U.S. borders and is shown in the "Hydroelectric Power" column of tables titled, "Estimates of Energy Input at Electric Utilities." This variable is calculated for each State and the United States in million kilowatthours and billion Btu as follows:

HYENPZZ = HYEOPZZ + ELIMPZZ — ELEXPZZ
HYENPUS = ΣHYENPZZ

HYENBZZ = HYEOBZZ + ELIMBZZ — ELEXBZZ
HYENBUS = ΣHYENBZZ

The data series HYICPZZ represents hydroelectric power generated by industrial facilities primarily for their own use and is included in industrial sector consumption. Total hydroelectric power consumption in each State consists of hydroelectric power generated at electric utilities (including net imports of electricity) and the hydroelectric power generated by industrial facilities. Total hydroelectric power consumption given in all tables showing State totals of energy consumption by source is calculated in million kilowatthours and in billion Btu:

HYTCPZZ = HYENPZZ + HYICPZZ
HYTCPUS = ΣHYTCPZZ
HYTCBZZ = HYENBZZ + HYICBZZ
HYTCBUS = ΣHYTCBZZ

Electricity Consumed by the End User

Physical Units

The amount of electricity sold to end users is considered to be the amount of electricity consumed by the end-use sectors. Five electricity sales data series, in physical units of million kilowatthours, and one data series that represents the proportional share of an end-use sector are used to estimate consumption of electricity by end-use sector:

ESRCPZZ = electricity sold to the residential sector of each State;
ESCMPZZ = a portion of the electricity sold to the commercial sector of each State;
ESICPZZ = electricity sold to the industrial sector of each State;

ESOTPZZ = electricity sold to "other" users (i.e., public street and highway lighting, "other" public authorities, railroads and railways, and interdepartmental sales) in each State;
ESTRPZZ = electricity consumed by transit systems, in each State; and
ESTRSUS = the share of electricity sold to the "other" users that is used for transportation.

U.S. totals for the State series are calculated:

ESRCPUS = ΣESRCPZZ
ESCMPUS = ΣESCMPZZ
ESICPUS = ΣESICPZZ
ESOTPUS = ΣESOTPZZ
ESTRPUS = ΣESTRPZZ

The sales of electricity to the residential and industrial sectors are used directly as consumption of electricity by these sectors.

The consumption estimates for the commercial and transportation sectors are made by, first, estimating the portion of sales to the other sector that is used for transportation at the U.S. level, ESACPUS:

ESACPUS = ESOTPUS * ESTRSUS

The transportation share (ESTRSUS) of "other" is calculated at the U.S. level because State information is not available. (See Note 1 at the end of this section for further information on this share.) State transportation use of electricity is then estimated by assuming that each State consumes electricity for transportation in proportion to the amount of electricity consumed by transit systems in each State (see Appendix C for the sources of the transit system estimates):

ESACPZZ = (ESTRPZZ / ESTRPUS) * ESACPUS

The remaining portion of other is then assigned to the commercial sector. The commercial sector consumption of electricity is represented by ESCCPZZ and is calculated:

ESCCPZZ = ESCMPZZ + ESOTPZZ — ESACPZZ
ESCCPUS = ΣESCCPZZ

Total electricity consumed by the major end-use sectors is represented by ESTCPZZ and is calculated by adding the four major sector estimates:

ESTCPZZ = ESRCPZZ + ESCCPZZ + ESICPZZ + ESACPZZ
ESTCPUS = ΣESTCPZZ

British Thermal Units (Btu)

Electricity consumption estimates are converted into Btu by applying a constant factor of 3.412 thousand Btu per kilowatthour:

ESRCBZZ = ESRCPZZ * 3.412
ESCCBZZ = ESCCPZZ * 3.412
ESICBZZ = ESICPZZ * 3.412
ESACBZZ = ESACPZZ * 3.412
ESTCBZZ = ESTCPZZ * 3.412

And U.S. totals are calculated:

ESRCBUS = ΣESRCBZZ
ESCCBUS = ΣESCCBZZ
ESICBUS = ΣESICBZZ
ESACBUS = ΣESACBZZ
ESTCBUS = ΣESTCBZZ

Estimates of Electrical System Energy Losses

British Thermal Units (Btu)

Electrical system energy losses, identified by "LO," include all losses incurred in the generation, transmission, and distribution of electricity, including plant use and unaccounted for quantities. Total losses for the United States, LOTCBUS, is assumed to be the difference between the total of all energy input at electric utilities (TEEUBUS) and the total electricity sold to end users (ESTCBUS). Total losses for the United States is calculated in billion Btu as follows:

LOTCBUS = TEEUBUS — ESTCBUS

The assumption was made that the States of Alaska and Hawaii have no exchanges of electricity with other States. Therefore, the electrical system energy losses for Alaska and Hawaii are each estimated as the difference between the sum of all energy input at electric utilities and the electricity sold in those States:

LOTCBAK = TEEUBAK — ESTCBAK
LOTCBHI = TEEUBHI — ESTCBHI

Individual State electrical system energy losses for the remaining States are estimated by a different method. The difference between each of the contiguous 48 States' (including the District of Columbia) TEEUB series and ESTCB is not only the losses but also any net interstate flow of electricity

that may occur between States. In some cases these net interstate flows are substantial. Therefore, an effort is made to estimate separately each State's losses and net interstate flow. The methodology is to calculate the contiguous-48-State subtotal of losses and subtotal of sales; to create annual losses-to-sales ratios for the aggregate of the 48 States; and to apply the annual losses-to-sales ratios from the total 48 States to the individual 48 States' sales to estimate their losses.

The following steps are performed to complete the losses estimates. A subtotal of losses in the contiguous 48 States, LOTCB48, is created by subtracting the Alaska and Hawaii losses from the total United States' losses:

LOTCB48 = LOTCBUS — (LOTCBAK + LOTCBHI)

A similar subtotal of electricity sales in the 48 States only, ESTCB48, is calculated:

ESTCB48 = ESTCBUS — (ESTCBAK + ESTCBHI)

The losses-to-sales ratio for the contiguous 48 States only, ELLSS48, is calculated:

ELLSS48 = LOTCB48 / ESTCB48

This ratio has remained fairly constant over the 30-year period covered in this report. For 1960, the ratio is 2.5, for 1961 through 1983 the ratios are 2.4, and for 1984 through 1988 the ratios are 2.3. The 1989 losses-to-sales ratio is 2.2.

These U.S. ratios are applied to each State's sales to the major end-use sectors and total sales (temporarily including Alaska, Hawaii, and the 48-State subtotal for processing convenience):

LORCBZZ = ESRCBZZ * ELLSS48
LOCCBZZ = ESCCBZZ * ELLSS48
LOICBZZ = ESICBZZ * ELLSS48
LOACBZZ = ESACBZZ * ELLSS48
LOTCBZZ = ESTCBZZ * ELLSS48

Alaska, Hawaii, and the contiguous 48-State subtotal are recalculated to their original estimates. The end-use losses for Alaska and Hawaii are created in proportion to each sector's share of the State's total electricity sales:

LOTCBAK = TEEUBAK — ESTCBAK
LOTCBHI = TEEUBHI — ESTCBHI
LOTCB48 = LOTCBUS — (LOTCBAK + LOTCBHI)

LORCBAK = (ESRCBAK / ESTCBAK) * LOTCBAK
LOCCBAK = (ESCCBAK / ESTCBAK) * LOTCBAK
LOICBAK = (ESICBAK / ESTCBAK) * LOTCBAK
LOACBAK = (ESACBAK / ESTCBAK) * LOTCBAK

LORCBHI = (ESRCBHI / ESTCBHI) * LOTCBHI
LOCCBHI = (ESCCBHI / ESTCBHI) * LOTCBHI
LOICBHI = (ESICBHI / ESTCBHI) * LOTCBHI
LOACBHI = (ESACBHI / ESTCBHI) * LOTCBHI

Losses for the United States, including Alaska and Hawaii, are the sums of all the States' losses:

LORCBUS = ΣLORCBZZ
LOCCBUS = ΣLOCCBZZ
LOICBUS = ΣLOICBZZ
LOACBUS = ΣLOACBZZ

Physical Units

Estimates of losses in physical units of kilowatthours are made by dividing the Btu estimate by the constant 3.412 thousand Btu per kilowatthour:

LORCPZZ = LORCBZZ / 3.412
LOCCPZZ = LOCCBZZ / 3.412
LOICPZZ = LOICBZZ / 3.412
LOACPZZ = LOACBZZ / 3.412
LOTCPZZ = LOTCBZZ / 3.412
LORCPUS = LORCBUS / 3.412
LOCCPUS = LOCCBUS / 3.412
LOICPUS = LOICBUS / 3.412
LOACPUS = LOACBUS / 3.412
LOTCPUS = LOTCBUS / 3.412

Net Interstate Flow of Electricity

British Thermal Units (Btu)

An estimate of the net interstate flow of electricity is calculated as the difference between the total electricity sales and attributed losses and the total energy input to the electric utilities within each State. The estimated net interstate flow of electricity (ELISB) for each State and the United States is calculated:

ELISBZZ = (ESTCBZZ + LOTCBZZ) — TEEUBZZ
ELISBUS = ΣELISBZZ

Physical Units

Estimates of net interstate flow of electricity in physical units of kilowatthours are calculated by dividing the Btu value by the constant 3.412 thousand Btu per kilowatthour:

ELISPZZ = ELISBZZ / 3.412
ELISPUS = ΣELISPZZ

Positive net interstate flow for a State means that the amount consumed within the State (including attributed losses) is greater than the amount of energy input at electric utilities in the State. That is, the State is using more electricity than it generates and, therefore, is a net buyer from neighboring States.

A negative number indicates that the State's input into its electric utilities is greater than the requirements for electricity within its own borders, and, therefore, it is a net seller of electricity to other States.

Additional Notes on Electricity

1. Annual estimates of the electricity sales to the transportation sector, which are a portion of "other" in the source document, are made using data published in *Financial Statistics of Selected Investor-Owned Electric Utilities,* DOE/EIA-0437. Sales to the "other" category include: (1) public street and highway lighting; (2) sales to other public authorities; (3) railroads and railways; and (4) interdepartmental sales.

   ESTRSUS is the "railroads and railways" share of all four items in the "other" category. The shares used in SEDS are:

Year	ESTRSUS	Year	ESTRSUS	Year	ESTRSUS
1960	0.09967	1970	0.05177	1980	0.04226
1961	0.10461	1971	0.04823	1981	0.03821
1962	0.10506	1972	0.04437	1982	0.03736
1963	0.09294	1973	0.04156	1983	0.03980
1964	0.08859	1974	0.04524	1984	0.04134
1965	0.08345	1975	0.04409	1985	0.04360
1966	0.07785	1976	0.04384	1986	0.04380
1967	0.06762	1977	0.04300	1987	0.04258
1968	0.06000	1978	0.03583	1988	0.04453
1969	0.05352	1979	0.04195	1989	0.04449

2. The source for the electricity sales data for 1960 through 1983 is the Energy Information Administration Form EIA-826 "Electric Utility Company Monthly Statement" and predecessor forms. Electricity sales data for the District of Columbia and Maryland are combined on those forms. Estimates of separate sales for the District of Columbia and Maryland were created by using electricity sales data by end-use sector by communities from the FERC Form 1 "Annual Report of Major Electric Utilities, Licensees, and Others," filed by the Potomac Electric Power Company (PEPCO). PEPCO sales to the District of Columbia were assumed to be total electricity sales in the District of Columbia. The FERC Form 1 electricity sales to the District of Columbia by PEPCO were subtracted from the EIA-826 District of Columbia and Maryland aggregate figures to obtain estimates of Maryland electricity sales by sector. Beginning with 1981 data, electric utilities were no longer required to report sales to specific communities. Therefore, sales data for the District of Columbia for 1981 through 1983 were obtained directly from PEPCO's accounting department.

3. EIA is examining a method to disaggregate the estimates of net interstate sales of electricity and electrical system energy losses as shown in Tables A4 through A7.

   The fuel consumed at electric utilities and the net generation of other energy sources by electric utilities collected by EIA on Form EIA-759, "Monthly Power Plant Report," represent the total energy input at electric utilities, TIEUB, shown in column 1 of Tables A4 through A7. This series is equal to the SEDS series TEEUB, except TEEUB also contains net imports of electricity. The formulas for TIEUB for each State and the United States are:

   TIEUBZZ = PAEUBZZ + NGEUBZZ + CLEUBZZ + HYEOBZZ + NUEOBZZ + GEEOBZZ + WWEOBZZ + WNEOBZZ
   TIEUBUS = ΣTIEUBZZ

   Another series collected on Form EIA-759 is the net generation of electricity by electric utilities (total generation minus plant use). This data series, in thousand kilowatthours, given the variable name ELEOP, represents the energy output of electric utilities. ELEOPZZ is converted to Btu by using the standard conversion factor of 3.412 thousand Btu per kilowatthour:

   ELEOBZZ = ELEOPZZ * 3.412
   ELEOBUS = ΣELEOBZZ

Electricity

Subtracting energy output by electric utilities, ELEOBZZ shown in column 3 of Tables A4 through A7 from energy input at electric utilities, TIEUBZZ, shown in column 1 of those tables, gives an indication of energy losses that occur at electric utility plants, ELPLBZZ, shown in column 2. These losses are primarily energy lost in the conversion of the energy sources to electricity. Plant use of electricity is also included in this number.

ELPLBZZ = TIEUBZZ — ELEOBZZ
ELPLBUS = ΣELPLBZZ

Data for electricity imported or exported across U.S. borders, described earlier in "Electrical Energy Sources," are reported in thousand kilowatt-hours. These data are converted to Btu using the standard conversion factor and are shown in column 4 of Tables A4 through A7. Trade data are added to the net generation of each State involved in international exchanges of electricity to derive electricity transmitted for sale within the United States (shown in column 5 of the following tables).

ELIMBZZ = ELIMPZZ * 3.412
ELEXBZZ = ELEXPZZ * 3.412
ELNIBZZ = ELIMBZZ — ELEXBZZ
ELNIBUS = ΣELNIBZZ

ELENBZZ = ELEOBZZ + ELNIBZZ
ELENBUS = ΣELENBZZ

Total electrical energy lost in the transmission and distribution of electricity is reported by each electric utility. However, some electric utilities distribute electricity to more than one State. The EIA Electric Power Division has estimated these losses by State. The losses in million kilowatthours are converted to billion Btu using the standard conversion factor and are shown in column 6 in the following tables.

ELLOBZZ = ELLOPZZ * 3.412
ELLOBUS = ΣELLOBZZ

Subtracting the State estimates for transmission and distribution losses (column 6) from the electricity transmitted (column 5) yields the electricity available for sale within each State, ELFSBZZ, shown in column 7.

ELFSBZZ = ELENBZZ — ELLOBZZ
ELFSBUS = ΣELFSBZZ

Column 7, electricity available for sale, can be compared to column 8, the actual reported sales to consumers within each State. The sales data are collected on Form EIA-861, "Annual Electric Utility Report," and are currently used in SEDS as variable ESTCBZZ. If column 7, the electricity available for sale, is larger than column 8, the electricity sold, the State would be a supplier of electricity to neighboring States. If the electricity available within the State is less than the amount needed to meet sales demand, the State would need to purchase electricity from other States. Column 9 of Tables A4 through A7 shows the difference between columns 8 and 7 for each State as calculated:

ESISBZZ = ESTCBZZ — ELFSBZZ
ESISBUS = ΣESISBZZ

Negative values in column 9 show the amount of electricity that flowed out of the State. Positive numbers show the amount of electricity that flowed into the State to meet the State's own requirements. For comparison, data in column 10 are the "Net Interstate Flow of Electricity and Associated Losses" (ELISBZZ) series now calculated by SEDS (as described earlier in "Net Interstate Flow of Electricity") and shown in the State tables of this report. Values in Column 9 are estimates of the net interstate flow of electricity alone and would be a subset of the data in column 10, which include electrical system energy losses associated with that flow.

There are some unresolved problems with the separate estimate of electricity flow as shown in Column 9: Alaska and Hawaii appear to have small purchases of electricity from other States, and the total United States appears to have excess electricity. The current methodology used in SEDS avoids these discrepancies as shown in column 10. The U.S. value in column 9 may reflect, at least in part, the electricity that is generated by companies other than electric utilities that would be included in the electricity sales to end users (column 8) but not in the electricity available for sale (column 7). The U.S. value for electricity production by non-electric utilities is shown in the footnotes on Tables A4 through A7.

Comments on these methodologies would be appreciated.

Table A4. Disaggregated Data for Net Interstate Flow of Electricity and Electrical System Energy Losses, 1989
(Billion Btu)

State	(1) Total Energy Input at Electric Utilities (TIEUB)	(2) Electric Utilities Conversion Losses and Plant Use (ELPLB)	(3) Electric Utilities Net Generation (Output) (ELEOB)	(4) Net Imports (ELNIB)	(5) Net Generation Plus Net Imports (ELENB)	(6) Transmission & Distribution Losses (ELLOB)	(7) Electricity for Sale to End Users: (5) — (6) (ELFSB)	(8) Electricity Sold to End Users[1] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) — (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alaska	51,069	36,099	14,970	0	14,970	1,405	13,565	14,131	567	0
Alabama	788,751	523,979	264,772	0	264,772	16,563	248,210	198,535	-49,674	-144,885
Arkansas	355,083	241,123	113,959	0	113,959	7,441	106,518	89,002	-17,516	-66,442
Arizona	563,251	381,987	181,264	-7	181,257	13,482	167,775	139,031	-28,744	-112,342
California	1,481,836	1,030,550	451,286	14,424	465,710	71,806	393,904	696,521	302,617	733,365
Colorado	340,869	230,665	110,205	0	110,205	7,848	102,356	102,834	478	-7,369
Connecticut	363,661	246,710	116,952	777	117,729	6,895	110,834	93,368	-17,466	-63,215
District of Columbia	9,268	7,049	2,219	0	2,219	2,301	-83	32,935	33,018	97,544
Delaware	90,350	61,492	28,858	0	28,858	2,014	26,844	27,519	675	-1,103
Florida	1,286,022	862,066	423,956	0	423,956	38,618	385,338	472,473	87,135	246,246
Georgia	935,725	620,291	315,434	0	315,434	16,940	298,495	262,928	-35,567	-83,030
Hawaii	85,818	58,696	27,122	0	27,122	1,733	25,389	27,195	1,806	0
Iowa	304,927	209,119	95,808	0	95,808	7,438	88,369	97,967	9,597	12,787
Idaho	92,248	61,783	30,465	97	30,562	5,395	25,167	60,806	35,639	104,656
Illinois	1,373,760	940,977	432,783	0	432,783	31,982	400,801	372,935	-27,865	-164,301
Indiana	920,290	618,113	302,176	0	302,176	17,556	284,620	248,703	-35,916	-113,725
Kansas	386,538	269,731	116,807	0	116,807	7,902	108,905	88,105	-20,800	-100,807
Kentucky	716,279	474,846	241,434	0	241,434	10,497	230,937	199,558	-31,379	-69,098
Louisiana	584,500	399,254	185,245	0	185,245	13,584	171,661	211,003	39,342	99,801
Massachusetts	397,729	264,124	133,606	7,027	140,633	12,632	128,001	155,871	27,870	86,495
Maryland	370,883	248,874	122,009	0	122,009	12,358	109,651	168,071	58,419	174,183
Maine	123,649	83,988	39,662	7,101	46,763	2,778	43,985	39,013	-4,972	-18,627
Michigan	932,973	620,713	312,259	-18,514	293,745	22,517	271,228	282,955	11,727	40,732
Minnesota	434,611	296,844	137,767	-1,460	136,307	11,385	124,922	156,719	31,797	78,064
Missouri	615,056	412,444	202,612	0	202,612	16,599	186,013	179,480	-6,533	-32,989
Mississippi	228,746	156,906	71,839	0	71,839	8,639	63,200	100,908	37,708	98,507
Montana	273,872	185,765	88,107	52	88,159	5,753	82,407	44,564	-37,843	-129,504
North Carolina	879,620	582,424	297,196	0	297,196	23,363	273,834	300,970	27,136	96,450
North Dakota	290,260	202,555	87,705	187	87,892	3,390	84,501	24,095	-60,407	-212,685
Nebraska	228,289	156,334	71,955	0	71,955	5,836	66,119	59,938	-6,182	-33,906
New Hampshire	74,507	50,195	24,311	630	24,941	2,770	22,171	31,001	8,830	24,123
New Jersey	449,725	309,341	140,384	0	140,384	17,379	123,005	216,179	93,174	251,362
New Mexico	309,592	212,866	96,726	0	96,726	3,587	93,139	45,618	-47,521	-161,650
Nevada	213,680	146,529	67,151	246	67,396	3,359	64,037	51,071	-12,966	-48,797
New York	1,367,275	922,165	445,110	15,505	460,615	35,682	424,933	437,430	12,498	4,399
Ohio	1,342,346	893,900	448,446	0	448,446	31,504	416,941	483,222	66,281	224,782
Oklahoma	465,316	313,659	151,657	0	151,657	11,128	140,529	126,269	-14,260	-55,814
Oregon	466,835	313,420	153,416	7,272	160,687	12,001	148,686	142,004	-6,682	-28,322
Pennsylvania	1,584,354	1,056,210	528,144	0	528,144	31,657	496,487	388,626	-107,861	-324,008
Rhode Island	6,682	4,989	1,693	326	2,019	1,278	741	21,698	20,957	62,698
South Carolina	701,620	473,069	228,551	0	228,551	12,884	215,667	183,761	-31,906	-105,670
South Dakota	75,662	51,831	23,831	0	23,831	1,969	21,862	21,626	-236	-5,528
Tennessee	750,618	498,270	252,348	0	252,348	16,963	235,385	256,285	20,900	80,535
Texas	2,471,784	1,678,905	792,879	-199	792,680	59,663	733,017	783,601	50,583	70,098
Utah	303,858	199,806	104,052	1	104,052	5,088	98,964	51,059	-47,904	-138,270
Virginia	446,472	298,529	147,943	0	147,943	18,032	129,910	250,650	120,739	366,406
Vermont	50,703	34,459	16,244	6,669	22,913	59	22,854	15,603	-7,251	-20,293
Washington	905,810	608,552	297,257	-2,684	294,573	22,548	272,025	295,733	23,708	61,403
Wisconsin	481,383	330,022	151,361	0	151,361	11,724	139,637	165,059	25,422	53,916
West Virginia	810,371	527,653	282,718	0	282,718	7,223	275,495	77,955	-197,540	-557,555
Wyoming	392,877	267,483	125,394	0	125,394	3,697	121,697	38,329	-83,368	-268,572
United States	**29,177,402**	**19,677,356**	**9,500,047**	**37,450**	**9,537,496**	**716,846**	**8,820,650**	**9,030,913**	**210,263**	

[1] Includes electricity generated by non-electric utility producers. The U.S. total electricity purchased from non-electric utilities for distribution in 1989 was 306,441 billion Btu.

Electricity

Table A5. Disaggregated Data for Net Interstate Flow of Electricity and Electrical System Energy Losses, 1988

(Billion Btu)

State	(1) Total Energy Input at Electric Utilities (TIEUB)	(2) Electric Utilities Conversion Losses and Plant Use (ELPLB)	(3) Electric Utilities Net Generation (Output) (ELEOB)	(4) Net Imports (ELNIB)	(5) Net Generation Plus Net Imports (ELENB)	(6) Transmission & Distribution Losses (ELLOB)	(7) Electricity for Sale to End Users: (5) — (6) (ELFSB)	(8) Electricity Sold to End Users[1] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) — (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alaska	49,089	34,777	14,313	0	14,313	1,292	13,020	13,801	781	0
Alabama	684,595	454,223	230,372	0	230,372	14,771	215,601	193,247	-22,354	-54,938
Arkansas	361,441	246,239	115,202	0	115,202	7,543	107,659	85,889	-21,770	-81,590
Arizona	650,209	440,158	210,051	-6	210,044	13,429	196,615	132,783	-63,833	-217,545
California	1,437,486	1,007,639	429,848	24,859	454,707	74,441	380,266	684,574	304,308	718,490
Colorado	328,682	223,269	105,414	0	105,414	7,588	97,826	100,091	2,265	-2,556
Connecticut	384,766	260,643	124,124	2,313	126,436	7,213	119,223	91,862	-27,361	-92,390
District of Columbia	6,842	5,243	1,600	0	1,600	1,978	-378	32,003	32,382	97,433
Delaware	94,795	64,249	30,546	0	30,546	1,673	28,873	25,738	-3,135	-10,933
Florida	1,279,161	855,891	423,270	0	423,270	32,120	391,150	444,382	53,232	168,768
Georgia	833,354	552,291	281,063	0	281,063	15,297	265,766	253,669	-12,097	-6,823
Hawaii	81,908	55,883	26,025	0	26,025	1,627	24,398	26,337	1,939	0
Iowa	304,375	209,762	94,613	0	94,613	7,652	86,961	98,394	11,433	16,222
Idaho	69,043	46,027	23,016	342	23,359	5,131	18,227	58,568	40,341	120,763
Illinois	1,332,743	911,908	420,835	0	420,835	31,030	389,805	375,459	-14,346	-109,384
Indiana	880,159	593,709	286,450	0	286,450	17,452	268,998	244,557	-24,441	-83,320
Kansas	356,740	249,653	107,087	0	107,087	7,728	99,359	88,128	-11,231	-69,594
Kentucky	760,039	499,239	260,800	0	260,800	10,475	250,325	184,515	-65,810	-158,834
Louisiana	614,573	420,861	193,711	0	193,711	12,686	181,026	204,757	23,731	52,586
Massachusetts	347,391	229,116	118,274	9,798	128,072	11,881	116,191	152,608	36,417	120,461
Maryland	418,121	280,329	137,792	0	137,792	11,647	126,145	162,288	36,143	110,663
Maine	100,775	68,259	32,516	11,559	44,075	2,582	41,493	38,432	-3,061	-10,224
Michigan	912,741	609,524	303,218	561	303,779	23,016	280,762	281,548	786	2,944
Minnesota	430,201	292,861	137,340	-5,695	131,645	11,248	120,397	156,022	35,625	95,249
Missouri	621,873	418,041	203,832	0	203,832	16,298	187,534	178,267	-9,267	-41,026
Mississippi	267,440	181,824	85,616	0	85,616	8,436	77,180	95,807	18,628	44,729
Montana	262,974	178,284	84,690	10	84,699	5,460	79,239	44,156	-35,082	-119,128
North Carolina	793,288	525,768	267,521	0	267,521	21,020	246,501	291,863	45,363	157,690
North Dakota	305,113	211,791	93,323	1,329	94,652	3,454	91,198	24,248	-66,950	-230,092
Nebraska	223,480	153,073	70,407	0	70,407	5,769	64,638	58,886	-5,752	-31,611
New Hampshire	72,993	49,118	23,875	2,459	26,334	2,596	23,739	30,190	6,451	17,997
New Jersey	438,123	301,098	137,025	0	137,025	17,999	119,026	211,925	92,899	252,392
New Mexico	288,152	198,180	89,972	0	89,972	3,862	86,109	43,521	-42,588	-146,347
Nevada	218,920	149,669	69,250	0	69,250	3,532	65,718	46,691	-19,027	-66,787
New York	1,298,833	873,309	425,523	41,604	467,128	32,992	434,136	428,694	-5,442	-26,820
Ohio	1,266,031	842,827	423,205	0	423,205	30,553	392,652	458,286	65,635	227,203
Oklahoma	462,686	312,437	150,249	0	150,249	9,803	140,446	127,356	-13,090	-47,721
Oregon	423,721	283,666	140,055	5,578	145,633	11,498	134,135	134,133	-2	-3,406
Pennsylvania	1,559,181	1,037,375	521,806	0	521,806	31,674	490,132	385,186	-104,946	-304,130
Rhode Island	9,841	7,234	2,607	2,313	4,919	1,436	3,483	21,221	17,738	52,367
South Carolina	681,242	458,839	222,403	0	222,403	11,830	210,573	180,183	-30,390	-94,152
South Dakota	84,618	57,712	26,906	0	26,906	1,920	24,986	21,273	-3,714	-15,305
Tennessee	597,794	393,560	204,234	0	204,234	16,346	187,889	248,639	60,750	212,346
Texas	2,350,973	1,596,308	754,665	-108	754,556	52,489	702,068	765,468	63,401	143,476
Utah	298,829	197,707	101,122	0	101,122	3,958	97,164	49,496	-47,668	-137,554
Virginia	468,971	314,845	154,126	0	154,126	16,979	137,146	239,233	102,086	310,521
Vermont	53,940	36,713	17,227	9,624	26,851	1,950	24,902	15,067	-9,835	-33,717
Washington	861,413	576,193	285,220	1,859	287,079	21,396	265,683	289,448	23,765	76,120
Wisconsin	487,758	334,208	153,550	0	153,550	11,421	142,129	163,318	21,189	44,381
West Virginia	796,052	518,608	277,444	0	277,444	7,288	270,157	76,388	-193,769	-547,158
Wyoming	421,589	288,018	133,571	0	133,571	3,743	129,828	37,410	-92,418	-299,695
United States	**28,335,059**	**19,108,158**	**9,226,901**	**108,399**	**9,335,300**	**687,201**	**8,648,099**	**8,796,008**	**147,910**	

[1] Includes electricity generated by non-electric utility producers. The U.S. total electricity purchased from non-electric utilities for distribution in 1988 was 232,118 billion Btu.

Table A6. Disaggregated Data for Net Interstate Flow of Electricity and Electrical System Energy Losses, 1987
(Billion Btu)

State	(1) Total Energy Input at Electric Utilities (TIEUB)	(2) Electric Utilities Conversion Losses and Plant Use (ELPLB)	(3) Electric Utilities Net Generation (Output) (ELEOB)	(4) Net Imports (ELNIB)	(5) Net Generation Plus Net Imports (ELENB)	(6) Transmission & Distribution Losses (ELLOB)	(7) Electricity for Sale to End Users: (5) — (6) (ELFSB)	(8) Electricity Sold to End Users[1] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) — (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alaska	48,353	34,288	14,066	0	14,066	1,377	12,689	13,520	831	0
Alabama	706,607	470,031	236,575	0	236,575	10,820	225,755	186,646	-39,110	-94,591
Arkansas	384,572	260,761	123,811	0	123,811	7,387	116,423	82,557	-33,866	-113,865
Arizona	548,503	372,443	176,061	-5	176,055	12,963	163,093	125,012	-38,081	-138,571
California	1,495,783	1,051,049	444,733	26,421	471,154	72,843	398,312	657,833	259,522	581,872
Colorado	307,875	209,576	98,299	0	98,299	7,360	90,939	95,778	4,839	6,184
Connecticut	351,894	238,709	113,185	1,961	115,146	6,495	108,651	87,761	-20,890	-70,016
District of Columbia	3,837	3,041	796	0	796	1,863	-1,066	30,733	31,799	96,937
Delaware	90,645	61,606	29,039	0	29,039	1,664	27,375	23,936	-3,438	-12,157
Florida	1,153,364	775,434	377,930	0	377,930	32,592	345,337	417,862	72,525	216,816
Georgia	860,077	567,308	292,769	0	292,769	16,378	276,391	244,571	-31,820	-58,123
Hawaii	76,613	52,058	24,555	0	24,555	1,558	22,997	24,901	1,905	0
Iowa	279,674	192,500	87,174	0	87,174	7,292	79,882	92,212	12,331	22,692
Idaho	83,104	55,449	27,655	140	27,795	5,296	22,499	54,953	32,453	96,665
Illinois	1,186,115	811,179	374,936	0	374,936	29,355	345,581	357,540	11,959	-13,735
Indiana	814,961	546,863	268,099	0	268,099	16,507	251,592	230,733	-20,859	-58,383
Kansas	348,548	243,383	105,165	0	105,165	7,475	97,690	83,356	-14,334	-75,221
Kentucky	688,744	458,592	230,152	0	230,152	8,753	221,399	173,285	-48,114	-120,541
Louisiana	554,709	379,643	175,066	0	175,066	12,375	162,691	201,840	39,149	107,128
Massachusetts	348,207	229,692	118,515	16,532	135,047	10,836	124,211	144,610	20,399	76,296
Maryland	378,537	254,851	123,687	0	123,687	10,193	113,494	153,226	39,732	123,894
Maine	88,365	59,889	28,477	12,777	41,254	2,536	38,718	36,570	-2,147	-6,845
Michigan	886,108	589,145	296,962	2,627	299,590	20,822	278,768	269,479	-9,288	-10,375
Minnesota	374,522	257,130	117,392	6,623	124,015	10,025	113,990	142,538	28,548	72,960
Missouri	573,026	385,070	187,956	0	187,956	15,144	172,812	171,011	-1,801	-12,278
Mississippi	242,219	165,833	76,386	0	76,386	7,214	69,172	92,758	23,586	61,936
Montana	222,203	150,945	71,258		71,344	5,424	65,921	42,387	-23,534	-83,475
North Carolina	797,295	528,343	268,952	0	268,952	18,547	250,405	281,864	31,459	126,944
North Dakota	250,800	173,621	77,179	4,718	81,897	2,959	78,938	22,509	-56,429	-191,170
Nebraska	221,460	151,552	69,909	0	69,909	5,217	64,691	55,222	-9,469	-40,385
New Hampshire	62,888	42,263	20,625	3,791	24,416	2,555	21,861	28,570	6,709	19,401
New Jersey	435,898	301,723	134,174	0	134,174	16,917	117,257	200,441	83,184	221,353
New Mexico	280,634	193,339	87,296	0	87,296	4,146	83,149	42,077	-41,072	-142,661
Nevada	188,319	128,808	59,511	67	59,578	3,270	56,308	43,515	-12,793	-45,832
New York	1,237,841	836,486	401,354	52,754	454,109	35,922	418,187	405,924	-12,263	-65,334
Ohio	1,222,690	814,407	408,283	0	408,283	30,332	377,951	444,865	66,915	236,033
Oklahoma	455,023	309,204	145,819	0	145,819	9,339	136,480	123,161	-13,319	-51,175
Oregon	410,136	274,545	135,591	17,938	153,530	11,718	141,811	128,677	-13,135	-42,108
Pennsylvania	1,487,865	991,887	495,977	0	495,977	28,729	467,248	365,563	-101,685	-289,175
Rhode Island	10,720	7,865	2,855	29	2,884	1,384	1,500	20,274	18,774	55,671
South Carolina	674,916	455,148	219,769	0	219,769	11,059	208,709	177,310	-31,399	-93,514
South Dakota	65,602	44,224	21,378	0	21,378	1,679	19,699	19,485	-213	-1,709
Tennessee	573,538	374,577	198,962	0	198,962	12,548	186,413	237,920	51,507	206,606
Texas	2,258,936	1,533,477	725,459	-135	725,324	51,417	673,907	737,219	63,312	158,826
Utah	273,314	183,421	89,893	127	90,020	3,528	86,492	45,711	-40,781	-123,810
Virginia	447,012	301,331	145,682	0	145,682	15,735	129,947	228,083	98,136	300,875
Vermont	49,604	33,792	15,812	7,771	23,582	2,048	21,534	13,979	-7,556	-27,119
Washington	866,585	580,811	285,774	3,877	289,652	23,010	266,642	263,005	-3,637	-15,838
Wisconsin	478,724	328,492	150,232	0	150,232	10,972	139,260	153,459	14,200	24,472
West Virginia	766,949	499,543	267,406	0	267,406	6,616	260,790	71,907	-188,882	-531,163
Wyoming	402,010	274,502	127,508	0	127,508	3,311	124,197	35,861	-88,336	-284,422
United States	**27,015,925**	**18,239,829**	**8,776,096**	**158,101**	**8,934,197**	**655,509**	**8,278,688**	**8,384,213**	**105,525**	

[1] Includes electricity generated by non-electric utility producers. The U.S. total electricity purchased from non-electric utilities for distribution in 1987 was 171,163 billion Btu.

Electricity

Table A7. Disaggregated Data for Net Interstate Flow of Electricity and Electrical System Energy Losses, 1986
(Billion Btu)

State	(1) Total Energy Input at Electric Utilities (TIEUB)	(2) Electric Utilities Conversion Losses and Plant Use (ELPLB)	(3) Electric Utilities Net Generation (Output) (ELEOB)	(4) Net Imports (ELNIB)	(5) Net Generation Plus Net Imports (ELENB)	(6) Transmission & Distribution Losses (ELLOB)	(7) Electricity for Sale to End Users: (5) — (6) (ELFSB)	(8) Electricity Sold to End Users[1] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) — (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alaska	53,088	38,581	14,507	0	14,507	1,161	13,346	13,812	466	0
Alabama	701,986	468,009	233,977	0	233,977	14,600	219,377	176,049	-43,328	-122,300
Arkansas	371,854	251,975	119,879	0	119,879	8,031	111,848	78,244	-33,605	-114,216
Arizona	538,943	364,333	174,610	-5	174,605	11,937	162,668	115,957	-46,711	-157,109
California	1,423,907	1,008,102	415,804	12,899	428,703	66,728	361,975	632,650	270,675	620,468
Colorado	305,507	209,010	96,497	0	96,497	6,891	89,606	92,673	3,068	-356
Connecticut	342,050	232,225	109,824	1,468	111,293	6,303	104,990	83,681	-21,308	-70,922
District of Columbia	2,948	2,385	563	0	563	1,625	-1,062	29,303	30,365	93,541
Delaware	89,237	60,541	28,697	0	28,697	1,578	27,119	23,284	-3,834	-12,567
Florida	1,127,673	757,592	370,081	0	370,081	26,846	343,235	398,095	54,859	183,158
Georgia	756,270	500,679	255,591	0	255,591	15,059	240,531	233,688	-6,843	13,210
Hawaii	72,882	49,482	23,401	0	23,401	1,456	21,945	23,994	2,049	0
Iowa	266,079	183,725	82,354	0	82,354	6,833	75,521	89,925	14,404	30,023
Idaho	124,708	83,240	41,467	0	41,467	4,660	36,807	53,879	17,072	52,703
Illinois	1,146,584	781,870	364,714	0	364,714	26,234	338,480	347,197	8,717	-3,348
Indiana	806,458	542,568	263,891	0	263,891	15,715	248,175	219,701	-28,474	-83,035
Kansas	336,985	236,225	100,760	0	100,760	7,177	93,582	81,323	-12,259	-69,207
Kentucky	687,512	459,198	228,315	0	228,315	9,304	219,011	169,561	-49,449	-129,187
Louisiana	564,528	384,226	180,302	0	180,302	12,485	167,817	202,305	34,488	101,615
Massachusetts	347,357	229,708	117,649	12,378	130,027	9,986	120,040	136,624	16,584	65,290
Maryland	393,601	264,858	128,743	0	128,743	9,583	119,160	143,170	24,009	77,822
Maine	115,867	78,709	37,158	8,785	45,943	2,509	43,434	34,813	-8,622	-27,656
Michigan	786,979	527,461	259,519	2,347	261,866	19,643	242,223	260,174	17,951	62,654
Minnesota	308,512	211,607	96,905	23,407	120,312	9,924	110,388	132,160	21,771	56,265
Missouri	571,393	386,458	184,934	0	184,934	14,455	170,479	164,710	-5,770	-29,044
Mississippi	205,375	140,617	64,758	0	64,758	7,704	57,054	90,527	33,473	92,709
Montana	239,860	163,266	76,594	-9	76,585	6,468	70,116	47,154	-22,963	-84,567
North Carolina	763,863	501,831	262,032	0	262,032	18,755	243,278	264,210	20,933	106,118
North Dakota	251,716	176,030	75,686	3,334	79,020	2,883	76,138	23,368	-52,770	-184,798
Nebraska	205,800	141,520	64,279	0	64,279	5,325	58,955	54,182	-4,773	-27,392
New Hampshire	64,705	43,831	20,874	2,838	23,713	2,419	21,294	26,859	5,566	15,200
New Jersey	321,929	223,724	98,205	0	98,205	15,061	83,144	191,047	107,902	307,142
New Mexico	262,689	182,164	80,526	0	80,526	3,964	76,561	40,606	-35,955	-128,984
Nevada	216,334	148,579	67,756	0	67,756	3,035	64,721	39,764	-24,956	-85,401
New York	1,175,048	795,310	379,738	52,756	432,494	33,409	399,085	392,067	-7,018	-42,718
Ohio	1,147,181	766,720	380,460	0	380,460	29,301	351,160	423,903	72,743	248,630
Oklahoma	438,191	298,048	140,143	0	140,143	9,873	130,270	122,010	-8,260	-36,440
Oregon	494,559	331,534	163,026	4,520	167,546	9,407	158,139	119,646	-38,492	-114,186
Pennsylvania	1,534,938	1,031,376	503,563	0	503,563	26,296	477,266	349,823	-127,443	-383,054
Rhode Island	9,333	6,863	2,470	22	2,492	1,257	1,235	19,303	18,068	54,161
South Carolina	596,274	403,338	192,936	0	192,936	10,036	182,900	168,667	-14,233	-40,894
South Dakota	83,364	56,723	26,640	0	26,640	1,702	24,938	19,358	-5,580	-19,621
Tennessee	556,223	363,598	192,624	0	192,624	14,344	178,280	231,360	53,080	205,590
Texas	2,264,225	1,537,979	726,246	-36	726,210	50,065	676,145	727,676	51,531	131,945
Utah	174,398	117,011	57,387	0	57,387	3,393	53,994	44,320	-9,674	-28,463
Virginia	450,031	304,534	145,497	0	145,497	12,248	133,249	215,861	82,612	260,748
Vermont	33,677	22,933	10,744	5,701	16,446	2,229	14,217	12,717	-1,499	-8,948
Washington	956,155	640,436	315,720	-7,924	307,796	18,070	289,726	257,168	-32,558	-85,533
Wisconsin	468,339	322,356	145,982	0	145,982	11,511	134,471	159,289	24,817	56,161
West Virginia	772,243	507,746	264,497	0	264,497	6,398	258,099	70,297	-187,802	-540,772
Wyoming	316,449	218,274	98,176	0	98,176	3,059	95,117	34,029	-61,088	-204,400
United States	**26,245,806**	**17,759,104**	**8,486,701**	**122,481**	**8,609,182**	**618,934**	**7,990,248**	**8,082,185**	**91,937**	

[1] Includes electricity generated by non-electric utility producers. The U.S. total electricity purchased from non-electric utilities for distribution in 1986 was 136,337 billion Btu.

Section 6. Total Energy

Total Energy Consumed

The preceding sections of this documentation describe how State end-use consumption estimates are made by individual energy source. This section describes how all energy sources are added in Btu to create total energy consumption estimates. Due to the lack of consistent historical data, total energy consumed excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, except for small amounts used by electric utilities to generate electricity for distribution. In 1989, non-electric utility consumption of wood energy was estimated to be 2.5 quadrillion Btu.

The total energy series for the residential sector by State ("ZZ" in the variable name represents the two-letter State code that differs for each State) and for the United States are calculated:

TERCBZZ = PARCBZZ + NGRCBZZ + CLRCBZZ + ESRCBZZ + LORCBZZ
TERCBUS = PARCBUS + NGRCBUS + CLRCBUS + ESRCBUS + LORCBUS

For the commercial sector, the calculations are:

TECCBZZ = PACCBZZ + NGCCBZZ + CLCCBZZ + ESCCBZZ + LOCCBZZ
TECCBUS = PACCBUS + NGCCBUS + CLCCBUS + ESCCBUS + LOCCBUS

For the industrial sector, the calculations are:

TEICBZZ = PAICBZZ + NGICBZZ + CLICBZZ + ESICBZZ + LOICBZZ + HYICBZZ
TEICBUS = PAICBUS + NGICBUS + CLICBUS + ESICBUS + LOICBUS + HYICBUS + CCNIBUS

The industrial sector includes some hydroelectricity generated at industrial sites as well as some share of the total hydroelectricity generated at electric utilities (which are incorporated into the "ES" and "LO" series). The industrial sector also includes net imports of coal coke (CCNIBUS) in the U.S. total but not in the individual State estimates as no reliable means of allocating the U.S. amount to the States has been developed.

For the transportation sector, the calculations are:

TEACBZZ = PAACBZZ + NGACBZZ + CLACBZZ + ESACBZZ + LOACBZZ
TEACBUS = PAACBUS + NGACBUS + CLACBUS + ESACBUS + LOACBUS

Total energy consumed by all sectors is the sum of the consumption by the four major sectors:

TETCBZZ = TERCBZZ + TECCBZZ + TEICBZZ + TEACBZZ
TETCBUS = TERCBUS + TECCBUS + TEICBUS + TEACBUS

Total Net Energy Consumed

A set of totals is calculated for estimating the four major end-use sectors' consumption without each sector's share of electrical system energy losses (including plant use and unaccounted for quantities) incurred in the generation, transmission, and distribution of electricity. This series is total net energy consumed and is represented by "TN."

Total net energy consumed by the residential sector is calculated:

TNRCBZZ = TERCBZZ — LORCBZZ
TNRCBUS = TERCBUS — LORCBUS

Total net energy consumed by the commercial sector is calculated:

TNCCBZZ = TECCBZZ — LOCCBZZ
TNCCBUS = TECCBUS — LOCCBUS

Total net energy consumed by the industrial sector is calculated:

TNICBZZ = TEICBZZ — LOICBZZ
TNICBUS = TEICBUS — LOICBUS

Total net energy consumed by the transportation sector is calculated:

TNACBZZ = TEACBZZ — LOACBZZ
TNACBUS = TEACBUS — LOACBUS

Total Energy Consumed per Capita

The energy consumed per person residing in each State and in the United States is estimated by dividing the total energy series ("TE") by the resident population as published by the U.S. Department of Commerce, Bureau of the Census. The U.S. total population published by the Bureau of the Census is based on unrounded numbers that are not available by State so that the sum of the States' population does not equal the U.S. total. Therefore, the U.S. total population is input to SEDS instead of being calculated as the sum of the States' values. The Bureau of the Census series are estimated, in thousands of people, as of July 1 of each year, except in 1960, 1970, and 1980 when the April 1 census data were used. The variable names for the series are:

TPOPPZZ = The resident population of each State; and
TPOPPUS = The resident population of the United States.

Estimated energy consumption per capita for each State and the United States, in million Btu, is represented by "TETP" and calculated:

TETPBZZ = TETCBZZ / TPOPPZZ
TETPBUS = TETCBUS / TPOPPUS

The residential sector's energy consumption per capita is estimated:

TERPBZZ = TERCBZZ / TPOPPZZ
TERPBUS = TERCBUS / TPOPPUS

The commercial sector's energy consumption per capita is estimated:

TECPBZZ = TECCBZZ / TPOPPZZ
TECPBUS = TECCBUS / TPOPPUS

The industrial sector's energy consumption per capita is estimated:

TEIPBZZ = TEICBZZ / TPOPPZZ
TEIPBUS = TEICBUS / TPOPPUS

The transportation sector's energy consumption per capita is estimated:

TEAPBZZ = TEACBZZ / TPOPPZZ
TEAPBUS = TEACBUS / TPOPPUS

Appendix B

State Energy Data System Variables

This is an alphabetical listing of all the variable names used in the State Energy Data System (SEDS). Provided for each variable on the system are: a brief description of the variable; units of the variable as found in SEDS; and the formulas used in SEDS to create the variable. If a variable is not one created by SEDS but is entered into the system, it is described as an independent variable. Formulas are provided for the State calculations ("ZZ" in the variable name would be replaced by the two-letter code for each State) and for the U.S. calculation (wherever appropriate).

Variables in the SEDS have seven-letter names that consist of the following components:

Character Positions:	**1 and 2**	**3 and 4**	**5**	**6 and 7**
Identify:	Type of energy	Energy activity or consumption end-use sector	Type of data	Geographic area

Characters 1 through 4 are explained in the description of each variable.

Character 5 is always one of the following:

B = Data in British thermal units (Btu)
K = Factor for converting data from physical units to Btu
M = Data in alternative physical units
P = Data in standardized physical units
S = Share or ratio expressed as a fraction
V = Value added in manufacture

Characters 6 and 7 are two-letter U.S. Postal Service codes for the 50 States and the District of Columbia (represented by "ZZ" in the following variable names), and the United States ("US"). In this system, the United States means the 50 States and the District of Columbia. Some estimates of electricity sales and losses are derived by using only the contiguous 48 States and the District of Columbia. The variables used in those calculations are identified by "48" as characters 6 and 7 in the variable names.

Appendix B

State Energy Data System Variables

This is an alphabetical listing of all the variable names used in the State Energy Data System (SEDS). Provided for each variable on the system are: a brief description of the variable; units of the variable as found in SEDS; and the formulas used in SEDS to create the variable. If a variable is not one created by SEDS but is entered into the system, it is described as an independent variable. Formulas are provided for the State calculations ("ZZ" in the variable name would be replaced by the two-letter code for each State) and for the U.S. calculation (wherever appropriate).

Variables in the SEDS have seven-letter names that consist of the following components:

Character Positions:	**1 and 2**	**3 and 4**	**5**	**6 and 7**
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Characters 1 through 4 are explained in the description of each variable.

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Characters 6 and 7 are two-letter U.S. Postal Service codes for the 50 States and the District of Columbia (represented by "ZZ" in the following variable names), and the United States ("US"). In this system, the United States means the 50 States and the District of Columbia. Some estimates of electricity sales and losses are derived by using only the contiguous 48 States and the District of Columbia. The variables used in those calculations are identified by "48" as characters 6 and 7 in the variable names.

State Energy Data System Variables

Variable	Description	Units	Formulas
ABICB	Aviation gasoline blending components total consumed by the industrial sector.	Billion Btu	ABICBZZ = ABTCBZZ ABICBUS = ABTCBUS
ABICP	Aviation gasoline blending components total consumed by the industrial sector.	Thousand barrels	ABICPZZ = ABTCPZZ ABICPUS = ABTCPUS
ABTCB	Aviation gasoline blending components total consumed.	Billion Btu	ABTCBZZ = ABTCPZZ * 5.048 ABTCBUS = ΣABTCBZZ
ABTCP	Aviation gasoline blending components total consumed.	Thousand barrels	ABTCPZZ = (COCAPZZ / COCAPUS) * ABTCPUS ABTCPUS is independent.
ACCCB	Anthracite consumed by the commercial sector.	Billion Btu	ACCCBZZ = ACCCPZZ * ACNUKUS ACCCBUS = ΣACCCBZZ
ACCCP	Anthracite consumed by the commercial sector.	Thousand short tons	ACCCPZZ = ACHCPZZ * 0.40 ACCCPUS = ΣACCCPZZ
ACEUB	Anthracite consumed by the electric utilities.	Billion Btu	ACEUBZZ = ACEUPZZ * ACEUKUS ACEUBUS = ΣACEUBZZ
ACEUKUS	Factor for converting anthracite consumed by the electric utilities from physical units to Btu.	Million Btu per short ton	ACEUKUS is independent.
ACEUP	Anthracite consumed by the electric utilities.	Thousand short tons	ACEUPZZ is independent. ACEUPUS = ΣACEUPZZ
ACHCP	Anthracite consumed by the residential and commercial sectors.	Thousand short tons	ACHCPZZ = (ACHDPZZ / ACHDPUS) * ACHCPUS ACHCPUS is independent.
ACHDP	Anthracite distributed to the residential and commercial sectors.	Thousand short tons	ACHDPZZ = is independent. ACHDPUS = ΣACHDPZZ
ACICB	Anthracite consumed by the industrial sector.	Billion Btu	ACICBZZ = ACKCBZZ + ACOCBZZ ACICBUS = ΣACICBZZ
ACICP	Anthracite consumed by the industrial sector.	Thousand short tons	ACICPZZ = ACKCPZZ + ACOCPZZ ACICPUS = ΣACICPZZ

Variable	Description	Units	Formulas
ACKCB	Anthracite consumed at coke plants.	Billion Btu	ACKCBZZ = ACKCPZZ * ACNUKUS ACKCBUS = ΣACKCBZZ
ACKCP	Anthracite consumed at coke plants.	Thousand short tons	ACKCPZZ = (ACKDPZZ / ACKDPUS) * ACKCPUS ACKCPUS is independent.
ACKDP	Anthracite distributed to coke plants.	Thousand short tons	ACKDPZZ is independent. ACKDPUS = ΣACKDPZZ
ACNUKUS	Factor for converting anthracite consumed by the non-electric utility sectors from physical units to Btu.	Million Btu per short ton	ACNUKUS is independent.
ACOCB	Anthracite consumed by other industrial users.	Billion Btu	ACOCBZZ = ACOCPZZ * ACNUKUS ACOCBUS = ΣACOCBZZ
ACOCP	Anthracite consumed by other industrial users.	Thousand short tons	ACOCPZZ = (ACODPZZ / ACODPUS) * ACOCPUS ACOCPUS is independent.
ACODP	Anthracite distributed to other industrial users.	Thousand short tons	ACODPZZ is independent. ACODPUS = ΣACODPZZ
ACRCB	Anthracite consumed by the residential sector.	Billion Btu	ACRCBZZ = ACRCPZZ * ACNUKUS ACRCBUS = ΣACRCBZZ
ACRCP	Anthracite consumed by the residential sector.	Thousand short tons	ACRCPZZ = ACHCPZZ * 0.60 ACRCPUS = ΣACRCPZZ
ACTCB	Anthracite total consumed.	Billion Btu	ACTCBZZ = ACRCBZZ + ACCCBZZ + ACICBZZ + ACEUBZZ ACTCBUS = ΣACTCBZZ
ACTCP	Anthracite total consumed.	Thousand short tons	ACTCPZZ = ACRCPZZ + ACCCPZZ + ACICPZZ + ACEUPZZ ACTCPUS = ΣACTCPZZ
AICAP	Aluminum ingot production capacity.	Short tons	AICAPZZ is independent. AICAPUS = ΣAICAPZZ

State Energy Data System Variables

Variable	Description	Units	Formulas
ARICB	Asphalt and road oil consumed by the industrial sector.	Billion Btu	ARICBZZ = ARICPZZ * 6.636 ARICBUS = ΣARICBZZ
ARICP	Asphalt and road oil consumed by the industrial sector.	Thousand barrels	ARICPZZ = ASICPZZ + RDICPZZ ARICPUS = ΣARICPZZ
ARTCB	Asphalt and road oil total consumed.	Billion Btu	ARTCBZZ = ARICBZZ ARTCBUS = ARICBUS
ARTCP	Asphalt and road oil total consumed.	Thousand barrels	ARTCPZZ = ASTCPZZ + RDTCPZZ ARTCPUS = ΣARTCPZZ
ASICP	Asphalt consumed by the industrial sector. Beginning in 1983, it includes road oil.	Thousand barrels	ASICPZZ = (ASINPZZ / ASINPUS) * ASTCPUS ASICPUS = ΣASICPZZ
ASINP	Asphalt sold to the industrial sector.	Short tons	ASINPZZ is independent. ASINPUS = ΣASINPZZ
ASTCP	Asphalt total consumed. Beginning in 1983, it includes road oil.	Thousand barrels	ASTCPZZ = ASICPZZ ASTCPUS is independent.
AVACB	Aviation gasoline consumed by the transportation sector.	Billion Btu	AVACBZZ = AVACPZZ * 5.048 AVACBUS = ΣAVACBZZ
AVACP	Aviation gasoline consumed by the transportation sector.	Thousand barrels	AVACPZZ = (AVTTPZZ / AVTTPUS) * AVTCPUS AVACPUS = ΣAVACPZZ
AVMIP	Aviation gasoline issued to the military.	Thousand barrels	AVMIPZZ is independent. AVMIPUS = ΣAVMIPZZ
AVNMM	Aviation gasoline sold to nonmilitary users.	Thousand gallons	AVNMMZZ is independent. AVNMMUS = ΣAVNMMZZ
AVNMP	Aviation gasoline sold to nonmilitary users.	Thousand barrels	AVNMPZZ = AVNMMZZ / 42 AVNMPUS = ΣAVNMPZZ
AVTCB	Aviation gasoline total consumed.	Billion Btu	AVTCBZZ = AVACBZZ AVTCBUS = AVACBUS

Variable	Description	Units	Formulas
AVTCP	Aviation gasoline total consumed.	Thousand barrels	AVTCPZZ = AVACPZZ AVTCPUS is independent.
AVTTP	Aviation gasoline total sales to the transportation sector.	Thousand barrels	AVTTPZZ = AVNMPZZ + AVMIPZZ AVTTPUS = ΣAVTTPZZ
BCACB	Bituminous coal and lignite consumed by the transportation sector.	Billion Btu	BCACBZZ = BCACPZZ * BCOCKZZ BCACBUS = ΣBCACBZZ
BCACP	Bituminous coal and lignite consumed by the transportation sector.	Thousand short tons	BCACPZZ = (BCICPZZ / BCICPUS) * BCACPUS BCACPUS is independent.
BCCCB	Bituminous coal and lignite consumed by the commercial sector.	Billion Btu	BCCCBZZ = BCCCPZZ * BCHCKZZ BCCCBUS = ΣBCCCBZZ
BCCCP	Bituminous coal and lignite consumed by the commercial sector.	Thousand short tons	BCCCPZZ = BCHCPZZ * 0.65 BCCCPUS = ΣBCCCPZZ
BCEUB	Bituminous coal and lignite consumed by the electric utilities.	Billion Btu	BCEUBZZ = BCEUPZZ * BCEUKZZ BCEUBUS = ΣBCEUBZZ
BCEUKZZ	Factor for converting bituminous coal and lignite consumed by the electric utilities from physical units to Btu.	Million Btu per short ton	BCEUKZZ is independent.
BCEUP	Bituminous coal and lignite consumed by the electric utilities.	Thousand short tons	BCEUPZZ is independent. BCEUPUS = ΣBCEUPZZ
BCHCKZZ	The factor for converting bituminous coal and lignite consumed by the residential and commercial sectors from physical units to Btu.	Million Btu per short ton	BCHCKZZ is independent.
BCHCP	Bituminous coal and lignite consumed by the residential and commercial sectors.	Thousand short tons	BCHCPZZ = (BCHDPZZ / BCHDPUS) * BCHCPUS BCHCPUS is independent.
BCHDP	Bituminous coal and lignite distributed to the residential and commercial sectors.	Thousand short tons	BCHDPZZ is independent. BCHDPUS = ΣBCHDPZZ

State Energy Data System Variables

Variable	Description	Units	Formulas
BCICB	Bituminous coal and lignite consumed by the industrial sector.	Billion Btu	BCICBZZ = BCKCBZZ + BCOCBZZ BCICBUS = ΣBCICBZZ
BCICP	Bituminous coal and lignite consumed by the industrial sector.	Thousand short tons	BCICPZZ = BCKCPZZ + BCOCPZZ BCICPUS = ΣBCICPZZ
BCKCB	Bituminous coal and lignite consumed by coke plants.	Billion Btu	BCKCBZZ = BCKCPZZ * 26.80 BCKCBUS = ΣBCKCBZZ
BCKCP	Bituminous coal and lignite consumed by coke plants.	Thousand short tons	BCKCPZZ = (BCKDPZZ / BCKDPUS) * BCKCPUS BCKCPUS is independent.
BCKDP	Bituminous coal and lignite distributed to coke plants.	Thousand short tons	BCKDPZZ is independent. BCKDPUS = ΣBCKDPZZ
BCOCB	Bituminous coal and lignite consumed by other industrial users.	Billion Btu	BCOCBZZ = BCOCPZZ * BCOCKZZ BCOCBUS = ΣBCOCBZZ
BCOCKZZ	The factor for converting bituminous coal and lignite consumed by other industrial users from physical units to Btu.	Million Btu per short ton	BCOCKZZ is independent.
BCOCP	Bituminous coal and lignite consumed by other industrial users.	Thousand short tons	BCOCPZZ = (BCODPZZ / BCODPUS) * BCOCPUS BCOCPUS is independent.
BCODP	Bituminous coal and lignite distributed to other industrial users.	Thousand short tons	BCODPZZ is independent. BCODPUS = ΣBCODPZZ
BCRCB	Bituminous coal and lignite consumed by the residential sector.	Billion Btu	BCRCBZZ = BCRCPZZ * BCHCKZZ BCRCBUS = ΣBCRCBZZ
BCRCP	Bituminous coal and lignite consumed by the residential sector.	Thousand short tons	BCRCPZZ = BCHCPZZ * 0.35 BCRCPUS = ΣBCRCPZZ
BCTCB	Bituminous coal and lignite total consumed.	Billion Btu	BCTCBZZ = BCRCBZZ + BCCCBZZ + BCICBZZ + BCACBZZ + BCEUBZZ BCTCBUS = ΣBCTCBZZ

State Energy Data System Variables

Variable	Description	Units	Formulas
BCTCP	Bituminous coal and lignite total consumed.	Thousand short tons	BCTCPZZ = BCRCPZZ + BCCCPZZ + BCICPZZ + BCACPZZ + BCEUPZZ BCTCPUS = ΣBCTCPZZ
CCEXBUS	Coal coke exported from the United States.	Billion Btu	CCEXBUS = CCEXPUS * 24.80
CCEXPUS	Coal coke exported from the United States.	Thousand short tons	CCEXPUS is independent.
CCIMBUS	Coal coke imported into the United States.	Billion Btu	CCIMBUS = CCIMPUS * 24.80
CCIMPUS	Coal coke imported into the United States.	Thousand short tons	CCIMPUS is independent.
CCNIBUS	Coal coke net imports into the United States.	Billion Btu	CCNIBUS = CCIMBUS — CCEXBUS
CCNIPUS	Coal coke net imports into the United States.	Thousand short tons	CCNIPUS = CCIMPUS — CCEXPUS
CGVAV	Value added in manufacture of coated and glazed paper.	Million dollars	CGVAVZZ is independent. CGVAVUS = ΣCGVAVZZ
CLACB	Coal consumed by the transportation sector.	Billion Btu	CLACBZZ = BCACBZZ CLACBUS = BCACBUS
CLACP	Coal consumed by the transportation sector.	Thousand short tons	CLACPZZ = BCACPZZ CLACPUS = BCACPUS
CLCCB	Coal consumed by the commercial sector.	Billion Btu	CLCCBZZ = ACCCBZZ + BCCCBZZ CLCCBUS = ACCCBUS + BCCCBUS
CLCCP	Coal consumed by the commercial sector.	Thousand short tons	CLCCPZZ = ACCCPZZ + BCCCPZZ CLCCPUS = ACCCPUS + BCCCPUS
CLEUB	Coal consumed by the electric utilities.	Billion Btu	CLEUBZZ = ACEUBZZ + BCEUBZZ CLEUBUS = ACEUBUS + BCEUBUS
CLEUP	Coal consumed by the electric utilities.	Thousand short tons	CLEUPZZ = ACEUPZZ + BCEUPZZ CLEUPUS = ACEUPUS + BCEUPUS
CLICB	Coal consumed by the industrial sector.	Billion Btu	CLICBZZ = ACICBZZ + BCICBZZ CLICBUS = ACICBUS + BCICBUS

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Variable	Description	Units	Formulas
CLICP	Coal consumed by the industrial sector.	Thousand short tons	CLICPZZ = ACICPZZ + BCICPZZ CLICPUS = ACICPUS + BCICPUS
CLKCB	Coal consumed at coke plants (coking coal).	Billion Btu	CLKCBZZ = ACKCBZZ + BCKCBZZ CLKCBUS = ACKCBUS + BCKCBUS
CLOCB	Coal consumed by other industrial users.	Thousand short tons	CLOCBZZ = ACOCBZZ + BCOCBZZ CLOCBUS = ACOCBUS + BCOCBUS
CLRCB	Coal consumed by the residential sector.	Billion Btu	CLRCBZZ = ACRCBZZ + BCRCBZZ CLRCBUS = ACRCBUS + BCRCBUS
CLRCP	Coal consumed by the residential sector.	Thousand short tons	CLRCPZZ = ACRCPZZ + BCRCPZZ CLRCPUS = ACRCPUS + BCRCPUS
CLSCB	Coal consumed other than at coke plants (steam coal).	Billion Btu	CLSCBZZ = CLTCBZZ — CLKCBZZ CLSCBUS = CLTCBUS — CLKCBUS
CLTCB	Coal total consumed.	Billion Btu	CLTCBZZ = ACTCBZZ + BCTCBZZ CLTCBUS = ACTCBUS + BCTCBUS
CLTCP	Coal total consumed.	Thousand short tons	CLTCPZZ = ACTCPZZ + BCTCPZZ CLTCPUS = ACTCPUS + BCTCPUS
COCAP	Crude oil throughput operating capacity at refineries.	Barrels per calendar day	COCAPZZ is independent. COCAPUS = ΣCOCAPZZ
COICB	Crude oil consumed by the industrial sector.	Billion Btu	COICBZZ = COTCBZZ COICBUS = COTCBUS
COICP	Crude oil consumed by the industrial sector.	Thousand barrels	COICPZZ = COTCPZZ COICPUS = COTCPUS
COTCB	Crude oil consumed in petroleum industry operations.	Billion Btu	COTCBZZ = COTCPZZ * 5.800 COTCBUS = ΣCOTCBZZ
COTCP	Crude oil consumed in petroleum industry operations.	Thousand barrels	COTCPZZ is independent. COTCPUS = ΣCOTCPZZ

Variable	Description	Units	Formulas
CTCAP	Catalytic cracking charge capacity of petroleum refineries.	1960–1979: Barrels per calendar day 1980 forward: Barrels per stream day	CTCAPZZ is independent. CTCAPUS = ΣCTCAPZZ
DFACB	Distillate fuel consumed by the transportation sector.	Billion Btu	DFACBZZ = DFACPZZ * 5.825 DFACBUS = ΣDFACBZZ
DFACP	Distillate fuel consumed by the transportation sector.	Thousand barrels	DFACPZZ = (DFTRPZZ / DFNDPZZ) * DFNCPZZ DFACPUS = ΣDFACPZZ
DFBKP	Distillate fuel delivered for vessel bunkering use, excluding that sold to the Armed Forces.	Thousand barrels	DFBKPZZ is independent. DFBKPUS = ΣDFBKPZZ
DFCCB	Distillate fuel consumed by the commercial sector.	Billion Btu	DFCCBZZ = DFCCPZZ * 5.825 DFCCBUS = ΣDFCCBZZ
DFCCP	Distillate fuel consumed by the commercial sector.	Thousand barrels	DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ DFCCPUS = ΣDFCCPZZ
DFCMP	Distillate fuel delivered to the commercial sector.	Thousand barrels	DFCMPZZ is independent. DFCMPUS = ΣDFCMPZZ
DFEUB	Distillate fuel consumed by the electric utilities.	Billion Btu	DFEUBZZ = DFEUPZZ * 5.825 DFEUBUS = ΣDFEUBZZ
DFEUP	Distillate fuel consumed by the electric utilities, excluding kerosene-type jet fuel.	Thousand barrels	DFEUPZZ = DKEUPZZ — JKEUPZZ DFEUPUS = ΣDFEUPZZ
DFIBP	Distillate fuel delivered for industrial space heating and other industrial use, including farm use.	Thousand barrels	DFIBPZZ is independent. DFIBPUS = ΣDFIBPZZ
DFICB	Distillate fuel consumed by the industrial sector.	Billion Btu	DFICBZZ = DFICPZZ * 5.825 DFICBUS = ΣDFICBZZ
DFICP	Distillate fuel consumed by the industrial sector.	Thousand barrels	DFICPZZ = (DFINPZZ / DFNDPZZ) * DFNCPZZ DFICPUS = ΣDFICPZZ

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Variable	Description	Units	Formulas
DFINP	Distillate fuel delivered to the industrial sector.	Thousand barrels	DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ DFINPUS = ΣDFINPZZ
DFMIP	Distillate fuel delivered to the Armed Forces, regardless of use.	Thousand barrels	DFMIPZZ is independent. DFMIPUS = ΣDFMIPZZ
DFNCP	Total non-electric utilities distillate fuel consumption.	Thousand barrels	DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS DFNCPUS = DFTCPUS — DFEUPUS
DFNDP	Total non-electric utilities distillate fuel deliveries.	Thousand barrels	DFNDPZZ = DFRSPZZ + DFCMPZZ + DFINPZZ + DFTRPZZ DFNDPUS = ΣDFNDPZZ
DFOCP	Distillate fuel delivered for use by oil companies.	Thousand barrels	DFOCPZZ is independent. DFOCPUS = ΣDFOCPZZ
DFOFP	Distillate fuel delivered as diesel for off-highway use.	Thousand barrels	DFOFPZZ is independent. DFOFPUS = ΣDFOFPZZ
DFONP	Distillate fuel delivered as diesel-type fuel for onhighway use.	Thousand barrels	DFONPZZ is independent. DFONPUS = ΣDFONPZZ
DFOTP	Distillate fuel delivered for all other uses not identified in other deliveries categories.	Thousand barrels	DFOTPZZ is independent. DFOTPUS = ΣDFOTPZZ
DFRCB	Distillate fuel consumed by the residential sector.	Billion Btu	DFRCBZZ = DFRCPZZ * 5.825 DFRCBUS = ΣDFRCBZZ
DFRCP	Distillate fuel consumed by the residential sector.	Thousand barrels	DFRCPZZ = (DFRSPZZ / DFNDPZZ) * DFNCPZZ DFRCPUS = ΣDFRCPZZ
DFRRP	Distillate fuel delivered for use by railroads.	Thousand barrels	DFRRPZZ is independent. DFRRPUS = ΣDFRRPZZ
DFRSP	Distillate fuel delivered to the residential sector.	Thousand barrels	DFRSPZZ is independent. DFRSPUS = ΣDFRSPZZ

Variable	Description	Units	Formulas
DFTCB	Distillate fuel total consumed.	Billion Btu	DFTCBZZ = DFRCBZZ + DFCCBZZ + DFICBZZ + DFACBZZ + DFEUBZZ DFTCBUS = ΣDFTCBZZ
DFTCP	Distillate fuel total consumed.	Thousand barrels	DFTCPZZ = DFNCPZZ + DFEUPZZ DFTCPUS is independent.
DFTRP	Distillate fuel delivered to the transportation sector.	Thousand barrels	DFTRPZZ = DFBKPZZ + DFMIPZZ + DFRRPZZ + DFONPZZ DFTRPUS = ΣDFTRPZZ
DKEUB	Distillate fuel consumed by the electric utilities, including kerosene-type jet fuel.	Billion Btu	DKEUBZZ = DFEUBZZ + JKEUBZZ DKEUBUS = ΣDKEUBZZ
DKEUP	Distillate fuel consumed by the electric utilities, including kerosene-type jet fuel.	Thousand barrels	DKEUPZZ is independent. DKEUPUS = ΣDKEUPZZ
ELEXB	Electricity exported from the United States.	Billion Btu	ELEXBZZ = ELEXPZZ * FFEOKUS ELEXBUS = ΣELEXBZZ
ELEXP	Electricity exported from the United States.	Million kilowatthours	ELEXPZZ is independent. ELEXPUS = ΣELEXPZZ
ELIMB	Electricity imported into the United States.	Billion Btu	ELIMBZZ = ELIMPZZ * FFEOKUS ELIMBUS = ΣELIMBZZ
ELIMP	Electricity imported into the United States.	Million kilowatthours	ELIMPZZ is independent. ELIMPUS = ΣELIMPZZ
ELISB	Net interstate sales of electricity. (Negative indicates sales out of State; positive indicates sales into State.)	Billion Btu	ELISBZZ = (ESTCBZZ + LOTCBZZ) — TEEUBZZ ELISBUS = ΣELISBZZ
ELISP	Net interstate sales of electricity. (Negative indicates sales out of State; positive indicates sales into State.)	Million kilowatthours	ELISPZZ = ELISBZZ / 3.412 ELISPUS = ΣELISPZZ
ELLSS48	The ratio of electrical system energy losses to electricity sold in the contiguous 48 States and the District of Columbia.	Fraction	ELLSS48 = LOTCB48 / ESTCB48

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Variable	Description	Units	Formulas
ESACB	Electricity consumed by (i.e., sold to) the transportation sector.	Billion Btu	ESACBZZ = ESACPZZ * 3.412 ESACBUS = ΣESACBZZ
ESACP	Electricity consumed by (i.e., sold to) the transportation sector.	Million kilowatthours	ESACPZZ = (ESTRPZZ / ESTRPUS) * ESACPUS ESACPUS = ESOTPUS * ESTRSUS
ESCCB	Electricity consumed by (i.e., sold to) the commercial sector.	Billion Btu	ESCCBZZ = ESCCPZZ * 3.412 ESCCBUS = ΣESCCBZZ
ESCCP	Electricity consumed by (i.e., sold to) the commercial sector.	Million kilowatthours	ESCCPZZ = ESCMPZZ + ESOTPZZ — ESACPZZ ESCCPUS = ΣESCCPZZ
ESCMP	Electricity sold to a portion of the commercial sector.	Million kilowatthours	ESCMPZZ is independent. ESCMPUS = ΣESCMPZZ
ESICB	Electricity consumed by (i.e., sold to) the industrial sector.	Billion Btu	ESICBZZ = ESICPZZ * 3.412 ESICBUS = ΣESICBZZ
ESICP	Electricity consumed by (i.e., sold to) the industrial sector.	Million kilowatthours	ESICPZZ is independent. ESICPUS = ΣESICPZZ
ESOTP	Electricity sold to the "other" sector (i.e., public street and highway lighting, sales to other public authorities, railroads and railways, and interdepartmental sales).	Million kilowatthours	ESOTPZZ is independent. ESOTPUS = ΣESOTPZZ
ESRCB	Electricity consumed by (i.e., sold to) the residential sector.	Billion Btu	ESRCBZZ = ESRCPZZ * 3.412 ESRCBUS = ΣESRCBZZ
ESRCP	Electricity consumed by (i.e., sold to) the residential sector.	Million kilowatthours	ESRCPZZ is independent. ESRCPUS = ΣESRCPZZ
ESTCB	Electricity total consumed (i.e., sold).	Billion Btu	ESTCBZZ = ESTCPZZ * 3.412 ESTCBUS = ΣESTCBZZ ESTCB48 = ESTCBUS — (ESTCBAK + ESTCBHI)
ESTCP	Electricity total consumed (i.e., sold).	Million kilowatthours	ESTCPZZ = ESRCPZZ + ESCCPZZ + ESICPZZ + ESACPZZ ESTCPUS = ΣESTCPZZ

Variable	Description	Units	Formulas
ESTRP	Electricity consumed by transit systems.	Million kilowatthours	ESTRPZZ is independent. ESTRPUS = ΣESTRPZZ
ESTRSUS	The share of electricity sold to the "other" sector (ESOTP) that is used for transportation.	Fraction	ESTRSUS is independent.
FFEOKUS	Fossil fuel steam-electric power plant conversion factor.	Thousand Btu per kilowatthour	FFEOKUS is independent.
FNICB	Petrochemical feedstocks, naphtha 400 °F or less, consumed by the industrial sector.	Billion Btu	FNICBZZ = FNTCBZZ FNICBUS = FNTCBUS
FNICP	Petrochemical feedstocks, naphtha 400 °F or less, consumed by the industrial sector.	Thousand barrels	FNICPZZ = FNTCPZZ FNICPUS = FNTCPUS
FNTCB	Petrochemical feedstocks, naphtha 400 °F or less, total consumed.	Billion Btu	FNTCBZZ = FNTCPZZ * 5.248 FNTCBUS = ΣFNTCBZZ
FNTCP	Petrochemical feedstocks, naphtha 400 °F or less, total consumed.	Thousand barrels	FNTCPZZ = (OCVAVZZ / OCVAVUS) * FNTCPUS FNTCPUS is independent.
FOICB	Petrochemical feedstocks, other oils over 400 °F, consumed by the industrial sector.	Billion Btu	FOICBZZ = FOTCBZZ FOICBUS = FOTCBUS
FOICP	Petrochemical feedstocks, other oils over 400 °F, consumed by the industrial sector.	Thousand barrels	FOICPZZ = FOTCPZZ FOICPUS = FOTCPUS
FOTCB	Petrochemical feedstocks, other oils over 400 °F, total consumed.	Billion Btu	FOTCBZZ = FOTCPZZ * 5.825 FOTCBUS = ΣFOTCBZZ
FOTCP	Petrochemical feedstocks, other oils over 400 °F, total consumed.	Thousand barrels	FOTCPZZ = (OCVAVZZ / OCVAVUS) * FOTCPUS FOTCPUS is independent.
FSICB	Petrochemical feedstocks, still gas, consumed by the industrial sector.	Billion Btu	FSICBZZ = FSTCBZZ FSICBUS = FSTCBUS
FSICP	Petrochemical feedstocks, still gas, consumed by the industrial sector.	Thousand barrels	FSICPZZ = FSTCPZZ FSICPUS = FSTCPUS

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Variable	Description	Units	Formulas
FSTCB	Petrochemical feedstocks, still gas, total consumed.	Billion Btu	FSTCBZZ = FSTCPZZ * 6.000 FSTCBUS = ΣFSTCBZZ
FSTCP	Petrochemical feedstocks, still gas, total consumed.	Thousand barrels	FSTCPZZ = (COCAPZZ / COCAPUS) * FSTCPUS FSTCPUS is independent.
GEEOB	Electricity produced from geothermal energy at electric utilities.	Billion Btu	GEEOBZZ = GEEOPZZ * GEEOKUS GEEOBUS = ΣGEEOBZZ
GEEOKUS	Factor for converting electricity produced from geothermal energy from physical units to Btu.	Thousand Btu per kilowatthour	GEEOKUS is independent.
GEEOP	Electricity produced from geothermal energy at electric utilities.	Million kilowatthours	GEEOPZZ is independent. GEEOPUS = ΣGEEOPZZ
GWEOB	Electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy at electric utilities.	Billion Btu	GWEOBZZ = GEEOBZZ + WNEOBZZ + WWEOBZZ GWEOBUS = ΣGWEOBZZ
HYENB	Hydroelectric subtotal: electricity produced from hydropower at electric utilities plus net imports of electricity. into the United States	Billion Btu	HYENBZZ = HYEOBZZ + ELIMBZZ — ELEXBZZ HYENBUS = ΣHYENBZZ
HYENP	Hydroelectric subtotal: electricity produced from hydropower at electric utilities plus net imports of electricity. into the United States	Million kilowatthours	HYENPZZ = HYEOPZZ + ELIMPZZ — ELEXPZZ HYENPUS = ΣHYENPZZ
HYEOB	Electricity produced from hydropower at electric utilities.	Billion Btu	HYEOBZZ = HYEOPZZ * FFEOKUS HYEOBUS = ΣHYEOBZZ
HYEOP	Electricity produced from hydropower at electric utilities.	Million kilowatthours	HYEOPZZ is independent. HYEOPUS = ΣHYEOPZZ
HYICB	Electricity produced from hydropower by industrial facilities primarily for their own use.	Billion Btu	HYICBZZ = HYICPZZ * FFEOKUS HYICBUS = ΣHYICBZZ
HYICP	Electricity produced from hydropower by industrial facilities primarily for their own use.	Million kilowatthours	HYICPZZ is independent. HYICPUS = ΣHYICPZZ

Variable	Description	Units	Formulas
HYTCB	Hydroelectric total: electricity produced from hydropower at electric utilities (including net imports of electricity) and by industrial facilities.	Billion Btu	HYTCBZZ = HYENBZZ + HYICBZZ HYTCBUS = ΣHYTCBZZ
HYTCP	Hydroelectric total: electricity produced from hydropower at electric utilities (including net imports of electricity) and by industrial facilities.	Million kilowatthours	HYTCPZZ = HYENPZZ + HYICPZZ HYTCPUS = ΣHYTCPZZ
JFACB	Jet fuel consumed by the transportation sector.	Billion Btu	JFACBZZ = JKACBZZ + JNACBZZ JFACBUS = ΣJFACBZZ
JFACP	Jet fuel consumed by the transportation sector.	Thousand barrels	JFACPZZ = JKACPZZ + JNACPZZ JFACPUS = ΣJFACPZZ
JFEUB	Jet fuel consumed by electric utilities.	Billion Btu	JFEUBZZ = JKEUBZZ JFEUBUS = JKEUBUS
JFEUP	Jet fuel consumed by electric utilities.	Thousand barrels	JFEUPZZ = JKEUPZZ JFEUPUS = JKEUPUS
JFTCB	Jet fuel total consumed.	Billion Btu	JFTCBZZ = JFACBZZ + JFEUBZZ JFTCBUS = ΣJFTCBZZ
JFTCP	Jet fuel total consumed.	Thousand barrels	JFTCPZZ = JFACPZZ + JFEUPZZ JFTCPUS = ΣJFTCPZZ
JKACB	Kerosene-type jet fuel consumed by the transportation sector.	Billion Btu	JKACBZZ = JKACPZZ * 5.670 JKACBUS = ΣJKACBZZ
JKACP	Kerosene-type jet fuel consumed by the transportation sector.	Thousand barrels	JKACPZZ = (JKNMPZZ / JKNMPUS) * JKACPUS JKACPUS = JKTCPUS — JKEUPUS
JKEUB	Kerosene-type jet fuel consumed by electric utilities.	Billion Btu	JKEUBZZ = JKEUPZZ * 5.670 JKEUBUS = ΣJKEUBZZ
JKEUP	Kerosene-type jet fuel consumed by electric utilities.	Thousand barrels	JKEUPZZ is independent. JKEUPUS = ΣJKEUPZZ
JKNMP	Kerosene-type jet fuel sold for nonmilitary use.	Thousand gallons	JKNMPZZ is independent. JKNMPUS = ΣJKNMPZZ

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Variable	Description	Units	Formulas
JKTCB	Kerosene-type jet fuel total consumed.	Billion Btu	JKTCBZZ = JKTCPZZ * 5.670 JKTCBUS = ΣJKTCBZZ
JKTCP	Kerosene-type jet fuel total consumed.	Thousand barrels	JKTCPZZ = JKACPZZ + JKEUPZZ JKTCPUS is independent.
JNACB	Naphtha-type jet fuel consumed by the transportation sector.	Billion Btu	JNACBZZ = JNTCBZZ JNACBUS = JNTCBUS
JNACP	Naphtha-type jet fuel consumed by the transportation sector.	Thousand barrels	JNACPZZ = JNTCPZZ JNACPUS = JNTCPUS
JNMIP	Naphtha-type jet fuel issued to the military.	Thousand barrels	JNMIPZZ is independent. JNMIPUS = ΣJNMIPZZ
JNTCB	Naphtha-type jet fuel total consumed.	Billion Btu	JNTCBZZ = JNTCPZZ * 5.355 JNTCBUS = ΣJNTCBZZ
JNTCP	Naphtha-type jet fuel total consumed.	Thousand barrels	JNTCPZZ = (JNMIPZZ / JNMIPUS) * JNTCPUS JNTCPUS is independent.
KSCCB	Kerosene consumed by the commercial sector.	Billion Btu	KSCCBZZ = KSCCPZZ * 5.670 KSCCBUS = ΣKSCCBZZ
KSCCP	Kerosene consumed by the commercial sector.	Thousand barrels	KSCCPZZ = (KSCMPZZ / KSTTPZZ) * KSTCPZZ KSCCPUS = ΣKSCCPZZ
KSCMP	Kerosene delivered to the commercial sector.	Thousand barrels	KSCMPZZ is independent. KSCMPUS = ΣKSCMPZZ
KSICB	Kerosene consumed by the industrial sector.	Billion Btu	KSICBZZ = KSICPZZ * 5.670 KSICBUS = ΣKSICBZZ
KSICP	Kerosene consumed by the industrial sector.	Thousand barrels	KSICPZZ = (KSINPZZ / KSTTPZZ) * KSTCPZZ KSICPUS = ΣKSICPZZ
KSIHP	Kerosene delivered for industrial heating.	Thousand barrels	KSIHPZZ is independent. KSIHPUS = ΣKSIHPZZ

Variable	Description	Units	Formulas
KSINP	Kerosene delivered to the industrial sector.	Thousand barrels	KSINPZZ = KSOTPZZ + KSIHPZZ KSINPUS = ΣKSINPZZ
KSOTP	Kerosene delivered for all other uses, including farm use.	Thousand barrels	KSOTPZZ is independent. KSOTPUS = ΣKSOTPZZ
KSRCB	Kerosene consumed by the residential sector.	Billion Btu	KSRCBZZ = KSRCPZZ * 5.670 KSRCBUS = ΣKSRCBZZ
KSRCP	Kerosene consumed by the residential sector.	Thousand barrels	KSRCPZZ = (KSRSPZZ / KSTTPZZ) * KSTCPZZ KSRCPUS = ΣKSRCPZZ
KSRSP	Kerosene delivered to the residential sector.	Thousand barrels	KSRSPZZ is independent. KSRSPUS = ΣKSRSPZZ
KSTCB	Kerosene total consumed.	Billion Btu	KSTCBZZ = KSRCBZZ + KSICBZZ + KSCCBZZ KSTCBUS = ΣKSTCBZZ
KSTCP	Kerosene total consumed.	Thousand barrels	KSTCPZZ = (KSTTPZZ / KSTTPUS) * KSTCPUS KSTCPUS is independent.
KSTTP	Kerosene total delivered.	Thousand barrels	KSTTPZZ = KSRSPZZ + KSCMPZZ + KSINPZZ KSTTPUS = ΣKSTTPZZ
LGACB	LPG consumed by the transportation sector.	Billion Btu	LGACBZZ = LGACPZZ * LGTCKUS LGACBUS = ΣLGACBZZ
LGACP	LPG consumed by the transportation sector.	Thousand barrels	LGACPZZ = LGCBPZZ * LGTRSUS LGACPUS = ΣLGACPZZ
LGCBM	LPG sales for internal combustion engine use.	Thousand gallons	LGCBMZZ is independent. LGCBMUS = ΣLGCBMZZ
LGCBP	LPG consumed for internal combustion engine use.	Thousand barrels	LGCBPZZ = LGCBMZZ / 42 LGCBPUS = ΣLGCBPZZ
LGCCB	LPG consumed by the commercial sector.	Billion Btu	LGCCBZZ = LGCCPZZ * LGTCKUS LGCCBUS = ΣLGCCBZZ

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Variable	Description	Units	Formulas
LGCCP	LPG consumed by the commercial sector.	Thousand barrels	LGCCPZZ = LGHCPZZ * 0.15 LGCCPUS = ΣLGCCPZZ
LGHCM	LPG sold for residential and commercial use.	Thousand gallons	LGHCMZZ is independent. LGHCMUS = ΣLGHCMZZ
LGHCP	LPG consumed by the residential and commercial sectors.	Thousand barrels	LGHCPZZ = LGHCMZZ / 42 LGHCPUS = ΣLGHCPZZ
LGICB	LPG consumed by the industrial sector.	Billion Btu	LGICBZZ = LGICPZZ * LGTCKUS LGICBUS = ΣLGICBZZ
LGICP	LPG consumed by the industrial sector.	Thousand barrels	LGICPZZ = LGTCPZZ — (LGRCPZZ + LGCCPZZ + LGACPZZ) LGICPUS = ΣLGICPZZ
LGRCB	LPG consumed by the residential sector.	Billion Btu	LGRCBZZ = LGRCPZZ * LGTCKUS LGRCBUS = ΣLGRCBZZ
LGRCP	LPG consumed by the residential sector.	Thousand barrels	LGRCPZZ = LGHCPZZ * 0.85 LGRCPUS = ΣLGRCPZZ
LGTCB	LPG total consumed.	Billion Btu	LGTCBZZ = LGRCBZZ + LGCCBZZ + LGICBZZ + LGACBZZ LGTCBUS = ΣLGTCBZZ
LGTCKUS	Factor for converting LPG from physical units to Btu.	Million Btu per barrel	LGTCKUS is independent.
LGTCP	LPG total consumed.	Thousand barrels	LGTCPZZ = (LGTTPZZ / LGTTPUS) * LGTCPUS LGTCPUS is independent.
LGTRSUS	The transportation sector share of LPG internal combustion engine sales.	Fraction	LGTRSUS is independent.
LGTTP	LPG total sold.	Thousand gallons	LGTTPZZ is independent. LGTTPUS = ΣLGTTPZZ
LOACB	The transportation sector's share of electrical system energy losses.	Billion Btu	LOACBZZ = ESACBZZ * ELLSS48 Exceptions:

Variable	Description	Units	Formulas
			LOACBAK = (ESACBAK / ESTCBAK) * LOTCBAK LOACBHI = (ESACBHI / ESTCBHI) * LOTCBHI LOACBUS = ΣLOACBZZ
LOACP	The transportation sector's share of electrical system energy losses.	Thousand kilowatthours	LOACPZZ = LOACBZZ / 3.412 LOACPUS = LOACBUS / 3.412
LOCCB	The commercial sector's share of electrical system energy losses.	Billion Btu	LOCCBZZ = ESCCBZZ * ELLSS48 Exceptions: LOCCBAK = (ESCCBAK / ESTCBAK) * LOTCBAK LOCCBHI = (ESCCBHI / ESTCBHI) * LOTCBHI LOCCBUS = ΣLOCCBZZ
LOCCP	The commercial sector's share of electrical system energy losses.	Thousand kilowatthours	LOCCPZZ = LOCCBZZ / 3.412 LOCCPUS = LOCCBUS / 3.412
LOICB	The industrial sector's share of electrical system energy losses.	Billion Btu	LOICBZZ = ESICBZZ * ELLSS48 Exceptions: LOICBAK = (ESICBAK / ESTCBAK) * LOTCBAK LOICBHI = (ESICBHI / ESTCBHI) * LOTCBHI LOICBUS = ΣLOICBZZ
LOICP	The industrial sector's share of electrical system energy losses.	Thousand kilowatthours	LOICPZZ = LOICBZZ / 3.412 LOICPUS = LOICBUS / 3.412
LORCB	The residential sector's share of electrical system energy losses.	Billion Btu	LORCBZZ = ESRCBZZ * ELLSS48 Exceptions: LORCBAK = (ESRCBAK / ESTCBAK) * LOTCBAK LORCBHI = (ESRCBHI / ESTCBHI) * LOTCBHI LORCBUS = ΣLORCBZZ
LORCP	The residential sector's share of electrical system energy losses.	Thousand kilowatthours	LORCPZZ = LORCBZZ / 3.412 LORCPUS = LORCBUS / 3.412
LOTCB	Total electrical system energy losses.	Billion Btu	LOTCBZZ = ESTCBZZ * ELLSS48 Exceptions: LOTCBAK = TEEUBAK — ESTCBAK LOTCBHI = TEEUBHI — ESTCBHI LOTCBUS = TEEUBUS — ESTCBUS LOTCB48 = LOTCBUS — (LOTCBAK + LOTCBHI)

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Variable	Description	Units	Formulas
LOTCP	Total electrical system energy losses.	Thousand kilowatthours	LOTCPZZ = LOTCBZZ / 3.412 LOTCPUS = LOTCBUS / 3.412
LUACB	Lubricants consumed by the transportation sector.	Billion Btu	LUACBZZ = LUACPZZ * 6.065 LUACBUS = ΣLUACBZZ
LUACP	Lubricants consumed by the transportation sector.	Thousand barrels	LUACPZZ = (LUTRPZZ / LUTTPZZ) * LUTCPZZ LUACPUS = ΣLUACPZZ
LUICB	Lubricants consumed by the industrial sector.	Billion Btu	LUICBZZ = LUICPZZ * 6.065 LUICBUS = ΣLUICBZZ
LUICP	Lubricants consumed by the industrial sector.	Thousand barrels	LUICPZZ = (LUINPZZ / LUTTPZZ) * LUTCPZZ LUICPUS = ΣLUICPZZ
LUINP	Lubricants sold to the industrial sector.	Thousand barrels	LUINPZZ is independent. LUINPUS = ΣLUINPZZ
LUTCB	Lubricants total consumed.	Billion Btu	LUTCBZZ = LUICBZZ + LUACBZZ LUTCBUS = ΣLUTCBZZ
LUTCP	Lubricants total consumed.	Thousand barrels	LUTCPZZ = (LUTTPZZ / LUTTPUS) * LUTCPUS LUTCPUS is independent.
LUTRP	Lubricants sold to the transportation sector.	Thousand barrels	LUTRPZZ is independent. LUTRPUS = ΣLUTRPZZ
LUTTP	Lubricants total sold.	Thousand barrels	LUTTPZZ = LUINPZZ + LUTRPZZ LUTTPUS = ΣLUTTPZZ
MBICB	Motor gasoline blending components consumed by the industrial sector.	Billion Btu	MBICBZZ = MBTCBZZ MBICBUS = MBTCBUS
MBICP	Motor gasoline blending components consumed by the industrial sector.	Thousand barrels	MBICPZZ = MBTCPZZ MBICPUS = MBTCPUS
MBTCB	Motor gasoline blending components total consumed.	Billion Btu	MBTCBZZ = MBTCPZZ * 5.253 MBTCBUS = ΣMBTCBZZ

Variable	Description	Units	Formulas
MBTCP	Motor gasoline blending components total consumed.	Thousand barrels	MBTCPZZ = (COCAPZZ / COCAPUS) * MBTCPUS MBTCPUS is independent.
MGACB	Motor gasoline consumed by the transportation sector.	Billion Btu	MGACBZZ = MGACPZZ * 5.253 MGACBUS = ΣMGACBZZ
MGACP	Motor gasoline consumed by the transportation sector.	Thousand barrels	MGACPZZ = (MGTRPZZ / MGTTPZZ) * MGTCPZZ MGACPUS = ΣMGACPZZ
MGAGP	Motor gasoline sold for agricultural use.	Thousand gallons	MGAGPZZ is independent. MGAGPUS = ΣMGAGPZZ
MGCCB	Motor gasoline consumed by the commercial sector.	Billion Btu	MGCCBZZ = MGCCPZZ * 5.253 MGCCBUS = ΣMGCCBZZ
MGCCP	Motor gasoline consumed by the commercial sector.	Thousand barrels	MGCCPZZ = (MGCMPZZ / MGTTPZZ) * MGTCPZZ MGCCPUS = ΣMGCCPZZ
MGCMP	Motor gasoline sold to the commercial sector.	Thousand gallons	MGCMPZZ = MGMSPZZ + MGPNPZZ MGCMPUS = ΣMGCMPZZ
MGCUP	Motor gasoline sold for construction use.	Thousand gallons	MGCUPZZ is independent. MGCUPUS = ΣMGCUPZZ
MGICB	Motor gasoline consumed by the industrial sector.	Billion Btu	MGICBZZ = MGICPZZ * 5.253 MGICBUS = ΣMGICBZZ
MGICP	Motor gasoline consumed by the industrial sector.	Thousand barrels	MGICPZZ = (MGINPZZ / MGTTPZZ) * MGTCPZZ MGICPUS = ΣMGICPZZ
MGINP	Motor gasoline sold to the industrial sector.	Thousand gallons	MGINPZZ = MGAGPZZ + MGCUPZZ + MGIYPZZ MGINPUS = ΣMGINPZZ
MGIYP	Motor gasoline sold for industrial and commercial use (Federal Highway Administration terminology).	Thousand gallons	MGIYPZZ is independent. MGIYPUS = ΣMGIYPZZ
MGMFP	Motor gasoline sold for highway use.	Thousand gallons	MGMFPZZ is independent. MGMFPUS = ΣMGMFPZZ

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Variable	Description	Units	Formulas
MGMRP	Motor gasoline sold for marine use.	Thousand gallons	MGMRPZZ is independent. MGMRPUS = ΣMGMRPZZ
MGMSP	Motor gasoline sold for miscellaneous and unclassified uses.	Thousand gallons	MGMSPZZ is independent. MGMSPUS = ΣMGMSPZZ
MGPNP	Motor gasoline sold for public non-highway use.	Thousand gallons	MGPNPZZ is independent. MGPNPUS = ΣMGPNPZZ
MGSFP	Motor gasoline special fuels sold (primarily diesel fuel with small amounts of liquefied petroleum gases).	Thousand gallons	MGSFPZZ is independent. MGSFPUS = ΣMGSFPZZ
MGTCB	Motor gasoline total consumed.	Billion Btu	MGTCBZZ = MGCCBZZ + MGICBZZ + MGACBZZ MGTCBUS = ΣMGTCBZZ
MGTCP	Motor gasoline total consumed.	Thousand barrels	MGTCPZZ = (MGTTPZZ / MGTTPUS) * MGTCPUS MGTCPUS is independent.
MGTRP	Motor gasoline sold to the transportation sector.	Thousand gallons	MGTRPZZ = MGMFPZZ + MGMRPZZ — MGSFPZZ MGTRPUS = ΣMGTRPZZ
MGTTP	Motor gasoline total sold.	Thousand gallons	MGTTPZZ = MGCMPZZ + MGINPZZ + MGTRPZZ MGTTPUS = ΣMGTTPZZ
MSICB	Miscellaneous petroleum products consumed by the industrial sector.	Billion Btu	MSICBZZ = MSTCBZZ MSICBUS = MSTCBUS
MSICP	Miscellaneous petroleum products consumed by the industrial sector.	Thousand barrels	MSICPZZ = MSTCPZZ MSICPUS = MSTCPUS
MSTCB	Miscellaneous petroleum products total consumed.	Billion Btu	MSTCBZZ = MSTCPZZ * 5.796 MSTCBUS = ΣMSTCBZZ
MSTCP	Miscellaneous petroleum products total consumed.	Thousand barrels	MSTCPZZ = (OCVAVZZ / OCVAVUS) * MSTCPUS MSTCPUS is independent.
NAICB	Natural gasoline consumed by the industrial sector.	Billion Btu	NAICBZZ = NATCBZZ NAICBUS = NATCBUS

Variable	Description	Units	Formulas
NAICP	Natural gasoline consumed by the industrial sector.	Thousand barrels	NAICPZZ = NATCPZZ NAICPUS = NATCPUS
NATCB	Natural gasoline total consumed.	Billion Btu	NATCBZZ = NATCPZZ * 4.620 NATCBUS = ΣNATCBZZ
NATCP	Natural gasoline total consumed.	Thousand barrels	NATCPZZ = (OCVAVZZ / OCVAVUS) * NATCPUS NATCPUS is independent.
NGACB	Natural gas consumed by the transportation sector (i.e., pipeline fuel).	Billion Btu	NGACBZZ = NGACPZZ * NGNUKZZ NGACBUS = ΣNGACBZZ
NGACP	Natural gas consumed by the transportation sector (i.e., pipeline fuel).	Million cubic feet	NGACPZZ is independent. NGACPUS = ΣNGACPZZ
NGCCB	Natural gas delivered to the commercial sector, used as consumption.	Billion Btu	NGCCBZZ = NGCCPZZ * NGNUKZZ NGCCBUS = ΣNGCCBZZ
NGCCP	Natural gas delivered to the commercial sector, used as consumption.	Million cubic feet	NGCCPZZ is independent. NGCCPUS = ΣNGCCPZZ
NGEUB	Natural gas consumed by the electric utilities.	Billion Btu	NGEUBZZ = NGEUPZZ * NGEUKZZ NGEUBUS = ΣNGEUBZZ
NGEUK	Factor for converting natural gas consumed by the electric utilities from physical units to Btu.	Thousand Btu per cubic foot	NGEUKZZ is independent. NGEUKUS = NGEUBUS / NGEUPUS
NGEUP	Natural gas consumed by the electric utilities.	Million cubic feet	NGEUPZZ is independent. NGEUPUS = ΣNGEUPZZ
NGICB	Natural gas consumed by the industrial sector.	Billion Btu	NGICBZZ = NGICPZZ * NGNUKZZ NGICBUS = ΣNGICBZZ
NGICP	Natural gas consumed by the industrial sector.	Million cubic feet	NGICPZZ = NGINPZZ + NGLPPZZ NGICPUS = ΣNGICPZZ
NGINP	A portion of the natural gas delivered to the industrial sector.	Million cubic feet	NGINPZZ is independent. NGINPUS = ΣNGINPZZ

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Variable	Description	Units	Formulas
NGLPP	Natural gas consumed as lease and plant fuel.	Million cubic feet	NGLPPZZ is independent. NGLPPUS = ΣNGLPPZZ
NGNUK	Factor for converting natural gas consumed by non-electric utility sectors from physical units to Btu.	Thousand Btu per cubic foot	NGNUKZZ = (NGTCBZZ — NGEUBZZ) / (NGTCPZZ — NGEUPZZ) NGNUKUS = (NGTCBUS — NGEUBUS) / (NGTCPUS — NGEUPUS)
NGRCB	Natural gas consumed by the residential sector.	Billion Btu	NGRCBZZ = NGRCPZZ * NGNUKZZ NGRCBUS = ΣNGRCBZZ
NGRCP	Natural gas delivered to the residential sector, used as consumption.	Million cubic feet	NGRCPZZ is independent. NGRCPUS = ΣNGRCPZZ
NGTCB	Natural gas total consumed.	Billion Btu	NGTCBZZ = NGTCPZZ * NGTCKZZ NGTCBUS = ΣNGTCBZZ
NGTCK	Factor for converting natural gas total consumed from physical units to Btu.	Thousand Btu per cubic foot	NGTCKZZ is independent. NGTCKUS = NGTCBUS / NGTCPUS
NGTCP	Natural gas total consumed.	Million cubic feet	NGTCPZZ = NGRCPZZ + NGCCPZZ + NGICPZZ + NGACPZZ + NGEUPZZ NGTCPUS = ΣNGTCPZZ
NUEOB	Electricity produced from nuclear power at electric utilities.	Billion Btu	NUEOBZZ = NUEOPZZ * NUEOKUS NUEOBUS = ΣNUEOBZZ
NUEOKUS	Factor for converting electricity produced from nuclear power from physical units to Btu.	Thousand Btu per kilowatthour	NUEOKUS is independent.
NUEOP	Electricity produced from nuclear power at electric utilities.	Million kilowatthours	NUEOPZZ is independent. NUEOPUS = ΣNUEOPZZ
OCVAV	Value added in manufacture of industrial organic chemicals.	Million dollars	OCVAVZZ is independent OCVAVUS = ΣOCVAVZZ
PAACB	All petroleum products consumed by the transportation sector.	Billion Btu	PAACBZZ = AVACBZZ + DFACBZZ + JKACBZZ + JNACBZZ + LGACBZZ + LUACBZZ + MGACBZZ + RFACBZZ PAACBUS = ΣPAACBZZ

Variable	Description	Units	Formulas
PAACKUS	Factor for converting all petroleum products consumed by the transportation sector from physical units to Btu.	Million Btu per barrel	PAACKUS = PAACBUS / PAACPUS
PAACP	All petroleum products consumed by the transportation sector.	Thousand barrels	PAACPZZ = AVACPZZ + DFACPZZ + JKACPZZ + JNACPZZ + LGACPZZ + LUACPZZ + MGACPZZ + RFACPZZ PAACPUS = ΣPAACPZZ
PACCB	All petroleum products consumed by the commercial sector.	Billion Btu	PACCBZZ = DFCCBZZ + KSCCBZZ + LGCCBZZ + MGCCBZZ + RFCCBZZ PACCBUS = ΣPACCBZZ
PACCKUS	Factor for converting all petroleum products consumed by the commercial sector from physical units to Btu.	Million Btu per barrel	PACCKUS = PACCBUS / PACCPUS
PACCP	All petroleum products consumed by the commercial sector.	Thousand barrels	PACCPZZ = DFCCPZZ + KSCCPZZ + LGCCPZZ + MGCCPZZ + RFCCPZZ PACCPUS = ΣPACCPZZ
PAEUB	All petroleum products consumed by the electric utilities.	Billion Btu	PAEUBZZ = DFEUBZZ + JKEUBZZ + PCEUBZZ + RFEUBZZ PAEUBUS = ΣPAEUBZZ
PAEUKUS	Factor for converting all petroleum products consumed by the electric utilities from physical units to Btu.	Million Btu per barrel	PAEUKUS = PAEUBUS / PAEUPUS
PAEUP	All petroleum products consumed by the electric utilities.	Thousand barrels	PAEUPZZ = DFEUPZZ + JKEUPZZ + PCEUPZZ + RFEUPZZ PAEUPUS = ΣPAEUPZZ
PAHCBUS	All petroleum products consumed by the residential and commercial sectors combined.	Billion Btu	PAHCBUS = PARCBUS + PACCBUS
PAHCKUS	Factor for converting all petroleum products consumed by the residential and commercial sectors combined from physical units to Btu.	Million Btu per barrel	PAHCKUS = PAHCBUS / PAHCPUS

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Variable	Description	Units	Formulas
PAHCPUS	All petroleum products consumed by the residential and commercial sectors combined.	Thousand barrels	PAHCPUS = PARCPUS + PACCPUS
PAICB	All petroleum products consumed by the industrial sector.	Billion Btu	PAICBZZ = ARICBZZ + DFICBZZ + KSICBZZ + LGICBZZ + LUICBZZ + MGICBZZ + RFICBZZ + POICBZZ PAICBUS = ΣPAICBZZ
PAICKUS	Factor for converting all petroleum products consumed by the industrial sector from physical units to Btu.	Million Btu per barrel	PAICKUS = PAICBUS / PAICPUS
PAICP	All petroleum products consumed by the industrial sector.	Thousand barrels	PAICPZZ = ARICPZZ + DFICPZZ + KSICPZZ + LGICPZZ + LUICPZZ + MGICPZZ + RFICPZZ + POICPZZ PAICPUS = ΣPAICPZZ
PARCB	All petroleum products consumed by the residential sector.	Billion Btu	PARCBZZ = DFRCBZZ + KSRCBZZ + LGRCBZZ PARCBUS = ΣPARCBZZ
PARCKUS	Factor for converting all petroleum products consumed by the residential sector from physical units to Btu.	Million Btu per barrel	PARCKUS = PARCBUS / PARCPUS
PARCP	All petroleum products consumed by the residential sector.	Thousand barrels	PARCPZZ = DFRCPZZ + KSRCPZZ + LGRCPZZ PARCPUS = ΣPARCPZZ
PATCB	All petroleum products consumed by all sectors.	Billion Btu	PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + JKTCBZZ + JNTCBZZ + KSTCBZZ + LGTCBZZ + LUTCBZZ + MGTCBZZ + RFTCBZZ + POTCBZZ PATCBUS = ΣPATCBZZ
PATCKUS	Factor for converting all petroleum products consumed by all sectors from physical units to Btu.	Million Btu per barrel	PATCKUS = PATCBUS / PATCPUS
PATCP	All petroleum products consumed by all sectors.	Thousand barrels	PATCPZZ = ARTCPZZ + AVTCPZZ + DFTCPZZ + JKTCPZZ + JNTCPZZ +

Variable	Description	Units	Formulas
			KSTCPZZ + LGTCPZZ + LUTCPZZ + MGTCPZZ + RFTCPZZ + POTCPZZ PATCPUS = ΣPATCPZZ
PCCTP	Petroleum coke used at refineries as both catalytic and marketable coke.	Thousand barrels	PCCTPZZ = (CTCAPZZ / CTCAPUS) * PCCTPUS PCCTPUS is independent.
PCEUB	Petroleum coke consumed by the electric utilities.	Billion Btu	PCEUBZZ = PCEUPZZ * 6.024 PCEUBUS = ΣPCEUBZZ
PCEUM	Petroleum coke consumed by the electric utilities.	Thousand tons	PCEUMZZ is independent. PCEUMUS = ΣPCEUMZZ
PCEUP	Petroleum coke consumed by the electric utilities.	Thousand barrels	PCEUPZZ = PCEUMZZ * 5 PCEUPUS = ΣPCEUPZZ
PCICB	Petroleum coke consumed in the industrial sector.	Billion Btu	PCICBZZ = PCICPZZ * 6.024 PCICBUS = ΣPCICBZZ
PCICP	Petroleum coke consumed in the industrial sector.	Thousand barrels	PCICPZZ = PCCTPZZ + PCOCPZZ PCICPUS = PCTCPUS — PCEUPUS
PCOCP	Industrial use of petroleum coke other than that used for catalytic cracking.	Thousand barrels	PCOCPZZ = (AICAPZZ / AICAPUS) * PCOCPUS PCOCPUS = PCICPUS — PCCTPUS
PCTCB	Petroleum coke total consumed (utility and non-electric utility sectors).	Billion Btu	PCTCBZZ = PCICBZZ + PCEUBZZ PCTCBUS = ΣPCTCBZZ
PCTCP	Petroleum coke total consumed (utility and non-electric utility sectors).	Thousand barrels	PCTCPZZ = PCICPZZ + PCEUPZZ PCTCPUS is independent.
PIVAV	Value added in the manufacture of paints and allied products.	Million dollars	PIVAVZZ is independent. PIVAVUS = ΣPIVAVZZ
PLICB	Plant condensate consumed by the industrial sector.	Billion Btu	PLICBZZ = PLTCBZZ PLICBUS = PLTCBUS
PLICP	Plant condensate consumed by the industrial sector.	Thousand barrels	PLICPZZ = PLTCPZZ PLICPUS = PLTCPUS

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Variable	Description	Units	Formulas
PLTCB	Plant condensate total consumed.	Billion Btu	PLTCBZZ = PLTCPZZ * 5.418 PLTCBUS = ΣPLTCBZZ
PLTCP	Plant condensate total consumed.	Thousand barrels	PLTCPZZ = (OCVAVZZ / OCVAVUS) * PLTCPUS PLTCPUS is independent.
POICB	Petroleum other products consumed by the industrial sector.	Billion Btu	POICBZZ = ABICBZZ + COICBZZ + FNICBZZ + FOICBZZ + FSICBZZ + MBICBZZ + MSICBZZ + NAICBZZ + PCICBZZ + PLICBZZ + PPICBZZ + SGICBZZ + SNICBZZ + UOICBZZ + USICBZZ + WXICBZZ POICBUS = ΣPOICBZZ
POICP	Petroleum other products consumed by the industrial sector.	Thousand barrels	POICPZZ = ABICPZZ + COICPZZ + FNICPZZ + FOICPZZ + FSICPZZ + MBICPZZ + MSICPZZ + NAICPZZ + PCICPZZ + PLICPZZ + PPICPZZ + SGICPZZ + SNICPZZ + UOICPZZ + USICPZZ + WXICPZZ POICPUS = ΣPOICPZZ
POTCB	Petroleum other products total consumed.	Billion Btu	POTCBZZ = ABTCBZZ + COTCBZZ + FNTCBZZ + FOTCBZZ + FSTCBZZ + MBTCBZZ + MSTCBZZ + NATCBZZ + PCTCBZZ + PLTCBZZ + PPTCBZZ + SGTCBZZ + SNTCBZZ + UOTCBZZ + USTCBZZ + WXTCBZZ POTCBUS = ΣPOTCBZZ
POTCP	Petroleum other products total consumed.	Thousand barrels	POTCPZZ = ABTCPZZ + COTCPZZ + FNTCPZZ + FOTCPZZ + FSTCPZZ + MBTCPZZ + MSTCPZZ + NATCPZZ + PCTCPZZ + PLTCPZZ + PPTCPZZ + SGTCPZZ + SNTCPZZ + UOTCPZZ + USTCPZZ + WXTCPZZ POTCPUS = ΣPOTCPZZ
PPICB	Pentanes plus consumed by the industrial sector.	Billion Btu	PPICBZZ = PPTCBZZ PPICBUS = PPTCBUS

Variable	Description	Units	Formulas
PPICP	Pentanes plus consumed by the industrial sector.	Thousand barrels	PPICPZZ = PPTCPZZ PPICPUS = PPTCPUS
PPTCB	Pentanes plus total consumed.	Billion Btu	PPTCBZZ = PPTCPZZ * 4.620 PPTCBUS = ΣPPTCBZZ
PPTCP	Pentanes plus total consumed.	Thousand barrels	PPTCPZZ = (OCVAVZZ / OCVAVUS) * PPTCPUS PPTCPUS is independent.
RDICP	Road oil consumed by the industrial sector.	Thousand barrels	RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUS RDICPUS = ΣRDICPZZ
RDINP	Road oil sold to the industrial sector.	Short tons	RDINPZZ is independent. RDINPUS = ΣRDINPZZ
RDTCP	Road oil total consumed.	Thousand barrels	RDTCPZZ = RDICPZZ RDTCPUS is independent.
RFACB	Residual fuel consumed by the transportation sector.	Billion Btu	RFACBZZ = RFACPZZ * 6.287 RFACBUS = ΣRFACBZZ
RFACP	Residual fuel consumed by the transportation sector.	Thousand barrels	RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ RFACPUS = ΣRFACPZZ
RFBKP	Residual fuel delivered for vessel bunkering use, excluding deliveries to the Armed Forces.	Thousand barrels	RFBKPZZ is independent. RFBKPUS = ΣRFBKPZZ
RFCCB	Residual fuel consumed by the commercial sector.	Billion Btu	RFCCBZZ = RFCCPZZ * 6.287 RFCCBUS = ΣRFCCBZZ
RFCCP	Residual fuel consumed by the commercial sector.	Thousand barrels	RFCCPZZ = (RFCMPZZ / RFNDPZZ) * RFNCPZZ RFCCPUS = ΣRFCCPZZ
RFCMP	Residual fuel delivered to the commercial sector.	Thousand barrels	RFCMPZZ is independent. RFCMPUS = ΣRFCMPZZ
RFEUB	Residual fuel consumed by the electric utilities.	Billion Btu	RFEUBZZ = RFEUPZZ * 6.287 RFEUBUS = ΣRFEUBZZ

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Variable	Description	Units	Formulas
RFEUP	Residual fuel consumed by the electric utilities.	Thousand barrels	RFEUPZZ is independent. RFEUPUS = ΣRFEUPZZ
RFIBP	A portion of residual fuel delivered for industrial use, including industrial space heating.	Thousand barrels	RFIBPZZ is independent. RFIBPUS = ΣRFIBPZZ
RFICB	Residual fuel consumed by the industrial sector.	Billion Btu	RFICBZZ = RFICPZZ * 6.287 RFICBUS = ΣRFICBZZ
RFICP	Residual fuel consumed by the industrial sector.	Thousand barrels	RFICPZZ = (RFINPZZ / RFNDPZZ) * RFNCPZZ RFICPUS = ΣRFICPZZ
RFINP	Residual fuel delivered to the industrial sector.	Thousand barrels	RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ RFINPUS = ΣRFINPZZ
RFMIP	Residual fuel delivered to the Armed Forces, regardless of use.	Thousand barrels	RFMIPZZ is independent. RFMIPUS = ΣRFMIPZZ
RFMSP	Residual fuel delivered for miscellaneous uses.	Thousand barrels	RFMSPZZ is independent. RFMSPUS = ΣRFMSPZZ
RFNCP	Total non-electric utilities residual fuel consumption.	Thousand barrels	RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS RFNCPUS = RFTCPUS — RFEUPUS
RFNDP	Total non-electric utilities residual fuel deliveries.	Thousand barrels	RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ RFNDPUS = ΣRFNDPZZ
RFOCP	Residual fuel delivered for use by oil companies.	Thousand barrels	RFOCPZZ is independent. RFOCPUS = ΣRFOCPZZ
RFRRP	Residual fuel delivered for use by railroads.	Thousand barrels	RFRRPZZ is independent. RFRRPUS = ΣRFRRPZZ
RFTCB	Residual fuel total consumed.	Billion Btu	RFTCBZZ = RFCCBZZ + RFICBZZ + RFACBZZ + RFEUBZZ RFTCBUS = ΣRFTCBZZ
RFTCP	Residual fuel total consumed.	Thousand barrels	RFTCPZZ = RFNCPZZ + RFEUPZZ RFTCPUS is independent.

Variable	Description	Units	Formulas
RFTRP	Residual fuel delivered to the transportation sector.	Thousand barrels	RFTRPZZ = RFBKPZZ + RFMIPZZ + RFRRPZZ RFTRPUS = ΣRFTRPZZ
SGICB	Still gas consumed by the industrial sector.	Billion Btu	SGICBZZ = SGTCBZZ SGICBUS = SGTCBUS
SGICP	Still gas consumed by the industrial sector.	Thousand barrels	SGICPZZ = SGTCPZZ SGICPUS = SGTCPUS
SGTCB	Still gas total consumed.	Billion Btu	SGTCBZZ = SGTCPZZ * 6.000 SGTCBUS = ΣSGTCBZZ
SGTCP	Still gas total consumed.	Thousand barrels	SGTCPZZ = (COCAPZZ / COCAPUS) * SGTCPUS SGTCPUS is independent.
SNICB	Special naphthas consumed by the industrial sector.	Billion Btu	SNICBZZ = SNTCBZZ SNICBUS = SNTCBUS
SNICP	Special naphthas consumed by the industrial sector.	Thousand barrels	SNICPZZ = SNTCPZZ SNICPUS = SNTCPUS
SNTCB	Special naphthas total consumed.	Billion Btu	SNTCBZZ = SNTCPZZ * 5.248 SNTCBUS = ΣSNTCBZZ
SNTCP	Special naphthas total consumed.	Thousand barrels	SNTCPZZ = (PIVAVZZ / PIVAVUS) * SNTCPUS SNTCPUS is independent.
TEACB	Total energy consumed by the transportation sector.	Billion Btu	TEACBZZ = PAACBZZ + NGACBZZ + CLACBZZ + ESACBZZ + LOACBZZ TEACBUS = PAACBUS + NGACBUS + CLACBUS + ESACBUS + LOACBUS
TEAPB	The transportation sector's energy consumption per capita.	Million Btu	TEAPBZZ = TEACBZZ / TPOPPZZ TEAPBUS = TEACBUS / TPOPPUS
TECCB	Total energy consumed by the commercial sector.	Billion Btu	TECCBZZ = PACCBZZ + NGCCBZZ + CLCCBZZ + ESCCBZZ + LOCCBZZ TECCBUS = PACCBUS + NGCCBUS + CLCCBUS + ESCCBUS + LOCCBUS

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Variable	Description	Units	Formulas
TECPB	The commercial sector's energy consumption per capita.	Million Btu	TECPBZZ = TECCBZZ / TPOPPZZ TECPBUS = TECCBUS / TPOPPUS
TEEUB	Total energy consumed by the electric utilities plus net imports of electricity into the United States.	Billion Btu	TEEUBZZ = PAEUBZZ + NGEUBZZ + CLEUBZZ + HYEOBZZ + NUEOBZZ + GEEOBZZ + WNEOBZZ + WWEOBZZ + ELIMBZZ — ELEXBZZ TEEUBUS = ΣTEEUBZZ
TEICB	Total energy consumed by the industrial sector.	Billion Btu	TEICBZZ = PAICBZZ + NGICBZZ + CLICBZZ + HYICBZZ + ESICBZZ + LOICBZZ TEICBUS = PAICBUS + NGICBUS + CLICBUS + HYICBUS + ESICBUS + LOICBUS + CCNIBUS
TEIPB	The industrial sector's energy consumption per capita.	Million Btu	TEIPBZZ = TEICBZZ / TPOPPZZ TEIPBUS = TEICBUS / TPOPPUS
TERCB	Total energy consumed by the residential sector.	Billion Btu	TERCBZZ = PARCBZZ + NGRCBZZ + CLRCBZZ + ESRCBZZ + LORCBZZ TERCBUS = PARCBUS + NGRCBUS + CLRCBUS + ESRCBUS + LORCBUS
TERPB	The residential sector's energy consumption per capita.	Million Btu	TERPBZZ = TERCBZZ / TPOPPZZ TERPBUS = TERCBUS / TPOPPUS
TETCB	Total energy consumed by all sectors.	Billion Btu	TETCBZZ = TERCBZZ + TECCBZZ + TEICBZZ + TEACBZZ TETCBUS = TERCBUS + TECCBUS + TEICBUS + TEACBUS
TETPB	Total energy consumption per capita.	Million Btu	TETPBZZ = TETCBZZ / TPOPPZZ TETPBUS = TETCBUS / TPOPPUS
TNACB	Total net energy consumed by the transportation sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNACBZZ = TEACBZZ — LOACBZZ TNACBUS = TEACBUS — LOACBUS
TNCCB	Total net energy consumed by the commercial sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNCCBZZ = TECCBZZ — LOCCBZZ TNCCBUS = TECCBUS — LOCCBUS

Variable	Description	Units	Formulas
TNICB	Total net energy consumed by the industrial sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNICBZZ = TEICBZZ — LOICBZZ TNICBUS = TEICBUS — LOICBUS
TNRCB	Total net energy consumed by the residential sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNRCBZZ = TERCBZZ — LORCBZZ TNRCBUS = TERCBUS — LORCBUS
TPOPP	The resident population including the Armed Forces residing in each State.	Thousand people	TPOPPZZ is independent. TPOPPUS is independent.
UOICB	Unfinished oils consumed by the industrial sector.	Billion Btu	UOICBZZ = UOTCBZZ UOICBUS = UOTCBUS
UOICP	Unfinished oils consumed by the industrial sector.	Thousand barrels	UOICPZZ = UOTCPZZ UOICPUS = UOTCPUS
UOTCB	Unfinished oils total consumed.	Billion Btu	UOTCBZZ = UOTCPZZ * 5.825 UOTCBUS = ΣUOTCBZZ
UOTCP	Unfinished oils total consumed.	Thousand barrels	UOTCPZZ = (COCAPZZ / COCAPUS) * UOTCPUS UOTCPUS is independent.
USICB	Unfractionated stream consumed by the industrial sector.	Billion Btu	USICBZZ = USTCBZZ USICBUS = USTCBUS
USICP	Unfractionated stream consumed by the industrial sector.	Thousand barrels	USICPZZ = USTCPZZ USICPUS = USTCPUS
USTCB	Unfractionated stream total consumed.	Billion Btu	USTCBZZ= USTCPZZ * 5.418 USTCBUS = ΣUSTCBZZ
USTCP	Unfractionated stream total consumed.	Thousand barrels	USTCPZZ = (OCVAVZZ / OCVAVUS) * USTCPUS USTCPUS is independent.
WIEOB	Electricity produced from wood, waste, wind, photovoltaic, and solar thermal energy sources at electric utilities.	Billion Btu	WIEOBZZ = WWEOBZZ + WNEOBZZ WIEOBUS = ΣWIEOBZZ

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Variable	Description	Units	Formulas
WIEOP	Electricity produced from wood, waste, wind, photovoltaic, and solar thermal energy sources at electric utilities.	Million kilowatthours	WIEOPZZ = WWEOPZZ + WNEOPZZ WIEOPUS = ΣWIEOPZZ
WNEOB	Electricity produced from wind, photovoltaic, and solar thermal energy sources at electric utilities.	Billion Btu	WNEOBZZ = WNEOPZZ * FFEOKUS WNEOBUS = ΣWNEOBZZ
WNEOP	Electricity produced from wind, photovoltaic, and solar thermal energy sources at electric utilities.	Million kilowatthours	WNEOPZZ is independent. WNEOPUS = ΣWNEOPZZ
WWEOB	Electricity produced from wood and waste at electric utilities.	Billion Btu	WWEOBZZ = WWEOPZZ * FFEOKUS WWEOBUS = ΣWWEOBZZ
WWEOP	Electricity produced from wood and waste at electric utilities.	Million kilowatthours	WWEOPZZ is independent. WWEOPUS = ΣWWEOPZZ
WXICB	Waxes consumed by the industrial sector.	Billion Btu	WXICBZZ = WXTCBZZ WXICBUS = WXTCBUS
WXICP	Waxes consumed by the industrial sector.	Thousand barrels	WXICPZZ = WXTCPZZ WXICPUS = WXTCPUS
WXTCB	Waxes total consumed.	Billion Btu	WXTCBZZ = WXTCPZZ * 5.537 WXTCBUS = ΣWXTCBZZ
WXTCP	Waxes total consumed.	Thousand barrels	WXTCPZZ = (CGVAVZZ / CGVAVUS) * WXTCPUS WXTCPUS is independent.

Appendix C

Sources of Independent Variables in the State Energy Data System

Aluminum Ingot Production Capacity

AICAPZZ — Aluminum ingot production capacity in each State.

- 1960 through 1973: American Bureau of Metal Statistics, *Year Book.*
- 1974 forward: American Bureau of Metal Statistics, *Non-Ferrous Metal Data,* table titled, "Aluminum Ingot Production Capacity."
  Note: Capacities for individual plants owned by one company were withheld in 1986 forward. The company's total capacity was apportioned to the individual plants based on their proportional capacities in 1985.

Anthracite

ACEUKUS — Factor for converting anthracite consumed by the electric utilities from physical units to Btu.

- 1960 through 1972: Energy Information Administration (EIA) assumed that all anthracite consumed at electric utilities was recovered from culm banks and river dredging and estimated to have an average heat content of 17.500 million Btu per short ton.
- 1973 forward: Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities. These data are from the Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants" and predecessor forms.

ACEUPZZ — Anthracite consumed by the electric utilities by State.
EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms.

ACHCPUS — Anthracite consumed by the residential and commercial sectors in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Pennsylvania Anthracite Annual."
- 1973 through 1984: EIA, *Weekly Coal Production,* August 9, 1986, Table 9.
- 1985 through 1987: EIA, *Weekly Coal Production,* July 16, 1988, Table 8.
- 1988 forward: EIA, Unpublished data from Forms EIA-3, EIA-5, EIA-6, and EIA-759.

ACHDPZZ — Anthracite distributed to the residential and commercial sectors.

- 1960 through 1979: No data available. The 1980 State data are used for years 1960 through 1979.
- 1980 forward: Consumption estimates are used for this distribution series. Consumption of all types of coal by State is published in EIA, *Quarterly Coal Report, October–December* for each year. Data are from the report of the following year, i.e., 1982 final data are published in the *Quarterly Coal Report, October–December 1983.* The specific tables are:
  — 1980: Unpublished data.
  — 1981 through 1983: Table 27.
  — 1984 through 1988: Table 29.
  — 1989: Prepublished final revisions.
  Withheld State values for consumption of all types of coal are estimated using distribution data. When U.S. residential and commercial coal distribution does not equal U.S. residential and commercial coal consumption, the State distribution values are adjusted in proportion to the difference in the U.S. values so that the sum of State distribution equals the U.S. consumption value. The distribution data are published in:
  — 1980 through 1984: EIA, *Coal Distribution, January–December 1984,* Table 21.
  — 1985 forward: EIA, *Coal Distribution, January–December 1989,* Table 15.
  Anthracite consumption is estimated by using distribution data published in EIA, *Coal Distribution, January–December* for each year (District 24 represents all anthracite). The specific tables are:
  — 1980 through 1983: Tables 8 and 9.
  — 1984: Tables 6 and 8.
  — 1985 forward: Tables 6 and 33.
  State distribution data are increased or decreased in the same proportion that total U.S. distribution is to total U.S. consumption so that the sum of the States' distribution equals total U.S. consumption.

ACKCPUS — Anthracite carbonized by coke plants in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Pennsylvania Anthracite Annual."

- 1973 through 1984: EIA, *Weekly Coal Production,* August 9, 1986, Table 9.
- 1985 through 1987: EIA, *Weekly Coal Production,* July 16, 1988, Table 8.
- 1988 forward: EIA, Unpublished data from Forms EIA-3, EIA-5, EIA-6, and EIA-759.

ACKDPZZ — Anthracite distributed to coke plants by State.

- 1960 through 1979: No data available. The 1980 State data are used for years 1960 through 1979.
- 1980 forward: Consumption estimates are used for this distribution series. Consumption of all types of coal by State is published in EIA, *Quarterly Coal Report, October–December* for each year. Data are from the report of the following year, i.e., 1982 final data are published in the *Quarterly Coal Report, October–December 1983.* The specific tables are:
  — 1980: Unpublished data.
  — 1981 through 1983: Table 25.
  — 1984 through 1988: Table 27.
  — 1989: Prepublished final revisions.

  Withheld State values for consumption of all types of coal are estimated using distribution data. After withheld residential and commercial coal consumption values have been estimated, withheld coke plant consumption is the difference between the sum of the published and estimated end-use sectors' consumption and the published State total consumption.

  Anthracite consumption is estimated by using distribution data published in EIA, *Coal Distribution, January–December* for each year (District 24 represents all anthracite). The specific tables are:
  — 1980 through 1983: Tables 8 and 9.
  — 1984: Tables 6 and 8.
  — 1985 forward: Tables 6 and 33.

  State distribution data are increased or decreased in the same proportion that total U.S. distribution is to total U.S. consumption so that the sum of the States' distribution equals total U.S. consumption.

ACNUKUS — Factor for converting anthracite consumed by the non-electric utility sectors from physical units to Btu.

Calculated annually by EIA by dividing the heat content of anthracite production less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of non-electric utility anthracite consumption less the quantity of anthracite stock changes, losses, and unaccounted for.

ACOCPUS — Anthracite consumed by industrial users other than coke plants in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Pennsylvania Anthracite, Annual."
- 1973 through 1984: EIA, *Weekly Coal Production,* August 9, 1986, Table 9.
- 1985 through 1987: EIA, *Weekly Coal Production,* July 16, 1988, Table 8.
- 1988 forward: EIA, Unpublished data from Forms EIA-3, EIA-5, EIA-6, and EIA-759.

ACODPZZ — Anthracite distributed to industrial plants (other than coke plants) by State.

- 1960 through 1979: No data available. The 1980 State data are used for years 1960 through 1979.
- 1980 forward: Consumption estimates are used for this distribution series. Consumption of all types of coal by State is published in EIA, *Quarterly Coal Report, October–December* for each year. Data are from the report of the following year, i.e., 1982 final data are published in the *Quarterly Coal Report, October–December 1983.* The specific tables are:
  — 1980: Unpublished data.
  — 1981 through 1983: Table 26.
  — 1984 through 1988: Table 28.
  — 1989: Prepublished final revisions.

  Withheld State values for consumption of all types of coal are estimated using distribution data. After withheld residential and commercial coal consumption values have been estimated, withheld consumption by other industrial users is the difference between the sum of the published and estimated end-use sectors' consumption and the published State total consumption.

  Anthracite consumption is estimated by using distribution data published in EIA, *Coal Distribution, January–December* for each year (District 24 represents all anthracite). The specific tables are:
  — 1980 through 1983: Tables 8 and 9.
  — 1984: Tables 6 and 8.
  — 1985 forward: Tables 6 and 33.

  State distribution data are increased or decreased in the same proportion that total U.S. distribution is to total U.S. consumption so that the sum of the States' distribution equals total U.S. consumption.

Asphalt

ASINPZZ — Asphalt sold to the industrial sector by State.

- 1960 through 1977: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Sales of Asphalt," The specific tables are:

— 1960 through 1962: Table 6.
— 1963 through 1977: Table 5.

- 1978 through 1980: EIA, *Energy Data Reports,* "Sales of Asphalt," Table 2. of Asphalt," Table 2.
- 1981 through 1986: The Asphalt Institute *Asphalt Usage 1987 United States and Canada,* Table B.
- 1987 and 1988: The Asphalt Institute *Asphalt Usage 1988 United States and Canada,* Tables A and B for State data. *Asphalt Usage 1989 United States and Canada,* page 2 for revised U.S. totals. The Asphalt Institute did not publish corresponding revised State data but did advise EIA on an estimation procedure to adjust 19 State values to sum to the revised U.S. totals.
- 1989: The Asphalt Institute *Asphalt Usage 1989 United States and Canada,* page 5.

ASTCPUS — Asphalt total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2. (This variable includes road oil beginning in 1983.)

Aviation Gasoline

AVMIPZZ — Aviation fuel issued to the military in the United States by State.

- 1960 through 1974: No data available.
- 1975 and 1976: No consistent data series are available. The 1977 data are used for both years.
- 1977 through 1988: The U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, Defense Energy Information System, military retail issues based on fiscal year data. The District of Columbia issues are assumed to be zero; therefore, values reported for the District of Columbia are added to Maryland.
- 1989: The U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. State data from two fiscal year data bases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-plane Data Base (military purchases from commercial airports). Into-Plane values reported for the District of Columbia are added to Virginia.

AVNMMZZ — Aviation gasoline sold to nonmilitary users by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics,* Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table G-24 in 1965 and MF-24 in 1966 forward.

AVTCPUS — Aviation gasoline total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Aviation Gasoline Blending Components

ABTCPUS — Aviation gasoline blending components total consumed in the United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Bituminous Coal and Lignite

BCACPUS — Bituminous coal and lignite consumed by the transportation sector in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Bituminous and Lignite."
- 1976 and 1977: EIA, *Energy Data Reports,* "Coal-Bituminous and Lignite by Consumer and Retail Deliveries."
- 1978 forward: Small amounts of bituminous coal and lignite consumed by the transportation section are included in the other industrial category (see BCOCPUS). Zero is entered for this variable.

BCEUKZZ — Factor for converting bituminous coal and lignite consumed by the electric utilities from physical units to Btu by State.

- 1960 through 1972: EIA adopted the average thermal conversion factor of the Bureau of Mines which used the National Coal Association (NCA) average thermal conversion factor for electric utilities calculated from the Federal Power Commission's Form 1 and published in *Steam Electric Plant Factors,* an NCA annual report. The specific tables are:
  — 1960 and 1961: Table 1.
  — 1962 through 1972: Table 2.

- 1973 through 1982: The average heat content of coal received at steam electric plants 25 megawatts or greater from FPC Form 423 and published in Btu per pound in EIA, *Cost and Quality of Fuels for Electric Utility Plants.* "Destination and Origin of Coal 'Delivered to' (1973-79) 'Receipts to' (1980) 'Received at' (1981-82) Steam-Electric Plants 25-MW or Greater."
- 1983 forward: The average heat content of coal received at steam electric plants 50 megawatts capacity or larger from FERC Form 423 and published in Btu per pound in EIA, *Cost and Quality of Fuels for Electric Utility Plants.* The specific tables are:
  - 1983 and 1984: Table 58.
  - 1985 forward: Table 48.

Notes: • The State conversion factors for 1960–1972 were derived from actual consumption data, while the conversion factors for 1973 to the present were based on receipts of coal. The factors for 1960–1972 may also have included some quantities of anthracite. These breaks in the series create some data discrepancies. • Alaska and Hawaii were excluded from the NCA report, Form FPC-423 and FERC Form 423. However, Alaska reported consumption of bituminous coal and lignite at electric utilities for all years. An FPC heat rate for coal at electric utilities in Alaska was used for 1960 through 1978 as published in EIA, *Federal Energy Data System (FEDS) Technical Documentation,* June 1978, Table 21. The 1972 conversion factor (the last year for which a conversion factor was reported for Alaska) was used for 1972–1978. According to industry sources, new mines were opened in 1978 and a more representative factor was used for 1979 and following years. • In instances where a State had no receipts for a particular year but did report consumption, it was assumed that the coal received in one year was consumed during the following year and the Btu value of the previous year's receipts was used.

BCEUPZZ — Bituminous coal and lignite consumed by the electric utilities by State.

EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms.

BCHCKZZ — State factor for converting bituminous coal and lignite consumed by the residential/commercial sector from physical units to Btu.

- 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed in the residential and commercial sector by the ratios of 1960-1973 national averages for the sector to its 1974 average.
- 1974 forward: Calculated by EIA by assuming that the bituminous coal and lignite consumed in the residential and commercial sector in each State contained heating values equal to bituminous coal and lignite received at electric utilities in each State from identified coal producing districts as reported on the Federal Energy Regulatory Commission FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal producing district was applied to deliveries to the residential and commercial sector in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal producing district are reported on Form EIA-6, "Coal Distribution Report" and predecessor Bureau of Mines Form 6-1419-Q.

BCHCPUS — Bituminous coal and lignite consumed by the residential and commercial sector in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Bituminous and Lignite," column titled "Retail dealers" or "Retail sales."
- 1973 through 1984: EIA, *Weekly Coal Production,* August 9, 1986, Table 8.
- 1985 through 1987: EIA, *Weekly Coal Production,* July 16, 1988, Table 7.
- 1988 forward: EIA, Unpublished data from Forms EIA-3, EIA-5, EIA-6, and EIA-759.

BCHDPZZ — Bituminous coal and lignite distributed to the residential and commercial sectors by State.

- 1960 through 1976: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Bituminous and Lignite." Columns titled "Retail dealers."
- 1977 through 1979: EIA, *Energy Data Reports,* "Coal-Bituminous and Lignite." The specific tables are:
  - 1977: "Comparative Summary of Distribution of Bituminous Coal and Lignite Produced in the United States During the First Nine Months of 1977" and "Distribution of Bituminous Coal and Lignite Produced in the United States During October-December 1977, by Geographic Division and State Destination," columns titled "Retail dealers."
  - 1978: "Distribution of Bituminous Coal and Lignite Produced in the United States," column titled "Retail sales."
  - 1979: "Overall Summary of Distribution of Bituminous, Subbituminous, and Lignite Coal Produced in the United States," column titled "Retail sales."
- 1980 forward: Consumption estimates are used for this distribution series. Bituminous coal and lignite consumption is the remainder when estimated

anthracite consumption is subtracted from all coal consumption in each State. See ACHDPZZ for data sources and estimation procedures. Consumption shown as "Unknown" is assumed to be bituminous coal and lignite and is allocated to six States (Alabama, Illinois, Kentucky, Pennsylvania, Tennessee, and West Virginia) in proportion to their total distribution of all coal.

BCKCPUS — Bituminous coal and lignite carbonized at coke plants in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Bituminous and Lignite," sum of columns "Beehive coke plants" and "Oven coke plants."
- 1973 through 1984: EIA, *Weekly Coal Production,* August 9, 1986, Table 8.
- 1985 through 1987: EIA, *Weekly Coal Production,* July 16, 1988, Table 7.
- 1988 forward: EIA, Unpublished data from Forms EIA-3, EIA-5, EIA-6, and EIA-759.

BCKDPZZ — Bituminous coal and lignite distributed to coke plants, a portion of the industrial sector by State.

- 1960 through 1976: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Bituminous and Lignite."
- 1977 through 1979: EIA, *Energy Data Reports,* "Coal-Bituminous and Lignite." The specific tables are:
  - 1977: "Comparative Summary of Distribution of Bituminous Coal and Lignite Produced in the United States During the First Nine Months of 1977" and "Distribution of Bituminous Coal and Lignite Produced in the United States During October-December 1977, by Geographic Division and State Destination."
  - 1978: "Distribution of Bituminous Coal and Lignite Produced in the United States."
  - 1979: "Overall Summary of Distribution of Bituminous, Subbituminous, and Lignite Coal Produced in the United States."
- 1980 forward: Consumption estimates are used for this distribution series. Bituminous coal and lignite consumption is the remainder when estimated anthracite consumption is subtracted from all coal consumption in each State. See ACKDPZZ for data sources and estimation procedures.

BCOCKZZ — State factor for converting bituminous coal and lignite consumed by other industrial users from physical units to Btu.

- 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960-1973 national averages for the other industrial users to its 1974 average.
- 1974 forward: Calculated by EIA by assuming that the bituminous coal and lignite consumed by industrial users other than coke plants in each State contained heating values equal to bituminous coal and lignite received at electric utilities in each State from identified coal producing districts as reported on Federal Energy Regulatory Commission FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal producing district was applied to deliveries to other industrial users in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average.

BCOCPUS — Bituminous coal and lignite consumed by industrial users other than coke plants in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Bituminous and Lignite," Table titled, "Consumption of bituminous coal and lignite, by consumer class, and retail deliveries in the United States." Sum of columns 'Steel and rolling mills,' 'Cement mills,' and 'Other manufacturing and mining industries.'
- 1973 through 1984: EIA, *Weekly Coal Production,* August 9, 1986, Table 8.
- 1985 through 1987: EIA, *Weekly Coal Production,* July 16, 1988, Table 7.
- 1988 forward: EIA, Unpublished data from Forms EIA-3, EIA-5, EIA-6, and EIA-759.

BCODPZZ — Bituminous coal and lignite distributed to industrial plants (other than coke plants) by State.

- 1960 through 1976: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coal-Bituminous and Lignite."
- 1977 through 1979: EIA, *Energy Data Reports,* "Coal-Bituminous and Lignite." The specific tables are:
  - 1977: "Comparative Summary of Distribution of Bituminous Coal and Lignite Produced in the United States During the First Nine Months of 1977" and "Distribution of Bituminous Coal and Lignite Produced in the United States During October-December 1977, by Geographic Division and State Destination."
  - 1978: "Distribution of Bituminous Coal and Lignite Produced in the United States."
  - 1979: "Overall Summary of Distribution of Bituminous, Subbituminous, and Lignite Coal Produced in the United States."
- 1980 forward: Consumption estimates are used for this distribution series. Bituminous coal and lignite consumption is the remainder when estimated anthracite consumption is subtracted from all coal consumption in each State. See ACODPZZ for data sources and estimation procedures.

Consumption shown as "Unknown" is assumed to be bituminous coal and lignite and is allocated to six States (Alabama, Illinois, Kentucky, Pennsylvania, Tennessee, and West Virginia) in proportion to their total distribution of all coal.

Catalytic Cracking Charge Capacity

CTCAPZZ — Catalytic cracking charge capacity of petroleum refineries by State.

- 1960: Data are unavailable from published reports. The 1961 values are used for 1960.
- 1961 through 1963: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Refineries in the United States." The specific tables are:
  - — 1961 and 1962: Table 7, under Cracking Capacity column heading "Charge."
  - — 1963: Table 6, under Catalytic-Cracking Capacity column heading "Charge."
- 1964 through 1976: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Refineries in the United States and Puerto Rico," Table 2, all entries next to "Cat. Ck." summed by State.
- 1977: EIA, *Energy Data Reports,* "Petroleum Refineries in the United States and Puerto Rico," Table 2, all entries next to "Cat. Ck." summed by State.
- 1978: EIA, *Energy Data Reports,* "Petroleum Refineries in the United States and U.S. Territories," Table 2, all entries next to "Cat. Ck." summed by State.
- 1979 and 1980: EIA, *Energy Data Reports,* "Petroleum Refineries in the United States and U.S Territories." The specific tables are:
  - — 1979: Table 2, sum of Catalytic Cracking columns, "Fresh" and "Recycle."
  - — 1980: Table 1, sum of "Catalytic Cracking (fresh)" and "Catalytic Cracking (recycle)" columns.
- 1981 forward: EIA, *Petroleum Supply Annual,* sum of "Catalytic Cracking (Fresh)" and "Catalytic Cracking (Recycled)" columns in the following tables:
  - — 1981 through 1983: Table 1.
  - — 1984: Table 30.
  - — 1985 through 1988: Table 29.
  - — 1989: Table 36.

Coal Coke

CCEXPUS — Coal coke exported from the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coke and Coal Chemicals Annual."
- 1976 through 1979: EIA, *Energy Data Reports,* "Coke and Coal Chemicals Monthly."
- 1980 forward: EIA, *Quarterly Coal Report* (January–March), Table A1.

CCIMPUS — Coal coke imported into the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* "Coke and Coal Chemicals Annual."
- 1976 through 1979: EIA, *Energy Data Reports,* "Coke and Coal Chemicals Monthly."
- 1980 forward: EIA, *Quarterly Coal Report* (January–March), Table A1.

Crude Oil (including lease condensate)

COCAPZZ — Crude oil throughput operating capacity at refineries by State.

- 1960: U.S. Department of the Interior, Bureau of Mines, *Petroleum Refineries, Including Cracking Plants, in the United States,* Table 3.
- 1961 through 1963: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys* "Petroleum Refineries in the United States." The specific tables are:
  - — 1961 and 1962: Table 3.
  - — 1963: Table 1.
- 1964 through 1976: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys* "Petroleum Refineries in the United States and Puerto Rico," Table 1.
- 1977: EIA, *Energy Data Reports,* "Petroleum Refineries in the United States and Puerto Rico," Table 1.
- 1978 through 1980: EIA, *Energy Data Reports,* "Petroleum Refineries in the United States and U.S. Territories," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual.* The specific tables are:
  - — 1981 through 1983: Table 1.
  - — 1984: Table 30.
  - — 1985 through 1988: Table 29.
  - — 1989: Table 36.

COTCPZZ — Crude oil consumed in petroleum industry operations by State.

- 1960 through 1982: Crude oil used directly was included in distillate and residual fuel product supplied when reported to EIA. Zeros are entered for all years.
- 1983 forward: Data are available for Petroleum Administration for Defense Districts (PADD), not by State. State estimates are calculated by allocating all crude oil consumption to the six States (Alaska, California, Colorado, Louisiana, Texas, and Utah) that reported distillate and residual fuels consumed by pipeline and leases in 1982. (Pipeline and lease consumption of fuels is not available after 1982.) Each State's 1982 ratio of distillate and residual fuels consumed by pipeline and leases to its respective 1982 PADD total consumption of those fuels is calculated. This ratio is then applied to the 1983 forward PADD totals of crude oil product supplied. The 1982 ratios are from the Form EIA-90, "Crude Oil Stocks Report," and the crude oil product supplied data are from the EIA's *Petroleum Supply Annual.* The specific tables are:
  - — 1983 through 1988: Tables 2 and 4 through 8.
  - — 1989: Tables 2, 4, 6, 8, 10, and 12.

Distillate Fuel

DFBKPZZ — Distillate fuel delivered for vessel bunkering use by State, excluding that sold to the Armed Forces.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  - — 1960 and 1961: Table 17.
  - — 1962 and 1963: Table 16.
  - — 1964 and 1965: Table 15.
  - — 1966 through 1975: Table 11.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 11.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A12.
  - — 1985 and 1986: July 1987 issue, Table A16.
  - — 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

DFCMPZZ — Distillate fuel delivered to the commercial sector for space heating, water heating, and cooking.

- 1960 through 1978: EIA estimates based on statistics of commercial sector deliveries of distillate fuel from the EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene in 1979," Table 1. State ratios based on 1979 commercial sector deliveries were applied to each State's sum of heating plus industrial (including farm use) deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Appendix A, Section 2. Petroleum, "Distillate Fuel," Note 3.)
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A12.
  - — 1985 and 1986: July 1987 issue, Table A16.
  - — 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

DFIBPZZ — Distillate fuel delivered to industrial establishments for space heating and for other industrial use, including farm use.

- 1960 through 1978: EIA estimates based on statistics of industrial sector deliveries of distillate fuel from the EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene in 1979," Table 1. State ratios based on 1979 industrial sector deliveries were applied to each State's sum of heating plus industrial (including farm use) deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Appendix A, Section 2. Petroleum, "Distillate Fuel," Note 3.)
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:

— 1983 and 1984: July 1985 issue, Table A12.
— 1985 and 1986: July 1987 issue, Table A16.
— 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

DFMIPZZ — Distillate fuel delivered for military use (including imports for the military) by State.
- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  — 1960 and 1961: Table 18.
  — 1962 and 1963: Table 17.
  — 1964 and 1965: Table 16.
  — 1966 through 1975: Table 12.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 12.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.
- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  — 1983 and 1984: July 1985 issue, Table A12.
  — 1985 and 1986: July 1987 issue, Table A16.
  — 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

DFOCPZZ — Distillate fuel delivered for use by oil companies by State.
- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  — 1960 and 1961: Table 14.
  — 1962 and 1963: Table 13.
  — 1964 and 1965: Table 12.
  — 1966 through 1975: Table 9.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 9.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.
- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  — 1983 and 1984: July 1985 issue, Table A12.
  — 1985 and 1986: July 1987 issue, Table A16.
  — 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

DFOFPZZ — Distillate fuel delivered as diesel for off-highway use by State.
- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  — 1960 through 1962: Table 19.
  — 1963 and 1964: Table 18.
  — 1965 through 1967: Table 17.
  — 1968 through 1975: Table 14.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.
- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  — 1983 and 1984: July 1985 issue, Table A12.
  — 1985 and 1986: July 1987 issue, Table A16.
  — 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

DFONPZZ — Distillate fuel delivered as diesel-type fuel for onhighway use by State.
- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  — 1960 through 1962: Table 19.
  — 1963 and 1964: Table 18.
  — 1965 through 1967: Table 17.
  — 1968 through 1975: Table 14.

- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A12.
  - — 1985 and 1986: July 1987 issue, Table A16.
  - — 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

DFOTPZZ — Distillate fuel delivered for all other uses not identified in other deliveries categories.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  - — 1960 through 1962: Table 19.
  - — 1963 and 1964: Table 18.
  - — 1965 through 1967: Table 17.
  - — 1968 through 1975: Table 14.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A12.
  - — 1985 and 1986: July 1987 issue, Table A16.
  - — 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

DFRRPZZ — Distillate fuel delivered for use by railroads by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  - — 1960 and 1961: Table 16.
  - — 1962 and 1963: Table 15.
  - — 1964 and 1965: Table 14.
  - — 1966 through 1975: Table 10.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 10.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A12.
  - — 1985 and 1986: July 1987 issue, Table A16.
  - — 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

DFRSPZZ — Distillate fuel delivered to the residential sector for space heating, water heating, and cooking.

- 1960 through 1978: EIA estimates based on statistics of residential sector deliveries of distillate fuel from the EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene in 1979," Table 1. State ratios based on 1979 residential sector deliveries were applied to each State's sum of heating plus industrial (including farm use) deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Appendix A, Section 2. Petroleum, "Distillate Fuel," Note 3.)
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 4.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A12.
  - — 1985 and 1986: July 1987 issue, Table A16.
  - — 1987: June 1988 issue, Table A16.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 16.

Sources of Independent Variables in the State Energy Data System

DFTCPUS — Distillate fuel total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

DKEUPZZ — Distillate fuel consumed by the electric utilities, including kerosene-type jet fuel.

EIA, Form EIA-759 "Monthly Power Plant Report" and predecessor forms. The following assumptions have been made:

- — 1960 through 1969: Only total fuel oil consumed at electric utilities by State is available. State estimates of distillate fuel consumption were created for each year by applying the shares of internal combustion and gas turbine plants (primarily distillate fuel plus small amounts of jet kerosene) by State from 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
- — 1970 through 1979: Fuel oil consumed by plant type by State is available. Fuel oil consumed by internal combustion and gas turbine plants combined is assumed to equal distillate and jet kerosene consumption.
- — 1980 forward: Consumption of light and heavy oil at all plant types by State is available. Total light oil consumption at all plant types is assumed to equal distillate and jet kerosene consumption.

Electricity Exports and Imports

ELEXPZZ — Electricity exported from the United States by State.

- 1960 through 1981: Economic Regulatory Administration, *Staff Reports,* "Report on Electric Energy Exchanges with Canada and Mexico." Source data are arranged by the Regional Reliability Council Areas and then by the electric utility. State data were tabulated by aggregating the data of all electric utilities within each State.
- 1982 and 1983: EIA State estimates based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data." State estimates are consistent with national and regional totals published in the ERA, *Electricity Exchanges Across International Borders.*
- 1984 through 1987: EIA State estimates based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data." State estimates are consistent with national and regional totals published in the ERA, *Electricity Transactions Across International Borders.*
- 1988 forward: EIA State estimates based on data from DOE, Fossil Fuels, Fuels Programs, Office of Coal and Electricity, Form ERA-781R, "Annual Report of Electrical Export/Import Data."

ELIMPZZ — Electricity imported into the United States by State.

- 1960 through 1981: Economic Regulatory Administration, *Staff Reports,* "Report on Electric Energy Exchanges with Canada and Mexico." Source data are arranged by the Regional Reliability Council Areas and then by the electric utility. State data were tabulated by aggregating the data of all electric utilities within each State.
- 1982 and 1983: EIA State estimates based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data." State estimates are consistent with national and regional totals published in the ERA, *Electricity Exchanges Across International Borders.*
- 1984 through 1987: EIA State estimates based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data." State estimates are consistent with national and regional totals published in the ERA, *Electricity Transactions Across International Borders.*
- 1988 forward: EIA State estimates based on data from DOE, Fossil Fuels, Fuels Programs, Office of Coal and Electricity, Form ERA-781R, "Annual Report of Electrical Export/Import Data."

Electricity Sales

ESCMPZZ — A portion of the electricity sold to the commercial sector by State.

Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Appendix A, Section 5. Electricity, "Additional Notes on Electricity," Note 2.

- 1960 through 1975: Federal Power Commission, *Electric Power Statistics,* "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, *Electric Power Annual* (November 1982), Table 125.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement" and predecessor forms. Published rounded to gigawatthours in EIA, *Electric Power Annual 1983,* Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1988,* Table 19.

- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1989,* Table 27.

ESICPZZ — Electricity consumed by the industrial sector by State.
Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Appendix A, Section 5. Electricity, "Additional Notes on Electricity," Note 2.

- 1960 through 1975: Federal Power Commission, *Electric Power Statistics,* "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, *Electric Power Annual* (November 1982), Table 126.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement" and predecessor forms. Published rounded to gigawatthours in EIA, *Electric Power Annual 1983,* Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1988,* Table 19.
- 1988 and 1989: EIA, Form-861, "Annual Electric Utility Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1989,* Table 27.

ESOTPZZ — Electricity sold to the "other" sector (i.e., public street and highway lighting, sales to other public authorities, railroads and railways, and interdepartmental sales) by State.
Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Appendix A, Section 5. Electricity, "Additional Notes on Electricity," Note 2.

- 1960 through 1975: Federal Power Commission, *Electric Power Statistics,* "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, *Electric Power Annual,* (November 1982), Table 127.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement" and predecessor forms. Published rounded to gigawatthours in EIA, *Electric Power Annual 1983,* Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1988,* Table 19.
- 1988 and 1989: EIA Form EIA-861, "Annual Electric Utility Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1989,* Table 27.

ESRCPZZ — Electricity consumed by the residential sector by State.
Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Appendix A, Section 5. Electricity, "Additional Notes on Electricity," Note 2.

- 1960 through 1975: Federal Power Commission, *Electric Power Statistics,* "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, *Electric Power Annual,* (November 1982), Table 124.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement" and predecessor forms. Published rounded to gigawatthours in EIA, *Electric Power Annual 1983,* Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1988,* Table 19.
- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1989,* Table 27.

ESTRPZZ — Electricity consumed by transit systems by State.
Note: The transit system data include electricity used to operate commuter rail, rapid rail, streetcars or light rail, cable cars, trolleybuses, motorbuses, automated guideways, inclined plane railways, and aerial tramways. These data do not include electricity used by Amtrak.

- 1960 through 1978: EIA estimates based on data from:
  - — The American Public Transit Association (formerly the American Transit Association) annual operating reports.
  - — Pushkarev, Boris S. with others, *Urban Rail in America.* (Bloomington, IN: Indiana University Press, 1982.)
  - — U.S. Department of Transportation, *A Directory of Regularly Scheduled, Fixed Route, Local Public Transportation Service in Urbanized Areas Over 50,000 Population,* 1980 and 1981.
- 1979 through 1988: U.S. Department of Transportation, Urban Mass Transportation Administration, *National Urban Mass Transportation Statistics, Section 15 Annual Report,* table titled, "Energy Consumption: Details by Transit System." These data are available on a fiscal year basis (July 1 through June 30) for 1979 through 1982 and for calendar years 1983 and

1984. Some data for 1979 through 1983 were adjusted by EIA based on analysis of historical trends. Electricity consumption for the District of Columbia for all years is partially apportioned to Maryland and Virginia based on electricity consumption data from the Washington Metropolitan Area Transit Authority.

- 1989: Data were not available when the current *State Energy Data Report* was prepared; therefore, the 1988 data were assumed for 1989 in the State Energy Data System.

ESTRSUS — The share of electricity sold to the "other" sector (ESOTPZZ) which is used for transportation (i.e., by railroads and railways) by State. (See further explanation of this share in Appendix A, Section 5. Electricity, "Additional Notes on Electricity," Note 1.) Based on kilowatthour sales from:

- 1960 through 1971: Federal Power Commission, *Statistics of Privately Owned Electric Utilities in the United States, 1971,* Table 15.
- 1972 and 1973: EIA, *Financial Statistics of Selected Electric Utilities 1976,* Table 13.
- 1974 through 1983: EIA, *Financial Statistics of Selected Electric Utilities 1983,* Table 8.
- 1984 through 1987: EIA, *Financial Statistics of Selected Electric Utilities 1987,* Table 17.
- 1988 and 1989: EIA, *Financial Statistics of Selected Investor-Owned Electric Utilities 1989,* Table 14.

Petrochemical Feedstocks

FNTCPUS — Petrochemical feedstocks, naphtha, less than 401 °F total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

FOTCPUS — Petrochemical feedstocks, other oils, equal to or greater than 401 °F, total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

FSTCPUS — Petrochemical feedstocks, still gas, total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* Petroleum Statement, Annual," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 14.
- 1983 through 1985: EIA, *Petroleum Supply Annual,* Table 12.
- 1986 forward: EIA, *Petroleum Supply Annual,* Table 2, included in "Still Gas."

Fossil Fuels

FFEOKUS — Fossil Fuel steam-electric power plant conversion factor.

- 1960 through 1988: Assumed by EIA to be the weighted average annual heat rate for fossil-fueled steam-electric plants in the United States as published in the EIA, *Electric Plant Cost and Power Production Expenses 1988,* Table 11.
- 1989: Prepublished data.

Geothermal

GEEOKUS — Factor for converting electricity produced from geothermal energy from physical units to Btu.

- 1960 through 1981: Calculated by EIA by weighting the average annual heat rates of operating geothermal units by the installed nameplate capacities as reported on Federal Power Commission Form FPC-12.
- 1982 forward: Estimated annually by the EIA based on an informal survey of relevant plants.

GEEOPZZ — Electricity produced from geothermal energy at electric utilities by State.

EIA, Form EIA-759, "Monthly Power Plant Report" and predecessor forms.

Hydroelectric Power

HYEOPZZ — Electricity produced from hydropower at electric utilities by State.

- 1960 through 1977: Federal Power Commission, News Release, "Power Production, Fuel Consumption, and Installed Capacity Data."
- 1978 through 1980: EIA, *Energy Data Reports,* "Power Production, Fuel Consumption and Installed Capacity Data."

- 1981 through 1985: EIA, Form EIA-759, "Monthly Power Plant Report" and predecessor forms. Published rounded to gigawatthours in EIA, *Electric Power Annual 1985*, Table 6.
- 1986 and 1987: EIA, Form EIA-759, "Monthly Power Plant Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1987*, Table 18.
- 1988 and 1989: EIA, Form EIA-759, "Monthly Power Plant Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1989*, Table 14.

HYICPZZ — Electricity produced from hydropower by industrial facilities primarily for their own use.
- 1960 through 1978: Federal Power Commission, Form 4, "Monthly Power Plant Report."
- 1979 and 1980: EIA estimates based on previous years' data.
- 1981 forward: No data available. The 1980 data are repeated for each year 1981 forward.

Jet Fuel

JKEUPZZ — Kerosene-type jet fuel consumed by electric utilities by State.
- 1960 through 1971: No data available. Values are assumed to be zero.
- 1972 through 1974: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Sales of Fuel Oil and Kerosene," Table 15 footnote for U.S. value. These data were apportioned to the States using the 1975 State proportions of the 1975 U.S. total from the source below.
- 1975 through 1979: Office of Electric Power Regulation, Federal Energy Regulatory Commission, *Annual Summary of Cost and Quality of Electric Utility Plant Fuels*, "Fuel Oil Deliveries for Combustion Turbine and Internal Combustion Units."
- 1980 through 1982: EIA, *Cost and Quality of Fuel for Electric Utility Plants*, Table 30.
- 1983 forward: Series discontinued; no data available. Values are assumed to be zero.

JKNMPZZ — Kerosene-type jet fuel sold (or delivered) for nonmilitary use by State.
- 1960 through 1983: Ethyl Corporation, Petroleum Chemicals Division, *Yearly Report of Gasoline Sales by States*, "Aviation Turbine Fuel Sales."
- 1984 and 1985: EIA, *Petroleum Marketing Annual 1985, Volume 2.*
  - — 1984: Table A6.
  - — 1985: Table 34.
- 1986 through 1988: EIA, *Petroleum Marketing Annual*, Table 46.
- 1989: EIA, *Petroleum Marketing Annual 1989*, Table 48.
  Withheld data were estimated by using averages of published months to fill in withheld months; subtracting published States from published PADD totals; and assigning values based on previous years' quantities.

JKTCPUS — Kerosene-type jet fuel total consumed in the United States.
- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, Table 2.

JNMIPZZ — Naphtha-type jet fuel issued to the military in the United States.
- 1960 through 1974: No data available. The 1977 data are used for each year 1960 through 1974.
- 1975 and 1976: No consistent data series are available. The 1977 data are used for both years.
- 1977 through 1987: The U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, Defense Energy Information System, military retail issues based on fiscal year data. The District of Columbia issues are assumed to be zero; therefore, values reported for the District of Columbia are added to Maryland.
- 1988: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, average of 1987 data (see source above) and 1989 data (see source below).
- 1989: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, Defense Fuel Automated Management System, military wholesale issues based on fiscal year data.

JNTCPUS — Naphtha-type jet fuel total consumed in the United States.
- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, Table 2.

Kerosene

KSCMPZZ — Kerosene delivered to the commercial sector for heating.
- 1960 through 1978: EIA estimates based on statistics of commercial sector deliveries of kerosene from the EIA, *Energy Data Report*, "Deliveries of

Fuel Oil and Kerosene, in 1979," Table 3. State ratios based on 1979 commercial sector deliveries were applied to each State's heating deliveries category from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Appendix A, Section 2. Petroleum, "Kerosene," Note 3.)

- 1979 and 1980: EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene," Table 3.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 6.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A14.
  - — 1985 and 1986: July 1987 issue, Table A18.
  - — 1987: June 1988 issue, Table A18.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 18.

KSIHPZZ — Kerosene delivered to the industrial sector for heating.

- 1960 through 1978: EIA estimates based on statistics of industrial sector deliveries of kerosene from the EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene in 1979," Table 3. State ratios based on 1979 industrial sector deliveries were applied to each State's heating deliveries category from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Appendix A, Section 2. Petroleum, "Kerosene," Note 3.)
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 3.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 6.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A14.
  - — 1985 and 1986: July 1987 issue, Table A18.
  - — 1987: June 1988 issue, Table A18.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 18.

KSOTPZZ — Kerosene total delivered for all other uses, including farm use.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  - — 1960 and 1961: Table 10.
  - — 1962 and 1963: Table 9.
  - — 1964 and 1965: Table 8.
  - — 1966 through 1975: Table 5.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 5.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene." Calculated as the sum of kerosene delivered for farm and other use from Table 3.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 6.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A14.
  - — 1985 and 1986: July 1987 issue, Table A18.
  - — 1987: June 1988 issue, Table A18.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 18.

KSRSPZZ — Kerosene delivered to the residential sector for heating.

- 1960 through 1978: EIA, *Energy Data Report* "Deliveries of Fuel Oil and Kerosene in 1979," Table 3. State ratios based on 1979 residential sector deliveries were applied to each State's heating deliveries category from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Appendix A, Section 2. Petroleum, "Kerosene," Note 3.)
- 1979 and 1980: EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene," Table 3.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 6.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A14.
  - — 1985 and 1986: July 1987 issue, Table A18.
  - — 1987: June 1988 issue, Table A18.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 18.

KSTCPUS — Kerosene total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys.* "Petroleum Statement, Annual," Table 1.

- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Liquefied Petroleum Gases (LPG)

LGCBMZZ — LPG sold for internal combustion engine use by State.
Note: Data for Maryland and the District of Columbia were combined for all years. The method for disaggregating the data is explained in Appendix A, Section 2. Petroleum, "Liquefied Petroleum Gases," Note 3.

- 1960 through 1967: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Liquefied Petroleum Gases and Ethane." The specific tables are:
  - — 1960 and 1961: Table 5 (data called "Shipments").
  - — 1962 through 1966: Table 2 (data called "Consumption").
  - — 1967: Table 2 (data called "Shipments").
- 1968 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1976 through 1980: EIA, *Energy Data Reports,* "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* "Sales of Liquefied Petroleum Gases and Ethane," Table 3.
- 1983: EIA estimates.
- 1984 forward: American Petroleum Institute, *Sales of Natural Gas Liquids and Liquefied Refinery Gases,* Table 3. Some data are adjusted and estimated by EIA. (See explanation in Appendix A, Section 2. Petroleum, "Liquefied Petroleum Gases," Note 7.)

LGHCMZZ — LPG sold for residential and commercial use by State.
Note: Data for Maryland and the District of Columbia were combined for all years. The method for disaggregating the data is explained in Appendix A, Section 2. Petroleum, "Liquefied Petroleum Gases," Note 3.

- 1960 through 1967: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Liquefied Petroleum Gases and Ethane." The specific tables are:
  - — 1960 and 1961: Table 5 (data called "Shipments").
  - — 1962 through 1966: Table 2 (data called "Consumption").
  - — 1967: Table 2 (data called "Shipments").
- 1968 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1976 through 1980: EIA, *Energy Data Reports,* "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* "Sales of Liquefied Petroleum Gases and Ethane," Table 3.
- 1983: EIA estimates.
- 1984 forward: American Petroleum Institute, *Sales of Natural Gas Liquids and Liquefied Refinery Gases,* Table 3. Some data are adjusted and estimated by EIA. (See explanation in Appendix A, Section 2. Petroleum, "Liquefied Petroleum Gases," Note 7.)

LGTCKUS — Factor for converting LPG from physical units to Btu.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Crude Petroleum and Petroleum Products, 1956," Table 4 footnote, constant value of 4.011 million Btu per barrel.
- 1967 forward: Calculated annually by EIA as a weighted average by multiplying the quantity consumed of each of the component products by each product's conversion factor (given with source references in Appendix D) and dividing the sum of those heat contents by the sum of the quantities consumed. The component products are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. Quantities consumed are from:
  - — 1967 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
  - — 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

LGTCPUS — LPG total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys.* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

LGTRSUS — The transportation sector share of LPG internal combustion engine sales.

EIA estimates based on the LPG portion of the special fuels used on highways published by the U.S. Department of Transportation, Federal Highway Administration, (variable MGSFPUS in SEDS) as a percentage of the LPG sold for internal combustion engine use published by the American Petroleum Institute (variable LGCBMUS in SEDS). For an explanation of the estimation method, see Appendix A, Section 2. Petroleum, "Liquefied Petroleum Gases," Note 1.

Sources of Independent Variables in the State Energy Data System

LGTTPZZ — LPG total sales for all uses by State.

Note: Data for Maryland and the District of Columbia were combined for all years. The method for disaggregating the data is explained in Appendix A, Section 2. Petroleum, "Liquefied Petroleum Gases," Note 3.

- 1960 through 1967: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Liquefied Petroleum Gases and Ethane." The specific tables are:
  - — 1960 and 1961: Table 5 (data called "Shipments").
  - — 1962 through 1966: Table 2 (data called "Consumption").
  - — 1967: Table 2 (data called "Shipments").
- 1968 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1976 through 1980: EIA, *Energy Data Reports,* "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* "Sales of Liquefied Petroleum Gases and Ethane," Table 3.
- 1983: EIA estimates.
- 1984 forward: American Petroleum Institute, *Sales of Natural Gas Liquids and Liquefied Refinery Gases,* Table 3. Some data are adjusted and estimated by EIA. (See explanation in Appendix A, Section 2. Petroleum, "Liquefied Petroleum Gases," Note 7.)

Lubricants

LUINPZZ — Lubricants sold to the industrial sector by State. Calculated from:

- U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports,* "Sales of Lubricating and Industrial Oils and Greases," for 1960, 1962, 1965, 1967, 1969, 1971, 1973, 1975, and 1977. (See explanation in Appendix A, Section 2. Petroleum, "Lubricants," Notes 1 and 2.)

LUTCPUS — Lubricants total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

LUTRPZZ — Lubricants sold to the transportation sector by State. Calculated from:

- U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports,* "Sales of Lubricating and Industrial Oils and Greases," for 1960, 1962, 1965, 1967, 1969, 1971, 1973, 1975, and 1977. (See explanation in Appendix A, Section 2. Petroleum, "Lubricants," Notes 1 and 2.)

Motor Gasoline

MGAGPZZ — Motor gasoline sold for agricultural use by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics,* Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table G-24 in 1965 and MF-24 in 1966 forward.

MGCUPZZ — Motor gasoline sold for construction use by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics,* Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table G-24 in 1965 and MF-24 in 1966 forward.

MGIYPZZ — Motor gasoline sold for industrial and commercial use by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics,* Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table G-24 in 1965 and MF-24 in 1966 forward.

MGMFPZZ — Motor fuel sold for highway use by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics,* Table G-21.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table G-21 in 1965 and MF-21 in 1966 forward.
- 1960, 1966 through 1971, 1975, and 1983 revisions: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics Summary to 1985,* Table MF-221 gave revised U.S. totals. State revisions were calculated by adding data from Tables MF-225 and MF-226.

MGMRPZZ — Motor gasoline sold for marine use by State.
- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics,* Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table G-24 in 1965 and MF-24 in 1966 forward.

MGMSPZZ — Motor gasoline sold for miscellaneous uses by State.
- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics,* Table G-24. Sum of the "Miscellaneous" column plus the "Unclassified" column minus the "Total Classified" column.
- 1965: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table G-24. Sum of the "Miscellaneous" column plus the "Unclassified" column minus the "Total Classified" column.
- 1966 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table MF-24. The specific columns are:
  - 1966 through 1981: Sum of the "Miscellaneous" and "Unclassified" columns.
  - 1982 forward: The "Miscellaneous" column.

MGPNPZZ — Motor fuel sold for public nonhighway use by State.
- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics,* Table G-21.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table G-21 in 1965 and MF-21 in 1966 forward.

MGSFPZZ — Motor gasoline special fuels sales by State (primarily diesel fuel with small amounts of liquefied petroleum gases).
- 1960 through 1985: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics, Summary to 1985,* Table MF-225.
- 1986 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Table MF-25.

MGTCPUS — Motor gasoline total consumed in the United States.
- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys.* "Petroleum Statement, Annual," Table 1.
  For 1960 through 1963, motor gasoline was combined with aviation gasoline and published as "gasoline" in the source table. Table 19 in the "Petroleum Statement, Annual" titled "Salient Statistics of Aviation Gasoline" provided separate data for aviation gasoline for those years. The aviation gasoline data from the second table was subtracted from the gasoline data in the first table to derive the motor gasoline consumption series used in SEDS.
- 1976 through 1980: EIA, *Energy Data Reports.* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Motor Gasoline Blending Components

MBTCPUS — Motor gasoline blending components total consumed in the United States.
- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Miscellaneous Petroleum Products

MSTCPUS — Miscellaneous petroleum products consumed in the United States.
- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports.* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Natural Gasoline

NATCPUS — Natural gasoline total consumed in the United States.
- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys.* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports.* "Petroleum Statement, Annual," Table 1.
- 1981 through 1983: EIA, *Petroleum Supply Annual,* Table 2.
- 1984 forward: EIA, *Petroleum Supply Annual,* Table 2, included in "Pentanes Plus".

Natural Gas

NGACPZZ — Natural gas consumed by the transportation sector (i.e., pipeline fuel) by State.
- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Natural Gas Production and Consumption,"

table titled, "Number of consumers and volume of natural gas consumed by principal users in the United States," column 'Used as pipeline fuel.'
- 1967 through 1988: EIA, *Natural Gas Annual 1988 Volume II,* Table 14.
- 1988 and 1989: EIA, *Natural Gas Annual 1989,* Table 16 (1988 revisions at State level are unpublished).

NGCCPZZ — Natural gas delivered to the commercial sector and to other consumers (municipalities and public authorities for institutional heating and street lighting) by State.
- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Natural Gas Production and Consumption," table titled, "Number of consumers and volume of natural gas consumed by principal users in the United States, " column 'Commercial.'
- 1967 through 1988: EIA, *Natural Gas Annual 1988 Volume II,* Table 15.
- 1989: EIA, *Natural Gas Annual 1989,* Table 17.

NGEUKZZ — Factor for converting natural gas consumed by the electric utilities from physical units to Btu.
- 1960 through 1971: Assumed by the EIA to be equal to the thermal conversion factor for the consumption of natural gas by all users (NGTCKZZ).
- 1972 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed at electric utilities. The heat contents and quantities received are from the Federal Energy Regulatory Commission FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and predecessor forms. For States that reported consumption on EIA-759 but were not large enough to report on FERC Form 423, factors were estimated using previous years' factors or the factor for total natural gas consumption in the State.

NGEUPZZ — Natural gas consumed by the electric utilities by State.
- 1960 through 1975: Federal Power Commission, News Release, "Power Production, Fuel Consumption, and Installed Capacity Data", table titled, "Consumption of Fuel by Electric Utilities for Production of Electric Energy by State, Kind of Fuel, and Type of Prime Mover," sum of 'steam and gas turbine' and 'internal combustion' columns under "gas" heading.
- 1976 through 1981: EIA, *Electric Power Annual* (1981), Table 67.
- 1982 through 1986: Unrounded data as published in rounded form in EIA, *Electric Power Annual 1986,* Table 14.
- 1987 and 1988: Unrounded data as published in rounded form in EIA, *Electric Power Annual 1988,* Table 13.
- 1989: Unrounded data as published in rounded form in EIA, *Electric Power Annual 1989,* Table 19.

NGINPZZ — A portion of the natural gas delivered to the industrial sector by State.
- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Natural Gas Production and Consumption," table titled, "Number of consumers and volume of natural gas consumed by principal users in the United States." Sum of data in columns, "Carbon black," "Refinery fuel," and "Other industrial fuel" (which includes electric utility fuel) minus data in column "Fuel used at electric utility plants."
- 1967 through 1988: EIA, *Natural Gas Annual 1988 Volume II,* Table 15.
- 1989: EIA, *Natural Gas Annual 1989,* Table 17.

NGLPPZZ — Natural gas consumed as lease and plant fuel by State.
- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook,* Natural Gas chapter. State data are not available from 1960 through 1966, although U.S. totals are available. State estimates were calculated by apportioning the U.S. totals to the States based on each State's share of the U.S. total in 1967.
- 1967 through 1988: EIA, *Natural Gas Annual 1988 Volume II,* Table 14.
- 1989: EIA, *Natural Gas Annual 1989,* Table 16.

NGRCPZZ — Natural gas consumed by the residential sector by State.
- 1960 through 1976: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Natural Gas Production and Consumption," table titled, "Number of consumers and volume of natural gas consumed by principal users in the United States," column 'Residential.'
- 1967 through 1988: EIA, *Natural Gas Annual 1988 Volume II,* Table 15.
- 1989: EIA, *Natural Gas Annual 1989,* Table 17.

NGTCKZZ — Factor for converting natural gas consumed by all users from physical units to Btu.
- 1960 through 1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic feet as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*
- 1963 through 1979: EIA adopted the thermal conversion factors calculated annually by the American Gas Association (AGA) and published in *Gas Facts,* an AGA annual.
- 1980 through 1988: EIA, *Natural Gas Annual 1988 Volume II,* Table 15.
- 1989: EIA, *Natural Gas Annual 1989,* Table 17.

Nuclear

NUEOKUS — Factor for converting electricity produced from nuclear power from physical units to Btu.

- 1960 through 1988: Calculated annually by EIA by dividing the total heat content consumed in reactors at nuclear plants by the total (net) electricity generated by nuclear plants. The heat content and electricity generation are reported on Form FERC-1, "Annual Report of Major Electric Utilities, Licensees, and Others;" Form EIA-412, "Annual Report of Public Electric Utilities," and predecessor forms. Beginning with 1982 data, the factors are published in the following:
  - 1982: EIA, *Historical Plant Cost and Annual Production Expenses for Selected Electric Plants,* page 215.
  - 1983 through 1988: EIA, *Electric Plant Cost and Power Production Expenses 1988,* Table 15.
- 1989: Prepublished data.

NUEOPZZ — Electricity produced from nuclear power at electric utilities by State.

- 1960 through 1977: Federal Power Commission, News Release, "Power Production, Fuel Consumption, and Installed Capacity Data," table titled, "Net Generation of Electric Utilities by State and Source."
- 1978 through 1980: EIA, *Energy Data Reports,* "Power Production, Fuel Consumption and Installed Capacity Data," 1978: table titled, "Net Generation of Electric Utilities by State and Source;" 1979 and 1980: Table 36.
- 1981 through 1985: EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms. Published rounded to gigawatthours in EIA, *Electric Power Annual 1985,* Table 6.
- 1986 and 1987: EIA, Form EIA-759, "Monthly Power Plant Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1987,* Table 19.
- 1988 and 1989: EIA, Form EIA-759, "Monthly Power Plant Report." Published rounded to gigawatthours in EIA, *Electric Power Annual 1989,* Table 14.

Pentanes Plus

PPTCPUS — Pentanes plus total consumed in the United States.

- 1960 through 1983: Data were reported separately as natural gasoline, isopentane, and plant condensate.
- 1984 forward: EIA, *Petroleum Supply Annual,* Table 2.

Petroleum Coke

PCCTPUS — Petroleum coke consumed at refineries (both catalyst and marketable) in the United States.

- 1960: No data available. The 1961 value is used for 1960.
- 1961 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual." The specific tables are:
  - 1961 and 1962: Table 18.
  - 1962 through 1966: Table 19.
  - 1967: Table 18.
  - 1968: Table 19.
  - 1969 through 1972: Table 18.
  - 1973 and 1974: Table 21.
  - 1975: Table 22.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual." The specific tables are:
  - 1976: Table 22.
  - 1977: Table 21.
  - 1978 through 1980: Table 20.
- 1981 forward: EIA, *Petroleum Supply Annual.* The specific tables are:
  - 1981 and 1982: Table 17.
  - 1983: Table 15.
  - 1984: Table 44.
  - 1985: Table 43.
  - 1986 through 1988: Table 38.
  - 1989: Table 45.

PCEUMZZ — Petroleum coke consumed by the electric utilities by State.

- 1960 through 1969: No data available. Values are assumed to be zero.
- 1970 forward: EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms.

PCTCPUS — Petroleum coke total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys.* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Report,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Sources of Independent Variables in the State Energy Data System

Plant Condensate

PLTCPUS — Plant condensate total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys.* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 through 1983: EIA, *Petroleum Supply Annual,* Table 2.
- 1984 forward: EIA, *Petroleum Supply Annual,* Table 2, included in "Pentanes Plus."

Population

TPOPPUS — Resident population of the United States. April 1 census for 1960, 1970, and 1980, and July 1 estimates for all other years.

U.S. Department of Commerce, Bureau of the Census, *Current Population Reports,* "Population Estimates and Projections," Series P-25. Specific publication numbers and table numbers:

— 1960 through 1969: Number 990, Table 4.
— 1970 through 1979: Number 957, Table 4.
— 1980 forward: Number 1058, Table 3.

TPOPPZZ — Resident population by State. April 1 census for 1960, 1970, and 1980, and July 1 estimates for all other years.

U.S. Department of Commerce, Bureau of the Census, *Current Population Reports,* "Population Estimates and Projections," Series P-25. Specific publication numbers and table numbers:

— 1960 through 1969: Number 460, Table 1.
— 1970 through 1979: Number 957, Table 4.
— 1980 forward: Number 1058, Table 3.

Residual Fuel

RFBKPZZ — Residual fuel delivered for vessel bunkering use by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  — 1960 and 1961: Table 17.
  — 1962 and 1963: Table 16.
  — 1964 and 1965: Table 15.
  — 1966 through 1975: Table 11.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 11.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 5.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  — 1983 and 1984: July 1985 issue, Table A13.
  — 1985 and 1986: July 1987 issue, Table A17.
  — 1987: June 1988 issue, Table A17.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 17.

RFCMPZZ — Residual fuel delivered to the commercial sector for heating.

- 1960 through 1978: EIA estimates based on statistics of commercial sector deliveries of residual fuel from the EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene in 1979," Table 2. State ratios based on 1979 commercial sector deliveries were applied to each State's sum of heating plus industrial deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Appendix A, Section 2. Petroleum, "Residual Fuel," Note 2.)
- 1979 and 1980: EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 5.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  — 1983 and 1984: July 1985 issue, Table A13.
  — 1985 and 1986: July 1987 issue, Table A17.
  — 1987: June 1988 issue, Table A17.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 17.

RFEUPZZ — Residual fuel consumed at electric utilities.

EIA, Form EIA-759, "Monthly Power Plant Report" and predecessor forms. The following assumptions have been made:

— 1960 through 1969: Only total fuel oil consumed at electric utilities by State is available. State estimates of residual fuel consumption were created for each year by applying the shares of steam plants (primarily residual fuel) by State from 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.

— 1970 through 1979: Fuel oil consumed by plant type by State is available. Fuel oil consumed by steam plants is assumed to equal residual fuel consumption.
— 1980 forward: Consumption of light and heavy oil at all plant types by State is available. Total heavy oil consumption at all plant types is assumed to equal residual fuel consumption.

RFIBPZZ — Residual fuel delivered to industrial establishments for heating and for other industrial use.

- 1960 through 1978: EIA, estimates based on statistics of industrial sector deliveries of residual fuel from the EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene in 1979," Table 2. State ratios based on 1979 industrial sector deliveries were applied to each State's sum of heating plus industrial deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Appendix A, Section 2. Petroleum, "Residual Fuel," Note 2.)
- 1979 and 1980: EIA, *Energy Data Report,* "Deliveries of Fuel Oil and Kerosene," Table 2,
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 5.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  — 1983 and 1984: July 1985 issue, Table A13.
  — 1985 and 1986: July 1987 issue, Table A17.
  — 1987: June 1988 issue, Table A17.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 17.

RFMIPZZ — Residual fuel delivered to the Armed Forces regardless of use by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  — 1960 and 1961: Table 18.
  — 1962 and 1963: Table 17.
  — 1964 and 1965: Table 16.
  — 1966 through 1975: Table 12.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 12.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 5.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  — 1983 and 1984: July 1985 issue, Table A13.
  — 1985 and 1986: July 1987 issue, Table A17.
  — 1987: June 1988 issue, Table A17.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 17.

RFMSPZZ — Residual fuel delivered for miscellaneous uses by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene," Miscellaneous Use table. The specific tables are:
  — 1960 through 1962: Table 19.
  — 1963 and 1964: Table 18.
  — 1965 through 1967: Table 17.
  — 1968 through 1975: Table 14.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Miscellaneous Use table (Table 14).
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 5.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  — 1983 and 1984: July 1985 issue, Table A13.
  — 1985 and 1986: July 1987 issue, Table A17.
  — 1987: June 1988 issue, Table A17.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 17.

RFOCPZZ — Residual fuel delivered for use by oil companies by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  — 1960 and 1961: Table 14.
  — 1962 and 1963: Table 13.
  — 1964 and 1965: Table 12.
  — 1966 through 1975: Table 9.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 9.

- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 5.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A13.
  - — 1985 and 1986: July 1987 issue, Table A17.
  - — 1987: June 1988 issue, Table A17.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 17.

RFRRPZZ — Residual fuel delivered for use by railroads by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Shipments of Fuel Oil and Kerosene." The specific tables are:
  - — 1960 and 1961: Table 16.
  - — 1962 and 1963: Table 15.
  - — 1964 and 1965: Table 14.
  - — 1966 through 1975: Table 10.
- 1976 through 1978: EIA, *Energy Data Reports,* "Sales of Fuel Oil and Kerosene," Table 10.
- 1979 and 1980: EIA, *Energy Data Reports,* "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 5.

Note: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly.* The specific tables are:
  - — 1983 and 1984: July 1985 issue, Table A13.
  - — 1985 and 1986: July 1987 issue, Table A17.
  - — 1987: June 1988 issue, Table A17.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989,* Table 17.

RFTCPUS — Residual fuel total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Road Oil

RDINPZZ — Road oil sold to the industrial sector by State.

- 1960 through 1977: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Sales of Asphalt," The specific tables are:
  - — 1960 through 1962: Table 6.
  - — 1963 through 1977: Table 5.
- 1978 through 1980: EIA, *Energy Data Reports,* "Sales of Asphalt," Table 2.
- 1981 and 1982: EIA estimates. (See explanation in Appendix A, Section 2. Petroleum, under "Asphalt and Road Oil.")
- 1983 forward: Road oil is included in asphalt data (see ASINPZZ).

RDTCPUS — Road oil total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 2.
- 1983 forward: EIA, *Petroleum Supply Annual,* Table 2, included in "Asphalt and Road Oil."

Still Gas

SGTCPUS — Still gas total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 and 1982: EIA, *Petroleum Supply Annual,* Table 14.
- 1983 through 1985: EIA, *Petroleum Supply Annual,* Table 12.
- 1986 forward: EIA, *Petroleum Supply Annual,* Table 2.

Special Naphthas

SNTCPUS — Special naphthas total consumed in the United States.

- 1960 through 1963: Data included in motor gasoline.
- 1964 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Unfinished Oils

UOTCPUS — Unfinished oils total consumed in the United States.
- 1960 through 1980: No data available. Values assumed to be zero.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Unfractionated Stream

USTCPUS — Unfractionated stream total consumed in the United States.
- 1960 through 1978: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1, included in "Plant Condensate."
- 1979 and 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 through 1983: EIA, *Petroleum Supply Annual,* Table 2.
- 1984 forward: EIA, *Petroleum Supply Annual,* Table 2, individual components are reported separately.

Value Added by Manufacture

CGVAVZZ — Value added by manufacture of coated and glazed paper by State.
- 1960 through 1970: U.S. Department of Commerce, *1967 Census of Manufactures,* Volume II, Part 2, SIC 2641. The 1963 State data are used for the years 1960 through 1965, and the 1967 State data are used for 1966 through 1970.
- 1971 through 1980: U.S. Department of Commerce, *1977 Census of Manufactures,* Industry Series, SIC 2641. The 1972 State data are used for 1971 through 1975, and the 1977 State data are used for 1976 through 1980.
- 1981 through 1985: U.S. Department of Commerce, *1982 Census of Manufactures* (Final Report), Industry Series, SIC 2641. The 1982 State data are used for 1981 through 1985.
- 1986 forward: U.S. Department of Commerce, *1987 Census of* Manufactures (Final Report), Industry Series, SIC 2671 and 2672. The 1987 State data are used for 1986 forward.

OCVAVZZ — Value added by manufacture of industrial organic chemicals by State.
- 1960 through 1970: U.S. Department of Commerce, *1967 Census of Manufactures,* Volume II, Part 2, SIC 2818. The 1963 State data are used for the years 1960 through 1965, and the 1967 State data are used for 1966 through 1970.
- 1971 through 1980: U.S. Department of Commerce, *1977 Census of Manufactures,* Industry Series, SIC 2869. The 1972 State data are used for 1971 through 1975, and the 1977 State data are used for 1976 through 1980.
- 1981 forward: U.S. Department of Commerce, *1987 Census of* Manufactures (Final Report), Industry Series, SIC 2869. The 1982 State data are used for 1981 through 1985, and the 1987 State data are use for 1986 forward.

PIVAVZZ — Value added by manufacture of paints and allied products by State.
- 1960 through 1970: U.S. Department of Commerce, *1967 Census of Manufactures,* Volume II, Part 2, SIC 2851. The 1963 State data are used for the years 1960 through 1965, and the 1967 State data are used for 1966 through 1970.
- 1971 through 1980: U.S. Department of Commerce, *1977 Census of Manufactures,* Industry Series, SIC 2851. The 1972 State data are used for 1971 through 1975, and the 1977 State data are used for 1976 through 1980.
- 1981 forward: U.S. Department of Commerce, *1987 Census of* Manufactures (Final Report), Industry Series, SIC 2851. The 1982 State data are used for the years 1981 through 1985, and the 1987 State data are used for 1986 forward.

Wood, Waste, Wind, Photovoltaic, and Solar Thermal Energy Sources

WNEOPZZ — Electricity produced from wind, photovoltaic, and solar thermal energy sources at electric utilities by State.
- 1960 through 1982: No data available. Values are assumed to be zero.
- 1983 forward: EIA, Form EIA-759, "Monthly Power Plant Report."

WWEOPZZ — Electricity produced from wood and waste at electric utilities by State.

EIA, Form EIA-759, "Monthly Power Plant Report" and predecessor forms.

Sources of Independent Variables in the State Energy Data System

Waxes

WXTCPUS — Waxes total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual,* Table 2.

Appendix D

Thermal Conversion Factors in the State Energy Data System

Table D1. State Energy Data System Thermal Conversion Factors

Year	Petroleum Consumption		Anthracite Consumption			Electricity Generation		
	Liquefied Petroleum Gases (LGTCKUS)	All Petroleum Products[1] (PATCKUS)	All Users[1] (ACTCKUS)	Electric Utility Sector (ACEUKUS)	Non-Electric Utility Sectors (ACNUKUS)	Geothermal Energy Power Plants (GEEOKUS)	Fossil Fuel Steam-Electric Power Plants[2] (FFEOKUS)	Nuclear Electric Power Plants (NUEOKUS)
	Million Btu per barrel		Million Btu per short ton			Btu per kilowatthour		
1960	4.011	5.555	23.592	17.500	24.721	23,200	10,760	11,629
1961	4.011	5.552	23.707	17.500	24.870	23,200	10,650	11,629
1962	4.011	5.545	23.515	17.500	24.666	23,200	10,558	11,629
1963	4.011	5.534	23.107	17.500	24.110	22,182	10,482	11,877
1964	4.011	5.528	23.128	17.500	24.164	22,182	10,462	11,912
1965	4.011	5.532	23.175	17.500	24.316	22,182	10,453	11,804
1966	4.011	5.532	22.906	17.500	24.193	22,182	10,415	11,623
1967	3.838	5.515	22.291	17.500	23.506	21,770	10,432	11,555
1968	3.818	5.504	22.037	17.500	23.293	21,606	10,398	11,297
1969	3.805	5.492	22.003	17.500	23.200	21,606	10,447	11,037
1970	3.779	5.503	22.102	17.500	23.476	21,606	10,494	10,977
1971	3.772	5.504	22.210	17.500	23.572	21,655	10,478	10,837
1972	3.760	5.500	21.822	17.500	23.403	21,668	10,379	10,792
1973	3.746	5.515	21.464	17.920	22.674	21,674	10,389	10,903
1974	3.730	5.504	20.919	17.200	22.330	21,674	10,442	11,161
1975	3.715	5.494	20.762	17.064	22.272	21,611	10,406	11,013
1976	3.711	5.504	21.254	17.526	22.618	21,611	10,373	11,047
1977	3.677	5.518	22.066	17.244	24.101	21,611	10,435	10,769
1978	3.669	5.519	22.398	17.104	24.388	21,611	10,361	10,941
1979	3.680	5.494	22.069	17.454	24.272	21,545	10,353	10,879
1980	3.674	5.479	21.405	17.652	22.719	21,639	10,388	10,908
1981	3.643	5.448	22.080	18.168	23.749	21,639	10,453	11,030
1982	3.615	5.415	22.518	18.160	24.578	21,629	10,454	11,073
1983	3.614	5.406	21.583	16.516	24.536	21,290	10,520	10,905
1984	3.599	5.395	22.322	17.018	25.128	21,303	10,323	10,843
1985	3.603	5.387	20.817	16.784	23.031	21,263	10,339	10,813
1986	3.640	5.418	21.512	15.578	24.399	21,263	10,261	10,799
1987	3.659	5.403	22.435	15.962	26.293	21,263	10,253	10,776
1988	3.652	5.410	22.423	17.312	26.021	21,096	10,235	10,743
1989	3.683	5.410	22.623	16.310	27.196	21,096	10,331	10,724

[1] This factor is not actually applied in SEDS but is displayed here for information.
[2] This factor is assumed to be the average for electricity generated at U.S. fossil fuel steam-electric power plants. In SEDS it is applied to convert hydroelectricity and electricity generated from wood, waste, wind, photovoltaic, and solar thermal energy for distribution.

Sources: See source listing at the end of this appendix.

Table D2. State Energy Data System Conversion Factors for Natural Gas Consumed by Electric Utilities, 1960–1974
(Thousand Btu per Cubic Foot)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	1.035	1.035	1.035	1.027	1.037	1.034	1.033	1.031	1.033	1.033	1.031	1.031	1.032	1.034	1.041
Alaska	1.035	1.035	1.035	1.011	1.010	1.010	1.000	1.000	1.005	1.005	1.005	1.005	1.006	1.006	1.006
Arizona	1.035	1.035	1.035	1.077	1.075	1.076	1.076	1.065	1.076	1.076	1.059	1.059	1.070	1.067	1.076
Arkansas	1.035	1.035	1.035	1.000	1.003	1.001	1.001	1.001	1.000	1.000	1.004	1.004	1.017	1.005	1.011
California	1.035	1.035	1.035	1.069	1.071	1.073	1.072	1.072	1.069	1.069	1.054	1.054	1.062	1.062	1.066
Colorado	1.035	1.035	1.035	0.908	0.898	0.912	0.913	0.908	0.987	0.987	0.974	0.974	0.879	0.879	0.921
Connecticut	1.035	1.035	1.035	1.022	1.030	1.022	1.022	1.021	1.016	1.016	1.016	1.016	1.016	1.015	1.012
Delaware	1.035	1.035	1.035	1.043	1.043	1.043	1.042	1.042	1.042	1.042	1.020	1.020	1.025	1.024	1.001
Dist. of Col.	1.035	1.035	1.035	1.025	1.024	1.024	1.024	1.024	1.022	1.022	1.016	1.016	-	-	-
Florida	1.035	1.035	1.035	1.026	1.041	1.037	1.039	1.039	1.048	1.048	1.041	1.041	1.019	1.024	1.023
Georgia	1.035	1.035	1.035	1.043	1.043	1.040	1.042	1.043	1.043	1.043	1.031	1.031	1.032	1.030	1.029
Hawaii	1.035	1.035	1.035	-	-	-	-	-	-	-	0.962	0.962	-	-	-
Idaho	1.035	1.035	1.035	1.065	1.071	1.065	1.080	1.048	1.023	1.023	1.061	1.061	-	-	1.057
Illinois	1.035	1.035	1.035	1.023	1.030	1.029	1.033	1.033	1.033	1.033	1.025	1.025	1.028	1.026	1.030
Indiana	1.035	1.035	1.035	1.000	1.000	0.999	1.000	1.000	1.001	1.001	1.006	1.006	1.018	1.005	1.003
Iowa	1.035	1.035	1.035	1.007	1.004	1.010	1.019	1.021	1.021	1.021	1.009	1.009	1.007	1.004	1.008
Kansas	1.035	1.035	1.035	0.996	0.994	0.995	0.994	0.990	0.988	0.988	0.998	0.998	0.995	0.996	0.996
Kentucky	1.035	1.035	1.035	1.045	1.027	1.028	1.024	1.024	1.022	1.022	1.017	1.017	1.025	1.025	1.026
Louisiana	1.035	1.035	1.035	1.035	1.050	1.042	1.036	1.033	1.012	1.012	1.029	1.029	1.060	1.060	1.063
Maine	1.035	1.035	1.035	-	-	-	1.025	1.025	1.029	1.029	1.012	1.012	-	-	-
Maryland	1.035	1.035	1.035	1.029	1.026	1.025	1.026	1.024	1.024	1.024	1.022	1.022	0.990	0.990	0.990
Massachusetts	1.035	1.035	1.035	1.015	1.014	1.013	1.013	1.013	1.012	1.012	1.012	1.012	1.003	1.002	1.000
Michigan	1.035	1.035	1.035	1.012	1.013	1.014	1.017	1.019	1.015	1.015	1.015	1.015	0.788	0.685	0.761
Minnesota	1.035	1.035	1.035	0.998	0.998	0.998	1.005	1.008	1.010	1.010	1.002	1.002	0.997	0.995	0.988
Mississippi	1.035	1.035	1.035	1.022	1.035	1.029	1.022	1.023	1.024	1.024	1.025	1.025	1.042	1.033	1.045
Missouri	1.035	1.035	1.035	1.020	1.021	1.020	1.016	1.018	1.020	1.020	1.007	1.007	0.973	0.979	0.972
Montana	1.035	1.035	1.035	1.000	1.001	1.001	1.001	0.998	0.999	0.999	1.032	1.032	1.162	1.170	1.168
Nebraska	1.035	1.035	1.035	0.991	0.990	0.991	0.996	0.996	0.998	0.998	1.008	1.008	0.984	0.981	0.983
Nevada	1.035	1.035	1.035	1.072	1.069	1.062	1.061	1.051	1.058	1.058	1.082	1.082	1.071	1.068	1.070
New Hampshire	1.035	1.035	1.035	1.003	1.001	1.012	1.009	1.014	1.009	1.009	1.010	1.010	1.000	1.000	1.000
New Jersey	1.035	1.035	1.035	1.047	1.048	1.045	1.042	1.040	1.037	1.037	1.026	1.026	1.030	1.030	1.029
New Mexico	1.035	1.035	1.035	1.108	1.109	1.108	1.108	1.097	1.098	1.098	1.083	1.083	1.058	1.038	1.031
New York	1.035	1.035	1.035	1.027	1.027	1.026	1.022	1.023	1.021	1.021	1.021	1.021	1.030	1.029	1.027
North Carolina	1.035	1.035	1.035	1.036	1.035	1.033	1.031	1.029	1.026	1.026	1.024	1.024	1.039	1.033	1.032
North Dakota	1.035	1.035	1.035	1.000	1.000	1.000	1.002	1.006	1.008	1.008	1.031	1.031	1.054	1.054	1.054
Ohio	1.035	1.035	1.035	1.034	1.033	1.033	1.033	1.033	1.031	1.031	1.023	1.023	0.949	0.948	0.964
Oklahoma	1.035	1.035	1.035	1.026	1.026	1.026	1.024	1.024	1.023	1.023	1.032	1.032	1.051	1.040	1.041
Oregon	1.035	1.035	1.035	1.078	1.074	1.070	1.065	1.059	1.054	1.054	1.045	1.045	1.034	1.033	1.040
Pennsylvania	1.035	1.035	1.035	1.040	1.039	1.038	1.038	1.034	1.033	1.033	1.033	1.033	1.027	1.027	1.030
Rhode Island	1.035	1.035	1.035	1.042	1.044	1.042	1.042	1.041	1.042	1.042	1.021	1.021	1.042	1.042	1.042
South Carolina	1.035	1.035	1.035	1.045	1:043	1.042	1.046	1.040	1.036	1.036	1.028	1.028	1.032	1.030	1.028
South Dakota	1.035	1.035	1.035	0.997	0.996	0.997	1.000	1.004	1.005	1.005	1.004	1.004	1.001	0.998	0.999
Tennessee	1.035	1.035	1.035	1.055	1.051	1.046	1.047	1.042	1.039	1.039	1.022	1.022	1.045	1.055	-
Texas	1.035	1.035	1.035	1.037	1.033	1.037	1.043	1.044	1.038	1.038	1.027	1.027	1.022	1.019	1.016
Utah	1.035	1.035	1.035	0.926	0.923	0.925	0.921	0.924	0.925	0.925	0.938	0.938	0.940	0.943	0.946
Vermont	1.035	1.035	1.035	-	-	-	1.009	1.009	1.006	1.033	1.006	1.006	1.000	1.000	1.000
Virginia	1.035	1.035	1.035	1.039	1.033	1.031	1.030	1.030	1.031	1.031	1.026	1.026	1.065	1.059	1.035
Washington	1.035	1.035	1.035	1.076	1.077	1.075	1.068	1.063	1.062	1.062	1.055	1.055	-	-	-
West Virginia	1.035	1.035	1.035	1.060	1.054	1.071	1.045	1.042	1.038	1.038	1.029	1.029	0.509	0.507	0.545
Wisconsin	1.035	1.035	1.035	1.025	1.022	1.018	1.021	1.023	1.025	1.025	1.019	1.019	1.020	1.015	1.015
Wyoming	1.035	1.035	1.035	0.926	0.919	0.926	0.958	0.950	0.960	0.960	1.023	1.023	0.833	0.833	0.833
U.S. Average	1.035	1.035	1.035	1.035	1.037	1.038	1.039	1.039	1.037	1.035	1.029	1.029	1.027	1.021	1.020

Sources: See source listing at the end of this appendix.

Table D3. State Energy Data System Conversion Factors for Natural Gas Consumed by Electric Utilities, 1975–1989
(Thousand Btu per Cubic Foot)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Alabama	1.033	1.153	1.182	1.126	1.121	1.133	1.134	1.125	1.103	1.124	1.099	1.091	1.054	1.039	1.030
Alaska	1.006	1.006	1.006	1.006	1.006	1.006	1.005	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006
Arizona	1.071	1.072	1.066	1.064	1.057	1.057	1.049	1.051	1.042	1.051	1.059	1.044	1.034	1.034	1.035
Arkansas	1.011	1.013	1.051	1.053	1.026	1.026	1.023	1.032	1.035	1.037	1.055	1.053	1.031	1.029	1.019
California	1.063	1.061	1.059	1.060	1.055	1.052	1.055	1.053	1.048	1.050	1.051	1.045	1.038	1.036	1.040
Colorado	0.996	0.992	0.988	0.992	0.982	0.981	0.975	0.964	0.989	0.988	0.989	0.994	0.988	0.985	0.977
Connecticut	1.005	1.008	–	–	–	–	–	–	–	1.028	1.031	1.036	1.031	1.031	1.030
Delaware	1.073	1.078	1.103	1.070	1.043	1.042	1.036	1.033	1.035	1.039	1.038	1.046	1.036	1.072	1.075
Dist. of Col.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Florida	1.009	1.014	1.019	1.024	1.020	1.015	1.013	1.014	1.011	1.011	1.011	1.008	1.008	1.008	1.010
Georgia	1.029	1.029	1.026	1.026	1.097	1.035	1.027	1.028	1.025	1.023	1.024	1.024	1.023	1.023	1.024
Hawaii	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Idaho	1.053	1.059	1.056	1.048	1.042	1.037	1.087	1.075	1.047	1.045	1.049	1.021	1.017	–	–
Illinois	1.029	1.028	1.028	1.028	1.021	1.024	1.023	1.024	1.029	1.031	1.027	1.026	1.025	1.021	1.017
Indiana	1.000	1.003	1.008	1.001	1.002	1.004	1.002	1.002	1.002	1.003	1.005	1.006	1.005	1.002	1.002
Iowa	1.008	1.011	1.012	1.021	1.009	1.008	1.007	1.019	1.027	1.035	1.021	1.017	1.007	1.007	1.007
Kansas	0.991	0.982	0.980	0.968	0.962	0.960	0.962	0.956	0.953	0.975	0.968	0.969	0.988	0.993	0.971
Kentucky	1.017	1.018	1.020	1.024	1.023	1.024	1.024	1.024	1.023	1.024	1.024	1.022	1.021	1.023	1.021
Louisiana	1.059	1.061	1.053	1.056	1.047	1.041	1.041	1.046	1.049	1.048	1.047	1.044	1.043	1.045	1.044
Maine	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Maryland	0.943	0.946	0.998	1.062	1.076	1.023	1.015	1.025	1.025	1.025	1.025	1.058	1.043	1.042	1.045
Massachusetts	1.002	1.001	1.000	1.000	1.001	1.000	1.000	1.048	1.054	1.060	1.039	1.029	1.026	1.029	1.048
Michigan	0.834	0.767	0.698	0.774	0.677	0.737	0.653	0.662	0.213	0.592	0.460	0.346	0.404	0.161	0.108
Minnesota	0.984	0.972	0.972	0.928	0.992	0.994	0.994	0.999	1.011	1.001	1.002	0.999	0.998	1.003	1.005
Mississippi	1.030	1.016	1.020	1.009	1.009	1.017	1.016	1.022	1.029	1.027	1.039	1.038	1.028	1.026	1.025
Missouri	0.977	0.974	0.973	0.974	0.976	0.979	0.986	1.022	0.995	0.998	0.992	0.983	0.990	0.994	1.016
Montana	1.149	1.192	1.173	1.146	1.084	1.049	1.075	1.173	1.197	1.179	1.204	1.201	1.205	1.208	1.213
Nebraska	0.982	0.971	0.967	0.968	0.954	0.950	0.942	0.982	0.949	0.948	0.957	0.971	0.977	0.954	0.959
Nevada	1.067	1.068	1.063	1.077	1.064	1.071	1.075	1.068	1.063	1.060	1.065	1.053	1.035	1.027	1.027
New Hampshire	1.000	1.000	1.000	1.000	1.000	1.025	1.025	1.025	1.025	1.027	1.027	–	1.027	1.027	1.027
New Jersey	1.028	1.029	1.028	1.030	1.039	1.034	1.036	1.033	1.037	1.036	1.046	1.036	1.033	1.033	1.033
New Mexico	1.033	1.029	1.028	1.042	1.034	1.029	1.029	1.021	0.992	0.996	1.013	1.041	1.026	1.026	1.033
New York	1.025	1.025	1.028	1.029	1.030	1.036	1.032	1.030	1.031	1.033	1.035	1.036	1.030	1.031	1.028
North Carolina	1.031	1.033	1.033	1.033	1.030	1.034	1.035	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033
North Dakota	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.072	1.065	1.050
Ohio	0.864	0.825	0.696	0.653	0.862	1.004	1.010	1.014	1.011	1.014	1.014	1.018	1.009	1.012	1.007
Oklahoma	1.038	1.042	1.046	1.048	1.050	1.048	1.047	1.045	1.051	1.040	1.044	1.043	1.047	1.039	1.043
Oregon	1.037	1.035	1.042	1.047	1.046	0.998	1.047	0.990	0.990	0.990	0.990	0.990	–	–	1.035
Pennsylvania	1.000	1.000	1.000	1.000	1.004	1.020	1.015	1.009	1.000	1.000	1.000	1.025	1.031	1.035	1.029
Rhode Island	1.042	1.042	–	–	1.046	1.022	1.022	1.020	1.039	1.030	1.034	–	1.031	1.032	1.031
South Carolina	1.028	1.028	1.028	1.048	1.076	1.030	1.023	1.029	1.026	1.027	1.029	1.023	1.027	1.032	1.023
South Dakota	1.000	0.996	0.990	0.928	0.983	0.988	0.993	0.948	1.011	1.011	1.010	1.005	1.013	1.020	1.017
Tennessee	–	1.029	–	–	–	1.016	1.016	–	1.023	–	–	–	–	1.031	1.032
Texas	1.019	1.018	1.026	1.033	1.038	1.037	1.030	1.033	1.024	1.030	1.036	1.035	1.035	1.033	1.034
Utah	0.941	0.952	0.945	0.951	0.963	0.955	0.932	0.940	0.941	1.030	1.075	1.087	1.078	1.078	1.078
Vermont	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	–	–	1.000
Virginia	1.098	1.091	1.174	1.218	1.101	1.104	1.097	1.081	1.046	1.041	1.040	1.053	1.039	1.054	1.041
Washington	–	–	–	1.030	1.030	1.030	1.031	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033
West Virginia	0.575	0.683	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wisconsin	1.016	1.014	1.014	1.005	1.010	1.007	1.008	1.012	0.991	0.992	1.000	1.003	0.992	1.002	1.003
Wyoming	0.843	0.843	0.854	0.837	0.847	0.847	0.855	0.847	1.039	1.047	1.048	1.022	1.019	1.026	1.036
U.S. Average	1.023	1.023	1.028	1.033	1.033	1.033	1.033	1.034	1.028	1.033	1.037	1.033	1.032	1.027	1.027

Sources: See source listing at the end of this appendix.

Table D4. State Energy Data System Conversion Factors for Natural Gas Consumed by the Non-Electric Utility Sector, 1960–1974
(Thousand Btu per Cubic Foot)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	1.035	1.035	1.035	1.027	1.037	1.034	1.033	1.031	1.033	1.033	1.031	1.031	1.031	1.029	1.028
Alaska	1.035	1.035	1.035	1.011	1.010	1.010	1.000	1.000	1.005	1.005	1.005	1.005	1.005	1.011	1.005
Arizona	1.035	1.035	1.035	1.077	1.075	1.076	1.076	1.065	1.076	1.076	1.059	1.059	1.053	1.052	1.062
Arkansas	1.035	1.035	1.035	1.000	1.003	1.001	1.001	1.001	1.000	1.000	1.004	1.004	1.000	0.998	0.997
California	1.035	1.035	1.035	1.069	1.071	1.073	1.072	1.072	1.069	1.069	1.054	1.054	1.051	1.050	1.054
Colorado	1.035	1.035	1.035	0.908	0.898	0.912	0.913	0.908	0.987	0.987	0.974	0.974	1.000	0.980	0.979
Connecticut	1.035	1.035	1.035	1.022	1.030	1.022	1.022	1.021	1.016	1.016	1.016	1.016	1.016	1.015	1.012
Delaware	1.035	1.035	1.035	1.043	1.043	1.043	1.042	1.042	1.042	1.042	1.020	1.020	1.019	1.020	1.021
Dist. of Col.	1.035	1.035	1.035	1.025	1.024	1.024	1.024	1.024	1.022	1.022	1.016	1.016	1.016	1.013	1.012
Florida	1.035	1.035	1.035	1.026	1.041	1.037	1.039	1.039	1.048	1.048	1.041	1.041	1.070	1.065	1.066
Georgia	1.035	1.035	1.035	1.043	1.043	1.040	1.042	1.043	1.043	1.043	1.031	1.031	1.031	1.030	1.028
Hawaii	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Idaho	1.035	1.035	1.035	1.065	1.071	1.065	1.080	1.048	1.023	1.023	1.061	1.061	1.061	1.058	1.042
Illinois	1.035	1.035	1.035	1.023	1.030	1.029	1.033	1.033	1.033	1.033	1.025	1.025	1.025	1.023	1.023
Indiana	1.035	1.035	1.035	1.000	1.000	0.999	1.000	1.000	1.001	1.001	1.006	1.006	1.006	0.998	0.997
Iowa	1.035	1.035	1.035	1.007	1.004	1.010	1.019	1.021	1.021	1.021	1.009	1.009	1.009	1.014	1.012
Kansas	1.035	1.035	1.035	0.996	0.994	0.995	0.994	0.990	0.988	0.988	0.998	0.998	0.999	0.985	0.982
Kentucky	1.035	1.035	1.035	1.045	1.027	1.028	1.024	1.024	1.022	1.022	1.017	1.017	1.017	1.019	1.015
Louisiana	1.035	1.035	1.035	1.035	1.050	1.042	1.036	1.033	1.012	1.012	1.029	1.029	1.021	1.025	1.023
Maine	–	–	–	–	–	–	1.025	1.025	1.029	1.029	1.012	1.012	1.012	1.011	1.011
Maryland	1.035	1.035	1.035	1.029	1.026	1.025	1.026	1.024	1.024	1.024	1.022	1.022	1.023	1.022	1.023
Massachusetts	1.035	1.035	1.035	1.015	1.014	1.013	1.013	1.013	1.012	1.012	1.012	1.012	1.012	1.011	1.009
Michigan	1.035	1.035	1.035	1.012	1.013	1.014	1.017	1.019	1.015	1.015	1.015	1.015	1.032	1.034	1.027
Minnesota	1.035	1.035	1.035	0.998	0.998	0.998	1.005	1.008	1.010	1.010	1.002	1.002	1.003	1.000	1.003
Mississippi	1.035	1.035	1.035	1.022	1.035	1.029	1.022	1.023	1.024	1.024	1.025	1.025	1.019	1.022	1.021
Missouri	1.035	1.035	1.035	1.020	1.021	1.020	1.016	1.018	1.020	1.020	1.007	1.007	1.012	0.997	1.009
Montana	1.035	1.035	1.035	1.000	1.001	1.001	1.001	0.998	0.999	0.999	1.032	1.032	1.030	1.028	1.020
Nebraska	1.035	1.035	1.035	0.991	0.990	0.991	0.996	0.996	0.998	0.998	1.008	1.008	1.015	1.012	1.007
Nevada	1.035	1.035	1.035	1.072	1.069	1.062	1.061	1.051	1.058	1.058	1.082	1.082	1.097	1.066	1.064
New Hampshire	1.035	1.035	1.035	1.003	1.001	1.012	1.009	1.014	1.009	1.009	1.010	1.010	1.010	1.008	1.007
New Jersey	1.035	1.035	1.035	1.047	1.048	1.045	1.042	1.040	1.037	1.037	1.026	1.026	1.026	1.027	1.026
New Mexico	1.035	1.035	1.035	1.108	1.109	1.108	1.108	1.097	1.098	1.098	1.083	1.083	1.089	1.077	1.073
New York	1.035	1.035	1.035	1.027	1.027	1.026	1.022	1.023	1.021	1.021	1.021	1.021	1.020	1.030	1.023
North Carolina	1.035	1.035	1.035	1.036	1.035	1.033	1.031	1.029	1.026	1.026	1.024	1.024	1.022	1.027	1.025
North Dakota	1.035	1.035	1.035	1.000	1.000	1.000	1.002	1.006	1.008	1.008	1.031	1.031	1.031	1.024	1.002
Ohio	1.035	1.035	1.035	1.034	1.033	1.033	1.033	1.033	1.031	1.031	1.023	1.023	1.024	1.026	1.027
Oklahoma	1.035	1.035	1.035	1.026	1.026	1.026	1.024	1.024	1.023	1.023	1.032	1.032	1.019	1.010	1.025
Oregon	1.035	1.035	1.035	1.078	1.074	1.070	1.065	1.059	1.054	1.054	1.045	1.045	1.045	1.060	1.044
Pennsylvania	1.035	1.035	1.035	1.040	1.039	1.038	1.038	1.034	1.033	1.033	1.033	1.033	1.033	1.036	1.024
Rhode Island	1.035	1.035	1.035	1.042	1.044	1.042	1.042	1.041	1.042	1.042	1.021	1.021	1.021	1.016	1.010
South Carolina	1.035	1.035	1.035	1.045	1.043	1.042	1.046	1.040	1.036	1.036	1.028	1.028	1.027	1.025	1.024
South Dakota	1.035	1.035	1.035	0.997	0.996	0.997	1.000	1.004	1.005	1.005	1.004	1.004	1.004	1.003	0.999
Tennessee	1.035	1.035	1.035	1.055	1.051	1.046	1.047	1.042	1.039	1.039	1.022	1.022	1.021	1.021	1.020
Texas	1.035	1.035	1.035	1.037	1.033	1.037	1.043	1.044	1.038	1.038	1.027	1.027	1.029	1.030	1.032
Utah	1.035	1.035	1.035	0.926	0.923	0.925	0.921	0.924	0.925	0.925	0.938	0.938	0.938	0.945	0.952
Vermont	–	–	–	–	–	–	1.009	1.009	1.006	1.033	1.006	1.006	1.007	1.007	1.011
Virginia	1.035	1.035	1.035	1.039	1.033	1.031	1.030	1.030	1.031	1.031	1.026	1.026	1.025	1.024	1.022
Washington	1.035	1.035	1.035	1.076	1.077	1.075	1.068	1.063	1.062	1.062	1.055	1.055	1.055	1.051	1.047
West Virginia	1.035	1.035	1.035	1.060	1.054	1.071	1.045	1.042	1.038	1.038	1.029	1.029	1.030	1.031	1.024
Wisconsin	1.035	1.035	1.035	1.025	1.022	1.018	1.021	1.023	1.025	1.025	1.019	1.019	1.019	1.015	1.015
Wyoming	1.035	1.035	1.035	0.926	0.919	0.926	0.958	0.950	0.960	0.960	1.023	1.023	1.024	1.018	0.997
U.S. Average	1.035	1.035	1.035	1.032	1.032	1.032	1.033	1.032	1.030	1.029	1.025	1.026	1.026	1.025	1.025

Sources: See source listing at the end of this appendix.

Table D5. State Energy Data System Conversion Factors for Natural Gas Consumed by the Non-Electric Utility Sector, 1975–1989
(Thousand Btu per Cubic Foot)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Alabama	1.029	1.028	1.029	1.030	1.026	1.033	1.035	1.052	1.038	1.033	1.038	1.036	1.033	1.029	1.030
Alaska	1.005	1.005	1.005	0.999	0.999	1.002	1.004	0.999	1.001	1.001	1.006	1.010	1.009	1.004	0.998
Arizona	1.050	1.049	1.054	1.065	1.041	1.046	1.055	1.055	1.046	1.046	1.046	1.037	1.037	1.034	1.043
Arkansas	0.995	0.996	1.020	0.999	1.016	0.994	0.995	0.997	1.021	1.019	1.017	1.013	1.012	1.007	1.004
California	1.056	1.051	1.050	1.052	1.048	1.044	1.044	1.047	1.041	1.038	1.038	1.037	1.026	1.029	1.036
Colorado	0.896	0.901	0.888	0.862	0.880	0.995	0.995	1.001	1.006	1.002	0.999	1.003	1.000	1.007	1.012
Connecticut	1.005	1.008	1.010	1.013	1.012	1.022	1.025	1.027	1.029	1.029	1.030	1.030	1.031	1.032	1.034
Delaware	1.015	1.018	1.023	1.028	1.028	1.033	1.035	1.033	1.015	1.017	1.022	1.016	1.009	1.018	1.014
Dist. of Col.	1.012	1.012	1.016	1.016	1.016	1.003	1.014	1.017	1.010	1.012	1.015	1.013	1.014	1.011	1.010
Florida	1.078	1.062	1.067	1.070	1.054	1.070	1.106	1.082	1.097	1.101	1.109	1.076	1.095	1.080	1.086
Georgia	1.027	1.027	1.027	1.028	1.038	1.032	1.027	1.030	1.026	1.026	1.028	1.027	1.026	1.025	1.026
Hawaii	–	–	–	–	–	0.963	0.959	0.989	1.023	1.026	1.082	1.086	1.068	1.078	1.080
Idaho	1.055	1.057	1.060	1.053	1.047	1.053	1.070	1.072	1.047	1.045	1.049	1.021	1.017	1.020	1.027
Illinois	1.026	1.025	1.028	1.018	1.024	1.022	1.020	1.022	1.041	1.040	1.040	1.021	1.015	1.018	1.022
Indiana	0.990	0.990	0.990	0.989	0.990	0.989	0.993	1.016	1.006	1.007	1.008	1.009	1.009	1.015	1.016
Iowa	1.008	1.008	1.004	1.002	1.002	1.003	1.003	1.008	1.014	1.015	1.011	1.010	1.008	1.007	1.011
Kansas	0.982	0.981	0.981	0.981	0.982	0.994	0.993	1.007	1.006	0.994	1.000	0.986	1.049	0.986	0.993
Kentucky	1.008	1.011	1.011	1.010	1.010	1.009	1.014	1.014	1.020	1.022	1.030	1.038	1.037	1.037	1.039
Louisiana	1.032	1.033	1.035	1.042	1.034	1.037	1.036	1.047	1.040	1.041	1.038	1.039	1.039	1.041	1.043
Maine	1.024	1.024	1.024	1.024	1.000	1.024	1.025	1.025	1.026	1.032	1.035	1.031	1.040	1.027	1.003
Maryland	1.013	1.014	1.016	1.030	1.043	1.020	1.014	1.018	1.021	1.026	1.034	1.036	1.033	1.032	1.031
Massachusetts	1.004	1.006	1.007	1.009	1.009	1.016	1.017	1.022	1.021	1.025	1.024	1.026	1.030	1.030	1.036
Michigan	1.024	1.023	1.020	1.017	1.020	1.020	1.026	1.028	1.039	1.023	1.023	1.038	1.031	1.040	1.052
Minnesota	1.002	0.999	0.997	0.997	0.995	0.997	0.995	1.005	1.023	1.003	1.004	0.999	0.999	1.007	1.006
Mississippi	1.022	1.024	1.026	1.024	1.029	1.034	1.029	1.031	1.026	1.031	1.025	1.021	1.016	1.015	1.031
Missouri	1.008	1.005	1.004	1.006	0.980	1.016	1.016	1.018	1.027	1.017	1.017	1.011	1.011	1.006	1.008
Montana	1.019	1.012	1.007	0.999	0.987	1.009	1.008	1.010	1.007	1.004	0.999	0.998	1.018	1.024	1.019
Nebraska	0.996	0.997	1.001	1.000	0.997	0.980	0.979	0.981	0.982	0.981	0.982	0.993	0.985	0.983	0.988
Nevada	1.067	1.065	1.037	1.003	0.968	1.052	1.078	1.071	1.067	1.059	1.061	1.060	1.004	0.996	1.032
New Hampshire	1.010	1.010	1.000	1.007	1.040	1.020	1.022	1.020	1.021	1.027	1.027	1.027	1.029	1.025	1.019
New Jersey	1.031	1.034	1.034	1.035	1.035	1.033	1.033	1.031	1.029	1.020	1.022	1.026	1.024	1.025	1.025
New Mexico	1.076	1.066	1.070	1.060	1.065	1.048	1.054	1.052	1.041	1.061	1.088	1.083	1.081	1.074	1.050
New York	1.015	1.014	1.011	1.012	1.013	1.023	1.018	1.021	1.026	1.025	1.027	1.027	1.030	1.029	1.029
North Carolina	1.018	1.018	1.019	1.021	1.022	1.012	1.012	1.033	1.033	1.034	1.034	1.033	1.031	1.030	1.031
North Dakota	1.001	1.000	1.000	1.000	1.000	1.052	1.042	1.026	1.045	1.049	1.062	1.043	1.048	1.055	1.049
Ohio	1.024	1.026	1.025	1.024	1.026	1.016	1.023	1.029	1.034	1.037	1.044	1.046	1.045	1.040	1.042
Oklahoma	0.996	0.992	1.012	1.004	1.005	1.002	1.026	1.010	1.037	1.017	1.020	1.023	1.031	1.038	1.022
Oregon	1.039	1.036	1.042	1.045	1.045	1.046	1.044	1.044	1.041	1.036	1.030	1.022	1.028	1.023	1.035
Pennsylvania	1.025	1.025	1.021	1.022	1.021	1.022	1.022	1.028	1.029	1.034	1.034	1.036	1.036	1.036	1.037
Rhode Island	1.014	1.012	1.013	1.013	1.009	1.021	1.022	1.036	1.035	1.030	1.033	1.029	1.027	1.027	1.027
South Carolina	1.023	1.023	1.022	1.031	1.015	1.033	1.023	1.030	1.027	1.026	1.028	1.030	1.028	1.027	1.026
South Dakota	1.000	0.999	1.000	0.999	0.996	0.998	1.002	0.999	1.011	1.011	1.010	1.005	1.013	1.020	1.017
Tennessee	1.031	1.029	1.031	1.028	1.033	1.016	1.016	1.024	1.023	1.024	1.034	1.032	1.032	1.031	1.032
Texas	1.030	1.029	1.028	1.025	1.030	1.031	1.033	1.031	1.032	1.039	1.039	1.043	1.042	1.040	1.040
Utah	0.950	0.948	0.950	0.957	0.960	1.092	1.077	0.939	1.077	1.075	1.075	0.948	1.080	1.081	1.087
Vermont	1.009	1.008	1.009	1.011	1.012	0.989	0.993	0.993	0.992	0.992	0.992	0.987	0.987	0.990	0.986
Virginia	1.019	1.019	1.021	1.019	1.019	1.015	1.023	1.026	1.030	1.036	1.039	1.040	1.040	1.041	1.041
Washington	1.042	1.041	1.045	1.048	1.047	1.052	1.050	1.053	1.043	1.045	1.040	1.029	1.033	1.026	1.032
West Virginia	1.038	1.044	1.042	1.031	1.024	1.032	1.040	1.047	1.038	1.053	1.067	1.076	1.074	1.077	1.077
Wisconsin	1.020	1.017	1.015	1.012	1.013	1.008	1.009	1.012	1.009	1.008	1.010	1.010	1.008	1.008	1.005
Wyoming	0.935	0.951	0.938	0.914	0.930	1.061	1.059	1.002	1.059	1.053	1.051	1.050	1.057	1.053	1.055
U.S. Average	1.022	1.021	1.022	1.020	1.020	1.024	1.026	1.027	1.031	1.030	1.032	1.030	1.031	1.030	1.032

Sources: See source listing at the end of this appendix.

Thermal Conversion Factors

Table D6. State Energy Data System Conversion Factors for Natural Gas Total Consumption, 1960–1974
(Thousand Btu per Cubic Foot)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	1.035	1.035	1.035	1.027	1.037	1.034	1.033	1.031	1.033	1.033	1.031	1.031	1.031	1.029	1.028
Alaska	1.035	1.035	1.035	1.011	1.010	1.010	1.000	1.000	1.005	1.005	1.005	1.005	1.005	1.010	1.005
Arizona	1.035	1.035	1.035	1.077	1.075	1.076	1.076	1.065	1.076	1.076	1.059	1.059	1.059	1.056	1.065
Arkansas	1.035	1.035	1.035	1.000	1.003	1.001	1.001	1.001	1.000	1.000	1.004	1.004	1.004	0.999	0.999
California	1.035	1.035	1.035	1.069	1.071	1.073	1.072	1.072	1.069	1.069	1.054	1.054	1.054	1.053	1.056
Colorado	1.035	1.035	1.035	0.908	0.898	0.912	0.913	0.908	0.987	0.987	0.974	0.974	0.974	0.962	0.967
Connecticut	1.035	1.035	1.035	1.022	1.030	1.022	1.022	1.021	1.016	1.016	1.016	1.016	1.016	1.015	1.012
Delaware	1.035	1.035	1.035	1.043	1.043	1.043	1.042	1.042	1.042	1.042	1.020	1.020	1.020	1.020	1.020
Dist. of Col.	1.035	1.035	1.035	1.025	1.024	1.024	1.024	1.024	1.022	1.022	1.016	1.016	1.016	1.013	1.012
Florida	1.035	1.035	1.035	1.026	1.041	1.037	1.039	1.039	1.048	1.048	1.041	1.041	1.041	1.043	1.043
Georgia	1.035	1.035	1.035	1.043	1.043	1.040	1.042	1.043	1.043	1.043	1.031	1.031	1.031	1.030	1.028
Hawaii	1.035	1.035	1.035	–	–	–	–	–	–	–	0.962	0.962	0.962	0.935	0.921
Idaho	1.035	1.035	1.035	1.065	1.071	1.065	1.080	1.048	1.023	1.023	1.061	1.061	1.061	1.058	1.042
Illinois	1.035	1.035	1.035	1.023	1.030	1.029	1.033	1.033	1.033	1.033	1.025	1.025	1.025	1.023	1.023
Indiana	1.035	1.035	1.035	1.000	1.000	0.999	1.000	1.000	1.001	1.001	1.006	1.006	1.006	0.998	0.997
Iowa	1.035	1.035	1.035	1.007	1.004	1.010	1.019	1.021	1.021	1.021	1.009	1.009	1.009	1.012	1.011
Kansas	1.035	1.035	1.035	0.996	0.994	0.995	0.994	0.990	0.988	0.988	0.998	0.998	0.998	0.988	0.986
Kentucky	1.035	1.035	1.035	1.045	1.027	1.028	1.024	1.024	1.022	1.022	1.017	1.017	1.017	1.019	1.015
Louisiana	1.035	1.035	1.035	1.035	1.050	1.042	1.036	1.033	1.012	1.012	1.029	1.029	1.029	1.031	1.030
Maine	1.035	1.035	1.035	–	–	–	1.025	1.025	1.029	1.029	1.012	1.012	1.012	1.011	1.011
Maryland	1.035	1.035	1.035	1.029	1.026	1.025	1.026	1.024	1.024	1.024	1.022	1.022	1.022	1.020	1.020
Massachusetts	1.035	1.035	1.035	1.015	1.014	1.013	1.013	1.013	1.012	1.012	1.012	1.012	1.012	1.011	1.009
Michigan	1.035	1.035	1.035	1.012	1.013	1.014	1.017	1.019	1.015	1.015	1.015	1.015	1.015	1.010	1.007
Minnesota	1.035	1.035	1.035	0.998	0.998	0.998	1.005	1.008	1.010	1.010	1.002	1.002	1.002	0.999	1.001
Mississippi	1.035	1.035	1.035	1.022	1.035	1.029	1.022	1.023	1.024	1.024	1.025	1.025	1.025	1.024	1.025
Missouri	1.035	1.035	1.035	1.020	1.021	1.020	1.016	1.018	1.020	1.020	1.007	1.007	1.007	0.995	1.005
Montana	1.035	1.035	1.035	1.000	1.001	1.001	1.001	0.998	0.999	0.999	1.032	1.032	1.032	1.032	1.022
Nebraska	1.035	1.035	1.035	0.991	0.990	0.991	0.996	0.996	0.998	0.998	1.008	1.008	1.008	1.005	1.002
Nevada	1.035	1.035	1.035	1.072	1.069	1.062	1.061	1.051	1.058	1.058	1.082	1.082	1.082	1.067	1.067
New Hampshire	1.035	1.035	1.035	1.003	1.001	1.012	1.009	1.014	1.009	1.009	1.010	1.010	1.010	1.008	1.007
New Jersey	1.035	1.035	1.035	1.047	1.048	1.045	1.042	1.040	1.037	1.037	1.026	1.026	1.026	1.027	1.026
New Mexico	1.035	1.035	1.035	1.108	1.109	1.108	1.108	1.097	1.098	1.098	1.083	1.083	1.083	1.067	1.062
New York	1.035	1.035	1.035	1.027	1.027	1.026	1.022	1.023	1.021	1.021	1.021	1.021	1.021	1.030	1.023
North Carolina	1.035	1.035	1.035	1.036	1.035	1.033	1.031	1.029	1.026	1.026	1.024	1.024	1.024	1.027	1.025
North Dakota	1.035	1.035	1.035	1.000	1.000	1.000	1.002	1.006	1.008	1.008	1.031	1.031	1.031	1.024	1.002
Ohio	1.035	1.035	1.035	1.034	1.033	1.033	1.033	1.033	1.031	1.031	1.023	1.023	1.023	1.025	1.026
Oklahoma	1.035	1.035	1.035	1.026	1.026	1.026	1.024	1.024	1.023	1.023	1.032	1.032	1.032	1.023	1.032
Oregon	1.035	1.035	1.035	1.078	1.074	1.070	1.065	1.059	1.054	1.054	1.045	1.045	1.045	1.059	1.044
Pennsylvania	1.035	1.035	1.035	1.040	1.039	1.038	1.038	1.034	1.033	1.033	1.033	1.033	1.033	1.036	1.024
Rhode Island	1.035	1.035	1.035	1.042	1.044	1.042	1.042	1.041	1.042	1.042	1.021	1.021	1.021	1.016	1.013
South Carolina	1.035	1.035	1.035	1.045	1.043	1.042	1.046	1.040	1.036	1.036	1.028	1.028	1.028	1.026	1.025
South Dakota	1.035	1.035	1.035	0.997	0.996	0.997	1.000	1.004	1.005	1.005	1.004	1.004	1.004	1.002	0.999
Tennessee	1.035	1.035	1.035	1.055	1.051	1.046	1.047	1.042	1.039	1.039	1.022	1.022	1.022	1.022	1.020
Texas	1.035	1.035	1.035	1.037	1.033	1.037	1.043	1.044	1.038	1.038	1.027	1.027	1.027	1.027	1.027
Utah	1.035	1.035	1.035	0.926	0.923	0.925	0.921	0.924	0.925	0.925	0.938	0.938	0.938	0.945	0.952
Vermont	1.035	1.035	1.035	–	–	–	1.009	1.009	1.006	1.033	1.006	1.006	1.006	1.006	1.008
Virginia	1.035	1.035	1.035	1.039	1.033	1.031	1.030	1.030	1.031	1.031	1.026	1.026	1.026	1.025	1.022
Washington	1.035	1.035	1.035	1.076	1.077	1.075	1.068	1.063	1.062	1.062	1.055	1.055	1.055	1.051	1.047
West Virginia	1.035	1.035	1.035	1.060	1.054	1.071	1.045	1.042	1.038	1.038	1.029	1.029	1.029	1.030	1.023
Wisconsin	1.035	1.035	1.035	1.025	1.022	1.018	1.021	1.023	1.025	1.025	1.019	1.019	1.019	1.015	1.015
Wyoming	1.035	1.035	1.035	0.926	0.919	0.926	0.958	0.950	0.960	0.960	1.023	1.023	1.023	1.017	0.996
U.S. Average	1.035	1.035	1.035	1.032	1.033	1.033	1.034	1.033	1.031	1.030	1.026	1.026	1.026	1.025	1.024

Sources: See source listing at the end of this appendix.

Table D7. State Energy Data System Conversion Factors for Natural Gas Total Consumption, 1975–1989
(Thousand Btu per Cubic Foot)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Alabama	1.029	1.030	1.031	1.032	1.028	1.034	1.036	1.052	1.038	1.033	1.038	1.036	1.033	1.029	1.030
Alaska	1.005	1.005	1.005	1.000	1.000	1.003	1.004	1.000	1.002	1.002	1.006	1.009	1.009	1.004	0.999
Arizona	1.052	1.052	1.056	1.065	1.045	1.049	1.053	1.054	1.045	1.047	1.050	1.039	1.036	1.034	1.040
Arkansas	0.997	0.997	1.021	1.001	1.017	1.001	1.001	1.002	1.023	1.021	1.019	1.019	1.016	1.009	1.006
California	1.057	1.053	1.052	1.053	1.050	1.046	1.048	1.049	1.043	1.042	1.043	1.039	1.030	1.031	1.037
Colorado	0.913	0.914	0.900	0.876	0.892	0.993	0.994	1.000	1.006	1.002	0.999	1.003	1.000	1.006	1.011
Connecticut	1.005	1.008	1.010	1.013	1.012	1.022	1.025	1.027	1.029	1.029	1.030	1.030	1.031	1.032	1.034
Delaware	1.020	1.025	1.030	1.031	1.031	1.035	1.035	1.033	1.018	1.021	1.025	1.018	1.015	1.023	1.028
Dist. of Col.	1.012	1.012	1.016	1.016	1.016	1.003	1.014	1.017	1.010	1.012	1.015	1.013	1.014	1.011	1.010
Florida	1.043	1.041	1.045	1.047	1.037	1.041	1.059	1.044	1.048	1.049	1.053	1.036	1.044	1.042	1.042
Georgia	1.027	1.027	1.027	1.028	1.039	1.032	1.027	1.030	1.026	1.026	1.028	1.027	1.026	1.025	1.026
Hawaii	0.947	0.911	0.949	0.958	0.950	0.963	0.959	0.989	1.023	1.026	1.082	1.086	1.068	1.078	1.080
Idaho	1.055	1.057	1.060	1.053	1.047	1.053	1.070	1.072	1.047	1.045	1.049	1.021	1.017	1.020	1.027
Illinois	1.026	1.025	1.028	1.018	1.024	1.022	1.020	1.022	1.041	1.040	1.040	1.021	1.015	1.018	1.022
Indiana	0.990	0.990	0.990	0.989	0.990	0.989	0.993	1.016	1.006	1.007	1.008	1.009	1.009	1.015	1.016
Iowa	1.008	1.008	1.004	1.002	1.002	1.003	1.003	1.008	1.014	1.015	1.011	1.010	1.008	1.007	1.011
Kansas	0.984	0.981	0.981	0.978	0.978	0.987	0.987	0.999	0.999	0.992	0.998	0.985	1.046	0.986	0.992
Kentucky	1.008	1.011	1.011	1.010	1.010	1.009	1.014	1.014	1.020	1.022	1.030	1.038	1.037	1.037	1.039
Louisiana	1.037	1.038	1.038	1.045	1.037	1.038	1.037	1.047	1.042	1.042	1.040	1.040	1.040	1.042	1.043
Maine	1.024	1.024	1.024	1.024	1.000	1.024	1.025	1.025	1.026	1.032	1.035	1.031	1.040	1.027	1.003
Maryland	1.013	1.014	1.016	1.030	1.045	1.020	1.014	1.018	1.021	1.026	1.034	1.036	1.034	1.032	1.032
Massachusetts	1.004	1.006	1.007	1.009	1.009	1.016	1.016	1.024	1.025	1.030	1.027	1.026	1.029	1.030	1.038
Michigan	1.012	1.008	1.006	1.005	1.005	1.011	1.017	1.022	1.024	1.017	1.015	1.027	1.021	1.022	1.029
Minnesota	1.001	0.998	0.997	0.997	0.995	0.997	0.995	1.005	1.023	1.003	1.004	0.999	0.999	1.007	1.006
Mississippi	1.023	1.023	1.025	1.021	1.024	1.028	1.025	1.028	1.027	1.030	1.028	1.025	1.018	1.017	1.030
Missouri	1.006	1.003	1.002	1.004	0.979	1.014	1.015	1.018	1.027	1.017	1.017	1.011	1.011	1.006	1.008
Montana	1.021	1.014	1.009	1.000	0.990	1.012	1.011	1.011	1.008	1.005	1.001	1.000	1.020	1.025	1.020
Nebraska	0.994	0.994	0.998	0.998	0.994	0.978	0.978	0.981	0.982	0.981	0.982	0.993	0.985	0.983	0.987
Nevada	1.067	1.066	1.049	1.028	1.013	1.061	1.076	1.070	1.066	1.059	1.062	1.059	1.009	1.003	1.030
New Hampshire	1.010	1.010	1.000	1.007	1.040	1.020	1.022	1.020	1.021	1.027	1.027	1.027	1.029	1.025	1.019
New Jersey	1.031	1.034	1.034	1.035	1.036	1.033	1.034	1.031	1.031	1.024	1.026	1.027	1.026	1.026	1.026
New Mexico	1.064	1.057	1.057	1.055	1.056	1.043	1.047	1.045	1.033	1.049	1.074	1.077	1.074	1.068	1.048
New York	1.015	1.014	1.011	1.012	1.015	1.025	1.020	1.023	1.027	1.027	1.029	1.029	1.030	1.029	1.029
North Carolina	1.018	1.018	1.019	1.021	1.022	1.012	1.012	1.033	1.033	1.034	1.034	1.033	1.031	1.030	1.031
North Dakota	1.001	1.000	1.000	1.000	1.000	1.052	1.042	1.026	1.045	1.049	1.062	1.043	1.048	1.055	1.049
Ohio	1.023	1.025	1.024	1.023	1.025	1.016	1.023	1.029	1.034	1.037	1.044	1.046	1.045	1.040	1.042
Oklahoma	1.015	1.014	1.027	1.024	1.023	1.023	1.035	1.023	1.042	1.025	1.028	1.030	1.036	1.038	1.028
Oregon	1.039	1.036	1.042	1.045	1.045	1.046	1.044	1.044	1.041	1.036	1.030	1.022	1.028	1.023	1.035
Pennsylvania	1.025	1.025	1.021	1.021	1.021	1.022	1.022	1.028	1.029	1.034	1.034	1.036	1.036	1.036	1.037
Rhode Island	1.014	1.013	1.013	1.013	1.011	1.021	1.022	1.036	1.035	1.030	1.033	1.029	1.028	1.027	1.027
South Carolina	1.024	1.023	1.022	1.032	1.018	1.033	1.023	1.030	1.027	1.026	1.028	1.030	1.028	1.027	1.026
South Dakota	1.000	0.999	1.000	0.999	0.996	0.998	1.002	0.999	1.011	1.011	1.010	1.005	1.013	1.020	1.017
Tennessee	1.031	1.029	1.031	1.028	1.033	1.016	1.016	1.024	1.023	1.024	1.034	1.032	1.032	1.031	1.032
Texas	1.026	1.025	1.027	1.028	1.032	1.033	1.032	1.032	1.029	1.036	1.038	1.040	1.040	1.038	1.038
Utah	0.950	0.948	0.950	0.956	0.960	1.086	1.073	0.939	1.075	1.075	1.075	0.948	1.080	1.081	1.087
Vermont	1.008	1.008	1.008	1.010	1.010	0.990	0.993	0.993	0.992	0.992	0.992	0.987	0.987	0.990	0.986
Virginia	1.019	1.019	1.023	1.021	1.021	1.016	1.024	1.027	1.030	1.036	1.039	1.040	1.040	1.041	1.041
Washington	1.042	1.041	1.045	1.048	1.047	1.052	1.050	1.053	1.043	1.045	1.040	1.029	1.033	1.026	1.032
West Virginia	1.037	1.043	1.042	1.031	1.024	1.032	1.040	1.047	1.038	1.053	1.067	1.076	1.074	1.077	1.077
Wisconsin	1.020	1.017	1.015	1.012	1.013	1.008	1.009	1.012	1.009	1.008	1.010	1.010	1.008	1.008	1.005
Wyoming	0.934	0.950	0.937	0.914	0.929	1.060	1.059	1.002	1.059	1.053	1.051	1.050	1.057	1.053	1.055
U.S. Average	1.022	1.022	1.023	1.022	1.022	1.025	1.027	1.029	1.030	1.031	1.033	1.031	1.031	1.030	1.031

Sources: See source listing at the end of this appendix.

Table D8. State Energy Data System Conversion Factors for Bituminous Coal and Lignite Consumed by the Residential/Commercial Sector, 1960–1974 (Million Btu per Short Ton)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	24.910	24.889	24.882	24.861	24.841	24.779	24.684	24.581	24.568	24.391	23.933	23.742	23.674	23.701	23.324
Alaska	18.906	18.891	18.885	18.869	18.854	18.807	18.735	18.657	18.647	18.513	18.165	18.020	17.969	17.989	17.703
Arizona	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Arkansas	23.588	23.569	23.562	23.542	23.523	23.465	23.374	23.277	23.265	23.097	22.663	22.483	22.418	22.444	22.087
California	23.013	22.994	22.987	22.968	22.950	22.892	22.804	22.710	22.697	22.534	22.111	21.935	21.871	21.896	21.548
Colorado	22.953	22.934	22.927	22.908	22.890	22.833	22.745	22.650	22.638	22.475	22.053	21.877	21.814	21.839	21.492
Connecticut	25.062	25.042	25.034	25.013	24.994	24.931	24.835	24.732	24.719	24.540	24.080	23.888	23.819	23.846	23.467
Delaware	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Dist. of Col.	25.109	25.088	25.080	25.060	25.040	24.977	24.881	24.778	24.764	24.586	24.124	23.932	23.863	23.890	23.510
Florida	24.336	24.315	24.308	24.288	24.269	24.208	24.115	24.015	24.002	23.829	23.382	23.195	23.129	23.155	22.787
Georgia	24.742	24.722	24.714	24.694	24.674	24.613	24.518	24.416	24.403	24.227	23.772	23.583	23.515	23.542	23.167
Hawaii	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Idaho	24.831	24.811	24.804	24.783	24.763	24.701	24.606	24.504	24.491	24.314	23.858	23.668	23.600	23.626	23.251
Illinois	24.041	24.021	24.014	23.994	23.975	23.915	23.823	23.724	23.711	23.540	23.098	22.914	22.848	22.874	22.511
Indiana	24.063	24.043	24.036	24.016	23.997	23.937	23.845	23.746	23.733	23.562	23.120	22.935	22.869	22.895	22.531
Iowa	21.321	21.304	21.297	21.280	21.263	21.210	21.128	21.040	21.029	20.877	20.485	20.322	20.264	20.287	19.964
Kansas	21.788	21.770	21.764	21.746	21.728	21.674	21.591	21.501	21.489	21.334	20.934	20.767	20.707	20.731	20.401
Kentucky	24.410	24.390	24.383	24.363	24.343	24.282	24.189	24.088	24.075	23.902	23.453	23.266	23.199	23.226	22.856
Louisiana	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Maine	25.152	25.131	25.124	25.103	25.083	25.020	24.924	24.820	24.807	24.628	24.166	23.973	23.904	23.931	23.551
Maryland	25.119	25.098	25.091	25.070	25.050	24.988	24.891	24.788	24.774	24.596	24.134	23.942	23.873	23.900	23.520
Massachusetts	25.073	25.053	25.045	25.024	25.005	24.942	24.846	24.743	24.729	24.551	24.090	23.898	23.830	23.857	23.477
Michigan	24.760	24.739	24.732	24.711	24.692	24.630	24.535	24.433	24.420	24.244	23.789	23.599	23.531	23.558	23.184
Minnesota	21.971	21.953	21.946	21.928	21.911	21.856	21.772	21.681	21.669	21.513	21.109	20.941	20.881	20.905	20.572
Mississippi	23.044	23.024	23.018	22.999	22.980	22.923	22.835	22.740	22.727	22.564	22.140	21.964	21.900	21.925	21.577
Missouri	22.942	22.923	22.916	22.897	22.879	22.821	22.734	22.639	22.627	22.464	22.042	21.867	21.804	21.828	21.481
Montana	21.336	21.318	21.312	21.294	21.277	21.224	21.142	21.054	21.043	20.891	20.499	20.336	20.277	20.300	19.977
Nebraska	20.913	20.896	20.890	20.872	20.856	20.804	20.724	20.638	20.626	20.478	20.093	19.933	19.876	19.898	19.582
Nevada	25.231	25.210	25.203	25.182	25.162	25.099	25.002	24.899	24.885	24.706	24.242	24.049	23.980	24.007	23.625
New Hampshire	24.958	24.937	24.930	24.909	24.889	24.827	24.732	24.629	24.616	24.438	23.979	23.788	23.720	23.747	23.369
New Jersey	24.744	24.723	24.716	24.695	24.676	24.614	24.519	24.418	24.404	24.228	23.774	23.584	23.516	23.543	23.169
New Mexico	22.993	22.974	22.967	22.948	22.930	22.873	22.785	22.690	22.678	22.514	22.091	21.916	21.852	21.877	21.529
New York	24.624	24.604	24.596	24.576	24.557	24.495	24.401	24.300	24.286	24.111	23.659	23.470	23.403	23.429	23.057
North Carolina	24.762	24.742	24.734	24.714	24.694	24.632	24.538	24.436	24.422	24.246	23.791	23.602	23.534	23.561	23.186
North Dakota	15.550	15.537	15.533	15.520	15.507	15.469	15.409	15.345	15.337	15.226	14.940	14.821	14.779	14.796	14.560
Ohio	23.849	23.830	23.823	23.803	23.784	23.724	23.633	23.535	23.522	23.353	22.914	22.732	22.666	22.692	22.331
Oklahoma	22.727	22.708	22.702	22.683	22.665	22.608	22.521	22.428	22.415	22.254	21.836	21.662	21.600	21.624	21.280
Oregon	24.605	24.585	24.577	24.557	24.538	24.476	24.382	24.281	24.267	24.092	23.640	23.452	23.384	23.411	23.039
Pennsylvania	24.791	24.770	24.763	24.742	24.723	24.661	24.566	24.464	24.450	24.274	23.819	23.629	23.561	23.588	23.213
Rhode Island	25.879	25.858	25.850	25.829	25.808	25.744	25.645	25.538	25.524	25.340	24.865	24.667	24.596	24.624	24.232
South Carolina	24.762	24.741	24.734	24.713	24.694	24.632	24.537	24.435	24.422	24.246	23.791	23.601	23.533	23.560	23.185
South Dakota	19.412	19.395	19.390	19.374	19.358	19.310	19.236	19.156	19.145	19.007	18.650	18.502	18.449	18.470	18.176
Tennessee	24.715	24.695	24.688	24.667	24.647	24.586	24.491	24.390	24.376	24.200	23.746	23.557	23.489	23.516	23.142
Texas	14.952	14.939	14.935	14.923	14.911	14.873	14.816	14.755	14.747	14.640	14.366	14.251	14.210	14.226	14.000
Utah	25.892	25.870	25.863	25.841	25.821	25.756	25.657	25.551	25.537	25.353	24.877	24.679	24.608	24.636	24.244
Vermont	25.148	25.127	25.119	25.098	25.079	25.016	24.920	24.816	24.802	24.624	24.162	23.969	23.900	23.927	23.547
Virginia	24.786	24.765	24.758	24.737	24.718	24.656	24.561	24.459	24.446	24.270	23.814	23.624	23.556	23.583	23.208
Washington	22.909	22.890	22.884	22.864	22.846	22.789	22.702	22.607	22.595	22.432	22.011	21.836	21.773	21.798	21.451
West Virginia	24.997	24.976	24.969	24.948	24.928	24.866	24.770	24.667	24.654	24.476	24.017	23.826	23.757	23.784	23.406
Wisconsin	21.915	21.897	21.891	21.873	21.855	21.801	21.717	21.627	21.615	21.459	21.056	20.889	20.828	20.852	20.520
Wyoming	20.625	20.608	20.602	20.585	20.569	20.517	20.438	20.354	20.342	20.196	19.817	19.659	19.602	19.625	19.312
U.S. Average	24.054	24.034	24.027	24.007	23.988	23.928	23.836	23.737	23.724	23.553	23.111	22.927	22.861	22.887	22.523

Sources: See source listing at the end of this appendix.

Table D9. State Energy Data System Conversion Factors for Bituminous Coal and Lignite Consumed by the Residential/Commercial Sector, 1975–1989 (Million Btu per Short Ton)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Alabama	23.520	23.618	23.507	23.946	24.013	24.042	24.226	24.314	24.155	24.305	24.407	24.640	25.083	25.793	24.434
Alaska	17.683	17.734	17.658	17.641	15.800	15.800	15.800	15.800	15.800	15.800	15.800	15.800	15.800	15.800	15.800
Arizona	-	-	23.139	23.039	-	-	19.985	19.995	19.866	19.790	19.788	19.886	20.384	19.884	21.631
Arkansas	22.785	-	23.258	24.556	-	23.900	26.519	22.890	22.948	22.811	22.990	-	21.490	21.920	24.250
California	21.373	-	21.421	22.184	22.381	23.109	23.029	23.286	23.096	23.142	23.555	18.982	22.688	23.128	22.373
Colorado	20.826	21.418	21.557	19.872	21.735	21.461	21.339	21.516	21.370	21.559	21.217	21.565	21.399	21.956	21.382
Connecticut	-	-	-	22.405	24.094	24.454	24.291	25.138	25.928	-	24.664	24.955	24.959	25.044	24.804
Delaware	-	-	-	-	-	24.415	24.286	24.416	24.594	-	24.660	24.724	24.772	24.987	24.697
Dist. of Col.	23.241	23.714	-	-	24.146	24.541	24.304	24.494	24.785	24.814	24.888	24.962	25.063	25.103	24.817
Florida	23.493	-	-	-	24.068	24.283	24.328	22.985	24.684	24.750	24.882	24.962	25.036	25.044	24.884
Georgia	23.494	23.849	23.591	23.628	24.100	24.321	24.311	24.361	24.501	24.745	24.881	24.960	25.129	25.210	24.653
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	22.663	21.311	21.636	20.090	19.148	22.292	21.717	21.670	22.121	22.229	22.832	22.858	22.577	22.582	21.568
Illinois	22.523	22.456	22.233	22.266	22.264	22.066	22.065	22.019	22.217	22.273	22.267	22.340	22.531	22.452	22.621
Indiana	22.132	22.479	22.899	22.295	22.384	21.877	21.953	22.064	22.052	22.081	22.257	22.394	22.712	22.588	22.300
Iowa	18.277	18.944	21.895	19.929	21.334	20.223	20.611	20.526	21.648	20.925	21.390	21.129	20.632	20.475	22.674
Kansas	19.746	-	-	21.092	20.909	21.182	21.183	22.421	21.328	21.438	21.146	21.376	21.490	21.920	23.701
Kentucky	23.209	23.737	23.444	23.407	23.942	23.865	23.962	23.976	24.004	24.284	24.344	24.557	24.580	24.406	23.506
Louisiana	20.474	-	-	-	-	21.365	-	21.428	-	22.778	-	-	-	-	24.884
Maine	23.260	23.714	23.362	23.474	24.187	24.441	24.400	24.507	24.750	24.748	24.883	25.113	25.276	25.169	25.208
Maryland	23.334	23.760	23.575	23.808	24.318	24.468	24.310	24.519	24.604	24.741	24.854	24.865	24.839	24.923	24.938
Massachusetts	23.241	23.714	23.336	23.599	23.063	24.510	24.738	24.828	25.018	24.824	25.079	24.889	24.992	25.600	25.462
Michigan	23.474	23.577	23.311	23.069	24.086	24.363	24.243	24.385	24.565	24.381	24.472	24.862	24.927	25.028	24.858
Minnesota	19.257	23.255	23.224	20.599	18.757	20.829	18.497	18.046	19.199	18.573	19.142	18.976	17.942	18.198	19.272
Mississippi	21.950	-	-	23.315	24.094	22.993	-	-	23.879	24.750	24.541	24.962	24.407	23.619	23.288
Missouri	21.404	21.611	21.511	21.346	21.246	21.807	21.541	21.471	21.665	21.677	22.802	22.616	21.777	22.011	22.362
Montana	20.389	20.037	18.942	18.432	18.696	22.042	17.671	17.598	20.405	17.707	17.680	17.579	17.576	17.761	19.706
Nebraska	18.406	18.410	18.074	17.967	18.441	18.038	17.701	19.195	20.616	21.375	21.526	20.809	20.935	18.275	21.379
Nevada	23.521	22.478	23.080	18.680	17.793	22.334	22.625	23.094	23.096	21.784	23.562	23.234	23.416	23.150	22.876
New Hampshire	-	-	-	-	-	24.458	-	24.493	24.750	24.588	-	24.962	-	24.732	24.934
New Jersey	21.821	-	-	-	-	24.321	24.286	24.884	24.594	24.745	24.871	24.724	24.750	-	24.664
New Mexico	-	-	21.827	19.972	20.007	19.786	20.017	20.070	19.866	19.790	19.817	19.886	17.960	19.892	22.985
New York	23.386	23.836	23.383	23.874	24.012	24.370	24.211	24.363	24.660	24.568	24.660	24.622	24.815	24.783	24.696
North Carolina	23.493	23.865	23.592	23.469	24.100	24.422	24.326	24.493	24.749	24.750	24.878	24.962	25.058	25.056	24.886
North Dakota	13.757	13.487	13.495	13.289	13.451	13.243	13.221	13.263	13.157	13.001	13.138	13.129	13.195	13.098	13.084
Ohio	22.325	22.925	22.697	22.658	22.977	23.213	23.470	23.571	23.746	23.800	23.848	23.980	24.144	24.274	23.876
Oklahoma	20.673	20.965	21.305	21.531	25.722	23.291	21.667	21.842	21.318	21.501	23.394	21.895	22.901	21.875	23.174
Oregon	22.383	21.539	21.413	20.447	19.560	22.722	20.262	19.758	20.240	21.754	22.607	20.674	22.835	24.270	24.376
Pennsylvania	23.495	23.808	23.824	24.034	24.023	24.183	24.126	24.485	24.626	24.645	24.842	24.947	24.896	24.991	25.076
Rhode Island	-	-	-	-	-	24.415	-	-	24.594	24.588	24.660	24.724	-	-	-
South Carolina	23.493	23.865	23.592	23.628	24.100	24.414	24.146	24.493	24.750	24.679	24.882	24.962	25.036	25.044	24.884
South Dakota	16.860	19.541	19.155	22.224	17.793	18.426	18.300	18.032	19.839	23.336	19.369	20.802	17.784	16.940	17.328
Tennessee	23.485	23.855	23.521	23.323	23.373	23.975	24.156	24.005	24.582	24.279	24.389	24.089	24.327	24.718	24.357
Texas	13.104	-	13.202	-	-	15.200	19.316	17.793	23.105	-	22.511	24.960	23.528	23.446	23.695
Utah	23.740	22.410	23.083	22.962	23.365	23.179	23.140	23.279	23.096	23.142	23.562	23.234	23.416	23.048	22.829
Vermont	24.282	-	-	-	-	-	24.328	25.165	24.594	24.743	24.882	24.995	24.750	-	24.664
Virginia	23.473	23.851	23.586	23.564	24.044	24.432	24.362	24.588	24.843	24.797	24.877	25.011	25.071	25.175	25.004
Washington	19.968	19.349	22.164	21.807	21.653	22.771	22.976	23.039	22.744	22.788	23.452	22.190	22.475	22.022	22.057
West Virginia	23.709	24.025	23.886	24.189	24.148	24.059	24.184	24.716	24.897	24.820	24.930	25.213	25.271	25.277	25.227
Wisconsin	18.972	23.536	23.470	20.615	20.484	24.296	23.348	23.423	23.249	24.168	24.629	24.600	24.069	24.400	24.678
Wyoming	18.572	18.614	18.372	18.058	17.849	17.809	17.907	17.584	17.468	17.913	17.262	17.650	17.369	17.836	17.550
U.S. Average	22.258	22.819	22.594	22.078	21.884	22.488	22.010	22.226	22.438	22.406	22.568	22.669	22.800	23.135	22.917

Sources: See source listing at the end of this appendix.

Table D10. State Energy Data System Conversion Factors for Bituminous Coal and Lignite Consumed by Other Industrial Users, 1960–1974
(Million Btu per Short Ton)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	25.215	25.179	25.168	25.133	25.098	24.992	24.829	24.653	24.630	24.325	23.543	23.215	23.098	23.145	22.976
Alaska	19.428	19.401	19.392	19.365	19.338	19.257	19.131	18.996	18.978	18.743	18.140	17.887	17.797	17.834	17.703
Arizona	21.614	21.584	21.574	21.544	21.514	21.424	21.283	21.133	21.113	20.852	20.181	19.900	19.800	19.840	19.695
Arkansas	25.428	25.392	25.381	25.346	25.311	25.204	25.039	24.862	24.838	24.532	23.742	23.412	23.294	23.341	23.170
California	26.052	26.015	26.004	25.968	25.932	25.822	25.653	25.472	25.448	25.133	24.325	23.986	23.865	23.914	23.739
Colorado	23.558	23.525	23.514	23.482	23.449	23.351	23.197	23.034	23.012	22.727	21.996	21.690	21.581	21.625	21.466
Connecticut	25.780	25.743	25.732	25.696	25.661	25.553	25.385	25.206	25.182	24.871	24.071	23.735	23.616	23.664	23.491
Delaware	25.445	25.409	25.397	25.362	25.327	25.221	25.055	24.878	24.855	24.547	23.758	23.427	23.309	23.356	23.185
Dist. of Col.	25.884	25.847	25.835	25.799	25.764	25.655	25.487	25.307	25.283	24.971	24.167	23.831	23.711	23.759	23.585
Florida	25.659	25.623	25.611	25.576	25.540	25.433	25.266	25.088	25.064	24.754	23.958	23.624	23.505	23.553	23.381
Georgia	25.423	25.387	25.376	25.341	25.305	25.199	25.034	24.857	24.833	24.527	23.737	23.407	23.289	23.337	23.166
Hawaii	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Idaho	22.544	22.512	22.501	22.470	22.439	22.345	22.198	22.042	22.021	21.749	21.049	20.756	20.651	20.693	20.542
Illinois	23.828	23.794	23.783	23.750	23.717	23.618	23.463	23.297	23.275	22.987	22.248	21.938	21.827	21.872	21.712
Indiana	24.011	23.977	23.966	23.933	23.900	23.799	23.643	23.476	23.454	23.164	22.419	22.106	21.995	22.040	21.879
Iowa	23.492	23.459	23.448	23.416	23.383	23.285	23.132	22.969	22.947	22.664	21.934	21.629	21.520	21.564	21.406
Kansas	22.671	22.639	22.628	22.597	22.566	22.471	22.324	22.166	22.145	21.871	21.168	20.873	20.768	20.810	20.658
Kentucky	24.737	24.702	24.691	24.656	24.622	24.519	24.358	24.186	24.163	23.864	23.096	22.775	22.660	22.707	22.540
Louisiana	24.036	24.002	23.991	23.958	23.925	23.824	23.668	23.501	23.478	23.188	22.442	22.130	22.018	22.063	21.902
Maine	25.905	25.868	25.856	25.821	25.785	25.676	25.508	25.328	25.304	24.991	24.187	23.850	23.730	23.779	23.605
Maryland	25.909	25.872	25.861	25.825	25.789	25.681	25.512	25.332	25.308	24.995	24.191	23.854	23.734	23.782	23.608
Massachusetts	26.159	26.122	26.111	26.074	26.038	25.929	25.759	25.577	25.553	25.237	24.425	24.085	23.963	24.012	23.837
Michigan	24.832	24.797	24.786	24.751	24.717	24.613	24.452	24.279	24.256	23.956	23.186	22.863	22.748	22.794	22.627
Minnesota	19.521	19.494	19.485	19.458	19.431	19.349	19.222	19.087	19.068	18.833	18.227	17.973	17.883	17.919	17.788
Mississippi	25.681	25.645	25.633	25.598	25.562	25.455	25.288	25.109	25.085	24.775	23.978	23.644	23.525	23.573	23.401
Missouri	23.598	23.564	23.554	23.521	23.488	23.390	23.236	23.072	23.050	22.765	22.033	21.726	21.617	21.661	21.502
Montana	22.827	22.795	22.784	22.753	22.721	22.626	22.477	22.319	22.298	22.022	21.313	21.017	20.911	20.954	20.800
Nebraska	21.975	21.943	21.933	21.903	21.873	21.781	21.638	21.485	21.465	21.200	20.517	20.232	20.130	20.171	20.023
Nevada	26.618	26.581	26.569	26.532	26.495	26.384	26.211	26.026	26.001	25.680	24.853	24.507	24.384	24.434	24.255
New Hampshire	24.439	24.405	24.394	24.360	24.326	24.224	24.065	23.895	23.872	23.577	22.819	22.501	22.388	22.433	22.269
New Jersey	25.419	25.383	25.372	25.337	25.302	25.195	25.030	24.853	24.830	24.523	23.734	23.403	23.286	23.333	23.162
New Mexico	23.037	23.005	22.994	22.963	22.931	22.834	22.685	22.525	22.503	22.225	21.510	21.210	21.104	21.147	20.992
New York	25.787	25.751	25.739	25.704	25.668	25.560	25.392	25.213	25.189	24.878	24.077	23.742	23.623	23.671	23.498
North Carolina	25.446	25.410	25.399	25.363	25.328	25.222	25.056	24.880	24.856	24.549	23.759	23.428	23.310	23.358	23.187
North Dakota	14.812	14.791	14.784	14.764	14.743	14.681	14.585	14.482	14.468	14.290	13.830	13.637	13.569	13.596	13.497
Ohio	24.790	24.755	24.744	24.710	24.676	24.572	24.411	24.238	24.215	23.916	23.147	22.824	22.709	22.756	22.589
Oklahoma	25.383	25.347	25.336	25.301	25.266	25.160	24.995	24.818	24.795	24.488	23.700	23.370	23.253	23.300	23.130
Oregon	22.677	22.645	22.635	22.603	22.572	22.477	22.330	22.172	22.151	21.877	21.173	20.879	20.774	20.816	20.664
Pennsylvania	25.636	25.600	25.588	25.553	25.518	25.410	25.244	25.066	25.042	24.732	23.936	23.603	23.484	23.532	23.360
Rhode Island	25.890	25.853	25.842	25.806	25.770	25.662	25.493	25.313	25.289	24.977	24.173	23.837	23.717	23.765	23.591
South Carolina	25.448	25.412	25.400	25.365	25.330	25.224	25.058	24.881	24.858	24.550	23.761	23.430	23.312	23.359	23.188
South Dakota	19.909	19.881	19.872	19.845	19.817	19.734	19.604	19.466	19.447	19.207	18.589	18.330	18.238	18.275	18.141
Tennessee	25.074	25.038	25.027	24.993	24.958	24.853	24.690	24.516	24.492	24.190	23.411	23.085	22.969	23.016	22.848
Texas	16.664	16.640	16.632	16.609	16.586	16.517	16.408	16.293	16.277	16.076	15.559	15.342	15.265	15.296	15.184
Utah	26.198	26.161	26.149	26.113	26.077	25.967	25.797	25.615	25.591	25.274	24.461	24.121	23.999	24.048	23.872
Vermont	26.525	26.487	26.476	26.439	26.402	26.291	26.119	25.935	25.910	25.590	24.766	24.421	24.298	24.348	24.170
Virginia	25.467	25.431	25.420	25.384	25.349	25.243	25.077	24.900	24.876	24.569	23.778	23.447	23.329	23.377	23.206
Washington	25.955	25.918	25.906	25.870	25.835	25.726	25.557	25.377	25.353	25.039	24.234	23.896	23.776	23.825	23.650
West Virginia	25.524	25.488	25.476	25.441	25.406	25.299	25.133	24.956	24.932	24.624	23.831	23.499	23.381	23.429	23.257
Wisconsin	24.597	24.562	24.551	24.517	24.483	24.380	24.220	24.049	24.026	23.729	22.966	22.646	22.532	22.578	22.413
Wyoming	20.539	20.509	20.500	20.472	20.443	20.357	20.224	20.081	20.062	19.814	19.177	18.910	18.814	18.853	18.715
U.S. Average	24.604	24.569	24.558	24.524	24.490	24.387	24.227	24.056	24.034	23.737	22.973	22.653	22.539	22.585	22.420

Sources: See source listing at the end of this appendix.

Table D11. State Energy Data System Conversion Factors for Bituminous Coal and Lignite Consumed by Other Industrial Users, 1975–1989 (Million Btu per Short Ton)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Alabama	22.997	23.447	23.466	23.817	24.032	24.119	24.219	24.199	24.142	24.284	24.387	24.618	24.795	24.641	24.393
Alaska	17.684	17.734	17.717	–	–	–	–	–	–	–	–	–	–	–	–
Arizona	19.778	20.069	20.528	20.366	20.233	20.373	20.358	20.322	20.172	20.307	20.257	20.214	19.876	20.717	20.704
Arkansas	21.336	21.422	21.162	21.385	21.263	21.406	21.484	21.437	21.395	21.543	21.310	22.447	22.337	22.224	22.396
California	22.985	22.103	22.532	22.278	22.459	22.173	22.209	22.121	21.998	22.302	23.299	22.804	23.249	23.006	22.709
Colorado	21.392	20.816	21.031	21.446	21.588	21.818	21.417	21.384	21.385	21.620	21.568	21.475	21.015	21.293	20.793
Connecticut	23.627	23.865	24.281	23.132	24.372	24.458	24.328	25.036	24.639	22.060	24.882	24.834	21.649	24.745	24.781
Delaware	23.493	23.865	23.784	24.129	24.410	24.482	24.290	24.428	24.599	24.616	24.728	24.808	24.820	24.768	24.719
Dist. of Col.	23.786	24.162	23.962	24.276	24.377	24.357	24.328	–	–	–	–	–	–	–	–
Florida	23.541	23.618	23.509	23.599	22.822	22.892	23.911	24.483	24.681	24.579	24.785	24.910	25.048	25.128	24.789
Georgia	23.508	23.779	23.551	23.698	24.069	24.331	24.313	24.476	24.717	24.721	24.819	24.939	25.022	24.997	24.791
Hawaii	–	–	–	–	–	–	–	24.688	24.688	24.688	24.688	24.688	24.970	24.830	24.830
Idaho	19.935	19.029	18.897	18.402	18.786	17.684	17.680	17.495	17.614	17.598	17.762	18.122	17.710	17.856	17.701
Illinois	21.684	21.833	21.837	21.670	22.084	22.350	22.345	22.471	22.573	22.701	22.798	23.051	23.041	22.860	22.756
Indiana	21.824	21.885	21.877	21.829	22.008	22.253	22.453	22.172	22.247	22.354	22.431	22.449	22.449	22.461	22.523
Iowa	21.291	20.985	20.915	20.973	21.336	21.489	21.667	21.954	22.045	22.342	22.606	22.676	22.835	23.035	22.909
Kansas	20.480	21.062	21.237	21.432	21.162	21.568	21.443	21.402	21.443	21.440	21.506	21.377	21.747	21.927	22.211
Kentucky	22.946	23.223	23.104	23.288	23.693	24.118	24.048	24.153	24.323	24.409	24.531	24.625	24.822	24.936	24.746
Louisiana	21.034	–	22.546	21.734	21.424	22.153	21.999	22.873	22.605	23.218	24.054	24.023	24.002	19.278	20.309
Maine	24.106	24.472	23.611	23.639	24.675	24.475	24.300	24.496	24.667	24.706	24.885	24.748	24.978	24.857	24.838
Maryland	23.663	24.026	24.036	24.265	24.175	24.487	24.255	24.483	24.682	24.674	24.732	24.748	24.769	24.691	24.738
Massachusetts	23.831	23.922	24.104	23.912	24.327	24.641	24.426	24.683	24.766	24.829	24.881	25.057	25.161	25.209	25.159
Michigan	22.897	23.397	23.176	23.321	23.685	24.053	24.048	24.242	24.503	24.634	24.745	24.822	24.862	24.852	24.660
Minnesota	18.917	18.666	17.381	16.784	17.746	17.084	17.808	16.768	16.839	18.343	20.688	20.997	20.250	19.155	19.588
Mississippi	23.213	23.655	23.214	22.756	22.724	23.442	22.971	24.197	23.751	23.420	23.399	23.793	23.708	23.664	23.349
Missouri	21.429	21.791	21.707	21.658	21.782	22.002	21.952	21.994	22.079	22.351	22.329	22.561	23.012	23.106	22.948
Montana	20.879	19.469	18.702	18.189	19.523	19.035	19.406	19.552	19.534	18.987	18.068	17.738	17.894	18.282	18.490
Nebraska	19.285	19.243	19.044	18.541	18.821	19.194	18.666	18.830	19.699	19.391	18.597	18.412	18.612	18.722	19.127
Nevada	23.457	22.170	22.684	23.039	23.332	23.168	23.147	23.286	23.085	23.150	23.562	23.234	23.416	23.150	21.186
New Hampshire	23.627	–	23.621	23.898	24.407	24.267	24.241	24.427	24.594	24.652	24.665	24.724	24.750	24.756	24.876
New Jersey	23.909	24.321	24.028	23.807	24.239	24.622	24.600	24.497	25.256	25.154	25.186	25.347	25.251	25.308	25.185
New Mexico	20.849	19.874	20.022	20.617	21.641	21.867	21.594	21.740	21.460	21.644	21.625	21.813	21.380	21.920	24.437
New York	23.714	24.076	24.056	24.085	24.313	24.543	24.361	24.680	24.826	24.766	24.901	25.153	25.105	25.108	25.050
North Carolina	23.490	23.863	23.591	23.628	24.100	24.419	24.346	24.495	24.757	24.750	24.880	24.964	25.033	25.042	24.882
North Dakota	13.038	13.137	13.154	13.203	13.205	13.120	13.146	13.192	13.111	13.159	13.160	13.243	13.374	13.281	13.322
Ohio	22.679	23.093	22.870	22.855	23.021	23.346	23.343	23.698	23.961	24.029	24.187	24.400	24.463	24.519	24.309
Oklahoma	23.439	21.249	21.137	21.328	20.976	21.212	21.298	21.169	21.596	21.225	21.434	21.488	21.103	21.259	21.314
Oregon	20.348	19.037	18.627	18.424	18.274	17.693	18.860	17.629	17.854	18.799	17.868	17.833	17.908	17.397	17.660
Pennsylvania	23.551	23.910	23.867	23.924	24.102	24.271	24.177	24.430	24.711	24.684	24.759	24.954	24.993	24.946	24.878
Rhode Island	23.628	24.026	–	23.901	24.094	24.559	24.803	–	24.750	24.750	24.882	25.331	25.036	25.044	24.884
South Carolina	23.493	23.864	23.592	23.626	24.100	24.415	24.328	24.493	24.748	24.745	24.874	24.962	25.036	25.039	24.881
South Dakota	18.765	18.397	18.317	18.134	18.330	19.220	18.909	19.537	17.491	17.307	17.262	17.347	17.274	17.418	17.352
Tennessee	23.144	23.607	23.283	23.530	23.894	24.160	24.077	24.220	24.139	24.444	24.582	24.686	24.814	24.778	24.676
Texas	18.822	15.360	15.195	15.530	15.974	16.290	16.097	17.145	15.679	15.953	15.575	15.907	15.153	14.068	14.565
Utah	23.644	22.292	22.520	22.580	22.851	22.331	22.379	22.748	22.499	22.297	22.274	21.755	22.089	22.915	22.465
Vermont	24.056	24.472	24.254	24.144	24.611	24.888	24.821	24.947	25.296	24.750	24.882	–	25.036	25.044	24.884
Virginia	23.477	23.868	23.602	23.641	24.116	24.453	24.309	24.522	24.880	24.783	24.903	25.007	25.067	25.092	24.974
Washington	23.546	21.426	22.046	21.845	22.142	21.363	21.141	20.835	20.198	21.429	21.634	19.849	19.764	20.929	20.755
West Virginia	23.525	23.973	23.898	23.751	24.241	24.353	24.241	24.492	24.699	24.636	24.855	25.054	25.064	25.106	24.995
Wisconsin	21.957	22.523	22.555	22.315	22.703	22.735	22.598	22.860	22.764	22.651	23.323	23.602	23.106	21.876	22.595
Wyoming	18.356	18.410	18.227	18.020	18.110	17.955	17.970	17.821	17.723	17.514	17.555	17.337	17.463	17.771	17.741
U.S. Average	22.439	22.528	22.290	22.175	22.436	22.690	22.572	22.695	22.680	22.525	22.013	22.185	22.360	22.341	22.324

Sources: See source listing at the end of this appendix.

Thermal Conversion Factors

Table D12. State Energy Data System Conversion Factors for Bituminous Coal and Lignite Consumed by Electric Utilities, 1960–1974
(Million Btu per Short Ton)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	24.126	23.932	23.912	23.654	23.542	23.704	23.820	23.786	23.738	23.588	23.314	22.750	23.124	23.068	22.911
Alaska	17.729	17.704	17.706	17.682	17.386	17.858	17.658	17.447	17.237	17.026	17.080	17.240	17.400	17.400	17.400
Arizona	-	-	20.662	20.652	20.786	20.850	21.244	20.854	21.056	21.006	21.238	20.976	20.822	20.656	21.685
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
California	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	20.546	21.204	21.286	21.398	21.506	21.322	21.362	21.144	21.334	21.392	21.530	22.058	21.342	21.235	19.939
Connecticut	26.548	26.542	26.566	26.444	26.154	25.908	25.714	25.528	25.358	24.250	23.548	23.382	22.574	23.438	23.904
Delaware	25.982	25.604	25.770	25.686	25.814	26.392	25.984	26.434	26.110	25.482	24.186	24.618	25.070	24.738	24.247
Dist. of Col.	27.460	27.448	27.228	27.084	26.712	26.948	26.318	26.374	26.278	26.258	25.920	25.708	26.300	26.260	25.068
Florida	24.606	24.264	24.204	24.282	23.982	23.762	23.286	23.040	23.026	22.968	22.748	22.862	22.622	22.976	22.909
Georgia	25.042	25.192	25.380	24.886	24.732	24.932	24.598	24.396	24.570	24.500	23.756	23.282	23.548	23.951	23.665
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	21.694	21.596	21.558	21.658	21.574	21.448	21.378	21.394	21.368	21.508	21.002	20.714	20.682	20.680	20.539
Indiana	22.640	22.570	22.520	22.482	22.582	22.466	22.450	22.268	22.308	22.294	22.030	21.720	21.656	21.612	21.350
Iowa	20.768	20.874	20.872	20.964	21.350	21.218	21.248	21.570	21.468	21.190	20.888	20.988	20.656	21.043	20.592
Kansas	23.754	23.982	23.922	23.956	24.296	24.192	24.170	24.158	24.074	23.972	24.100	24.216	24.052	20.783	19.985
Kentucky	22.972	23.052	23.110	23.364	23.170	22.892	22.810	22.564	22.562	22.312	21.852	21.684	21.632	21.739	21.405
Louisiana	-	16.038	16.038	16.038	16.038	16.038	-	16.038	-	16.038	-	-	-	-	-
Maine	28.580	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	26.616	26.596	26.542	26.622	26.616	26.372	26.162	26.024	25.952	25.804	24.612	24.580	25.118	24.891	23.070
Massachusetts	26.352	26.056	25.918	26.144	26.330	26.072	25.576	25.450	25.274	24.802	23.260	25.062	26.288	24.182	23.768
Michigan	24.884	24.812	24.872	24.840	24.906	24.804	25.206	25.136	24.926	24.676	24.202	24.190	24.360	24.094	23.529
Minnesota	22.390	22.110	22.058	22.252	22.192	22.176	22.178	22.432	22.324	21.802	20.274	19.286	19.020	18.177	17.861
Mississippi	24.858	24.800	24.122	24.538	23.300	24.890	25.580	25.580	25.164	24.800	24.098	24.184	24.046	23.654	22.942
Missouri	21.904	21.770	22.056	21.930	21.804	21.550	21.474	21.512	21.690	21.588	21.518	21.644	21.630	21.618	21.566
Montana	13.500	13.380	13.320	13.240	13.140	13.140	13.300	13.120	14.060	15.140	15.474	15.252	15.498	15.727	15.564
Nebraska	24.782	24.796	24.552	24.316	24.436	24.568	24.484	24.242	24.432	24.356	23.914	22.954	23.030	22.309	21.253
Nevada	-	-	-	-	-	25.488	25.570	25.406	25.330	25.434	25.654	23.704	22.494	22.434	22.436
New Hampshire	25.448	26.596	26.568	26.914	26.886	27.904	27.192	27.718	27.538	27.522	27.432	26.956	27.182	26.880	26.789
New Jersey	26.772	26.752	26.750	26.652	26.584	26.458	26.368	26.300	26.254	25.976	24.944	24.616	25.252	25.570	24.540
New Mexico	25.000	23.500	22.132	17.710	18.034	18.004	17.974	17.746	17.888	17.834	17.966	18.034	18.052	17.843	17.771
New York	26.596	26.674	26.768	26.748	26.802	26.678	26.446	26.218	26.248	25.718	24.664	24.348	24.468	24.752	23.504
North Carolina	26.242	26.252	26.148	25.914	25.966	25.814	25.644	25.228	25.254	24.954	24.114	23.804	23.912	24.419	23.888
North Dakota	13.836	13.754	13.758	13.788	13.992	13.918	14.014	13.722	13.818	13.758	13.666	13.342	13.356	13.452	13.385
Ohio	23.770	23.794	23.746	23.778	23.642	23.564	23.384	23.336	23.322	23.130	22.500	22.146	22.576	22.700	21.889
Oklahoma	25.942	24.100	24.100	26.454	24.704	24.000	24.000	24.000	25.950	25.546	25.076	23.000	25.076	25.076	25.076
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	24.446	24.588	24.652	24.790	24.794	24.772	24.638	24.532	24.440	24.330	23.748	23.754	24.026	24.194	23.716
Rhode Island	28.152	28.222	28.036	27.836	27.638	27.468	27.316	27.244	27.228	-	-	-	-	-	24.152
South Carolina	26.734	26.852	26.590	26.332	26.132	25.822	25.354	25.228	25.318	24.856	24.274	24.288	24.388	24.284	24.055
South Dakota	17.168	16.466	17.626	17.758	17.588	17.904	17.324	17.356	16.742	16.886	16.572	17.276	16.906	16.317	16.318
Tennessee	24.040	23.934	23.886	23.912	23.578	23.590	23.456	23.474	23.364	22.914	22.594	21.980	22.146	22.187	21.903
Texas	-	-	-	-	-	-	-	-	-	-	-	14.000	14.000	14.000	14.000
Utah	24.940	25.196	24.950	25.088	25.390	25.184	25.134	24.908	25.326	25.112	24.812	24.560	24.232	24.132	23.833
Vermont	27.760	27.602	27.572	27.444	27.166	27.340	27.412	27.544	27.488	27.488	24.870	24.976	25.000	26.462	25.786
Virginia	26.726	26.700	26.558	26.536	26.626	26.474	26.022	25.920	25.928	25.466	24.782	24.804	24.758	24.444	23.600
Washington	-	-	-	-	-	-	-	-	-	-	-	-	16.200	16.213	16.200
West Virginia	23.908	23.740	23.742	23.758	23.792	23.736	23.696	23.528	23.778	23.774	23.318	23.058	23.468	23.641	22.976
Wisconsin	24.208	24.270	24.404	24.188	24.120	24.036	23.822	23.702	23.776	23.408	22.446	22.366	22.692	22.842	21.925
Wyoming	14.846	15.284	15.182	15.490	16.444	15.990	15.576	15.648	15.930	16.448	16.534	16.180	16.490	16.724	16.998
U.S. Average	24.029	23.993	23.988	23.962	23.928	23.836	23.699	23.554	23.531	23.274	22.603	22.325	22.225	22.262	21.799

Sources: See source listing at the end of this appendix.

Table D13. State Energy Data System Conversion Factors, for Bituminous Coal and Lignite Consumed by Electric Utilities, 1975–1989 (Million Btu per Short Ton)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Alabama	23.163	23.136	23.170	23.632	23.754	23.912	23.998	24.041	23.972	24.059	24.111	24.349	24.445	24.328	24.045
Alaska	17.400	17.400	17.400	17.400	15.800	15.800	15.800	15.800	15.800	15.800	15.800	15.800	15.800	15.800	15.800
Arizona	21.090	21.102	21.557	21.525	21.225	21.243	21.013	21.086	21.269	21.190	20.986	21.044	21.217	21.300	21.193
Arkansas	–	–	–	16.795	16.814	17.009	16.963	17.045	17.461	17.184	17.207	17.339	17.364	17.328	17.439
California	–	–	–	–	–	–	–	–	–	22.780	–	–	–	–	–
Colorado	19.808	19.594	20.197	20.069	20.262	19.992	20.120	19.628	19.467	19.310	19.497	19.540	19.685	19.543	19.697
Connecticut	23.904	23.904	23.904	23.904	23.904	–	–	–	–	26.272	26.317	26.344	26.268	26.277	26.616
Delaware	24.534	24.936	24.177	24.502	24.731	24.922	24.963	25.217	25.592	25.973	25.924	26.000	26.131	25.802	25.887
Dist. of Col.	25.619	25.619	–	–	–	–	–	–	–	–	–	–	–	–	–
Florida	23.093	23.294	23.121	23.579	23.756	23.686	23.826	24.021	24.369	24.456	24.450	24.551	24.799	24.849	24.766
Georgia	23.751	23.767	23.711	23.747	23.765	23.805	23.909	23.992	24.129	24.251	24.241	24.291	24.350	24.345	24.199
Hawaii	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Idaho	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Illinois	20.259	20.493	20.596	20.565	20.561	20.593	20.815	20.859	20.809	21.187	20.969	21.075	21.397	21.271	21.411
Indiana	21.229	21.472	21.462	21.360	21.648	21.632	21.643	21.776	21.898	21.575	21.314	21.358	21.757	21.668	21.397
Iowa	20.385	20.255	20.002	19.721	18.895	18.633	18.288	18.275	18.289	17.945	18.197	18.372	18.304	18.422	17.879
Kansas	19.957	20.385	19.041	18.273	18.643	18.370	18.122	17.745	17.556	17.580	17.537	17.457	17.529	17.956	17.751
Kentucky	21.481	21.893	22.002	22.053	22.523	22.917	22.896	22.803	22.973	22.871	22.769	23.047	22.992	23.056	22.986
Louisiana	–	–	–	–	–	16.038	16.187	16.714	17.059	17.015	16.907	16.241	16.320	16.385	16.374
Maine	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Maryland	24.323	24.542	24.407	24.402	24.572	24.757	24.515	24.822	25.342	25.236	25.326	25.377	25.351	25.449	25.395
Massachusetts	24.347	–	–	–	27.004	26.751	26.114	26.310	26.592	26.466	26.561	26.437	26.257	26.218	26.017
Michigan	23.662	23.695	23.562	23.099	23.624	24.025	23.487	23.906	23.355	23.340	23.393	23.443	23.128	23.224	22.557
Minnesota	17.940	17.808	17.584	17.461	17.643	17.557	17.544	17.614	17.676	17.354	17.451	17.451	17.483	17.477	17.534
Mississippi	23.164	23.284	22.851	23.708	23.413	23.994	24.105	24.176	24.271	24.231	24.252	24.457	25.347	25.328	25.308
Missouri	21.494	21.688	21.775	21.490	21.473	21.306	21.183	21.398	21.423	21.414	21.289	21.377	21.195	20.808	20.735
Montana	15.959	16.676	16.984	16.911	17.056	17.003	17.087	17.011	16.693	17.023	17.307	17.100	17.180	17.040	17.018
Nebraska	20.954	20.823	21.313	20.575	19.181	18.809	18.015	17.851	17.572	17.797	17.299	17.427	17.202	17.239	17.329
Nevada	22.388	22.237	22.149	22.061	22.092	22.078	22.062	22.099	22.279	22.382	22.768	22.444	22.365	22.159	22.233
New Hampshire	26.701	26.918	26.728	26.028	26.854	26.816	26.951	27.040	27.094	27.081	26.905	26.887	26.832	26.666	26.718
New Jersey	25.401	26.119	25.974	26.120	26.098	26.182	26.226	26.402	26.443	26.425	26.475	26.458	26.472	26.647	26.638
New Mexico	17.849	17.858	17.915	18.013	17.817	17.695	18.279	18.283	18.199	18.069	18.376	18.215	18.097	18.072	18.257
New York	24.050	24.499	24.259	24.065	24.504	24.635	24.420	24.844	24.970	25.106	25.200	25.444	25.575	25.629	25.648
North Carolina	23.788	24.081	23.867	24.053	24.363	24.538	24.443	24.538	24.887	24.953	24.975	25.108	25.099	25.151	25.061
North Dakota	13.344	13.212	13.290	13.387	13.350	13.234	13.247	13.286	13.187	13.043	13.150	13.158	13.203	13.168	13.160
Ohio	21.919	22.005	21.789	21.827	22.240	22.880	22.706	23.106	23.572	23.519	23.625	23.821	23.808	23.790	23.669
Oklahoma	25.076	16.548	16.803	17.080	17.409	17.393	17.118	17.060	17.157	17.207	17.168	17.326	17.703	17.823	17.650
Oregon	–	–	–	–	20.054	16.393	16.573	16.613	16.613	16.654	16.584	–	16.967	17.057	17.057
Pennsylvania	23.769	24.183	24.149	24.202	24.277	24.326	24.195	24.411	24.663	24.631	24.640	24.670	24.707	24.651	24.669
Rhode Island	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
South Carolina	24.161	24.359	23.868	24.176	24.735	24.843	24.605	24.764	25.060	25.058	25.132	25.325	25.297	25.350	25.235
South Dakota	12.616	12.695	12.623	12.457	12.660	12.599	12.627	12.687	12.297	12.204	12.210	12.169	12.123	12.677	12.273
Tennessee	21.983	22.431	22.195	22.566	22.975	23.254	23.227	23.621	23.556	23.610	23.657	23.816	23.957	24.089	23.790
Texas	13.103	13.232	14.077	14.226	14.427	14.791	14.997	14.983	14.856	14.663	14.807	14.583	14.484	14.608	14.573
Utah	23.650	23.199	23.280	23.284	23.358	22.900	22.919	23.082	22.866	22.855	23.607	22.975	23.237	22.981	22.644
Vermont	25.744	25.744	25.709	25.709	25.926	25.926	25.096	25.628	25.628	25.628	25.628	25.628	–	–	–
Virginia	23.930	24.529	24.356	24.451	24.748	25.013	24.791	24.975	25.314	25.243	25.628	25.708	25.629	25.599	25.386
Washington	16.200	16.200	16.200	16.200	16.200	16.200	16.200	16.200	16.200	16.200	16.200	16.200	16.208	16.413	16.322
West Virginia	23.221	23.496	23.304	23.462	23.900	24.269	24.208	24.451	24.717	24.667	24.827	24.879	24.873	24.945	24.791
Wisconsin	21.236	21.344	21.119	20.901	20.844	20.523	19.760	20.087	19.876	19.908	19.547	19.323	19.260	19.386	19.410
Wyoming	16.626	17.532	17.626	17.550	17.489	17.590	17.311	17.337	17.426	17.292	17.510	17.413	17.555	17.511	17.577
U.S. Average	21.659	21.692	21.521	21.284	21.372	21.301	21.091	21.200	21.141	21.108	20.965	21.091	21.143	20.905	20.854

Sources: See source listing at the end of this appendix.

Thermal Conversion Factor Source Documentation

Petroleum and Natural Gas Plant Liquids

All Petroleum Products, Consumption by All Users. Calculated annually by Energy Information Administration (EIA) as the average of the thermal conversion factors for all petroleum products consumed, weighted by the quantity of each petroleum product consumed.

Asphalt. EIA adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Aviation Gasoline. EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets 1947–1985,* 1968.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane–Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See "Butane" and "Propane."

Crude Oil (Including Lease Condensate) Used Directly. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, *Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950.*

Distillate Fuel Oil. EIA adopted the thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, *Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950.*

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane–Propane Mixture. EIA calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See "Ethane" and "Propane."

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as published for "Jet Fuel, Commercial" by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985,* 1968.

Jet Fuel, Naphtha Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel as published for "Jet Fuel, Military" by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985,* 1968.

Kerosene. EIA adopted the thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, *Bureau of Mines Standard Average Heating Values of Various Fuels, adopted January 3, 1950.*

Liquefied Petroleum Gases. (LGTCKUS) • 1960–1966: EIA adopted the Bureau of Mines thermal conversion factor of 4.011 million Btu per barrel as published in the *Mineral Industry Surveys,* "Crude Petroleum and Petroleum Products, 1956," Table 4 footnote. • 1967 forward: Calculated annually by EIA as a weighted average by multiplying the quantity consumed of each of the component products by each product's conversion factor and dividing the sum of those heat contents by the sum of the quantities consumed. The component products are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane.

Lubricants. EIA adopted the thermal converson factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Motor Gasoline. EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel as published for "Gasoline, Motor Fuel" by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985,* 1968.

Natural Gasoline EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu per barrel, equal to that for natural gasoline. See "Natural Gasoline."

Petrochemical Feedstocks, Naphtha Less Than 401 °F. EIA assumed the thermal conversion factor to be 5.248 million Btu per barrel, equal to that for special naphtha. See "Special Naphtha."

Petrochemical Feedstock, Other Oils Equal to or Greater than 401 °F. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel, equal to that for distillate fuel oil. See "Distillate Fuel Oil."

Petrochemical Feedstock, Still Gas. Assumed by the EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See "Still Gas."

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum *Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950.* Bureau of Mines calculated this factor by dividing the 30,120,000 Btu per short ton as given in the referenced Bureau of Mines internal memorandum by 5.0 barrels per short ton as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry,* First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the Bureau of Mines internal memorandum *Bureau of Mines Standard Average Heating Values of Various Fuels, adopted January 3, 1950.*

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, equal to that of asphalt (see "Asphalt") and first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970.*

Special Naphtha. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, equal to that of total gasoline (aviation and motor) factor and first published in the *Petroleum Statement, Annual, 1970.*

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel and first published in the *Petroleum Statement, Annual, 1970.*

Unfinished Oil. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see "Distillate Fuel Oil") and first published in the *Annual Report to Congress, Volume 3, 1977.*

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel, equal to that for plant condensate (see "Plant Condensate") and first published in the *Annual Report to Congress, Volume 2, 1981.*

Wax. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Natural Gas

Natural Gas, Consumption by All Users. (NGTCKZZ) • 1960–1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic feet as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.* • 1963–1979: EIA adopted the thermal conversion factors calculated annually by the American Gas Association (AGA) and published in *Gas Facts,* an AGA annual. • 1980–1988: The average heat content for deliveries to end users are reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" and the factors are published in the EIA, *Natural Gas Annual 1988 Volume II,* Table 15. • 1989: EIA, *Natural Gas Annual 1989,* Table 17.

Natural Gas, Consumption by Electric Utilities. (NGEUKZZ) • 1960–1971: Assumed by EIA to be equal to the thermal conversion factor for the consumption of natural gas. See "Natural Gas, Consumption by All Users." • 1972 forward: Calculated annually by EIA by dividing the total heat content of natural gas received at electric utilities by the total quantity received at electric utilities. The heat contents and receipts are from Form FERC-423 and predecessor forms.

Thermal Conversion Factor Source Documentation

Natural Gas, Consumption by Non-Electric Utility Users. (NGNUKZZ) • 1960–1972: Assumed by EIA to be equal to the thermal conversion factor for the consumption of natural gas. See "Natural Gas, Consumption by All Users." • 1973 forward: Calculated annually by EIA by subtracting the heat content of all natural gas consumed less the quantity of natural gas consumed by electric utilities and dividing the resulting product by the quantity of all natural gas consumed less the quantity of electric utility consumption. Data are from Forms EIA-176, FERC-423, EIA-759, and predecessor forms.

Anthracite, Bituminous Coal and Lignite, and Coal Coke

Anthracite, Consumption by All Users. Calculated annually by EIA by dividing the sum of the heat content of anthracite consumed by electric utilities and non-electric utilities by the total quantity of anthracite consumed.

Anthracite, Consumption by Electric Utilities. (ACEUKUS) • 1960–1972: Assumed by EIA that all anthracite consumed at electric utilities was recovered from culm banks and river dredging and estimated to have an average heat content of 17.500 million Btu per short ton. • 1973 forward: Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities, as reported on Form FERC-423 and predecessor forms.

Anthracite, Consumption by Non-Electric Utility Users. (ACNUKUS) Calculated annually by EIA by dividing the heat content of anthracite production less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of non-electric utility anthracite consumption less the quantity of anthracite stock changes, losses, and unaccounted for.

Bituminous Coal and Lignite, Consumption by All Users. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite consumed by electric utilities, coal coke plants, other industrial plants, the residential and commercial sector, and the transportation sector by the sum of their respective tonnages.

Bituminous Coal and Lignite, Consumption by Coke Plants. Estimated by EIA to be 26.800 million Btu per short ton based on an input-output analysis of coal carbonization.

Bituminous Coal and Lignite, Consumption by Electric Utilities. (BCEUKZZ) • 1960–1972: EIA adopted the average thermal conversion factor of the Bureau of Mines which used the National Coal Association (NCA) average thermal conversion factor for electric utilities calculated from the Federal Power Commission's Form FPC-1 and published in *Steam Electric Plant Factors,* an NCA annual report. • 1973–1982: The average heat content of coal received at steam electric plants 25 megawatts or greater from FPC Form 423 and published in Btu per pound in EIA, *Cost and Quality of Fuels for Electric Utility Plants.* "Destination and Origin of Coal 'Delivered to' (1973-79) 'Receipts to' (1980) 'Received at' (1981-82) Steam-Electric Plants 25-MW or Greater." • 1983 forward: The average heat content of coal received at steam electric plants 50 megawatts capacity or larger from Form FERC-423 and published in Btu per pound in EIA, *Cost and Quality of Fuels for Electric Utility Plants.*

Notes: • The State conversion factors for 1960–1972 were derived from actual consumption data, while the conversion factors for 1973 to the present were based on receipts of coal. The factors for 1960–1972 may also have included some quantities of anthracite. These breaks in the series create some data discrepancies. • Alaska and Hawaii were excluded from the NCA report, Form FPC-423 and Form FERC-423. However, Alaska reported consumption of bituminous coal and lignite at electric utilities for all years. An FPC heat rate for coal at electric utilities in Alaska was used for 1960 through 1978 as published in EIA, *Federal Energy Data System (FEDS) Technical Documentation,* June 1978, Table 21. The 1972 conversion factor (the last year for which a conversion factor was reported for Alaska) was used for 1972–1978. According to industry sources, new mines were opened in 1978 and a more representative factor was used for 1979 and following years. • In instances where a State had no receipts for a particular year but did report consumption, it was assumed that the coal received in one year was consumed during the following year and the Btu value of the previous year's receipts was used.

Bituminous Coal and Lignite, Consumption by Other Industrial Users. (BCOCKZZ) • 1960–1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960–1973 national averages for the other industrial users to its 1974 average. • 1974 forward: Estimated by EIA by assuming that the bituminous coal and lignite consumed by other industrial users in each State contained heating values equal to bituminous coal and lignite received at electric utilities in each State from identified coal producing districts as reported on Form FERC-423. The average Btu content

of coal delivered from each coal producing district was applied to deliveries to other industrial users in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal producing district are reported on EIA Form 6 and predecessor Bureau of Mines Form 6-1419-Q.

Bituminous Coal and Lignite, Consumption by Residential and Commercial Users. (BCHCKZZ) • 1960–1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed in the residential and commercial sector by the ratios of 1960–1973 national averages for the sector to its 1974 average. • 1974 forward: Calculated by EIA by assuming that the bituminous coal and lignite consumed in the residential and commercial sector in each State contained heating values equal to bituminous coal and lignite received at electric utilities in each State from identified coal producing districts as reported on Form FERC-423. The average Btu content of coal delivered from each coal producing district was applied to deliveries to the residential and commercial sector in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal producing district are reported on Form EIA-6 and predecessor Bureau of Mines Form 6-1419-Q.

Bituminous Coal and Lignite, Consumption by Transportation Users. Assumed by EIA to be equal to the Btu conversion factor for "Bituminous Coal and Lignite, Consumption by Other Industrial Users."

Coal Coke, Imports and Exports EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Approximate Heat Rates for Electricity

Fossil Fuel Steam-Electric Power Plant Generation. (FFEOKUS) There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydroelectric, wood and waste, wind, photovoltaic, or solar thermal energy sources. EIA has selected a rate that is equal to the prevailing annual average heat rate factor for fossil-fueled steam-electric power plants in the United States. By using that factor, it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption such as droughts. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatthour. • 1960 through 1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published by EIA in *Electric Plant Cost and Power Production Expenses 1988,* Table 11. • 1989: Prepublished data.

Geothermal Energy Power Plant Generation. (GEEOKUS) • 1960–1981: Calculated annually by EIA by weighting the average annual heat rates of operating geothermal units by the installed nameplate capacities as reported on Form FPC-12. • 1982 forward: Estimated annually by EIA based on an informal survey of relevant plants.

Nuclear Electric Power Plant Generation. (NUEOKUS) Calculated annually by EIA by dividing the total heat content consumed in reactors at nuclear plants by the total (net) electricity generated by nuclear plants. The heat content and electricity generation are reported on Form FERC-1, Form EIA-412, and predecessor forms. The factors, beginning with 1982 data, are published in the following EIA reports: •1982: *Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982,* page 215. • 1983 through 1988: *Electric Plant Cost and Power Production Expenses 1988,* Table 15. • 1989: Prepublished data.

Appendix E

Summary of Changes Since the *State Energy Data Report, 1960–1988*

Modifications to the State Energy Data System (SEDS) that are incorporated into this edition of the *State Energy Data Report* (SEDR) are summarized in this appendix. There are no methodology changes or changes to the variable names used in the SEDS estimation calculations. All of the changes incorporated into this year's report involve improvements, corrections, or revisions to the input data.

Asphalt Sales (ASINP)

The Asphalt Institute revised the U.S. values for total asphalt sales in 1987 and 1988 but, to avoid revealing individual companies' proprietary data, did not revise the State values. At the Asphalt Institute's suggestion, the difference between the original and revised U.S. totals were apportioned to 19 States (Alabama, Delaware, Florida, Georgia, Maine, Maryland, Michigan, Montana, New Jersey, New York, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Virginia, and Vermont) according to those States' proportional sales in 1989. These revisions to asphalt sales estimates affect the industrial sector and State total energy consumption estimates for all States.

A reevaluation of the historical tables published in the Asphalt Instutute's *Asphalt Usage 1988* caused revisions to data for 1979, 1984, and 1985. In previous editions of SEDR, Asphalt Institute estimates were used for State sales of asphalt in 1979. In this edition, the Asphalt Institute estimates are replaced by U.S. Bureau of Mines' published data for 1979. Sales of asphalt in Maryland and the District of Columbia in 1984 and in Nebraska in 1985 are also revised slightly. The U.S. total asphalt industrial sector and total consumption do not revise in 1979, 1984, or 1985 since the U.S. total is the EIA product supplied data for asphalt and road oil. The estimated State portions of the U.S. total in the industrial sector and total energy consumption are affected, although the differences in some State values in 1984 and 1985 are so small that they are not apparent in the SEDR tables due to the level of rounding.

Electricity Sales

Electricity sales in 1988 to the residential (ESRCP), commercial (ESCCP), and industrial (ESICP) sectors in Missouri and Alaska are revised. Sales in Missouri increased by 20 million kilowatthours (Kwh): 9 million Kwh in the residential sector; 7 million Kwh in the commercial sector; and 4 million Kwh in the industrial sector. The sales in Alaska decreased by the same quantities in the corresponding sectors causing the U.S. totals in all sectors to remain the same. Sales data in all other States were unaffected by these revisions.

Military Use of Aviation Gasoline (AVMIP)

The U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, discontinued the Defense Energy Information System (DEIS) that is the basis of SEDS estimates of military consumption (retail issues) of aviation gasoline for 1960 through 1988. The Defense Fuel Supply Center maintains two other databases, the Defense Fuel Automated Management System (DFAMS) containing wholesale issues of aviation gasoline and the Into-Plane database of retail purchases of aviation gasoline by the military at commercial airports. Adding the quantities from the DFAMS and Into-Plane databases provides a data series that is similar enough to the DEIS data to be used as a discontinuous series to apportion the U.S. product supplied aviation gasoline values to the States.

DEIS data began in 1975 and, in previous versions of SEDS, the 1975 values were used for 1960 through 1974. After reevaluation of the 1975 data, this version of SEDS uses 1977 DEIS values for 1960 through 1976. Aviation gasoline consumption in the District of Columbia by the military is assumed to be zero, and the aviation gasoline issues reported for the District of Columbia in DEIS are added to Maryland for all years. Aviation gasoline reported for the District of Columbia in the 1989 Into-Plane database are added to Virginia.

Although the U.S. total consumption of aviation gasoline, which occurs entirely in the transportation sector, remains unchanged in all years, the

portions of aviation gasoline consumption allocated to each State are revised for all States in 1960 through 1975 and for the District of Columbia and Maryland only for 1976 through 1988.

Military Use of Naphtha-Type Jet Fuel (JNMIP)

The U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, discontinued the Defense Energy Information System (DEIS) that is the basis of SEDS estimates of military consumption (retail issues) of naphtha-type jet fuel for 1960 through 1988. The Defense Fuel Supply Center maintains another database, the Defense Fuel Automated Management System (DFAMS), of wholesale issues of naphtha-type jet fuel. An evaluation of the two databases indicates that the difference between retail and wholesale issues is not great enough to preclude their use as a discontinuous series to apportion the U.S. product supplied values to the States.

DEIS data began in 1975 and, in previous versions of SEDS, the 1975 values were used for 1960 through 1974. After reevaluation of the 1975 data, this version of SEDS uses 1977 DEIS values for 1960 through 1976. Naphtha-type jet fuel consumption in the District of Columbia is assumed to be zero and the naphtha-type jet fuel issues reported for the District of Columbia in DEIS are added to Maryland for all years. DEIS values for 1988 are replaced by simple averages of the 1987 DEIS and the 1989 DFAMS values for each State due to an apparent deterioration of the reporting universe in the 1988 DEIS data.

Although the U.S. total consumption of naphtha-type jet fuel, which occurs entirely in the transportation sector, remains unchanged in all years, the portions of naphtha-type jet fuel consumption allocated to each State are revised for all States in 1960 through 1975 and 1988 and for the District of Columbia and Maryland only for 1976 through 1987.

Natural Gas Lease and Plant Fuel (NGLPP)

Natural gas consumed as lease and plant fuel in 1988 is revised for California (an increase of 1.4 billion cubic feet or 2 percent) and West Virginia (a decrease of 0.2 billion cubic feet or 2 percent), causing a net revision to the U.S. total of 1.2 billion cubic feet. These revisions directly affect the California, West Virginia, and U.S. values for natural gas industrial sector and total consumption without affecting any other State data. The revisions can be seen in the California and U.S. tables in SEDR. Due to the level of rounding in the published tables, the West Virginia revisions in billion cubic feet are only apparent to the users of the SEDS PC diskettes.

Value Added by Manufacture (PIVAV, OCVAV, and CGVAV) Used to Estimate Other Petroleum Products

The U.S. Department of Commerce, Bureau of the Census, published the *1987 Census of Manufactures* Industry Series by State. Three data series from these State-level publications are used in SEDS to estimate State consumption of several petroleum products combined in the "Other" petroleum products column in SEDR tables. The value added by the manufacture of coated and glazed paper (CGVAV) is used to apportion the U.S. total consumption of waxes to the States. The value added by the manufacture of paints and allied products (PIVAV) is used to estimate State consumption of special naphthas. Petroleum products used primarily by the chemical industry including petrochemical feedstocks (naphthas and other oils), pentanes plus, and miscellaneous petroleum products are apportioned to the States based on each State's valued added by the manufacture of industrial organic chemicals (OCVAV).

In this update of SEDS, the 1987 Census data are used to replace the 1982 Census data in the calculations of State-level other petroleum products consumption for 1986 through 1988. Although the U.S. total consumption of each of the other petroleum products, which occur entirely in the industrial sector, are not changed, each State's estimated portion of the U.S. consumption has shifted causing the industrial sector and total consumption of other petroleum products for all States to be revised significantly.

Glossary

Anthracite: A hard, black, lustrous coal containing a high percentage of fixed carbon and a low percentage of volatile matter. Often referred to as hard coal. It conforms to ASTM Specification D388–84 for anthracite, meta-anthracite, and semianthracite.

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that are used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, and reformate). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL–G–5572. Excludes blending components that will be used in blending or compounding into finished aviation gasoline.

Barrel (petroleum): A unit of volume equivalent to 42 U.S. gallons.

Barrels per Calendar Day (operable refinery capacity): The maximum number of barrels of input that can be processed during a 24-hour period after making allowances for the following limitation: the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation: the types and grades of inputs to be processed; the types and grades of products expected to be manufactured; the environmental constraints associated with refinery operations; the reduction of capacity for scheduled downtime, such as routine inspection, mechanical problems, maintenance, repairs, and turnaround; and the reduction of capacity for unscheduled downtime such as mechanical problems, repairs, and slowdowns.

Barrels per Stream Day (operable refinery capacity): The maximum number of barrels of input that can be processed in an atmospheric distillation facility running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Bituminous Coal: A dense, black coal, often with well-defined bands of bright and dull material, with a moisture content usually less than 20 percent. Often referred to as soft coal. It is the most common coal and is used primarily for generating electricity, making coke, and space heating. It conforms to ASTM Specification D388–84 for bituminous coal. In this report, bituminous coal includes subbituminous coal.

British Thermal Unit (Btu): The quantity of heat needed to raise the temperature of 1 pound of water by 1 °F at or near 39.2 °F.

Butane: A normally gaseous straight-chain or branched-chain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.
Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 °F. It is extracted from natural gas or refinery gas streams.
Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1 °F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C_4H_8) recovered from refinery processes.

Catalytic Cracking: The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Coal: A black or brownish-black solid, combustible substance formed by the partial decomposition of vegetable matter without access to air. The rank of coal, which includes anthracite, bituminous coal, subbituminous coal, and

lignite, is based on fixed carbon, volatile matter, and heating value. Coal rank indicates the progressive alteration, or coalification, from lignite to anthracite. Lignite contains approximately 9 to 17 million Btu per ton. The heat contents of subbituminous and bituminous coal range from 16 to 24 million Btu per ton, and from 19 to 30 million Btu per ton, respectively. Anthracite contains approximately 22 to 28 million Btu per ton.

Coal Coke: A hard, porous product made from baking bituminous coal in ovens at temperatures as high as 2,000 °F. It is used both as a fuel and as a reducing agent in smelting iron ore in a blast furnace.

Coke Plants: Plants where coal is carbonized in slot or beehive ovens for the manufacture of coke.

Commercial Sector: The commercial sector, as defined economically, consists of business establishments that are not engaged in transportation or in manufacturing or other types of industrial activity (agriculture, mining, or construction). Commercial establishments include hotels, motels, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises; religious and nonprofit organizations; health, social, and educational institutions; and Federal, State, and local governments. Street lights, pumps, bridges, and public services are also included if the establishment operating them is considered commercial. SIC codes used to classify an establishment as commercial are 50 through 87, 89, and 90 through 97.

Conversion Factor: A number that translates units of one system into corresponding values of another system. Conversion factors can be used to translate physical units of measure for various fuels into Btu equivalents.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Cubic Foot (natural gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60 °F.

Diesel Fuel: Fuel used for internal combustion in diesel engines; usually that fraction of crude oil that distills after kerosene. **(See Distillate Fuel Oil.)**

Distillate Fuel Oil: A general classification for one of the petroleum fractions produced in conventional distillation operations. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels. It is used primarily for space heating, on- and off-highway diesel engine fuel (including 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 plant and unaccounted-for uses.

Electricity Production: Net electricity (gross electricity output measured at generator terminals minus power plant use) generated by publicly and privately owned electric utilities. Excludes industrial electricity generation (except autogeneration of hydroelectric power).

Electricity Sales: The amount of kilowatthours sold in a given period of time, usually grouped by classes of service such as residential, commercial, industrial, and other. Other sales include public street and highway lighting, other sales to public authorities and railways, and interdepartmental sales.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Utilities: All privately owned companies and all publicly owned agencies engaged in the generation, transmission, or distribution of electric power for public use. Publicly owned agencies include municipal electric utilities; Federal power projects, such as the Tennessee Valley Authority (TVA); rural electrification cooperatives; power districts; and State power projects.

Electric Utility Sector: Privately and publicly owned establishments that generate electricity primarily for use by the public.

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

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power, or as an input in the manufacturing process.

Energy Consumption, End-Use: The sum of fossil fuel consumption by the four end-use sectors (residential, commercial, industrial, and transportation) plus electric utility sales to those sectors and generation of hydroelectric power by non-electric utilities. **Net** end-use energy consumption excludes electrical system energy losses. **Total** end-use energy consumption includes electrical system energy losses.

Energy Consumption, Total: The sum of fossil fuel consumption by the five sectors (residential, commercial, industrial, transportation, and electric utility) plus hydroelectric power, nuclear electric power, net imports of coal coke, and electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

Ethane: A normally gaseous straight-chain hydrocarbon (C_2H_6). It is a colorless, paraffinic gas that boils at a temperature of -127.48 °F. It is extracted from natural gas and refinery gas streams.

Ethylene: An olefinic hydrocarbon (C_2H_4) recovered from refinery processes or petrochemical processes.

Exports: Shipments of goods from the 50 States and the District of Columbia to foreign countries and to Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

Fossil Fuel: Any naturally occurring organic fuel, such as petroleum, coal, and natural gas.

Fossil Fuel Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Gasohol: A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) limited to 10 percent by volume of alcohol. Gasohol is included in finished leaded and unleaded motor gasoline.

Gas-Turbine Electric Power Plant: A plant in which the prime mover is a gas turbine. A gas turbine typically consists of an axial-flow air compressor, one or more combustion chambers where liquid or gaseous fuel is burned and the hot gases expand to drive the generator and then are used to run the compressor.

Geothermal Energy (as used at electric utilities): Hot water or steam, extracted from geothermal reservoirs in the Earth's crust, which is supplied to steam turbines at electric utilities that drive generators to produce electricity.

Heavy Oil: The fuel oils remaining after the lighter oils have been distilled off during the refining process. Except for start-up and flame stabilization, virtually all petroleum used in steam-electric power plants is heavy oil.

Glossary

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Imports: Receipts of goods into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Industrial Sector: The industrial sector comprises manufacturing industries—which make up the largest part of the sector—along with mining, construction, agriculture, fisheries, and forestry. Establishments in the sector range from steel mills, to small farms, to companies assembling electronic components. The SIC codes used to classify establishments as industrial are 1 through 39.

Internal Combustion Electric Power Plant: A power plant in which the prime mover is an internal combustion engine. Diesel or gas-fired engines are the principal types used in electric power plants. The plant is usually operated during periods of high demand for electricity.

Isopentane: A saturated branch-chain hydrocarbon (C_5H_{12}) obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: The term includes kerosene-type jet fuel and naphtha-type jet fuel. Kerosene-type jet fuel is a kerosene-quality product used primarily for commercial turbojet and turboprop aircraft engines. Naphtha-type jet fuel is a fuel in the heavy naphthas range used primarily for military turbojet and turboprop aircraft engines.

Kerosene: A petroleum distillate that has a maximum distillation temperature of 401 °F at the 10-percent recovery point, a final boiling point of 572 °F, and a minimum flash point of 100 °F. Included are the two grades designated in ASTM D3699 (No. 1-K and No. 2-K) and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors), and as fuel in natural gas processing plants.

Lease Condensate: A natural gas liquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Light Oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

Lignite: A brownish-black coal of low rank with a high content of moisture and volatile matter. Often referred to as brown coal. It is used almost exclusively for electric power generation. It conforms to ASTM Specification D388-84 for lignite.

Liquefied Petroleum Gases (LPG): Ethane, ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate new natural gas plant liquids.

Lubricants: Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Does not include byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Reporting categories include paraffinic and naphthenic.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere—for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline: A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, obtained by blending appropriate refinery streams to form a fuel suitable for use in spark-ignition engines. Motor gasoline includes both leaded and unleaded grades of finished motor gasoline, blending components, and gasohol.

Motor Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished motor gasoline (e.g., straight-run gasoline, alkylate, and reformate). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Natural Gas: A mixture of hydrocarbons (principally methane) and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural gasoline: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas that meets specifications for natural gasoline set by the Gas Processors Association. Includes isopentane.

Net Interstate Flow of Electricity: The difference between the sum of electricity sales and losses within a State and the total amount of electricity generated within that State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

Nuclear Electric Power: Electricity generated by an electric power plant whose turbines are driven by steam generated in a reactor by heat from the fissioning of nuclear fuel.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are naphthas less than 401 °F endpoint and other oils equal to or greater than 401 °F endpoint.

Petroleum: A generic term applied to oil and oil products in all forms, such as crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and nonhydrocarbon compounds blended into finished petroleum products.

Petroleum Coke: A residue, the final product of the condensation process in cracking. The product is either marketable petroleum coke or catalyst petroleum coke.

Petroleum Coke, Catalyst: The carbonaceous residue that is deposited on and deactivates the catalyst used in many catalytic operations (e.g., catalytic cracking). Carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. That carbon or coke is not recoverable in a concentrated form.

Petroleum Coke, Marketable: Those grades of coke produced in delayed or fluid cokers that may be recovered as relatively pure carbon. That "green" coke may be sold as is or further purified by calcining.

Petroleum Consumption: The sum of all refined petroleum products supplied. For each refined petroleum product, the amount supplied is calculated by adding production and imports, then subtracting changes in primary stocks (net withdrawals are a plus quantity and net additions are a minus quantity) and exports.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Products Supplied: See **Petroleum Consumption.**

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

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Glossary

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67 °F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD–5 propane.

Propylene: An olefinic hydrocarbon (C_3H_6) recovered from refinery or petrochemical processes.

Refinery (petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

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

Residential Sector: The residential sector is considered to consist of all private residences whether occupied or vacant, owned or rented, including single-family homes, multifamily housing units, and mobile homes. Secondary homes, such as summer homes, are also included. Institutional housing such as school dormitories, hospitals, and military barracks generally are not included in the residential sector; they are included in the commercial sector. The SIC code used to classify an establishment as residential is 88 (Household).

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

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

SIC: See **Standard Industrial Classification.**

Solar Energy: The radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity.

Special Naphthas: All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Standard Industrial Classification (SIC): A set of codes developed by the Office of Management and Budget which categorizes businesses into groups with similar economic activities.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (refinery gas): Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock.

Subbituminous Coal: A dull, black coal of rank intermediate between lignite and bituminous coal. It conforms to ASTM Specification D388–84 for subbituminous coal. In this report, subbituminous coal is included in bituminous coal data.

Supplemental Gaseous Fuels: Any gaseous substance that, introduced into or commingled with natural gas, increases the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, or air or inert gases added for Btu stabilization.

Transportation Sector: The transportation sector comprises establishments that transport goods or people via railways, buses, trucks, ships, barges, and

aircraft. The SIC codes used to classify establishments as belonging to the transportation sector are 40 through 49.

Unfinished Oils: All oils requiring further refinery processing, except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

United States: In this report, "United States" means the 50 States and the District of Columbia.

Value Added by Manufacture: A measure of manufacturing activity that is derived by subtracting the cost of materials (which covers materials, supplies, containers, fuel, purchased electricity, and contract work) from the value of shipments. This difference is then adjusted by the net change in finished goods and work-in-process between the beginning and end-of-year inventories.

Waxes: Solid or semisolid materials derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

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

Wood and Waste (as used at electric utilities): Wood energy, garbage, bagasse, sewerage gas, and other industrial, agricultural, and urban refuse used to generate electricity for distribution.

Wood Energy: Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.

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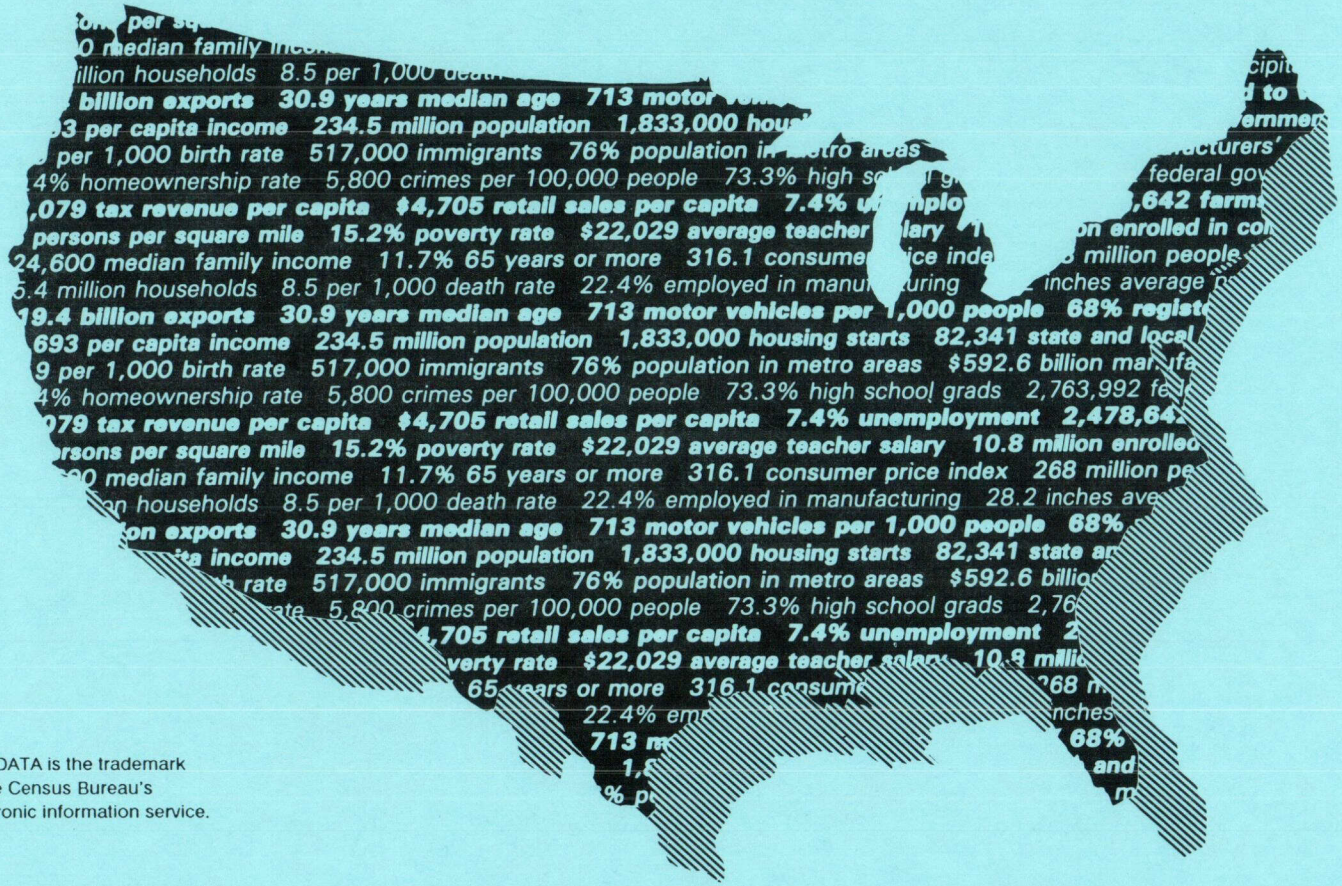

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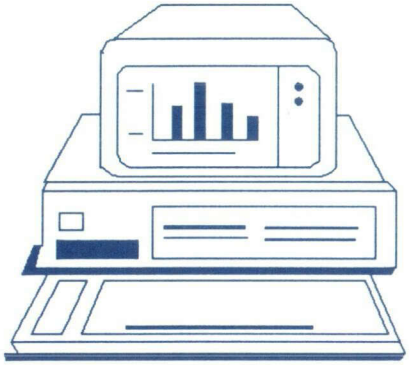

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