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Consumption Estimates

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State Energy Data Report 1994

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State Energy Data Report 1994
Consumption Estimates

The State Energy Data Report 1994 presents estimates of annual energy consumption at the State and national levels by major economic sector and by principal energy type for 1960, 1965, and 1970 through 1994. Included in the report are documentation describing how the estimates were made for each energy source, the sources of all input data, and a summary of changes from the State Energy Data Report published in July 1995.

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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Consumption Estimates

October 1996

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Office of Energy Markets and End Use
U.S. Department of Energy
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Introduction

Purpose

The *State Energy Data Report* (*SEDR*) provides annual time series estimates of State-level energy consumption by major economic sector. The estimates are developed in the State Energy Data System (SEDS), which is maintained and operated by the Energy Information Administration (EIA). The goal in maintaining SEDS is to create historical time series of energy consumption by State that are defined as consistently as possible over time and across sectors. SEDS exists for two principal reasons: (1) to provide State energy consumption estimates to Members of Congress, Federal and State agencies, and the general public; and (2) to provide the historical series necessary for EIA's energy models.

System and Report

During the development of the State Energy Data System, efforts are made to ensure that the sums of the State data equal the national totals as closely as possible for each energy type and end-use sector as published in other EIA publications. Estimates in this *State Energy Data Report* (*SEDR*) are generally comparable to the statistics shown in the *Annual Energy Review 1995* and the *Monthly Energy Review*, March 1996.

Due to page-size constraints, *SEDR* tables do not show data from 1961 through 1964 and 1966 through 1969; however, those data are maintained in SEDS, are included on the personal computer diskettes, and are covered by the documentation in this report.

Extensive documentation follows the data tables in this report. Appendix A describes how the estimates were derived in SEDS by each individual energy source. Appendix B lists alphabetically all 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 cites the sources for those factors. Appendix E provides metric and other physical conversion factors for measures used in energy analyses. Appendix F contains carbon dioxide emission factors. Appendix G summarizes the changes made in SEDS since the last report, which was released in July 1995. Appendix H lists other EIA reports containing State-level data.

Improvements

Renewable Energy. The coverage of renewable energy data is significantly expanded in this edition of SEDS and *SEDR*. In previous editions, renewable energy was fully covered in only the electric utility sector. This year, estimates of renewable energy used in the other sectors are incorporated beginning with 1990. This change adds about three quadrillion Btu to the total amount of energy consumed annually in the United States. While this change gives a more comprehensive total of U.S. energy usage, it does cause a notable break in the time series between 1989 and 1990.

Specifically, the residential sector now includes biofuels (i.e., wood) and solar energy estimates. The industrial sector is expanded to report biofuels and other energy sources (which comprise geothermal, wind, photovoltaic, and solar energy—all separately available in the data system) and incorporates augmented hydroelectric power data. The transportation sector now displays estimates of ethanol consumption.

Electric utilities' coverage remains the same but biofuels are now separately displayed on the *SEDR* tables. Within SEDS, beginning with the 1990 data, conventional power generation and pumped storage generation from hydroelectric resources are available separately, and traded electricity, previously assumed to be exclusively hydroelectric, is now classified as hydroelectric-based, geothermal-based, or nonrenewable-based. Also within SEDS from 1982 forward, data on electricity generation from wood, waste, solar, and wind energy sources are available separately.

Vehicle Fuel. Natural gas consumed as vehicle fuel has been removed from the commercial sector, where it was traditionally reported and has been added to the transportation sector consumption for 1990 forward.

Appendix G. Detailed information about all data revisions in this edition of *SEDR* is contained in Appendix G. All data values that have been revised since the last edition are preceded with an "R" in the report tables.

Energy Consumption Measures—Total and Site

Sources of energy can be categorized as primary and secondary. Primary sources of energy, such as coal, petroleum, and natural gas are consumed directly. Electricity is a secondary form of energy that is created from primary energy sources. The amount of electricity actually consumed by the end user (site consumption) does not include the energy lost in the generation and delivery of the electricity to the point of use.

Primary sources of energy are measured in applicable physical units. Coal is measured by the short ton (equal to 2,000 pounds); petroleum, by the barrel (equivalent to 42 gallons); and natural gas, by the cubic foot. Energy sources are also measured by their heat content, generally expressed in British thermal units (Btu). As shown in the tables in Appendix D, in 1994 the average short ton of bituminous coal and lignite consumed at electric utilities contained 20.7 million Btu, the average barrel of distillate fuel contained 5.825 million Btu, and the average cubic foot of natural gas consumed at electric utilities contained 1,023 Btu.

Electricity, a secondary form of energy, can also be measured in physical units, commonly in kilowatthours, and by heat content. The conventional thermal conversion factor for electricity consumed by the end user (site consumption) is 3,412 Btu per kilowatthour.

Table A9 on page 401 shows that electric utilities consumed 30.4 quadrillion Btu of primary energy sources in 1994 in order to generate 9.9 quadrillion Btu of electricity. These data indicate that 67 percent of the primary (embodied) energy in the fuels consumed to generate the electricity was used or lost in the conversion to electricity and transmission of it to the consumers, and 33 percent was used as site (point-of-use) electricity by consumers.

In evaluating energy consumption in this report, tables titled "Total Energy Consumption" include all primary energy sources, including those used to generate electricity; the electricity generated is not included. Tables showing "Total End-Use Sector Consumption" include columns for the primary sources and electricity that are consumed by the sector, as well as a column for the estimated energy lost in the electrical system processes. The "Total" column in those tables includes all energy consumed by the sector and the associated energy lost in the generation and transmission of electricity. The column titled "Net" is site energy consumption—that is, the sum of the primary sources and electricity, excluding the electrical system energy losses.

Data

Estimation Methodologies. SEDS develops estimates of energy consumption by principal energy sources and major end-use sectors, by State, for a 35-year period. Energy consumption is estimated by using data from existing surveys of energy suppliers that report consumption, sales, or distribution of energy at the State level. Most of the SEDS estimates rely directly on collected State-level consumption data. (See box below that summarizes the status of current data sources used.) Some consumption estimates in SEDS are based on a variety of surrogate measures. The measures were selected principally on the basis of applicability as an indicator of consumption,

Collected Data and Estimated Values in SEDS

Coal. U.S. anthracite, bituminous coal and lignite, and total coal consumption data by sector are taken 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 disaggregation 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. Data on electric utility coal consumption by State and coal type are data from the Form EIA-759, 'Monthly Power Plant Report," database.

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

Renewable Energy. • Residential and commercial sector consumption of biofuels and solar energy are estimated. • Industrial consumption of biofuels is also estimated. Industrial consumption of hydroelectric power is data collected by the Federal Power Commission for 1960 through 1978, SEDS' estimates for 1979 through 1989, and data collected by EIA on Form EIA-867, "Annual Nonutility Power Producer Report," for nonutility power production for 1990 forward. Industrial consumption of geothermal, wind, solar thermal, and photovoltaic energy is collected on the Form EIA-867. • State-level transportation use of biofuels is estimated, although the U.S. data are collected on several forms and reported in the *Renewable Energy Annual*. • All sources of renewable energy used for electricity generation at electric utilities (i.e., biofuels, hydroelectric power, geothermal, wind, solar thermal, and photovoltaic energy) by State are from EIA's *Electric Power Annual (EPA)* or are unpublished data from the Form EIA-759 database.

Nuclear Electric Power. Nuclear electricity generation by State is from the *EPA*.

Electricity. Electricity consumption is sales data by sector and State from the *EPA* with one exception. The *EPA* "Other" category is allocated to the transportation and commercial sectors in each State by estimation.

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

availability, continuity over time, and consistency. For instance, 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. State-level sales survey data are used to disaggregate the national petroleum product supplied totals to the States. The measures of consumption and estimation methodologies are explained in detail under each energy source in Appendix A.

Methods are also created to estimate State electrical system energy losses that are not available from any surveys. See the box on page 2 for a discussion of electrical system energy losses and how they are reflected in *SEDR* tables. U.S. total electrical system energy losses are allocated to each individual State's end-use sectors in proportion to the sectors' electricity sales. The method for estimating does not separately identify electrical system energy losses from interstate flow of electricity. Therefore, specific estimates are developed for Alaska and Hawaii and for the 48 contiguous States. 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. The explanation and Tables A10 through A18 in the Electricity section of Appendix A (pages 401–409) discuss and illustrate the alternative methodology.

Data Sources. The original source documents cited 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 those reports, it is not possible to develop a meaningful numerical estimate of the overall errors of the integrated data published here.

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 the data that are due to changing and inadequate data sources.

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 petroleum consumption series, most notably for distillate fuel, residual fuel, kerosene, and liquefied petroleum gases. These and other data series' inconsistencies are explained in detail under the "Additional Notes" for each energy source in Appendix A. All data series with recognized data inconsistencies are footnoted in the SEDR tables.

Comparison with Other Energy Consumption Reports

EIA conducts numerous energy-related surveys. In general, the surveys can be divided into two broad groups. One group of surveys, called supply surveys, is directed to the suppliers and marketers of specific energy sources. Those surveys measure the quantities of specific fuels supplied to the market. The results of supply surveys are combined and published in a number of EIA publications, including the *Monthly Energy Review* and *SEDR*. The second group of surveys, called energy consumption surveys, gathers information directly from end users of energy. Although there are some elements in common, the supply survey data and the consumption survey data have substantially different approaches, capabilities, and objectives. Thus, care must be taken in analyzing *SEDR* data in conjunction with consumption survey data, for the following reasons:

- *SEDR* is designed to be a broad accounting of energy consumption, covering all energy use and splitting it into major sectors as clearly as possible. The energy consumption surveys are designed to be comprehensive and representative within individual sectors. However, the sectors are restricted for purposes of creating relatively homogeneous, well-defined populations and aiding in sampling and data collection. 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 Consumpion Survey covers only manufacturing establishments, while SEDS includes other industrial energy consumption (i.e., mining, construction, agriculture, fisheries, and forestry). Further, the consumption surveys do not cover all energy-using sectors. Therefore, energy consumption surveys cannot be summed together to account for all energy use.

- Energy consumption surveys provide user characteristics that allow for both macro-level (for major sectoral sub-populations) and micro-level (at the unit of data collection) interpretive analysis. 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) provide detailed information about the energy 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 of energy but much greater geographic and energy product detail, as well as extensive annual historical time series.

- Sectoral classification in SEDS is generally based on supplier classifications of customer accounts, by whatever means suppliers choose to use. (See discussion in next section.) Sectoral classification for the energy consumption surveys is based upon a categorization, verified by end user, of the primary economic activity of the data collection unit (household, vehicle, building, or establishment).

- The energy consumption surveys provide data 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 1994, while the consumption surveys are for selected years, and the residential end-use surveys taken prior to 1987 cover a heating season year (i.e., April through March). Beginning with the 1987 residential end-use survey, the reference period is a calendar year.

For a more detailed description of the differences between SEDS and the energy consumption 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.

Energy Consuming Sectors

The consumption estimates in SEDS are based on data collected by various surveys that do not necessarily define the consuming sectors exactly the same way. Appendix A of this report describes in detail for each energy source how the collected data series are combined and assigned to SEDS consuming sectors. To the degree possible, energy consumption in this report has been assigned to the five sectors according to the following general definitions:

- **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.

- **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.

- **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 this sector range from steel mills, to small farms, to companies assembling electronic components.

- **Transportation Sector:** The transportation sector consists of private and public vehicles that move people and commodities. Included are automobiles, trucks, buses, motorcycles, railroads and railways (including streetcars), aircraft, ships, barges, and natural gas pipelines.

- **Electric Utility Sector:** The electric utility sector consists of privately and publicly owned establishments that generate, transmit, distribute, or sell electricity primarily for use by the public and that meet the definition of an electric utility. Nonutility power producers are not included in the electric utility sector.

Sector Definition Discrepancies. Although the end-use allocations are made according to these aggregations as closely as possible, some data are collected by using different classifications. For example, electric utilities may classify commercial and industrial users by the quantity of electricity purchased rather than by the business activity of the purchaser. Agricultural use of natural gas is collected and reported in the commercial sector, rather than in the industrial sector. Because 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.

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.

1994 Summaries

Table 1. Energy Consumption Estimates by Source and End-Use Sector, 1994
(Trillion Btu)

State	Total Energy [b]	Sources								End-Use Sectors [a]			
		Coal	Natural Gas [c]	Petroleum	Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [f]	Net Interstate Flow of Electricity/Losses [g]	Residential	Commercial	Industrial [b]	Transportation
Alabama	1,882.4	770.6	297.5	563.1	218.6	117.4	170.0	0.1	-253.9	318.1	166.4	957.2	440.7
Alaska	633.3	12.6	403.6	200.2	0.0	13.8	3.1	(s)	0.0	46.9	60.0	375.7	150.7
Arizona	1,033.3	402.3	137.1	386.1	247.4	78.8	20.4	3.4	-241.6	237.3	219.2	206.4	370.3
Arkansas	956.5	221.9	249.8	308.8	148.6	35.6	71.4	1.1	-80.8	177.0	110.2	408.7	260.6
California	7,554.8	58.0	2,172.1	3,265.8	360.3	257.4	202.5	400.4	825.4	1,353.5	1,174.0	2,268.9	2,758.4
Colorado	1,049.0	349.1	277.1	383.8	0.0	17.0	11.2	0.2	12.0	229.6	221.8	283.7	313.8
Connecticut	796.9	22.5	123.6	381.5	215.2	11.3	43.5	0.1	-4.7	246.2	183.3	159.6	207.8
Delaware	265.4	57.5	50.4	137.0	0.0	0.0	9.7	(s)	10.8	53.7	38.1	109.8	63.9
Dist. of Col.	176.0	1.2	31.2	37.7	0.0	0.0	1.7	(s)	104.2	35.5	110.0	3.5	26.9
Florida	3,382.1	641.7	392.5	1,686.1	284.9	2.8	82.1	26.3	265.8	919.6	719.6	554.2	1,188.6
Georgia	2,377.6	691.9	351.6	916.8	308.8	50.5	116.0	0.1	-58.0	487.1	352.7	775.8	762.1
Hawaii	259.6	1.8	2.9	237.2	0.0	1.5	10.9	5.2	0.0	23.4	25.4	75.2	135.5
Idaho	441.2	9.7	59.1	137.6	0.0	82.6	19.3	(s)	132.3	84.9	77.3	173.6	105.4
Illinois	3,694.7	818.9	1,046.4	1,228.3	775.7	1.3	49.8	0.1	-212.3	898.3	682.4	1,322.0	792.0
Indiana	2,523.6	1,299.0	526.1	878.4	0.0	4.2	19.1	(s)	-198.6	460.7	284.7	1,169.0	609.2
Iowa	1,030.0	346.9	250.3	371.4	43.9	11.0	13.1	(s)	-1.9	222.0	146.1	409.8	252.0
Kansas	1,071.6	300.0	417.2	359.8	91.1	0.1	6.6	(s)	-102.8	190.8	167.1	461.9	251.7
Kentucky	1,704.6	897.5	221.3	608.7	0.0	41.2	24.5	(s)	-87.9	300.5	187.9	802.1	414.2
Louisiana	3,817.0	230.8	1,688.7	1,554.2	136.4	10.1	113.0	0.1	84.5	303.9	216.5	2,515.3	781.2
Maine	546.9	11.6	5.1	249.2	70.8	58.4	147.8	0.1	-6.1	85.6	53.4	299.9	108.0
Maryland	1,283.0	268.9	189.4	526.0	119.9	20.6	32.2	(s)	125.9	356.1	214.3	366.6	346.0
Massachusetts	1,487.5	100.7	346.1	712.8	41.2	28.5	76.3	0.2	165.3	433.7	351.9	304.9	397.0
Michigan	3,085.5	794.0	945.5	973.2	151.0	52.4	112.1	0.2	33.8	734.9	538.5	1,060.8	751.2
Minnesota	1,553.1	332.1	327.4	594.3	130.5	59.9	83.9	0.7	9.5	339.9	199.2	590.8	423.2
Mississippi	1,062.6	97.3	277.9	416.4	102.6	0.0	72.8	(s)	95.7	187.0	105.9	432.7	337.1
Missouri	1,611.1	542.3	269.2	681.3	106.8	18.9	18.0	0.1	-23.3	413.7	307.8	361.3	528.2
Montana	368.8	189.3	53.3	159.4	0.0	84.5	7.6	(s)	-125.7	61.6	53.4	156.2	97.6
Nebraska	558.7	160.3	124.8	215.7	67.7	13.5	5.7	(s)	-27.6	130.1	116.8	154.1	157.7
Nevada	514.4	180.1	105.4	191.1	0.0	19.3	3.1	34.3	-19.0	100.4	80.0	178.8	155.2
New Hampshire	285.5	33.5	20.0	149.4	66.2	21.8	33.8	(s)	-43.7	76.5	53.3	77.4	78.3
New Jersey	2,546.6	52.4	607.7	1,259.1	236.3	-1.6	44.1	0.4	348.5	552.5	497.6	648.3	848.2
New Mexico	590.4	278.3	221.4	228.3	0.0	2.2	5.1	0.5	-145.1	80.5	96.3	198.0	215.6
New York	3,867.4	297.3	1,040.8	1,513.8	312.1	356.5	142.5	0.3	159.4	1,054.4	1,051.2	874.4	887.4
North Carolina	2,214.2	578.8	194.6	795.9	345.3	78.0	90.1	0.1	132.0	508.2	371.8	747.9	586.2
North Dakota	344.0	402.4	45.3	120.9	0.0	24.2	2.1	(s)	-252.8	54.5	40.0	175.2	74.4
Ohio	3,954.1	1,377.1	874.5	1,191.2	116.9	2.0	97.3	(s)	309.4	867.0	601.4	1,634.5	851.2
Oklahoma	1,381.6	307.0	588.1	478.9	0.0	25.3	23.6	0.1	-41.5	251.8	179.9	567.9	381.9
Oregon	1,038.2	44.6	152.3	362.6	0.0	345.5	69.9	0.4	46.9	220.7	169.7	349.9	297.9
Pennsylvania	3,830.7	1,357.8	723.3	1,348.3	717.5	19.6	114.4	0.4	-449.0	897.4	572.4	1,464.8	896.2
Rhode Island	248.1	0.1	73.3	101.7	0.0	3.6	4.8	(s)	62.4	69.1	50.2	72.4	56.5
South Carolina	1,359.6	330.7	149.0	428.3	474.7	24.8	74.9	(s)	-123.0	257.5	174.7	604.6	322.8
South Dakota	231.1	39.2	31.3	113.9	0.0	54.9	4.1	(s)	-12.3	54.8	36.9	59.9	79.5
Tennessee	1,953.2	622.9	254.0	654.9	127.4	117.6	65.9	0.1	112.6	432.4	126.4	886.6	507.8
Texas	10,387.6	1,382.8	3,802.0	4,811.1	306.9	15.7	54.1	0.4	25.5	1,195.8	1,027.7	5,929.2	2,234.9
Utah	594.8	376.5	146.3	216.6	0.0	7.7	4.7	4.1	-161.1	110.2	99.8	215.1	169.6
Vermont	152.6	0.1	7.3	78.9	46.1	20.4	12.5	(s)	-15.6	44.0	25.8	34.2	48.6
Virginia	1,996.0	326.5	239.3	770.5	271.5	4.2	59.4	0.1	325.2	471.7	411.4	520.6	592.3
Washington	2,082.6	106.9	221.5	817.5	72.0	657.2	128.9	0.3	90.7	397.2	297.6	781.8	606.1
West Virginia	817.1	870.3	154.7	271.6	0.0	11.9	10.4	(s)	-501.6	141.2	90.3	407.7	177.9
Wisconsin	1,713.4	426.0	359.9	531.1	122.9	30.2	196.3	0.2	43.0	372.6	251.4	703.6	385.8
Wyoming	410.3	489.5	112.3	127.9	0.0	9.2	3.0	(s)	-331.1	36.3	41.4	245.9	86.7
United States	88,788.6	19,511.1	21,361.8	34,733.9	6,837.3	2,923.3	2,852.2	480.9	0.0	17,623.2	13,431.2	34,161.9	23,572.2

[a] End-use sector data include electricity sales and associated electrical system energy losses.
[b] U.S. total energy and U.S. industrial sector include 23.6 trillion Btu of net imports of coal coke that has not been allocated to the States. State and U.S. totals include 149.3 trillion Btu of net imports of electricity generated from nonrenewable energy sources not shown in "Sources" columns.
[c] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.
[d] Includes net imports of hydroelectricity. A negative number in this column results from pumped storage for which, overall, more electricity is expended than created to provide electricity during peak demand periods.
[e] Ethanol blended into motor gasoline is accounted for in the petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the total energy.
[f] "Other" is electricity generated from geothermal, wind, photovoltaic, and solar thermal energy. It includes net imports of electricity generated from geothermal energy.
[g] 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.
(s)=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 2. Energy Consumption Estimates in Physical Units, 1994

State	Coal	Natural Gas [a]	Petroleum											Nuclear Electric Power
			Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG	Lubricants	Motor Gasoline	Residual Fuel	Other [b]	Total	
	Million Short Tons	Billion Cubic Feet	Million Barrels											Billion Kilowatthours
Alabama	31.5	288.9	5.1	0.1	25.4	3.5	0.1	5.1	1.0	53.2	3.4	6.3	103.2	20.5
Alaska	0.8	403.2	0.1	0.2	8.0	16.1	(s)	0.3	0.1	6.5	0.7	3.4	35.4	0.0
Arizona	19.6	133.5	2.6	0.1	13.1	7.4	(s)	1.9	0.6	45.2	0.2	0.1	71.3	23.2
Arkansas	12.6	244.4	1.1	0.2	17.2	1.6	(s)	3.4	0.7	30.9	0.3	1.9	57.2	13.9
California	2.5	2,123.3	12.2	0.8	64.9	98.8	0.1	18.1	4.9	307.8	42.5	44.4	594.5	33.8
Colorado	17.5	275.8	4.2	0.1	13.3	7.9	(s)	3.4	0.6	39.4	(s)	1.6	70.6	0.0
Connecticut	0.9	120.0	1.7	(s)	20.3	2.5	0.3	1.5	0.5	32.7	7.6	1.6	68.6	20.2
Delaware	2.2	48.6	0.2	0.1	3.6	0.6	0.3	1.3	0.1	8.3	5.7	4.4	24.4	0.0
Dist. of Col.	(s)	30.8	(s)	(s)	1.9	0.0	(s)	(s)	0.1	4.1	0.7	0.0	6.8	0.0
Florida	26.1	367.6	7.3	0.5	33.7	28.6	0.2	7.4	1.4	152.4	67.1	3.3	302.0	26.7
Georgia	29.3	341.4	5.3	0.2	31.5	16.9	0.2	7.5	1.2	93.5	4.8	8.2	169.3	28.9
Hawaii	0.1	2.8	0.4	0.2	5.1	9.5	(s)	1.6	0.1	9.3	12.9	2.2	41.4	0.0
Idaho	0.5	56.9	1.8	0.1	8.1	1.2	(s)	0.6	0.2	12.9	(s)	(s)	24.9	0.0
Illinois	39.1	1,024.9	7.8	0.2	33.9	9.6	0.2	24.7	3.5	111.3	2.7	36.7	230.6	72.7
Indiana	60.0	519.4	10.2	0.1	35.8	17.3	0.4	7.1	1.8	65.9	3.0	17.0	158.8	0.0
Iowa	19.3	248.4	2.0	0.1	18.5	0.9	0.1	15.8	0.7	33.9	0.2	0.7	72.8	4.1
Kansas	17.2	418.0	4.7	0.1	15.8	2.0	(s)	7.6	1.0	29.1	0.2	6.2	66.8	8.5
Kentucky	38.1	208.4	2.8	(s)	28.0	6.3	0.6	5.7	1.0	46.2	0.3	20.5	111.5	0.0
Louisiana	14.1	1,623.8	1.7	0.1	38.8	32.2	(s)	67.6	2.0	45.6	24.6	84.1	296.7	12.8
Maine	0.5	5.1	0.5	(s)	13.6	1.0	1.0	1.4	0.2	14.5	11.5	0.2	43.8	6.6
Maryland	10.5	183.7	4.4	0.1	19.5	3.2	0.7	2.8	0.7	50.7	9.0	4.1	95.2	11.2
Massachusetts	3.9	337.4	0.9	0.1	35.3	7.4	0.3	2.1	0.8	56.9	21.1	2.4	127.3	3.9
Michigan	35.7	926.0	3.6	0.2	29.3	10.3	0.4	14.3	3.3	105.8	2.2	13.8	183.1	14.1
Minnesota	18.7	323.8	4.7	0.1	23.7	9.8	0.1	9.4	1.1	52.6	1.1	7.4	110.1	12.2
Mississippi	4.3	268.5	2.1	0.1	15.5	6.8	0.1	6.5	0.7	32.9	5.4	6.6	76.5	9.6
Missouri	27.7	267.6	5.7	0.1	24.5	10.6	(s)	9.4	1.6	67.6	0.5	6.5	126.6	10.0
Montana	11.1	52.1	2.0	0.1	8.3	0.9	(s)	1.1	0.2	11.1	0.4	4.5	28.4	0.0
Nebraska	9.3	126.7	1.0	0.1	15.7	1.3	(s)	3.1	0.4	18.0	0.2	(s)	39.8	6.3
Nevada	8.0	101.8	1.3	0.1	7.6	6.8	(s)	1.4	0.1	17.2	0.4	0.1	35.0	0.0
New Hampshire	1.3	19.7	0.4	(s)	6.8	0.3	0.3	2.2	0.1	12.8	4.2	0.1	27.4	6.2
New Jersey	2.0	584.9	5.2	0.2	37.3	48.4	1.5	3.8	2.4	81.6	13.6	32.4	226.3	22.1
New Mexico	15.4	220.8	2.1	0.1	7.3	2.6	(s)	8.8	0.3	20.8	0.2	2.1	44.3	0.0
New York	11.5	1,012.5	7.4	0.1	67.7	5.7	2.3	6.4	2.1	128.3	40.4	10.8	271.2	29.2
North Carolina	23.3	187.9	4.8	0.1	28.6	4.4	1.7	12.3	1.2	83.5	6.4	5.7	148.7	32.3
North Dakota	30.4	42.9	1.3	(s)	8.3	0.8	(s)	1.3	0.2	8.4	0.3	1.2	21.9	0.0
Ohio	56.7	843.3	8.8	0.2	43.2	11.7	1.1	15.2	3.8	113.2	2.0	21.2	220.5	11.0
Oklahoma	17.7	572.1	3.5	0.1	17.3	10.3	(s)	5.6	1.3	41.5	0.6	7.6	88.0	0.0
Oregon	2.5	146.4	3.4	0.2	14.0	4.6	0.1	1.4	0.7	33.8	4.5	2.6	65.4	0.0
Pennsylvania	54.1	698.1	7.6	0.1	62.3	11.7	2.1	5.6	4.0	109.6	19.0	19.9	242.0	67.2
Rhode Island	(s)	71.3	1.3	(s)	5.9	0.5	(s)	0.5	0.1	8.6	1.2	(s)	18.2	0.0
South Carolina	13.0	144.5	2.0	0.1	15.5	1.5	0.5	3.9	0.5	45.3	2.6	7.6	79.4	44.5
South Dakota	3.0	31.0	0.6	(s)	7.0	1.3	(s)	2.3	0.2	9.8	0.1	(s)	21.4	0.0
Tennessee	25.4	246.2	5.4	0.4	24.8	7.8	0.5	3.5	1.2	62.9	0.5	12.8	119.9	11.9
Texas	93.8	3,666.3	10.9	0.8	89.5	83.4	0.1	358.6	5.3	218.8	21.9	197.6	987.1	28.7
Utah	16.2	137.1	1.8	0.1	8.4	5.3	(s)	0.8	0.3	19.4	0.3	2.7	39.2	0.0
Vermont	(s)	7.3	0.2	(s)	5.1	0.1	0.2	1.7	0.1	7.2	0.3	0.0	14.6	4.3
Virginia	12.8	230.6	3.9	0.1	29.2	12.0	1.5	4.9	0.9	75.1	8.0	5.3	140.9	25.4
Washington	6.3	212.8	3.5	0.3	18.8	21.5	0.1	2.6	0.7	57.5	15.8	24.4	145.2	6.7
West Virginia	34.8	145.4	0.7	(s)	11.1	0.2	0.4	2.0	0.7	20.0	0.5	14.5	50.0	0.0
Wisconsin	21.7	355.6	3.5	0.3	26.0	2.0	0.1	9.0	1.0	53.1	1.3	3.2	99.4	11.5
Wyoming	27.5	106.3	0.9	(s)	10.0	0.2	(s)	1.6	0.2	7.7	(s)	2.5	23.1	0.0
United States	930.2	20,755.5	176.8	7.6	1,154.2	557.3	17.9	686.1	58.0	2,774.5	372.6	662.3	6,467.1	640.4

[a] Includes supplemental gaseous fuels.
[b] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
(s)=Number less than 0.05.
Notes: • Totals may not equal sum of components due to independent rounding. • Total electricity generation by electric utilities and the industrial sector from hydroelectric power, biofuels, and geothermal, wind, photovoltaic and solar thermal energy are not available in billion kilowatthours. Biofuels used by the industrial sector for other purposes are also not available in physical units. The Btu equivalents are shown in Table 3.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 3. Energy Consumption Estimates by Source, 1994
(Trillion Btu)

State	Coal	Natural Gas [a]	Petroleum											Nuclear Electric Power	Hydro-electric Power [c]	Biofuels [d]	Other [e]	Net Interstate Flow of Electricity/Losses [f]	Total [g]
			Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kero-sene	LPG	Lubri-cants	Motor Gasoline	Residual Fuel	Other [b]	Total						
Alabama	770.6	297.5	33.6	0.6	148.0	19.6	0.4	18.7	6.0	279.7	21.6	35.1	563.1	218.6	117.4	170.0	0.1	-253.9	1,882.4
Alaska	12.6	403.6	0.4	0.9	46.8	91.2	0.1	0.9	0.7	34.4	4.6	20.4	200.2	0.0	13.8	3.1	(s)	0.0	633.3
Arizona	402.3	137.1	17.1	0.7	76.5	41.9	(s)	6.8	3.7	237.5	1.3	0.6	386.1	247.4	78.8	20.4	3.4	-241.6	1,033.3
Arkansas	221.9	249.8	7.1	0.8	100.0	9.1	0.2	12.3	4.2	162.2	2.0	10.9	308.8	148.6	35.6	71.4	1.1	-80.8	956.5
California	58.0	2,172.1	81.2	4.0	378.2	560.1	0.7	65.8	29.6	1,616.7	267.4	262.2	3,265.8	360.3	257.4	202.5	400.4	825.4	7,554.8
Colorado	349.1	277.1	27.8	0.6	77.2	44.9	0.3	12.3	3.9	207.0	(s)	9.8	383.8	0.0	17.0	11.2	0.2	12.0	1,049.0
Connecticut	22.5	123.6	11.1	0.1	118.5	13.9	1.5	5.4	2.7	171.7	47.8	8.8	381.5	215.2	11.3	43.5	0.1	-4.7	796.9
Delaware	57.5	50.4	1.1	0.3	20.8	3.0	1.4	4.6	0.8	43.6	36.0	25.3	137.0	0.0	0.0	9.7	(s)	10.8	265.4
Dist. of Col.	1.2	31.2	0.2	(s)	10.9	0.0	0.1	(s)	0.4	21.5	4.6	0.0	37.7	0.0	0.0	1.7	(s)	104.2	176.0
Florida	641.7	392.5	48.5	2.7	196.4	162.1	1.2	27.0	8.5	800.5	421.6	17.6	1,686.1	284.9	2.8	82.1	26.3	265.8	3,382.1
Georgia	691.9	351.6	34.8	0.8	183.4	95.9	1.4	27.4	7.5	491.3	30.2	44.0	916.8	308.8	50.5	116.0	0.1	-58.0	2,377.6
Hawaii	1.8	2.9	2.7	1.1	29.5	53.7	(s)	5.9	0.6	49.1	81.3	13.4	237.2	0.0	1.5	10.9	5.2	0.0	259.6
Idaho	9.7	59.1	11.9	0.3	47.1	6.6	(s)	2.3	1.1	67.9	0.1	0.1	137.6	0.0	82.6	19.3	(s)	132.3	441.2
Illinois	818.9	1,046.4	51.7	1.0	197.8	54.4	1.1	89.8	20.9	584.6	17.1	209.7	1,228.3	775.7	1.3	49.8	0.1	-212.3	3,694.7
Indiana	1,299.0	526.1	67.8	0.8	208.7	98.0	2.4	25.9	10.8	346.0	19.1	98.8	878.4	0.0	4.2	19.1	(s)	-198.6	2,523.6
Iowa	346.9	250.3	13.0	0.3	107.9	5.1	0.3	57.5	4.3	178.1	1.1	3.7	371.4	43.9	11.0	13.1	(s)	-1.9	1,030.0
Kansas	300.0	417.2	31.5	0.7	91.9	11.0	0.1	27.7	6.1	152.8	1.2	36.9	359.8	91.1	0.1	6.6	(s)	-102.8	1,071.6
Kentucky	897.5	221.3	18.9	0.2	163.3	35.9	3.2	20.6	6.4	242.7	2.1	115.5	608.7	0.0	41.2	24.5	(s)	-87.9	1,704.6
Louisiana	230.8	1,688.7	11.2	0.7	225.8	182.6	0.3	245.7	12.1	239.8	154.4	481.9	1,554.2	136.4	10.1	113.0	0.1	84.5	3,817.0
Maine	11.6	5.1	3.2	0.2	79.1	5.6	5.6	5.0	1.2	76.3	72.2	0.9	249.2	70.8	58.4	147.8	0.1	-6.1	546.9
Maryland	268.9	189.4	28.9	0.4	113.4	18.2	3.8	10.3	4.4	266.4	56.8	23.3	526.0	119.9	20.6	32.2	(s)	125.9	1,283.0
Massachusetts	100.7	346.1	5.9	0.4	205.7	42.1	1.9	7.5	5.1	298.8	132.5	12.9	712.8	41.2	28.5	76.3	0.2	165.3	1,487.5
Michigan	794.0	945.5	23.9	1.2	170.9	58.2	2.4	51.9	19.7	555.7	13.8	75.6	973.2	151.0	52.4	112.1	0.2	33.8	3,085.5
Minnesota	332.1	327.4	31.5	0.6	138.0	55.4	0.8	34.3	6.7	276.1	6.9	43.8	594.3	130.5	59.9	83.9	0.7	9.5	1,553.1
Mississippi	97.3	277.9	14.0	0.4	90.2	38.2	0.3	23.6	4.0	172.7	34.2	38.8	416.4	102.6	0.0	72.8	(s)	95.7	1,062.6
Missouri	542.3	269.2	37.8	0.6	143.0	60.2	0.3	34.2	9.7	354.8	3.4	37.4	681.3	106.8	18.9	18.0	0.1	-23.3	1,611.1
Montana	189.3	53.3	13.0	0.4	48.1	4.8	(s)	3.8	1.5	58.3	2.4	27.1	159.4	0.0	84.5	7.6	(s)	-125.7	368.8
Nebraska	160.3	124.8	6.8	0.4	91.4	7.0	0.1	11.2	2.3	94.8	1.4	0.2	215.7	67.7	13.5	5.7	(s)	-27.6	558.7
Nevada	180.1	105.4	8.3	0.5	44.1	38.6	(s)	5.3	0.7	90.5	2.4	0.5	191.1	0.0	19.3	3.1	34.3	-19.0	514.4
New Hampshire	33.5	20.0	2.5	0.2	39.9	1.9	1.9	8.1	0.5	67.3	26.4	0.7	149.4	66.2	21.8	33.8	(s)	-43.7	285.5
New Jersey	52.4	607.7	34.6	0.8	217.1	274.2	8.5	13.9	14.3	428.6	85.5	181.5	1,259.1	236.3	-1.6	44.1	0.4	348.5	2,546.6
New Mexico	278.3	221.4	14.0	0.3	42.4	14.6	0.1	31.9	2.0	109.3	1.1	12.6	228.3	0.0	2.2	5.1	0.5	-145.1	590.4
New York	297.3	1,040.8	49.4	0.5	394.6	32.3	13.0	23.1	12.6	673.8	254.0	60.5	1,513.8	312.1	356.5	142.5	0.3	159.4	3,867.4
North Carolina	578.8	194.6	32.0	0.7	166.6	24.5	9.8	44.8	7.3	438.5	40.2	31.5	795.9	345.3	78.0	90.1	0.1	132.0	2,214.2
North Dakota	402.4	45.3	8.3	0.2	48.6	4.6	(s)	4.8	1.1	44.1	2.2	7.1	120.9	0.0	24.2	2.1	(s)	-252.8	344.0
Ohio	1,377.1	874.5	58.7	0.9	251.6	66.1	6.0	55.4	23.0	594.7	12.9	121.8	1,191.2	116.9	2.0	97.3	(s)	309.4	3,954.1
Oklahoma	307.0	588.1	23.5	0.4	100.9	58.1	0.2	20.5	8.2	218.2	3.5	45.5	478.9	0.0	25.3	23.6	0.1	-41.5	1,381.6
Oregon	44.6	152.3	22.7	0.8	81.6	26.4	0.4	5.2	4.5	177.8	28.0	15.3	362.6	0.0	345.5	69.9	0.4	46.9	1,038.2
Pennsylvania	1,357.8	723.3	50.5	0.7	363.0	66.5	11.8	20.5	24.5	575.6	119.3	115.8	1,348.3	717.5	19.6	114.4	0.4	-449.0	3,830.7
Rhode Island	0.1	73.3	8.3	0.1	34.5	3.0	0.3	1.8	0.8	45.4	7.4	0.1	101.7	0.0	3.6	4.8	(s)	62.4	248.1
South Carolina	330.7	149.0	13.2	0.6	90.4	8.1	2.7	14.1	3.3	237.8	16.4	41.8	428.3	474.7	24.8	74.9	(s)	-123.0	1,359.6
South Dakota	39.2	31.3	4.2	0.2	40.7	7.1	(s)	8.4	1.0	51.7	0.6	0.1	113.9	0.0	54.9	4.1	(s)	-12.3	231.1
Tennessee	622.9	254.0	36.2	2.0	144.5	44.0	3.1	12.7	7.5	330.5	2.9	71.7	654.9	127.4	117.6	65.9	0.1	112.6	1,953.2
Texas	1,382.8	3,802.0	72.6	3.9	521.6	472.5	0.8	1,303.5	32.2	1,149.6	138.0	1,116.3	4,811.1	306.9	15.7	54.1	0.4	25.5	10,387.6
Utah	376.5	146.3	12.1	0.4	48.9	29.7	(s)	2.8	1.8	102.1	2.2	16.4	216.6	0.0	7.7	4.7	4.1	-161.1	594.8
Vermont	0.1	7.3	1.5	0.1	29.5	0.8	1.2	6.0	0.4	37.6	1.8	0.0	78.9	46.1	20.4	12.5	(s)	-15.6	152.6
Virginia	326.5	239.3	26.1	0.5	170.3	68.0	8.3	17.9	5.7	394.4	50.2	29.2	770.5	271.5	4.2	59.4	0.1	325.2	1,996.0
Washington	106.9	221.5	23.4	1.6	109.6	121.7	0.5	9.4	4.2	301.9	99.1	146.0	817.5	72.0	657.2	128.9	0.3	90.7	2,082.6
West Virginia	870.3	154.7	4.6	0.1	64.5	1.3	2.3	7.2	4.0	104.9	3.1	79.5	271.6	0.0	11.9	10.4	(s)	-501.6	817.1
Wisconsin	426.0	359.9	23.4	1.4	151.6	11.1	0.3	32.6	6.1	278.8	8.1	17.7	531.1	122.9	30.2	196.3	0.2	43.0	1,713.4
Wyoming	489.5	112.3	6.0	0.2	58.3	0.8	0.1	5.7	1.3	40.4	0.3	14.9	127.9	0.0	9.2	3.0	(s)	-331.1	410.3
United States	19,511.1	21,361.8	1,172.9	38.1	6,723.3	3,154.5	101.3	2,493.9	351.7	14,574.4	2,342.5	3,781.2	34,733.9	6,837.3	2,923.3	2,852.2	480.9	0.0	88,788.6

[a] Includes supplemental gaseous fuels.
[b] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[c] Includes net imports of hydroelectricity. A negative number in this column results from pumped storage for which, overall, more electricity is expended than created to provide electricity during peak demand periods.
[d] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[e] "Other" is electricity generated from geothermal, wind, photovoltaic, and solar thermal energy. It includes net imports of electricity generated from geothermal energy.
[f] 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.
[g] U.S. total includes 23.6 trillion Btu of net imports of coal coke that has not been allocated to the States. State and U.S. totals include 149.3 trillion Btu of net imports of electricity generated from nonrenewable energy sources not shown in other columns.
(s)=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 4. Residential Energy Consumption Estimates, 1994
(Trillion Btu)

State	Coal			Natural Gas [a]	Petroleum				Biofuels [b]	Solar [c]	Electricity	Net Energy	Electrical System Energy Losses [d]	Total [b,c]
	Bituminous Coal and Lignite	Anthracite	Total		Distillate Fuel	Kerosene	LPG	Total						
Alabama	0.1	(s)	0.1	51.3	0.1	0.2	10.2	10.4	12.4	0.1	79.0	153.4	164.8	318.1
Alaska	2.9	0.0	2.9	14.9	7.3	0.1	0.5	7.9	1.8	(s)	5.8	33.2	13.7	46.9
Arizona	0.0	(s)	(s)	30.5	(s)	(s)	3.1	3.1	8.5	3.4	62.1	107.7	129.6	237.3
Arkansas	(s)	(s)	(s)	42.4	(s)	(s)	6.1	6.1	4.7	1.1	39.7	94.1	82.8	177.0
California	1.3	(s)	1.4	531.7	0.9	0.4	18.0	19.3	58.5	17.7	235.0	863.5	490.0	1,353.5
Colorado	0.2	0.0	0.2	99.9	0.1	0.2	6.4	6.8	7.4	0.2	37.3	151.8	77.8	229.6
Connecticut	(s)	0.2	0.2	42.9	73.2	0.9	3.4	77.5	10.8	0.1	37.2	168.7	77.5	246.2
Delaware	0.2	(s)	0.3	8.9	6.9	0.5	2.5	10.0	1.9	(s)	10.6	31.6	22.1	53.7
Dist. of Col.	0.4	(s)	0.4	16.0	0.8	(s)	(s)	0.8	1.7	(s)	5.4	24.3	11.2	35.5
Florida	0.2	(s)	0.2	15.6	1.5	0.7	16.8	19.0	10.1	26.3	275.0	346.1	573.5	919.6
Georgia	0.2	(s)	0.3	108.6	0.7	0.5	15.3	16.4	17.1	0.1	111.7	254.2	232.9	487.1
Hawaii	0.0	0.0	0.0	0.6	(s)	(s)	0.3	0.3	3.0	1.0	8.7	13.7	9.8	23.4
Idaho	0.3	(s)	0.3	12.8	3.1	(s)	1.1	4.2	2.1	(s)	21.2	40.6	44.3	84.9
Illinois	2.0	(s)	2.0	483.7	4.7	0.4	13.7	18.8	17.7	0.1	121.8	644.2	254.1	898.3
Indiana	2.8	0.1	2.8	159.5	10.6	1.6	13.4	25.6	9.0	(s)	85.5	282.5	178.2	460.7
Iowa	0.3	0.1	0.4	78.9	5.7	0.1	14.3	20.0	6.3	(s)	37.7	143.3	78.7	222.0
Kansas	0.3	0.0	0.3	74.1	0.2	(s)	3.8	4.0	5.7	(s)	34.6	118.7	72.1	190.8
Kentucky	2.5	(s)	2.5	66.4	4.8	2.2	8.3	15.2	11.2	(s)	66.5	161.8	138.6	300.5
Louisiana	0.0	0.0	0.0	55.0	0.1	(s)	2.5	2.6	8.0	0.1	77.2	142.9	161.0	303.9
Maine	0.0	0.1	0.1	0.9	32.9	4.3	3.6	40.7	4.8	0.1	12.6	59.3	26.3	85.6
Maryland	0.3	0.1	0.3	79.0	29.0	2.2	5.2	36.5	12.1	(s)	73.9	201.9	154.2	356.1
Massachusetts	(s)	0.3	0.3	122.6	115.1	1.2	5.0	121.4	20.2	0.2	54.8	319.5	114.2	433.7
Michigan	2.5	(s)	2.5	376.8	23.5	1.8	28.7	54.0	15.3	0.2	92.7	541.5	193.4	734.9
Minnesota	1.6	(s)	1.6	123.6	19.7	0.3	15.6	35.6	10.3	0.3	54.6	226.0	113.9	339.9
Mississippi	0.0	0.0	0.0	27.9	(s)	0.1	7.9	8.0	7.4	(s)	46.5	89.9	97.1	187.0
Missouri	1.7	(s)	1.8	123.3	2.1	0.1	21.0	23.2	12.1	0.1	82.1	242.6	171.2	413.7
Montana	(s)	0.0	(s)	19.2	1.1	(s)	2.0	3.1	1.8	(s)	12.2	36.2	25.4	61.6
Nebraska	0.1	0.0	0.1	43.7	0.9	(s)	4.0	4.9	3.6	(s)	25.2	77.5	52.5	130.1
Nevada	(s)	0.0	(s)	22.0	0.9	(s)	2.3	3.2	2.9	0.1	23.4	51.6	48.7	100.4
New Hampshire	0.0	0.1	0.1	6.7	22.2	1.6	5.6	29.4	4.1	(s)	11.7	52.0	24.4	76.5
New Jersey	0.0	0.2	0.2	225.4	71.9	1.7	4.7	78.3	15.0	0.4	75.6	394.9	157.6	552.5
New Mexico	0.1	(s)	0.1	30.9	(s)	(s)	2.8	2.9	3.2	0.5	13.9	51.4	29.0	80.5
New York	0.8	1.4	2.2	395.9	155.9	7.9	15.8	179.6	54.1	0.3	136.8	769.0	285.4	1,054.4
North Carolina	2.3	(s)	2.3	49.2	19.0	7.4	20.2	46.6	18.3	0.1	126.9	243.5	264.7	508.2
North Dakota	0.7	0.0	0.7	11.3	4.3	(s)	2.5	6.8	1.5	(s)	11.1	31.4	23.1	54.5
Ohio	4.2	0.1	4.3	356.0	28.5	4.0	16.8	49.3	17.3	(s)	142.6	569.6	297.4	867.0
Oklahoma	(s)	(s)	(s)	71.0	(s)	(s)	4.4	4.4	6.6	0.1	55.0	137.1	114.8	251.8
Oregon	(s)	(s)	(s)	30.2	5.4	0.3	1.9	7.6	9.2	0.4	56.2	103.5	117.1	220.7
Pennsylvania	2.2	13.6	15.8	278.1	115.3	8.4	10.5	134.3	24.2	0.4	144.1	596.9	300.6	897.4
Rhode Island	0.0	(s)	(s)	17.9	20.5	0.2	1.1	21.8	3.4	(s)	8.4	51.6	17.5	69.1
South Carolina	0.5	0.1	0.6	24.2	3.9	2.1	7.9	13.9	9.2	(s)	67.9	115.9	141.6	257.5
South Dakota	0.1	(s)	0.1	12.2	3.1	(s)	4.6	7.8	1.6	(s)	10.7	32.4	22.4	54.8
Tennessee	0.8	(s)	0.8	59.2	1.8	2.5	7.7	11.9	15.2	0.1	111.9	199.1	233.4	432.4
Texas	(s)	(s)	(s)	222.5	(s)	0.1	13.2	13.3	14.2	0.4	306.4	556.9	638.9	1,195.8
Utah	0.9	(s)	0.9	52.3	0.7	(s)	0.6	1.3	3.1	(s)	17.1	74.6	35.6	110.2
Vermont	(s)	0.0	(s)	2.4	12.6	1.0	4.5	18.1	2.2	(s)	6.9	29.7	14.3	44.0
Virginia	2.7	(s)	2.8	67.7	28.6	7.1	8.9	44.6	16.1	0.1	110.4	241.6	230.1	471.7
Washington	0.7	0.0	0.7	55.3	8.9	0.4	3.4	12.7	15.8	0.3	101.2	186.0	211.1	397.2
West Virginia	0.8	(s)	0.8	37.5	3.4	1.7	1.8	6.9	4.8	(s)	29.6	79.5	61.6	141.2
Wisconsin	0.4	(s)	0.5	129.7	28.0	0.2	19.9	48.1	8.3	0.2	60.3	246.9	125.7	372.6
Wyoming	1.6	0.0	1.6	12.2	0.4	(s)	1.5	1.9	1.0	(s)	6.4	23.1	13.3	36.3
United States	**38.6**	**16.4**	**55.1**	**4,980.4**	**880.0**	**64.9**	**395.5**	**1,340.4**	**582.0**	**55.2**	**3,440.9**	**10,454.0**	**7,169.2**	**17,623.2**

[a] Includes supplemental gaseous fuels.
[b] U.S. total includes an estimated 45.0 trillion Btu of wood energy consumed in the commercial sector that has not been allocated to the States.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
(s)=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, 1994
(Trillion Btu)

State	Coal			Natural Gas [a]	Petroleum						Electricity	Net Energy	Electrical System Energy Losses [b]	Total [c]
	Bituminous Coal and Lignite	Anthracite	Total		Distillate Fuel	Kerosene	LPG	Motor Gasoline	Residual Fuel	Total				
Alabama	0.2	(s)	0.2	26.3	6.2	0.1	1.8	0.2	(s)	8.3	42.7	77.4	89.0	166.4
Alaska	5.3	0.0	5.3	20.7	6.9	(s)	0.1	0.1	0.0	7.0	8.0	41.1	18.9	60.0
Arizona	0.0	(s)	(s)	30.0	1.5	(s)	0.5	0.2	0.0	2.2	60.6	92.8	126.4	219.2
Arkansas	(s)	(s)	(s)	28.0	2.5	(s)	1.1	0.1	0.0	3.8	25.4	57.2	53.0	110.2
California	2.5	(s)	2.5	267.4	8.8	0.1	3.2	1.2	(s)	13.3	288.7	571.9	602.1	1,174.0
Colorado	0.3	0.0	0.3	66.2	7.1	(s)	1.1	0.3	0.0	8.5	47.6	122.6	99.2	221.8
Connecticut	(s)	0.1	0.1	40.3	14.4	0.3	0.6	5.5	4.1	24.9	38.2	103.5	79.8	183.3
Delaware	0.4	(s)	0.5	5.7	1.5	(s)	0.4	(s)	1.0	3.1	9.4	18.5	19.5	38.1
Dist. of Col.	0.8	(s)	0.8	14.9	5.3	(s)	(s)	0.3	1.1	6.7	28.4	50.8	59.2	110.0
Florida	0.3	(s)	0.3	44.9	12.8	0.4	3.0	0.5	0.9	17.5	212.9	275.6	444.0	719.6
Georgia	0.5	(s)	0.5	55.7	6.0	0.8	2.7	0.9	(s)	10.5	92.7	159.4	193.3	352.7
Hawaii	0.0	0.0	0.0	2.3	1.5	(s)	0.1	0.1	2.8	4.3	8.9	15.5	9.9	25.4
Idaho	0.6	(s)	0.6	10.5	2.6	(s)	0.2	0.2	(s)	3.0	20.5	34.6	42.8	77.3
Illinois	3.7	(s)	3.7	201.7	12.9	0.3	2.4	0.8	0.4	16.9	149.1	371.4	310.9	682.4
Indiana	5.2	(s)	5.2	76.8	8.9	0.4	2.4	1.4	0.3	13.3	61.4	156.7	128.0	284.7
Iowa	0.6	(s)	0.6	48.3	2.3	0.1	2.5	0.2	(s)	5.1	29.9	83.8	62.3	146.1
Kansas	0.5	0.0	0.5	52.2	2.9	(s)	0.7	0.4	(s)	4.0	35.8	92.5	74.6	167.1
Kentucky	4.6	(s)	4.6	39.0	5.8	0.4	1.5	0.2	(s)	7.8	44.2	95.7	92.2	187.9
Louisiana	0.0	0.0	0.0	25.1	5.0	0.1	0.4	0.2	0.0	5.8	60.2	91.0	125.5	216.5
Maine	0.0	0.1	0.1	2.4	13.4	0.9	0.6	0.1	4.9	19.8	10.1	32.3	21.1	53.4
Maryland	0.5	(s)	0.6	45.5	17.8	1.2	0.9	0.2	1.4	21.5	47.6	115.1	99.2	214.3
Massachusetts	(s)	0.2	0.2	86.6	32.3	0.6	0.9	0.3	18.9	52.9	68.8	208.5	143.4	351.9
Michigan	4.6	(s)	4.6	189.2	8.4	0.2	5.1	1.9	(s)	15.5	106.7	316.0	222.5	538.5
Minnesota	2.9	(s)	2.9	84.9	5.3	0.1	2.8	0.3	1.0	9.4	33.1	130.2	69.0	199.2
Mississippi	0.0	0.0	0.0	19.8	2.5	(s)	1.4	0.8	0.0	4.7	26.4	50.9	55.0	105.9
Missouri	3.2	(s)	3.2	66.6	7.0	0.1	3.7	0.5	0.1	11.4	73.4	154.7	153.1	307.8
Montana	(s)	0.0	(s)	13.3	1.1	(s)	0.3	0.1	(s)	1.6	12.5	27.4	26.0	53.4
Nebraska	0.1	0.0	0.1	38.4	2.1	(s)	0.7	0.1	0.1	3.1	24.4	65.9	50.9	116.8
Nevada	(s)	0.0	(s)	19.4	3.1	(s)	0.4	0.1	0.0	3.6	18.5	41.4	38.5	80.0
New Hampshire	0.0	0.1	0.1	6.5	7.5	0.2	1.0	0.1	2.8	11.6	11.4	29.5	23.8	53.3
New Jersey	0.0	0.1	0.1	137.2	29.0	3.5	0.8	0.4	13.3	47.1	101.5	285.9	211.7	497.6
New Mexico	0.1	(s)	0.1	25.0	1.2	(s)	0.5	0.1	0.0	1.8	22.5	49.4	46.9	96.3
New York	1.5	0.9	2.4	229.4	85.0	3.1	2.8	0.9	102.5	194.3	202.6	628.7	422.5	1,051.2
North Carolina	4.3	(s)	4.3	40.3	11.4	1.9	3.6	0.4	1.7	19.0	99.9	163.5	208.3	371.8
North Dakota	1.3	0.0	1.3	11.4	1.1	(s)	0.4	0.1	0.1	1.7	8.3	22.8	17.3	40.0
Ohio	7.7	0.1	7.8	173.0	8.7	0.8	3.0	2.4	(s)	14.9	131.5	327.2	274.2	601.4
Oklahoma	(s)	(s)	(s)	37.4	1.5	(s)	0.8	0.2	0.0	2.5	45.4	85.3	94.6	179.9
Oregon	(s)	(s)	(s)	24.0	3.0	0.1	0.3	0.2	0.7	4.3	45.8	74.1	95.5	169.7
Pennsylvania	4.2	9.0	13.2	143.5	40.3	1.9	1.9	0.5	8.7	53.2	117.5	327.4	245.0	572.4
Rhode Island	0.0	(s)	(s)	12.4	4.7	(s)	0.2	0.1	4.0	9.0	9.3	30.7	19.5	50.2
South Carolina	0.9	0.1	0.9	18.4	3.8	0.1	1.4	0.2	0.4	5.9	48.4	73.7	101.0	174.7
South Dakota	0.2	(s)	0.2	10.4	1.5	(s)	0.8	0.1	(s)	2.5	7.7	20.8	16.1	36.9
Tennessee	1.5	(s)	1.5	52.4	5.9	0.4	1.4	0.3	0.2	8.1	20.9	82.8	43.6	126.4
Texas	(s)	(s)	(s)	187.9	14.7	0.2	2.3	0.8	(s)	18.0	266.3	472.3	555.4	1,027.7
Utah	1.6	(s)	1.6	28.3	2.8	(s)	0.1	0.1	0.1	3.2	21.6	54.7	45.1	99.8
Vermont	0.1	0.0	0.1	2.7	4.5	0.1	0.8	(s)	0.5	6.0	5.5	14.2	11.5	25.8
Virginia	5.1	(s)	5.1	55.0	14.4	0.6	1.6	0.7	1.0	18.2	108.0	186.2	225.2	411.4
Washington	1.3	0.0	1.3	44.7	4.2	0.1	0.6	0.3	0.3	5.5	79.8	131.2	166.4	297.6
West Virginia	1.4	(s)	1.4	26.6	2.4	0.2	0.3	0.1	(s)	3.0	19.2	50.2	40.1	90.3
Wisconsin	0.8	(s)	0.8	79.6	7.6	(s)	3.5	0.5	1.0	12.7	51.3	144.4	107.0	251.4
Wyoming	2.9	0.0	2.9	9.7	1.4	(s)	0.3	(s)	(s)	1.7	8.8	23.1	18.3	41.4
United States	71.7	11.0	82.7	2,977.7	464.3	19.5	69.8	25.3	174.6	753.5	3,119.0	6,932.9	6,498.4	13,431.2

[a] Includes supplemental gaseous fuels.
[b] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[c] Small amounts of wood and solar energy sources consumed in the commercial sector cannot be separately identified and are included in residential consumption.
(s)=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, 1994
(Trillion Btu)

State	Coal	Natural Gas [a]	Petroleum									Hydro-electric power	Biofuels	Other [c]	Electricity	Net Energy [d]	Electrical System Energy Losses [e]	Total [d]
			Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG	Lubricants	Motor Gasoline	Residual Fuel	Other [b]	Total							
Alabama	146.2	200.7	33.6	29.8	0.2	6.0	3.1	3.3	6.8	35.1	117.8	0.0	156.5	0.0	108.9	730.1	227.1	957.2
Alaska	0.1	335.9	0.4	8.8	(s)	0.3	0.1	0.3	2.2	20.4	32.4	0.0	1.3	0.0	1.7	371.5	4.1	375.7
Arizona	14.7	26.7	17.1	10.4	(s)	2.9	1.6	1.9	0.3	0.6	34.8	0.0	11.3	0.0	38.6	126.0	80.4	206.4
Arkansas	8.6	141.7	7.1	20.9	0.1	4.7	1.6	2.2	1.7	10.9	49.3	(s)	66.7	0.0	46.2	312.4	96.2	408.7
California	**54.2**	**741.4**	**81.2**	**52.6**	**0.2**	**40.9**	**12.7**	**14.5**	**8.5**	**262.2**	**472.8**	**11.4**	**141.9**	**217.1**	**204.3**	**1,842.9**	**426.0**	**2,268.9**
Colorado	18.5	95.9	27.8	18.2	(s)	4.3	1.4	3.1	(s)	9.8	64.6	1.2	2.3	0.0	32.8	215.3	68.5	283.7
Connecticut	0.7	31.6	11.1	4.4	0.3	1.2	1.3	1.0	8.3	8.8	36.3	0.7	27.9	0.0	20.2	117.5	42.1	159.6
Delaware	4.8	17.8	1.1	2.0	0.8	1.6	0.5	0.3	11.4	25.3	43.0	0.0	7.8	0.0	11.8	85.2	24.5	109.8
Dist. of Col.	0.0	0.0	0.2	0.1	0.0	(s)	(s)	0.4	(s)	0.0	0.7	0.0	0.0	0.0	0.9	1.6	1.9	3.5
Florida	32.5	143.5	48.5	22.0	(s)	6.2	3.6	5.4	29.2	17.6	132.6	0.0	71.8	0.0	56.3	436.7	117.5	554.2
Georgia	**48.5**	**179.1**	**34.8**	**20.2**	**0.1**	**8.5**	**3.8**	**4.1**	**18.0**	**44.0**	**133.5**	**0.6**	**98.9**	**0.0**	**102.2**	**562.7**	**213.1**	**775.8**
Hawaii	1.8	0.0	2.7	2.0	(s)	5.5	0.1	1.3	7.6	13.4	32.5	1.3	7.9	4.2	12.9	60.7	14.5	75.2
Idaho	8.8	30.9	11.9	14.7	(s)	0.9	0.3	2.0	0.1	0.1	29.9	6.4	17.1	0.0	26.1	119.2	54.4	173.6
Illinois	149.4	311.6	51.7	44.6	0.4	71.8	11.8	8.0	3.8	209.7	401.9	0.8	18.7	0.0	142.5	1,024.9	297.2	1,322.0
Indiana	225.8	273.6	67.8	30.0	0.5	9.3	6.6	4.4	17.5	98.8	234.9	0.0	5.5	0.0	139.1	878.9	290.1	1,169.0
Iowa	55.0	109.6	13.0	38.9	0.2	40.1	1.2	5.8	1.1	3.7	104.0	0.2	1.8	0.0	45.1	315.7	94.1	409.8
Kansas	**3.3**	**232.4**	**31.5**	**31.4**	**(s)**	**22.6**	**2.5**	**5.0**	**1.1**	**36.9**	**130.9**	**0.1**	**0.5**	**0.0**	**30.7**	**397.9**	**64.1**	**461.9**
Kentucky	82.6	91.2	18.9	37.3	0.6	10.6	3.2	5.9	2.1	115.5	193.9	0.0	12.6	0.0	136.6	517.1	285.0	802.1
Louisiana	11.4	1,253.0	11.2	78.8	0.2	242.3	7.7	4.2	1.5	476.4	822.2	10.1	104.2	0.0	101.9	2,302.8	212.5	2,515.3
Maine	11.4	1.8	3.2	8.2	0.4	0.7	0.4	0.9	57.9	0.9	72.5	19.1	142.9	0.0	16.9	264.7	35.2	299.9
Maryland	18.8	49.1	28.9	9.9	0.4	3.8	2.5	1.5	7.9	23.3	78.3	0.0	20.0	0.0	65.0	231.1	135.5	366.6
Massachusetts	1.6	95.1	5.9	6.5	0.1	1.2	2.3	1.8	17.2	12.9	47.9	2.0	56.1	0.0	33.1	235.8	69.1	304.9
Michigan	**107.2**	**348.9**	**23.9**	**27.5**	**0.3**	**16.5**	**10.8**	**6.1**	**6.1**	**75.6**	**166.8**	**1.5**	**92.0**	**0.0**	**111.6**	**828.0**	**232.8**	**1,060.8**
Minnesota	26.9	95.5	31.5	37.4	0.4	15.5	2.0	6.6	5.9	37.9	137.0	3.2	59.8	0.4	86.8	409.7	181.1	590.8
Mississippi	7.1	103.7	14.0	24.0	0.2	13.8	2.1	2.2	1.1	38.8	96.2	0.0	65.1	0.0	52.1	324.1	108.6	432.7
Missouri	24.6	72.0	37.8	20.3	0.1	8.8	4.0	8.5	2.9	30.1	112.6	0.0	3.6	0.0	48.1	261.0	100.4	361.3
Montana	10.5	16.6	13.0	13.3	(s)	1.3	0.3	3.2	2.3	27.1	60.5	0.6	5.3	0.0	20.3	113.8	42.4	156.2
Nebraska	7.9	36.5	6.8	34.3	0.1	6.3	0.2	3.9	1.2	0.2	53.0	0.0	0.5	0.0	18.2	116.1	38.0	154.1
Nevada	**4.5**	**29.9**	**8.3**	**14.7**	**(s)**	**2.4**	**0.2**	**1.0**	**0.9**	**0.5**	**28.0**	**0.1**	**0.2**	**34.2**	**26.5**	**123.5**	**55.3**	**178.8**
New Hampshire	0.0	4.5	2.5	2.1	0.1	1.4	0.1	0.5	8.3	0.7	15.9	4.4	29.6	0.0	7.4	61.9	15.5	77.4
New Jersey	1.8	198.3	34.6	13.0	3.4	7.8	10.0	2.9	15.9	181.5	269.2	0.2	28.8	0.0	48.6	546.9	101.4	648.3
New Mexico	1.5	73.5	14.0	7.2	(s)	28.0	0.7	3.2	1.1	12.6	66.9	0.0	1.5	0.0	17.7	161.1	36.9	198.0
New York	75.1	221.1	49.4	17.9	2.0	3.4	6.2	5.7	20.2	60.5	165.2	15.0	87.8	0.0	100.5	664.7	209.7	874.4
North Carolina	60.1	98.3	32.0	18.2	0.5	20.0	3.4	4.7	37.2	31.5	147.4	20.4	71.1	0.0	113.6	510.9	237.0	747.9
North Dakota	**93.8**	**18.1**	**8.3**	**18.8**	**(s)**	**1.7**	**0.2**	**3.7**	**2.1**	**7.1**	**41.9**	**0.0**	**0.1**	**0.0**	**6.9**	**160.9**	**14.3**	**175.2**
Ohio	176.0	324.0	58.7	41.5	1.2	33.9	14.4	5.8	12.3	121.8	289.6	(s)	65.7	0.0	252.5	1,107.9	526.6	1,634.5
Oklahoma	16.1	294.4	23.5	20.3	0.1	14.8	3.5	5.8	3.5	45.5	117.0	0.0	17.1	0.0	40.0	484.5	83.4	567.9
Oregon	2.9	65.6	22.7	12.2	0.1	2.2	1.3	2.6	2.6	15.3	59.0	3.2	60.7	0.0	51.4	242.7	107.2	349.9
Pennsylvania	392.4	249.3	50.5	30.0	1.4	6.8	16.6	4.8	25.9	109.2	245.2	4.1	88.7	0.0	157.2	1,136.9	327.9	1,464.8
Rhode Island	0.0	42.1	8.3	1.8	(s)	0.4	0.4	0.3	3.0	0.1	14.3	0.1	1.4	0.0	4.7	62.6	9.8	72.4
South Carolina	**58.5**	**100.5**	**13.2**	**7.8**	**0.4**	**4.2**	**1.7**	**2.2**	**15.4**	**41.8**	**86.8**	**0.7**	**65.7**	**0.0**	**94.7**	**407.0**	**197.5**	**604.6**
South Dakota	7.8	6.0	4.2	16.5	(s)	2.7	(s)	2.4	0.5	0.1	26.5	0.0	1.1	0.0	6.0	47.3	12.5	59.9
Tennessee	102.7	122.7	36.2	21.8	0.2	2.8	3.4	4.1	2.7	71.7	142.8	10.8	48.5	0.0	148.8	576.3	310.3	886.6
Texas	82.8	2,218.4	72.6	110.2	0.6	1,285.8	20.7	19.7	15.2	1,116.3	2,641.1	0.0	35.9	0.0	308.2	5,286.4	642.7	5,929.2
Utah	46.1	53.3	12.1	10.4	(s)	1.9	0.6	1.7	2.1	16.4	45.2	0.4	1.7	0.0	22.2	168.9	46.2	215.1
Vermont	0.0	2.0	1.5	2.0	0.1	0.7	0.1	0.4	1.2	0.0	6.1	1.5	9.5	0.0	4.9	24.0	10.2	34.2
Virginia	**97.1**	**90.2**	**26.1**	**14.4**	**0.6**	**6.8**	**2.5**	**3.5**	**15.7**	**29.2**	**98.9**	**0.8**	**42.6**	**0.0**	**61.9**	**391.4**	**129.2**	**520.6**
Washington	3.9	112.0	23.4	16.7	(s)	4.3	1.2	2.8	5.7	146.0	200.2	3.9	103.2	0.0	116.2	539.4	242.4	781.8
West Virginia	112.1	58.3	4.6	17.3	0.4	5.0	2.5	1.0	3.1	79.5	113.3	8.1	5.4	0.0	35.8	333.1	74.6	407.7
Wisconsin	47.9	136.7	23.4	29.4	0.1	8.1	3.0	4.8	7.0	16.7	92.4	3.2	184.3	0.0	77.5	542.0	161.6	703.6
Wyoming	40.6	83.6	6.0	16.1	0.1	3.8	0.3	2.2	0.3	14.9	43.7	0.0	1.6	0.0	24.8	194.2	51.7	245.9
United States	**2,506.7**	**9,638.7**	**1,172.9**	**1,108.8**	**16.9**	**1,996.5**	**180.9**	**193.4**	**425.3**	**3,754.8**	**8,849.5**	**135.9**	**2,152.0**	**255.9**	**3,439.2**	**27,001.5**	**7,160.4**	**34,161.9**

[a] Includes supplemental gaseous fuels.
[b] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[c] Includes geothermal, wind, photovoltaic, and solar thermal energy sources. See Appendix A, Section 5, for explanation of estimation methodology.
[d] U.S. total includes 23.6 trillion Btu of net imports of coal coke that has not been allocated to the States.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
(s)=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, 1994
(Trillion Btu)

State	Coal	Natural Gas [a]	Petroleum								Biofuels [b]	Electricity	Net Energy	Electrical System Energy Losses [c]	Total
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG	Lubricants	Motor Gasoline	Residual Fuel	Total					
Alabama	0.0	15.4	0.6	110.6	19.6	0.7	2.9	276.1	14.8	425.4	1.1	0.0	440.7	0.0	440.7
Alaska	0.0	3.0	0.9	20.4	91.2	(s)	0.6	34.0	0.6	147.7	(s)	0.0	150.7	0.0	150.7
Arizona	0.0	25.7	0.7	64.2	41.9	0.3	2.1	235.4	0.0	344.7	0.5	0.0	370.3	0.0	370.3
Arkansas	0.0	12.1	0.8	75.8	9.1	0.5	2.6	159.9	0.0	248.5	(s)	0.0	260.6	0.0	260.6
California	0.0	12.9	4.0	315.3	560.1	3.7	16.9	1,601.0	240.9	2,741.9	2.1	1.2	2,756.0	2.4	2,758.4
Colorado	0.0	10.1	0.6	51.6	44.9	0.5	2.4	203.6	(s)	303.7	1.5	(s)	313.8	(s)	313.8
Connecticut	0.0	0.7	0.1	26.0	13.9	0.2	1.5	165.2	0.1	207.1	0.3	0.0	207.8	0.0	207.8
Delaware	0.0	(s)	0.3	9.0	3.0	(s)	0.4	43.3	8.0	63.9	0.0	0.0	63.9	0.0	63.9
Dist. of Col.	0.0	0.2	(s)	4.1	0.0	(s)	0.3	20.8	0.0	25.3	0.0	0.4	26.0	0.9	26.9
Florida	0.0	6.0	2.7	152.6	162.1	1.0	4.9	794.6	64.3	1,182.1	0.3	0.1	1,188.3	0.3	1,188.6
Georgia	0.0	7.2	0.8	154.8	95.9	0.9	3.7	486.3	11.8	754.2	0.1	0.2	761.6	0.5	762.1
Hawaii	0.0	0.0	1.1	13.8	53.7	0.1	0.4	47.8	18.7	135.5	0.0	0.0	135.5	0.0	135.5
Idaho	0.0	4.9	0.3	26.8	6.6	0.2	0.8	65.7	0.0	100.4	(s)	0.0	105.4	0.0	105.4
Illinois	0.0	14.1	1.0	131.9	54.4	1.9	9.1	575.8	0.3	774.5	13.4	1.1	789.8	2.3	792.0
Indiana	0.0	7.0	0.8	156.7	98.0	0.9	4.2	340.3	1.4	602.1	4.6	(s)	609.2	0.1	609.2
Iowa	0.0	10.8	0.3	60.0	5.1	0.5	3.1	172.1	0.0	241.2	4.8	0.0	252.0	0.0	252.0
Kansas	0.0	31.7	0.7	56.7	11.0	0.5	3.6	147.4	0.0	220.0	0.4	0.0	251.7	0.0	251.7
Kentucky	0.0	24.3	0.2	113.7	35.9	0.3	3.1	236.6	0.0	389.9	0.7	0.0	414.2	0.0	414.2
Louisiana	0.0	65.7	0.7	141.3	182.6	0.4	4.3	235.4	150.8	715.5	0.8	(s)	781.2	(s)	781.2
Maine	0.0	(s)	0.2	24.5	5.6	0.1	0.8	75.3	1.5	108.0	0.0	0.0	108.0	0.0	108.0
Maryland	0.0	2.6	0.4	50.6	18.2	0.4	1.9	264.7	6.2	342.3	0.0	0.4	345.2	0.8	346.0
Massachusetts	0.0	1.9	0.4	48.6	42.1	0.3	2.8	296.7	2.3	393.2	0.0	0.6	395.7	1.3	397.0
Michigan	0.0	23.3	1.2	109.7	58.2	1.7	8.9	547.6	0.6	727.9	4.8	(s)	751.2	(s)	751.2
Minnesota	0.0	17.5	0.6	75.1	55.4	0.5	4.8	269.2	(s)	405.6	9.6	0.0	423.2	0.0	423.2
Mississippi	0.0	40.4	0.4	63.3	38.2	0.6	1.9	169.7	22.6	296.7	0.3	0.0	337.1	0.0	337.1
Missouri	0.0	2.9	0.6	112.2	60.2	0.7	5.6	345.8	0.1	525.2	2.2	(s)	528.1	0.1	528.2
Montana	0.0	3.6	0.4	32.4	4.8	0.2	1.2	55.1	0.0	94.0	0.0	0.0	97.6	0.0	97.6
Nebraska	0.0	3.2	0.4	53.8	7.0	0.3	2.1	90.8	0.0	154.4	1.4	0.0	157.7	0.0	157.7
Nevada	0.0	0.7	0.5	25.2	38.6	0.2	0.5	89.5	0.0	154.5	0.0	0.0	155.2	0.0	155.2
New Hampshire	0.0	1.0	0.2	7.9	1.9	0.1	0.4	66.7	0.1	77.3	0.0	0.0	78.3	0.0	78.3
New Jersey	0.0	2.6	0.8	99.5	274.2	0.5	4.3	425.2	40.1	844.6	0.2	0.3	847.5	0.7	848.2
New Mexico	0.0	59.2	0.3	33.7	14.6	0.5	1.3	106.1	0.0	156.5	0.4	0.0	215.6	0.0	215.6
New York	0.0	6.3	0.5	130.4	32.3	1.0	6.4	667.2	19.9	857.8	0.5	7.6	871.6	15.8	887.4
North Carolina	0.0	6.0	0.7	115.4	24.5	1.0	3.8	433.4	1.3	580.2	0.8	0.0	586.2	0.0	586.2
North Dakota	0.0	4.5	0.2	23.7	4.6	0.1	0.9	40.4	0.0	69.9	0.5	0.0	74.4	0.0	74.4
Ohio	0.0	18.6	0.9	167.9	66.1	1.7	8.6	586.6	0.4	832.2	14.3	0.1	850.9	0.3	851.2
Oklahoma	0.0	27.0	0.4	79.0	58.1	0.5	4.7	212.2	0.0	354.9	0.0	0.0	381.9	0.0	381.9
Oregon	0.0	6.1	0.8	60.9	26.4	0.8	3.2	175.0	24.7	291.7	0.0	(s)	297.8	0.1	297.9
Pennsylvania	0.0	39.3	0.7	169.3	66.5	1.3	7.9	570.4	37.7	853.7	1.4	1.0	894.1	2.1	896.2
Rhode Island	0.0	0.4	0.1	7.5	3.0	0.1	0.4	45.0	0.1	56.1	0.0	0.0	56.5	0.0	56.5
South Carolina	0.0	2.7	0.6	73.3	8.1	0.5	1.6	235.4	0.5	320.0	0.0	0.0	322.8	0.0	322.8
South Dakota	0.0	2.6	0.2	19.3	7.1	0.1	0.9	49.2	0.0	76.9	1.4	0.0	79.5	0.0	79.5
Tennessee	0.0	18.7	2.0	112.0	44.0	0.9	4.1	326.1	(s)	489.1	2.2	(s)	507.7	(s)	507.8
Texas	0.0	99.8	3.9	395.4	472.5	2.2	11.5	1,129.1	120.6	2,135.1	1.0	0.0	2,234.9	0.0	2,234.9
Utah	0.0	3.1	0.4	34.7	29.7	0.2	1.2	100.4	0.0	166.6	0.0	0.0	169.6	0.0	169.6
Vermont	0.0	(s)	0.1	10.2	0.8	0.1	0.3	37.1	0.0	48.6	0.0	0.0	48.6	0.0	48.6
Virginia	0.0	6.6	0.5	110.0	68.0	0.7	3.2	390.1	12.4	584.9	0.7	0.2	591.8	0.5	592.3
Washington	0.0	6.9	1.6	79.7	121.7	1.1	3.0	298.8	93.1	599.1	5.8	0.1	606.0	0.1	606.1
West Virginia	0.0	32.1	0.1	39.0	1.3	0.1	1.5	103.8	0.0	145.8	0.1	0.0	177.9	0.0	177.9
Wisconsin	0.0	10.0	1.4	85.4	11.1	1.1	3.2	273.5	0.1	375.8	1.0	(s)	385.8	(s)	385.8
Wyoming	0.0	6.6	0.2	39.9	0.8	0.1	0.9	38.1	0.0	80.1	0.5	0.0	86.7	0.0	86.7
United States	0.0	708.1	38.1	4,175.0	3,154.5	32.2	170.8	14,355.7	896.0	22,822.4	97.8	13.5	23,544.0	28.2	23,572.2

[a] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[b] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector. The U.S. total equals the sum of the State data plus 18.2 trillion Btu that could not be allocated to specific States.

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

(s)=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, 1994
(Trillion Btu)

State	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [d]	Biofuels	Geothermal Energy [e]	Other [f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b]	Light Oil [c]	Petroleum Coke	Total						
Alabama	624.1	0.0	624.1	3.9	0.0	1.3	0.0	1.3	218.6	117.4	0.0	0.0	0.0	965.3
Alaska	4.3	0.0	4.3	29.0	1.8	3.3	0.0	5.1	0.0	13.8	0.0	0.0	0.0	52.2
Arizona	387.6	0.0	387.6	24.3	1.0	0.4	0.0	1.4	247.4	78.8	0.0	0.0	0.0	739.4
Arkansas	213.3	0.0	213.3	25.6	0.3	0.7	0.0	1.0	148.6	35.6	0.0	0.0	0.0	424.2
California	**0.0**	**0.0**	**0.0**	**618.7**	**17.9**	**0.6**	**0.0**	**18.6**	**360.3**	**246.0**	**(s)**	**141.1**	**(s)**	**1,424.2**
Colorado	330.1	0.0	330.1	5.1	(s)	0.1	0.0	0.2	0.0	15.8	0.0	0.0	0.0	351.2
Connecticut	21.5	0.0	21.5	8.1	35.2	0.5	0.0	35.7	215.2	10.6	4.5	0.0	0.0	299.8
Delaware	52.0	0.0	52.0	18.0	15.6	1.4	0.0	17.0	0.0	0.0	0.0	0.0	0.0	87.1
Dist. of Col.	0.0	0.0	0.0	0.0	3.6	0.6	0.0	4.1	0.0	0.0	0.0	0.0	0.0	4.1
Florida	608.7	0.0	608.7	182.5	327.3	7.7	0.0	334.9	284.9	2.8	0.0	0.0	0.0	1,413.8
Georgia	**642.7**	**0.0**	**642.7**	**1.1**	**0.4**	**1.7**	**0.0**	**2.1**	**308.8**	**49.9**	**0.0**	**0.0**	**0.0**	**1,004.6**
Hawaii	0.0	0.0	0.0	0.0	52.2	12.2	0.0	64.5	0.0	0.2	0.0	0.0	0.0	64.7
Idaho	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	76.2	0.0	0.0	0.0	77.0
Illinois	663.8	0.0	663.8	35.3	12.5	3.6	0.0	16.1	775.7	0.5	0.0	0.0	0.0	1,491.3
Indiana	1,065.1	0.0	1,065.1	9.2	0.0	2.4	0.0	2.4	0.0	4.2	0.0	0.0	0.0	1,080.9
Iowa	291.0	0.0	291.0	2.7	0.0	1.1	0.0	1.1	43.9	10.8	0.3	0.0	(s)	349.7
Kansas	**295.9**	**0.0**	**295.9**	**26.8**	**0.1**	**0.8**	**0.0**	**0.8**	**91.1**	**0.0**	**0.0**	**0.0**	**(s)**	**414.6**
Kentucky	807.6	0.0	807.6	0.4	0.0	1.8	0.0	1.8	0.0	41.2	0.0	0.0	0.0	851.0
Louisiana	219.3	0.0	219.3	289.9	2.1	0.6	5.5	8.2	136.4	0.0	0.0	0.0	0.0	653.8
Maine	0.0	0.0	0.0	0.0	8.0	0.1	0.0	8.1	70.8	39.4	0.0	0.0	0.0	128.3
Maryland	249.2	0.0	249.2	13.3	41.4	6.1	0.0	47.4	119.9	20.6	0.0	0.0	0.0	450.5
Massachusetts	98.5	0.0	98.5	40.0	94.2	3.1	0.0	97.3	41.2	26.5	0.0	0.0	0.0	319.9
Michigan	**679.7**	**0.0**	**679.7**	**7.3**	**7.0**	**1.9**	**0.0**	**8.9**	**151.0**	**50.9**	**0.0**	**0.0**	**0.0**	**925.9**
Minnesota	300.7	0.0	300.7	5.9	0.0	0.6	6.0	6.6	130.5	56.7	4.3	0.0	(s)	529.0
Mississippi	90.2	0.0	90.2	86.1	10.6	0.3	0.0	10.9	102.6	0.0	0.0	0.0	0.0	289.8
Missouri	512.6	0.0	512.6	4.4	0.2	1.5	7.3	8.9	106.8	18.9	0.1	0.0	0.0	651.7
Montana	178.7	0.0	178.7	0.7	0.0	0.2	0.0	0.2	0.0	83.9	0.4	0.0	0.0	264.5
Nebraska	152.2	0.0	152.2	3.0	(s)	0.3	0.0	0.3	67.7	13.5	0.1	0.0	0.0	236.8
Nevada	**175.5**	**0.0**	**175.5**	**33.3**	**1.5**	**0.3**	**0.0**	**1.8**	**0.0**	**19.2**	**0.0**	**0.0**	**0.0**	**229.9**
New Hampshire	33.3	0.0	33.3	1.3	15.2	0.2	0.0	15.3	66.2	17.4	0.0	0.0	0.0	138.0
New Jersey	50.4	0.0	50.4	44.1	16.3	3.7	0.0	20.0	236.3	-1.7	0.0	0.0	0.0	349.0
New Mexico	276.7	0.0	276.7	32.9	(s)	0.3	0.0	0.3	0.0	2.2	0.0	0.0	0.0	312.0
New York	217.6	0.0	217.6	188.2	111.4	5.5	0.0	116.9	312.1	341.5	0.1	0.0	0.0	1,221.6
North Carolina	512.1	0.0	512.1	0.9	0.0	2.6	0.0	2.6	345.3	57.6	0.0	0.0	0.0	918.5
North Dakota	**306.5**	**0.0**	**306.5**	**(s)**	**0.0**	**0.7**	**0.0**	**0.7**	**0.0**	**24.2**	**0.0**	**0.0**	**0.0**	**333.7**
Ohio	1,189.0	0.0	1,189.0	2.9	0.2	4.9	0.0	5.1	116.9	1.9	0.0	0.0	0.0	1,315.8
Oklahoma	290.8	0.0	290.8	158.3	(s)	0.1	0.0	0.1	0.0	25.3	0.0	0.0	0.0	474.6
Oregon	41.7	0.0	41.7	26.4	0.0	0.1	0.0	0.1	0.0	342.3	0.0	0.0	0.0	426.6
Pennsylvania	919.9	16.5	936.4	13.1	47.0	8.2	6.6	61.8	717.5	15.5	0.0	0.0	0.0	1,744.4
Rhode Island	0.0	0.0	0.0	0.6	0.4	0.1	0.0	0.5	0.0	3.4	0.0	0.0	0.0	6.7
South Carolina	**270.7**	**0.0**	**270.7**	**3.1**	**0.1**	**1.6**	**0.0**	**1.6**	**474.7**	**24.1**	**0.0**	**0.0**	**0.0**	**774.2**
South Dakota	31.1	0.0	31.1	0.2	0.0	0.3	0.0	0.3	0.0	54.9	0.0	0.0	0.0	87.9
Tennessee	518.0	0.0	518.0	1.1	0.0	3.0	0.0	3.0	127.4	106.8	0.0	0.0	0.0	756.3
Texas	1,299.9	0.0	1,299.9	1,073.3	2.2	1.3	(s)	3.5	306.9	15.7	3.1	0.0	(s)	2,692.5
Utah	327.9	0.0	327.9	9.3	0.0	0.3	0.0	0.3	0.0	7.4	0.0	4.1	0.0	349.0
Vermont	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.1	46.1	18.9	0.7	0.0	0.0	69.0
Virginia	**221.6**	**0.0**	**221.6**	**19.9**	**21.1**	**2.8**	**0.0**	**23.9**	**271.5**	**3.4**	**0.0**	**0.0**	**(s)**	**540.3**
Washington	101.1	0.0	101.1	2.6	0.0	0.1	0.0	0.1	72.0	653.3	4.1	0.0	0.0	826.6
West Virginia	756.0	0.0	756.0	0.2	0.0	2.5	0.0	2.5	0.0	3.7	0.0	0.0	0.0	762.4
Wisconsin	376.8	0.0	376.8	3.9	0.0	1.3	1.0	2.2	122.9	27.0	2.7	0.0	0.0	540.3
Wyoming	444.4	0.0	444.4	0.1	0.0	0.5	0.0	0.5	0.0	9.2	0.0	0.0	0.0	454.3
United States	**16,850.1**	**16.5**	**16,866.6**	**3,057.0**	**846.6**	**95.2**	**26.3**	**968.2**	**6,837.3**	**2,787.5**	**20.4**	**145.2**	**(s)**	**30,868.9**

[a] Includes supplemental gaseous fuels.
[b] Heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[c] Light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[d] Includes net imports of hydroelectricity. A negative number in this column results from pumped storage for which, overall, more electricity is expended than created to provide electricity during peak demand periods.
[e] Includes net imports of electricity generated from geothermal energy.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] Includes 149.3 trillion Btu of net imports of electricity generated from nonrenewable energy sources not shown in other columns.
(s)=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 by Sector, Ranked by State, 1994

Rank	Residential Sector		Commercial Sector		Industrial Sector		Transportation Sector		Total Consumption	
	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu
1	California	1,353.5	California	1,174.0	Texas	5,929.2	California	2,758.4	Texas	10,387.6
2	Texas	1,195.8	New York	1,051.2	Louisiana	2,515.3	Texas	2,234.9	California	7,554.8
3	New York	1,054.4	Texas	1,027.7	California	2,268.9	Florida	1,188.6	Ohio	3,954.1
4	Florida	919.6	Florida	719.6	Ohio	1,634.5	Pennsylvania	896.2	New York	3,867.4
5	Illinois	898.3	Illinois	682.4	Pennsylvania	1,464.8	New York	887.4	Pennsylvania	3,830.7
6	Pennsylvania	897.4	Ohio	601.4	Illinois	1,322.0	Ohio	851.2	Louisiana	3,817.0
7	Ohio	867.0	Pennsylvania	572.4	Indiana	1,169.0	New Jersey	848.2	Illinois	3,694.7
8	Michigan	734.9	Michigan	538.5	Michigan	1,060.8	Illinois	792.0	Florida	3,382.1
9	New Jersey	552.5	New Jersey	497.6	Alabama	957.2	Louisiana	781.2	Michigan	3,085.5
10	North Carolina	508.2	Virginia	411.4	Tennessee	886.6	Georgia	762.1	New Jersey	2,546.6
11	Georgia	487.1	North Carolina	371.8	New York	874.4	Michigan	751.2	Indiana	2,523.6
12	Virginia	471.7	Georgia	352.7	Kentucky	802.1	Indiana	609.2	Georgia	2,377.6
13	Indiana	460.7	Massachusetts	351.9	Washington	781.8	Washington	606.1	North Carolina	2,214.2
14	Massachusetts	433.7	Missouri	307.8	Georgia	775.8	Virginia	592.3	Washington	2,082.6
15	Tennessee	432.4	Washington	297.6	North Carolina	747.9	North Carolina	586.2	Virginia	1,996.0
16	Missouri	413.7	Indiana	284.7	Wisconsin	703.6	Missouri	528.2	Tennessee	1,953.2
17	Washington	397.2	Wisconsin	251.4	New Jersey	648.3	Tennessee	507.8	Alabama	1,882.4
18	Wisconsin	372.6	Colorado	221.8	South Carolina	604.6	Alabama	440.7	Wisconsin	1,713.4
19	Maryland	356.1	Arizona	219.2	Minnesota	590.8	Minnesota	423.2	Kentucky	1,704.6
20	Minnesota	339.9	Louisiana	216.5	Oklahoma	567.9	Kentucky	414.2	Missouri	1,611.1
21	Alabama	318.1	Maryland	214.3	Florida	554.2	Massachusetts	397.0	Minnesota	1,553.1
22	Louisiana	303.9	Minnesota	199.2	Virginia	520.6	Wisconsin	385.8	Massachusetts	1,487.5
23	Kentucky	300.5	Kentucky	187.9	Kansas	461.9	Oklahoma	381.9	Oklahoma	1,381.6
24	South Carolina	257.5	Connecticut	183.3	Mississippi	432.7	Arizona	370.3	South Carolina	1,359.6
25	Oklahoma	251.8	Oklahoma	179.9	Iowa	409.8	Maryland	346.0	Maryland	1,283.0
26	Connecticut	246.2	South Carolina	174.7	Arkansas	408.7	Mississippi	337.1	Kansas	1,071.6
27	Arizona	237.3	Oregon	169.7	West Virginia	407.7	South Carolina	322.8	Mississippi	1,062.6
28	Colorado	229.6	Kansas	167.1	Alaska	375.7	Colorado	313.8	Colorado	1,049.0
29	Iowa	222.0	Alabama	166.4	Maryland	366.6	Oregon	297.9	Oregon	1,038.2
30	Oregon	220.7	Iowa	146.1	Missouri	361.3	Arkansas	260.6	Arizona	1,033.3
31	Kansas	190.8	Tennessee	126.4	Oregon	349.9	Iowa	252.0	Iowa	1,030.0
32	Mississippi	187.0	Nebraska	116.8	Massachusetts	304.9	Kansas	251.7	Arkansas	956.5
33	Arkansas	177.0	Arkansas	110.2	Maine	299.9	New Mexico	215.6	West Virginia	817.1
34	West Virginia	141.2	District of Columbia	110.0	Colorado	283.7	Connecticut	207.8	Connecticut	796.9
35	Nebraska	130.1	Mississippi	105.9	Wyoming	245.9	West Virginia	177.9	Alaska	633.3
36	Utah	110.2	Utah	99.8	Utah	215.1	Utah	169.6	Utah	594.8
37	Nevada	100.4	New Mexico	96.3	Arizona	206.4	Nebraska	157.7	New Mexico	590.4
38	Maine	85.6	West Virginia	90.3	New Mexico	198.0	Nevada	155.2	Nebraska	558.7
39	Idaho	84.9	Nevada	80.0	Nevada	178.8	Alaska	150.7	Maine	546.9
40	New Mexico	80.5	Idaho	77.3	North Dakota	175.2	Hawaii	135.5	Nevada	514.4
41	New Hampshire	76.5	Alaska	60.0	Idaho	173.6	Maine	108.0	Idaho	441.2
42	Rhode Island	69.1	Maine	53.4	Connecticut	159.6	Idaho	105.4	Wyoming	410.3
43	Montana	61.6	Montana	53.4	Montana	156.2	Montana	97.6	Montana	368.8
44	South Dakota	54.8	New Hampshire	53.3	Nebraska	154.1	Wyoming	86.7	North Dakota	344.0
45	North Dakota	54.5	Rhode Island	50.2	Delaware	109.8	South Dakota	79.5	New Hampshire	285.5
46	Delaware	53.7	Wyoming	41.4	New Hampshire	77.4	New Hampshire	78.3	Delaware	265.4
47	Alaska	46.9	North Dakota	40.0	Hawaii	75.2	North Dakota	74.4	Hawaii	259.6
48	Vermont	44.0	Delaware	38.1	Rhode Island	72.4	Delaware	63.9	Rhode Island	248.1
49	Wyoming	36.3	South Dakota	36.9	South Dakota	59.9	Rhode Island	56.5	South Dakota	231.1
50	District of Columbia	35.5	Vermont	25.8	Vermont	34.2	Vermont	48.6	District of Columbia	176.0
51	Hawaii	23.4	Hawaii	25.4	District of Columbia	3.5	District of Columbia	26.9	Vermont	152.6
	United States	**17,623.2**	**United States**	**13,431.2**	**United States**	**34,161.9**	**United States**	**23,572.2**	**United States**	**88,788.6**

Source: State Energy Data System 1994.

Table 10. Energy Consumption by Source and Total Consumption per Capita, Ranked by State, 1994

Rank	Coal		Natural Gas		Petroleum		Electricity[1]		Total Consumption per Capita	
	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Million Btu
1	Texas	1,382.8	Texas	3,802.0	Texas	4,811.1	Texas	880.9	Alaska	1,050.8
2	Ohio	1,377.1	California	2,172.1	California	3,265.8	California	729.1	Louisiana	884.3
3	Pennsylvania	1,357.8	Louisiana	1,688.7	Florida	1,686.1	Florida	544.4	Wyoming	861.9
4	Indiana	1,299.0	Illinois	1,046.4	Louisiana	1,554.2	Ohio	526.7	Texas	564.1
5	Kentucky	897.5	New York	1,040.8	New York	1,513.8	New York	447.6	North Dakota	538.2
6	West Virginia	870.3	Michigan	945.5	Pennsylvania	1,348.3	Pennsylvania	419.8	West Virginia	448.1
7	Illinois	818.9	Ohio	874.5	New Jersey	1,259.1	Illinois	414.5	Alabama	446.1
8	Michigan	794.0	Pennsylvania	723.3	Illinois	1,228.3	North Carolina	340.5	Kentucky	445.3
9	Alabama	770.6	New Jersey	607.7	Ohio	1,191.2	Michigan	311.0	Maine	441.3
10	Georgia	691.9	Oklahoma	588.1	Michigan	973.2	Georgia	306.8	Indiana	438.5
11	Florida	641.7	Indiana	526.1	Georgia	916.8	Washington	297.3	Montana	430.8
12	Tennessee	622.9	Kansas	417.2	Indiana	878.4	Indiana	286.0	Oklahoma	424.2
13	North Carolina	578.8	Alaska	403.6	Washington	817.5	Tennessee	281.6	Kansas	420.1
14	Missouri	542.3	Florida	392.5	North Carolina	795.9	Virginia	280.5	Mississippi	397.9
15	Wyoming	489.5	Wisconsin	359.9	Virginia	770.5	Kentucky	247.3	Washington	390.1
16	Wisconsin	426.0	Georgia	351.6	Massachusetts	712.8	Louisiana	239.3	Arkansas	389.9
17	North Dakota	402.4	Massachusetts	346.1	Missouri	681.3	Alabama	230.6	Idaho	388.9
18	Arizona	402.3	Minnesota	327.4	Tennessee	654.9	New Jersey	226.1	Tennessee	377.3
19	Utah	376.5	Alabama	297.5	Kentucky	608.7	South Carolina	211.1	Delaware	374.9
20	Colorado	349.1	Mississippi	277.9	Minnesota	594.3	Missouri	203.7	South Carolina	373.2
21	Iowa	346.9	Colorado	277.1	Alabama	563.1	Wisconsin	189.1	Iowa	363.8
22	Minnesota	332.1	Missouri	269.2	Wisconsin	531.1	Maryland	186.8	New Mexico	356.7
23	South Carolina	330.7	Tennessee	254.0	Maryland	526.0	Minnesota	174.5	Ohio	356.1
24	Virginia	326.5	Iowa	250.3	Oklahoma	478.9	Arizona	161.3	Nevada	351.8
25	Oklahoma	307.0	Arkansas	249.8	South Carolina	428.3	Massachusetts	157.3	Nebraska	343.9
26	Kansas	300.0	Virginia	239.3	Mississippi	416.4	Oregon	153.4	Minnesota	340.0
27	New York	297.3	Washington	221.5	Arizona	386.1	Oklahoma	140.4	Wisconsin	337.1
28	New Mexico	278.3	New Mexico	221.4	Colorado	383.8	Mississippi	125.0	Georgia	336.9
29	Maryland	268.9	Kentucky	221.3	Connecticut	381.5	Colorado	117.7	Oregon	336.3
30	Louisiana	230.8	North Carolina	194.6	Iowa	371.4	Iowa	112.7	Michigan	325.1
31	Arkansas	221.9	Maryland	189.4	Oregon	362.6	Arkansas	111.3	New Jersey	322.3
32	Montana	189.3	West Virginia	154.7	Kansas	359.8	Kansas	101.0	South Dakota	319.5
33	Nevada	180.1	Oregon	152.3	Arkansas	308.8	Connecticut	95.6	Pennsylvania	317.6
34	Nebraska	160.3	South Carolina	149.0	West Virginia	271.6	West Virginia	84.5	Illinois	314.2
35	Washington	106.9	Utah	146.3	Maine	249.2	Nevada	68.4	North Carolina	313.2
36	Massachusetts	100.7	Arizona	137.1	Hawaii	237.2	Idaho	67.8	Utah	311.6
37	Mississippi	97.3	Nebraska	124.8	New Mexico	228.3	Nebraska	67.8	District of Columbia	310.3
38	California	58.0	Connecticut	123.6	Utah	216.6	Utah	60.9	Missouri	305.2
39	Delaware	57.5	Wyoming	112.3	Nebraska	215.7	New Mexico	54.1	Virginia	304.7
40	New Jersey	52.4	Nevada	105.4	Alaska	200.2	Montana	45.0	Colorado	286.5
41	Oregon	44.6	Rhode Island	73.3	Nevada	191.1	Wyoming	39.9	Vermont	263.0
42	South Dakota	39.2	Idaho	59.1	Montana	159.4	Maine	39.6	Maryland	256.6
43	New Hampshire	33.5	Montana	53.3	New Hampshire	149.4	District of Columbia	35.1	Arizona	253.3
44	Connecticut	22.5	Delaware	50.4	Idaho	137.6	Delaware	31.7	New Hampshire	251.4
45	Alaska	12.6	North Dakota	45.3	Delaware	137.0	New Hampshire	30.6	Rhode Island	249.5
46	Maine	11.6	South Dakota	31.3	Wyoming	127.9	Hawaii	30.5	Massachusetts	246.2
47	Idaho	9.7	District of Columbia	31.2	North Dakota	120.9	North Dakota	26.2	Connecticut	243.4
48	Hawaii	1.8	New Hampshire	20.0	South Dakota	113.9	South Dakota	24.5	Florida	242.3
49	District of Columbia	1.2	Vermont	7.3	Rhode Island	101.7	Rhode Island	22.4	California	240.5
50	Vermont	0.1	Maine	5.1	Vermont	78.9	Vermont	17.3	Hawaii	220.3
51	Rhode Island	0.1	Hawaii	2.9	District of Columbia	37.7	Alaska	15.5	New York	213.0
	United States	**19,511.1**	**United States**	**21,361.8**	**United States**	**34,733.9**	**United States**	**10,012.7**	**United States**	**341.0**

[1] Electricity sold to end users, not including the losses incurred in the generation, transmission, and distribution of the electricity.

Source: State Energy Data System 1994.

United States Summaries

Table 11. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, United States

Year	Coal	Net Imports of Coal Coke	Natural Gas [a]	Petroleum										Nuclear Electric Power	Hydroelectric Power [c,d]	Biofuels [e]	Other [c,f]	Total [g]
				Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG	Lubricants	Motor Gasoline	Residual Fuel	Other [b]	Total					
	Million Short Tons		Billion Cubic Feet	Million Barrels											Billion Kilowatthours			
1960	398	(s)	11,967	111	59	685	136	99	227	43	1,453	559	214	3,586	1	154	(s)	(s)	–
1965	472	-1	15,280	134	44	776	220	98	307	47	1,676	587	313	4,202	4	197	(s)	(s)	–
1970	523	-2	21,139	163	20	927	353	96	447	50	2,111	804	393	5,364	22	253	(s)	1	–
1971	502	-1	21,793	167	18	971	369	91	457	49	2,195	838	397	5,553	38	273	(s)	1	–
1972	524	-1	22,101	171	17	1,066	382	86	520	53	2,334	926	436	5,990	54	284	(s)	1	–
1973	563	(s)	22,049	190	17	1,129	387	79	529	59	2,436	1,030	462	6,317	83	290	(s)	2	–
1974	558	2	21,223	176	16	1,076	363	64	513	57	2,386	963	464	6,078	114	317	(s)	2	–
1975	563	1	19,538	153	14	1,041	365	58	486	50	2,436	899	455	5,958	173	309	(s)	3	–
1976	604	(s)	19,946	150	13	1,147	361	62	514	56	2,554	1,025	508	6,391	191	296	(s)	4	–
1977	625	1	19,521	159	14	1,223	379	64	519	58	2,620	1,121	570	6,727	251	241	(s)	4	–
1978	625	5	19,627	175	14	1,253	386	64	516	63	2,705	1,103	601	6,879	276	303	(s)	3	–
1979	681	3	20,241	174	14	1,208	393	69	581	66	2,568	1,032	654	6,757	255	303	(s)	4	–
1980	703	-1	19,877	145	13	1,049	391	58	538	58	2,408	918	665	6,242	251	300	(s)	5	–
1981	733	-1	19,404	125	11	1,032	368	46	535	56	2,404	762	521	5,861	273	297	(s)	6	–
1982	707	-1	18,001	125	9	975	370	47	547	51	2,387	627	446	5,583	283	342	(s)	5	–
1983	737	-1	16,835	136	9	982	382	46	551	53	2,417	519	464	5,559	294	371	(s)	6	–
1984	791	(s)	17,951	150	9	1,041	430	42	576	57	2,449	501	501	5,756	328	364	1	8	–
1985	818	-1	17,281	155	10	1,047	445	42	584	53	2,493	439	473	5,740	384	325	1	9	–
1986	804	-1	16,221	164	12	1,064	477	36	552	52	2,567	518	501	5,942	414	330	1	10	–
1987	837	(s)	17,211	170	9	1,086	506	35	588	59	2,630	462	538	6,083	455	299	1	11	–
1988	884	2	18,030	171	10	1,143	530	35	606	57	2,685	504	585	6,326	527	258	2	10	–
1989	890	1	18,801	165	9	1,152	544	31	609	58	2,675	500	581	6,324	529	279	2	9	–
1990	895	(s)	18,716	176	9	1,103	556	16	568	60	2,641	449	625	6,201	577	R [h] NA	[h] NA	[h] NA	–
1991	888	(s)	19,035	162	8	1,066	537	17	616	53	2,623	423	594	6,101	613	R NA	NA	NA	–
1992	892	1	19,544	166	8	1,090	532	15	642	54	2,660	401	665	6,234	619	R NA	NA	NA	–
1993	926	1	R 20,279	173	8	1,110	536	18	633	55	2,729	394	635	6,291	610	R NA	NA	NA	–
1994	930	1	20,755	177	8	1,154	557	18	686	58	2,774	373	662	6,467	640	NA	NA	NA	–
	Trillion Btu																		
1960	9,830.5	-5.6	12,385.4	733.8	297.9	3,991.7	738.5	563.3	911.7	258.8	7,630.8	3,517.2	1,275.7	19,919.3	6.0	1,656.8	1.5	0.8	43,794.6
1965	11,582.4	-18.5	15,779.5	890.3	221.6	4,519.1	1,214.5	553.3	1,231.8	285.8	8,805.6	3,690.5	1,833.2	23,245.7	43.2	2,057.6	2.8	4.2	52,696.9
1970	12,268.9	-57.7	21,692.7	1,082.5	100.5	5,401.0	1,972.7	544.2	1,688.5	301.4	11,090.9	5,056.6	2,283.4	29,521.6	239.3	2,654.1	3.7	11.3	66,334.1
1971	11,603.2	-33.1	22,365.2	1,108.3	90.3	5,657.9	2,060.8	515.5	1,722.9	299.1	11,531.7	5,268.8	2,308.6	30,564.0	412.9	2,861.1	3.3	11.9	67,788.6
1972	12,109.5	-26.0	22,682.5	1,136.9	85.4	6,210.1	2,140.8	486.8	1,954.6	320.3	12,259.3	5,819.5	2,533.1	32,947.0	583.8	2,943.6	3.4	31.5	71,275.3
1973	12,960.1	-7.5	22,595.3	1,263.7	83.4	6,574.8	2,167.2	447.4	1,980.7	358.9	12,797.1	6,476.7	2,687.4	34,837.5	910.2	3,009.8	3.4	42.6	74,351.5
1974	12,651.0	56.1	21,729.6	1,165.4	81.9	6,267.2	2,030.4	364.9	1,913.8	343.7	12,534.6	6,055.7	2,696.4	33,453.9	1,272.1	3,309.1	2.6	53.2	72,527.6
1975	12,655.6	13.5	19,977.1	1,014.2	71.0	6,061.3	2,047.1	328.8	1,807.1	304.3	12,797.5	5,649.3	2,651.5	32,732.2	1,899.8	3,219.0	2.0	70.2	70,569.3
1976	13,575.9	-0.1	20,381.2	998.1	67.5	6,679.5	2,026.0	351.1	1,907.3	338.0	13,415.3	6,445.1	2,949.9	35,177.8	2,111.1	3,065.6	2.8	78.2	74,392.4
1977	13,907.1	14.6	19,972.5	1,056.4	70.3	7,125.9	2,126.5	362.7	1,907.9	353.7	13,760.4	7,047.3	3,312.9	37,123.9	2,701.8	2,515.0	5.0	77.4	76,317.2
1978	13,769.7	124.7	20,067.7	1,159.6	71.5	7,296.1	2,163.8	363.1	1,891.9	379.8	14,211.0	6,936.0	3,490.0	37,962.9	3,024.1	3,141.4	3.5	64.3	78,158.4
1979	15,041.7	62.8	20,687.6	1,153.0	70.3	7,039.3	2,203.6	388.8	2,138.1	397.4	13,487.5	6,485.4	3,758.8	37,122.3	2,775.8	3,141.2	5.2	83.8	78,920.4
1980	15,461.0	-35.0	20,384.0	962.2	64.3	6,110.3	2,190.4	328.7	1,976.0	353.9	12,647.9	5,771.6	3,799.1	34,204.4	2,739.2	3,117.5	4.5	109.8	75,985.3
1981	15,937.7	-15.9	19,928.4	827.8	56.3	6,014.2	2,062.2	262.6	1,948.9	339.4	12,630.6	4,790.9	2,999.4	31,932.1	3,007.6	3,105.4	3.8	123.0	74,022.2
1982	15,269.0	-21.7	18,515.2	829.4	47.0	5,678.6	2,071.5	266.3	1,978.4	309.5	12,538.0	3,938.9	2,574.8	30,232.4	3,131.1	3,572.0	3.4	104.7	70,806.3
1983	15,867.1	-15.6	17,347.8	904.1	47.7	5,719.7	2,140.9	262.8	1,990.2	324.0	12,696.9	3,260.5	2,705.3	30,052.1	3,202.5	3,898.9	4.0	129.4	70,486.1
1984	17,013.6	-11.5	18,502.8	992.1	43.9	6,065.1	2,413.7	239.2	2,071.2	345.5	12,867.0	3,151.0	2,864.3	31,053.1	3,552.5	3,799.9	9.2	165.0	74,084.7
1985	17,540.1	-13.5	17,843.0	1,029.5	50.3	6,097.8	2,496.9	235.7	2,102.7	322.0	13,097.6	2,759.0	2,733.2	30,924.7	4,148.8	3,397.8	14.4	198.5	74,053.8
1986	17,240.9	-16.7	16,718.4	1,085.7	58.9	6,196.3	2,682.4	203.3	2,009.5	314.9	13,486.7	3,254.9	2,905.4	32,198.0	4,471.2	3,446.2	12.3	219.4	74,289.6
1987	17,949.9	8.6	17,749.7	1,130.0	45.6	6,328.4	2,842.8	195.7	2,152.5	356.0	13,815.9	2,901.5	3,095.5	32,863.9	4,906.0	3,117.3	15.4	229.3	76,840.0
1988	18,885.7	39.6	18,562.9	1,136.3	49.0	6,655.1	2,981.8	199.6	2,213.4	343.3	14,105.1	3,170.4	3,369.2	34,223.1	5,661.3	2,662.3	17.3	217.4	80,269.4
1989	18,916.6	30.4	19,386.1	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	2,880.5	20.3	197.1	81,316.9
1990	18,996.5	4.8	19,280.3	1,170.2	45.0	6,422.1	3,129.5	88.0	2,058.9	362.3	13,871.8	2,819.9	3,583.9	33,551.6	6,160.9	R [h] 3,102.8	[h] 2,633.2	[h] 417.3	R [h] 83,952.6
1991	18,753.6	8.9	19,605.0	1,076.5	41.7	6,209.9	3,025.0	95.8	2,227.4	324.2	13,781.0	2,657.0	3,407.3	32,845.8	6,578.9	R 3,133.7	2,642.2	432.1	R 83,959.6
1992	18,846.2	27.2	20,138.7	1,102.2	41.1	6,350.8	3,001.3	85.9	2,328.2	330.5	13,972.5	2,518.1	3,794.2	33,524.9	6,607.3	R 2,809.4	2,787.6	457.0	R 85,158.0
1993	19,482.8	17.3	R 20,848.2	1,149.0	38.4	6,466.0	3,028.0	102.7	2,282.3	336.5	14,334.6	2,478.7	3,625.9	33,842.2	6,519.1	R 3,096.3	2,784.5	474.5	R 87,006.9
1994	19,511.1	23.6	21,361.8	1,172.9	38.1	6,723.3	3,154.5	101.3	2,493.9	351.7	14,574.4	2,342.5	3,781.2	34,733.9	6,837.3	2,923.3	2,852.2	480.9	88,788.6

[a] Includes supplemental gaseous fuels.
[b] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[c] The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[d] Through 1989, includes all net imports of electricity. From 1990, includes only the portion of net imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] "Other" is electricity generated from geothermal, wind, photovoltaic, and solar thermal energy. From 1990, includes net imports of electricity generated from geothermal energy.
[g] From 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. For 1994, the estimate is 149.3 trillion Btu.
[h] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, United States

Year	Coal: Bituminous Coal and Lignite	Coal: Anthracite	Coal: Total	Natural Gas [a]	Petroleum: Distillate Fuel [b]	Petroleum: Kerosene [b]	Petroleum: LPG [b]	Petroleum: Total	Biofuels [c]	Solar [d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
	Million Short Tons			Billion Cubic Feet	Million Barrels				Thousand Cords	Billion Kilowatthours				
1960	11	6	17	3,103	269	62	85	417	0	0	201	–	502	–
1965	7	4	11	3,903	294	59	108	461	0	0	291	–	695	–
1970	4	2	7	4,837	322	53	153	528	0	0	466	–	1,131	–
1971	4	2	6	4,972	326	52	155	533	0	0	500	–	1,208	–
1972	3	2	5	5,126	343	48	167	558	0	0	539	–	1,298	–
1973	3	2	5	4,879	344	40	159	543	0	0	579	–	1,388	–
1974	3	2	5	4,786	317	32	146	495	0	0	578	–	1,411	–
1975	3	1	4	4,924	310	28	142	481	0	0	588	–	1,419	–
1976	2	1	4	5,051	341	33	148	522	0	0	606	–	1,462	–
1977	2	1	4	4,821	342	30	145	517	0	0	645	–	1,559	–
1978	3	1	4	4,903	335	27	141	503	0	0	674	–	1,651	–
1979	2	1	3	4,965	279	23	96	399	0	0	683	–	1,649	–
1980	2	1	3	4,752	226	19	88	333	0	0	717	–	1,746	–
1981	2	1	3	4,546	197	15	85	297	0	0	722	–	1,722	–
1982	2	1	3	4,633	180	17	82	279	0	0	730	–	1,753	–
1983	2	1	3	4,381	159	15	98	271	0	0	751	–	1,799	–
1984	3	1	4	4,555	165	16	80	261	0	0	780	–	1,816	–
1985	2	1	3	4,433	171	28	91	290	0	0	794	–	1,866	–
1986	2	1	3	4,314	174	21	89	284	0	0	819	–	1,885	–
1987	2	1	3	4,315	177	21	98	296	0	0	850	–	1,943	–
1988	2	1	3	4,630	182	25	98	305	0	0	893	–	2,019	–
1989	2	1	2	4,781	179	21	109	308	0	0	906	–	2,031	–
1990	2	1	3	4,391	144	11	101	256	[f]29	[f]14	924	–	R 2,020	–
1991	2	1	2	4,556	143	13	108	263	31	15	955	–	R 2,077	–
1992	2	1	2	4,690	148	11	106	265	32	15	936	–	R 1,997	–
1993	2	1	2	R 4,956	157	13	111	281	30	16	995	–	R 2,099	–
1994	2	1	2	4,848	151	11	109	271	29	16	1,008	–	2,101	–
									Trillion Btu					
1960	251.9	156.4	408.3	3,211.8	1,568.2	354.1	342.9	2,265.3	0.0	0.0	687.4	6,572.7	1,711.3	8,284.0
1965	157.3	96.7	254.0	4,019.3	1,712.5	334.1	434.0	2,480.6	0.0	0.0	992.9	7,746.8	2,372.0	10,118.8
1970	96.4	56.9	153.4	4,952.6	1,877.9	298.4	578.9	2,755.2	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	289.6	1,337.1	0.0	0.0	2,661.7	8,766.1	6,197.8	14,963.9
1985	51.2	18.1	69.3	4,566.1	998.1	158.5	326.8	1,483.4	0.0	0.0	2,708.9	8,827.7	6,365.7	15,193.4
1986	51.1	18.1	69.2	4,432.3	1,012.0	121.3	323.3	1,456.7	0.0	0.0	2,794.7	8,752.9	6,430.0	15,182.9
1987	46.8	18.9	65.6	4,435.7	1,030.0	118.7	359.8	1,508.5	0.0	0.0	2,901.6	8,911.5	6,630.0	15,541.5
1988	49.1	16.8	65.9	4,757.4	1,062.9	143.5	356.4	1,562.8	0.0	0.0	3,046.5	9,432.6	6,887.9	16,320.5
1989	41.0	17.2	58.3	4,925.4	1,040.5	117.3	401.8	1,559.6	0.0	0.0	3,089.7	9,632.9	6,930.4	16,563.3
1990	43.4	18.5	61.9	4,518.7	837.4	63.9	365.0	1,266.3	[f]581.9	[f]48.1	3,152.8	R[f]9,629.6	R 6,890.9	R[f]16,520.5
1991	39.5	16.8	56.3	4,685.0	831.5	72.3	389.5	1,293.3	613.0	49.8	3,259.9	R 9,957.3	R 7,085.4	R 17,042.7
1992	40.2	16.5	56.7	4,821.1	864.9	65.0	382.5	1,312.4	645.0	51.7	3,193.4	R 10,080.3	R 6,812.5	R 16,892.8
1993	40.2	16.4	56.6	R 5,096.7	912.9	75.6	398.6	1,387.0	591.8	53.3	3,394.2	R 10,579.6	R 7,162.7	R 17,742.3
1994	38.6	16.4	55.1	4,980.4	880.0	64.9	395.5	1,340.4	582.0	55.2	3,440.9	10,454.0	7,169.2	17,623.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] U.S. total includes small amounts (an estimated 45.0 trillion Btu in 1994) of wood energy consumed in the commercial sector.
[d] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, United States

Year	Coal			Natural Gas [a]	Petroleum						Electricity [b]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite	Anthracite	Total		Distillate Fuel [b]	Kerosene [b]	LPG [b]	Motor Gasoline	Residual Fuel [b]	Total				
	Million Short Tons			Billion Cubic Feet	Million Barrels						Billion Kilowatthours			
1960	20	4	24	1,020	85	8	15	13	89	210	159	–	396	–
1965	12	3	15	1,444	92	9	19	15	103	238	231	–	552	–
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	14	20	42	210	664	–	1,547	–
1985	4	1	5	2,432	107	6	16	18	36	184	689	–	1,620	–
1986	4	(s)	5	2,318	102	9	16	20	46	193	715	–	1,646	–
1987	4	(s)	4	2,430	102	9	17	21	42	191	745	–	1,702	–
1988	4	(s)	4	2,670	98	5	17	21	42	183	785	–	1,774	–
1989	3	(s)	4	2,718	92	5	19	19	37	172	812	–	1,821	–
1990	4	(s)	4	2,623	84	2	18	21	37	162	839	–	R 1,834	–
1991	3	(s)	4	2,729	83	2	19	16	34	154	856	–	1,860	–
1992	3	(s)	4	2,803	80	2	19	15	30	146	851	–	R 1,815	–
1993	3	(s)	4	R 2,862	80	2	20	6	28	135	886	–	R 1,869	–
1994	3	(s)	4	2,895	80	3	19	5	28	135	914	–	1,905	–
	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
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
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	51.1	107.1	265.5	1,198.1	2,266.7	6,185.3	5,279.0	11,464.3
1985	95.1	12.1	107.2	2,503.3	624.6	32.8	57.7	96.1	227.7	1,038.9	2,352.4	6,001.9	5,528.9	11,530.8
1986	94.9	12.0	107.0	2,382.6	595.6	49.9	57.1	106.3	289.7	1,098.6	2,440.4	6,028.7	5,615.8	11,644.4
1987	86.9	12.6	99.4	2,499.1	593.5	48.7	63.5	110.2	262.5	1,078.4	2,541.5	6,218.4	5,807.7	12,026.1
1988	91.1	11.2	102.3	2,743.7	573.6	26.1	62.9	110.5	263.8	1,036.9	2,677.4	6,560.4	6,053.9	12,614.3
1989	76.2	11.5	87.7	2,799.5	535.3	27.6	70.9	101.9	230.1	965.7	2,769.3	6,622.2	6,212.5	12,834.6
1990	80.6	12.3	92.9	R 2,697.8	487.0	11.8	64.4	110.6	233.1	906.8	2,862.3	R 6,559.9	R 6,256.9	R 12,816.8
1991	73.3	11.2	84.5	R 2,807.3	481.6	12.1	68.7	85.0	213.2	860.7	2,920.4	R 6,672.9	R 6,347.9	R 13,020.8
1992	74.6	11.0	85.7	R 2,883.7	464.0	11.1	67.5	79.5	191.2	813.3	2,902.6	R 6,685.3	R 6,191.8	R 12,877.1
1993	74.6	10.9	85.5	R 2,943.7	463.9	14.0	70.3	29.6	175.0	752.8	3,021.9	R 6,803.9	R 6,377.2	R 13,181.1
1994	71.7	11.0	82.7	2,977.7	464.3	19.5	69.8	25.3	174.6	753.5	3,119.0	6,932.9	6,498.4	13,431.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of wood and solar energy sources consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, United States

Year	Coal	Net Imports of Coal Coke	Natural Gas [a]	Petroleum								Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
				Asphalt and Road Oil [b]	Distillate Fuel [b]	Kero-sene [b]	LPG [b]	Lubri-cants [b]	Motor Gasoline	Residual Fuel [b]	Other [c]	Total							
	Million Short Tons		Billion Cubic Feet	Million Barrels								Billion Kilowatthours						Total
1960	177	(s)	5,771	111	174	28	122	18	73	252	214	991	4	0	0	324	–	807	–
1965	201	-1	7,112	134	197	29	172	23	65	252	313	1,185	3	0	0	429	–	1,024	–
1970	187	-2	9,249	163	211	33	255	26	55	258	390	1,390	3	0	0	571	–	1,383	–
1971	159	-1	9,594	167	217	29	261	25	52	257	394	1,403	3	0	0	589	–	1,425	–
1972	161	-1	9,624	171	237	28	310	27	48	280	432	1,534	3	0	0	641	–	1,543	–
1973	162	(s)	10,185	190	252	27	329	32	49	295	459	1,635	3	0	0	686	–	1,643	–
1974	155	2	9,769	176	231	22	329	31	45	275	461	1,570	3	0	0	685	–	1,670	–
1975	147	1	8,365	153	230	21	308	25	43	240	455	1,474	3	0	0	688	–	1,659	–
1976	146	(s)	8,598	150	263	22	328	27	40	290	508	1,628	3	0	0	754	–	1,817	–
1977	139	1	8,474	159	295	25	335	30	37	308	570	1,760	3	0	0	786	–	1,898	–
1978	134	5	8,405	175	300	27	336	32	34	273	599	1,777	3	0	0	809	–	1,980	–
1979	145	3	8,398	174	303	31	462	34	31	263	653	1,950	3	0	0	842	–	2,032	–
1980	127	-1	8,198	145	227	32	429	30	30	215	664	1,772	3	0	0	815	–	1,983	–
1981	128	-1	8,055	125	238	19	426	29	30	172	521	1,560	3	0	0	826	–	1,968	–
1982	105	-1	6,941	125	225	25	442	26	26	166	445	1,481	3	0	0	745	–	1,789	–
1983	103	-1	6,621	136	196	12	425	27	21	126	463	1,407	3	0	0	776	–	1,859	–
1984	118	(s)	7,231	150	205	10	470	29	30	141	499	1,534	3	0	0	838	–	1,950	–
1985	116	-1	6,867	155	204	8	469	27	41	119	472	1,495	3	0	0	837	–	1,965	–
1986	111	-1	6,502	164	206	6	440	27	39	117	500	1,499	3	0	0	831	–	1,910	–
1987	112	(s)	7,103	170	211	5	467	30	39	93	537	1,551	3	0	0	858	–	1,960	–
1988	118	2	7,479	171	210	5	485	29	37	87	583	1,607	3	0	0	896	–	2,026	–
1989	117	1	7,886	165	197	5	475	30	38	66	578	1,554	3	0	0	926	–	2,076	–
1990	115	(s)	8,255	176	203	2	443	31	35	66	621	1,578	R f NA	f NA	f NA	946	–	R 2,066	–
1991	109	(s)	8,360	162	196	2	484	27	37	53	591	1,552	R NA	NA	NA	947	–	2,056	–
1992	106	1	8,698	166	196	2	513	28	37	62	660	1,664	R NA	NA	NA	973	–	R 2,074	–
1993	106	1	R 9,153	173	189	2	498	29	34	72	629	1,625	R NA	NA	NA	977	–	R 2,061	–
1994	107	1	9,339	177	190	3	549	30	37	68	658	1,712	NA	NA	NA	1,008	–	2,099	–
				Trillion Btu															
1960	4,547.9	-5.6	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	0.0	0.0	1,106.9	17,408.8	2,754.2	20,162.9
1965	5,134.4	-18.5	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	0.0	0.0	1,462.8	20,751.0	3,492.6	24,243.6
1970	4,663.5	-57.7	9,497.5	1,082.5	1,226.2	184.7	963.9	154.7	288.1	1,623.9	2,264.2	7,788.1	34.0	0.0	0.0	1,947.8	23,873.3	4,720.2	28,593.4
1971	3,951.1	-33.1	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	0.0	0.0	2,011.2	23,672.5	4,862.3	28,534.8
1972	3,995.7	-26.0	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	0.0	0.0	2,187.0	24,606.1	5,265.3	29,871.4
1973	4,044.3	-7.5	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	0.0	0.0	2,340.9	25,965.7	5,604.4	31,570.1
1974	3,855.0	56.1	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	0.0	0.0	2,336.8	24,996.7	5,697.0	30,693.7
1975	3,657.6	13.5	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	0.0	0.0	2,346.4	22,768.4	5,660.2	28,428.6
1976	3,642.1	-0.1	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	0.0	0.0	2,572.9	24,065.1	6,198.6	30,263.7
1977	3,442.9	14.6	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	0.0	0.0	2,682.0	24,633.6	6,477.4	31,111.0
1978	3,302.4	124.7	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	0.0	0.0	2,760.6	24,688.4	6,754.3	31,442.7
1979	3,582.9	62.8	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	0.0	0.0	2,872.6	25,702.9	6,932.8	32,635.7
1980	3,155.4	-35.0	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	0.0	0.0	2,781.0	23,870.5	6,764.5	30,635.0
1981	3,147.7	-15.9	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	0.0	0.0	2,817.4	22,548.7	6,715.3	29,264.0
1982	2,544.0	-21.7	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	0.0	0.0	2,541.8	20,037.2	6,103.9	26,141.1
1983	2,489.3	-15.6	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	0.0	0.0	2,647.7	19,403.7	6,342.3	25,745.9
1984	2,843.1	-11.5	7,464.2	992.1	1,192.0	57.9	1,690.5	177.7	159.9	888.6	2,856.7	8,015.3	33.0	0.0	0.0	2,858.7	21,202.8	6,652.6	27,855.3
1985	2,777.2	-13.5	7,096.0	1,029.5	1,186.3	44.3	1,690.5	165.6	217.9	747.5	2,726.2	7,807.8	33.0	0.0	0.0	2,855.1	20,555.6	6,705.7	27,261.3
1986	2,646.3	-16.7	6,713.9	1,085.7	1,200.6	32.1	1,603.2	161.9	206.2	736.4	2,896.0	7,922.1	33.0	0.0	0.0	2,833.8	20,132.3	6,516.4	26,648.8
1987	2,670.0	8.6	7,343.2	1,130.0	1,227.3	28.3	1,708.7	183.1	205.2	581.6	3,085.1	8,149.3	32.9	0.0	0.0	2,928.3	21,132.3	6,689.1	27,821.4
1988	2,831.3	39.6	7,720.4	1,136.3	1,220.6	29.9	1,771.9	176.5	193.2	545.7	3,356.9	8,431.2	32.6	0.0	0.0	3,058.9	22,113.9	6,914.1	29,028.0
1989	2,773.9	30.4	8,148.8	1,096.0	1,147.7	29.5	1,748.2	181.1	198.7	413.1	3,316.1	8,130.4	32.6	0.0	0.0	3,158.3	22,274.6	7,082.5	29,357.1
1990	2,753.9	4.8	8,519.7	1,170.2	1,180.9	12.3	1,607.7	186.3	184.1	417.2	3,559.2	8,317.9	R f 82.0	f 1,948.0	f 176.8	3,226.1	R f 25,029.2	R 7,048.5	R f 32,077.7
1991	2,600.4	8.9	8,637.2	1,076.5	1,139.2	11.4	1,749.3	166.7	193.3	335.9	3,385.5	8,057.8	R 83.0	1,943.0	197.0	3,229.7	R 24,757.1	R 7,016.7	R 31,773.8
1992	2,511.8	27.2	8,993.4	1,102.2	1,144.5	9.8	1,859.8	170.0	194.3	391.3	3,764.1	8,635.9	R 97.3	2,042.0	217.1	R 3,318.9	R 25,846.7	R 7,077.3	R 32,924.0
1993	2,499.6	17.3	R 9,419.6	1,149.0	1,099.7	13.1	1,794.4	173.1	179.4	451.8	3,589.1	8,449.6	R 118.3	2,084.0	244.5	R 3,334.1	R 26,167.1	R 7,030.7	R 33,197.8
1994	2,506.7	23.6	9,638.7	1,172.9	1,108.8	16.9	1,996.5	180.9	193.4	425.3	3,754.8	8,849.5	135.9	2,152.0	255.9	3,439.2	27,001.5	7,160.4	34,161.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, United States

Year	Coal	Natural Gas[a]	Petroleum								Biofuels[c]	Electricity[b]	Net Energy	Electrical System Energy Losses[d]	Total
			Aviation Gasoline[b]	Distillate Fuel[b]	Jet Fuel[b]	LPG[b]	Lubricants[b]	Motor Gasoline	Residual Fuel[b]	Total					
	Million Short Tons	Billion Cubic Feet	Million Barrels								Million Gallons	Billion Kilowatthours			
1960	3	347	59	153	136	5	25	1,367	134	1,880	0	3	–	8	–
1965	1	501	44	188	220	8	24	1,596	123	2,203	0	3	–	7	–
1970	(s)	722	20	269	353	12	24	2,040	121	2,839	0	3	–	6	–
1971	(s)	743	18	292	369	13	24	2,127	111	2,955	0	2	–	6	–
1972	(s)	766	17	333	374	14	26	2,269	103	3,135	0	2	–	6	–
1973	(s)	728	17	381	380	13	27	2,371	116	3,305	0	2	–	6	–
1974	(s)	669	16	378	357	12	26	2,326	111	3,226	0	3	–	6	–
1975	(s)	583	14	364	362	11	26	2,377	113	3,267	0	3	–	7	–
1976	(s)	548	13	393	357	12	28	2,495	131	3,430	0	3	–	7	–
1977	(s)	533	14	427	373	13	28	2,563	145	3,563	0	3	–	7	–
1978	0	530	14	460	381	14	30	2,651	157	3,708	0	3	–	6	–
1979	0	601	14	499	390	6	32	2,517	195	3,652	0	3	–	7	–
1980	0	635	13	480	389	5	28	2,357	222	3,494	0	3	–	8	–
1981	0	642	11	498	367	9	27	2,357	194	3,463	0	3	–	8	–
1982	0	596	9	479	369	9	25	2,344	162	3,397	0	3	–	8	–
1983	0	490	9	499	382	11	26	2,376	131	3,433	0	3	–	8	–
1984	0	529	9	540	430	11	28	2,399	128	3,544	0	4	–	8	–
1985	0	504	10	550	445	8	26	2,434	125	3,597	0	4	–	8	–
1986	0	485	12	567	477	7	25	2,508	138	3,735	0	4	–	9	–
1987	0	519	9	582	506	6	29	2,570	143	3,844	0	4	–	9	–
1988	0	614	10	633	530	6	27	2,627	146	3,980	0	4	–	9	–
1989	0	629	9	659	544	6	28	2,617	156	4,020	0	4	–	9	–
1990	0	660	9	658	556	6	29	2,585	164	4,006	[e] 1,073	4	–	9	–
1991	0	R 602	8	631	537	6	26	2,570	164	3,943	851	4	–	9	–
1992	0	588	8	654	532	5	26	2,608	172	4,006	1,034	4	–	9	–
1993	0	R 625	8	672	536	5	27	2,689	145	4,082	1,154	4	–	8	–
1994	0	687	8	717	557	9	28	2,733	143	4,194	1,280	4	–	8	–
			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	0.0	10.7	10,571.8	26.7	10,598.5
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	0.0	9.6	12,411.2	22.8	12,434.0
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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	806.9	19,216.4	0.0	12.0	19,773.2	28.0	19,801.2
1985	0.0	520.7	50.3	3,203.5	2,496.9	27.7	156.4	12,783.7	785.5	19,504.1	0.0	13.0	20,037.8	30.5	20,068.3
1986	0.0	501.1	58.9	3,304.7	2,682.4	25.9	152.9	13,174.2	869.8	20,268.7	0.0	13.2	20,783.0	30.5	20,813.5
1987	0.0	538.0	45.6	3,388.0	2,842.8	20.5	172.9	13,500.5	900.5	20,870.9	0.0	12.8	21,421.7	29.3	21,451.0
1988	0.0	633.5	49.0	3,688.6	2,981.8	22.2	166.7	13,801.4	919.1	21,628.7	0.0	13.6	22,275.8	30.8	22,306.6
1989	0.0	649.7	47.6	3,839.7	3,058.9	21.8	171.0	13,749.5	979.5	21,868.0	0.0	13.6	22,531.3	30.6	22,561.9
1990	0.0	R 682.6	45.0	3,830.5	3,129.5	21.8	176.0	13,577.1	1,030.2	21,810.1	[e] 82.0	14.1	R [e] 22,506.8	30.8	R [e] 22,537.6
1991	0.0	R 621.9	41.7	3,677.6	3,025.0	19.9	157.5	13,502.6	1,031.9	21,456.3	65.0	13.9	R 22,092.1	R 30.3	R 22,122.3
1992	0.0	R 609.0	41.1	3,810.2	3,001.3	18.4	160.5	13,698.8	1,082.0	21,812.2	79.0	13.7	R 22,434.9	29.2	R 22,464.1
1993	0.0	R 644.1	38.4	3,912.9	3,028.0	18.9	163.5	14,125.6	913.4	22,200.7	88.2	13.2	R 22,857.9	27.8	R 22,885.7
1994	0.0	708.1	38.1	4,175.0	3,154.5	32.2	170.8	14,355.7	896.0	22,822.4	97.8	13.5	23,544.0	28.2	23,572.2

[a] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector. The U.S. total includes a quantity that could not be allocated to specific States. In 1994, the unallocated quantity is 18.2 trillion Btu.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, United States

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy [f]	Other [b,g]	Total [h]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Million Short Tons			Billion Cubic Feet	Million Barrels				Billion Kilowatthours					
1960	174	3	177	1,725	84	4	0	88	1	150	(s)	(s)	0	–
1965	243	2	245	2,321	110	5	0	115	4	194	(s)	(s)	0	–
1970	318	2	320	3,932	311	24	3	339	22	250	(s)	1	0	–
1971	326	2	327	3,976	362	34	3	399	38	270	(s)	1	0	–
1972	350	2	352	3,977	440	53	3	497	54	280	(s)	1	0	–
1973	388	1	389	3,660	513	47	3	563	83	286	(s)	2	0	–
1974	390	1	392	3,443	483	53	3	539	114	314	(s)	2	0	–
1975	404	1	406	3,158	467	39	(s)	506	173	306	(s)	3	0	–
1976	447	1	448	3,081	514	42	(s)	556	191	292	(s)	4	0	–
1977	476	1	477	3,191	575	49	(s)	624	251	238	(s)	4	0	–
1978	480	1	481	3,188	588	48	2	638	276	300	(s)	3	0	–
1979	526	1	527	3,491	493	31	1	525	255	300	(s)	4	0	–
1980	568	1	569	3,682	391	29	1	421	251	297	(s)	5	0	–
1981	596	1	597	3,640	330	21	1	352	273	294	(s)	6	0	–
1982	593	1	594	3,226	234	15	1	251	283	339	(s)	5	0	–
1983	624	1	625	2,911	229	17	1	247	294	367	(s)	6	(s)	–
1984	663	1	664	3,111	189	15	1	206	328	361	1	8	(s)	–
1985	693	1	694	3,044	159	15	1	175	384	322	1	9	(s)	–
1986	684	1	685	2,602	216	14	2	232	414	327	1	10	(s)	–
1987	717	1	718	2,844	184	15	2	201	455	296	1	11	(s)	–
1988	757	1	758	2,636	229	19	2	250	527	255	2	10	(s)	–
1989	766	1	767	2,787	242	25	3	270	529	276	2	9	(s)	–
1990	773	1	774	2,787	181	15	4	200	577	R 292	2	9	(s)	–
1991	771	1	772	2,789	171	14	4	188	613	R 295	2	8	(s)	–
1992	779	1	780	2,766	136	12	5	152	619	R 263	2	8	(s)	–
1993	813	1	814	2,682	149	13	6	169	610	R 290	2	8	(s)	–
1994	816	1	817	2,987	135	16	4	155	640	271	2	7	(s)	–
	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	1.5	0.8	0.0	8,190.7
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	2.8	4.2	0.0	11,026.9
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	3.7	11.3	0.0	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	3.3	11.9	0.0	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	3.4	31.5	0.0	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	3.4	42.6	0.0	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	2.6	53.2	0.0	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	2.0	70.2	0.0	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	2.8	78.2	0.0	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	5.0	77.4	0.0	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	3.5	64.3	0.0	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	5.2	83.8	0.0	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	4.5	109.8	0.0	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	3.8	123.0	0.0	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	3.4	104.7	0.0	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	4.0	129.3	(s)	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	3,766.9	9.2	164.9	0.1	25,956.4
1985	14,569.1	17.3	14,586.4	3,156.9	998.2	85.2	7.0	1,090.5	4,148.8	3,364.8	14.4	198.3	0.2	26,560.3
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	3,413.1	12.3	219.2	0.2	26,674.8
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	3,084.4	15.4	229.1	0.1	27,540.4
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	2,629.6	17.3	217.3	0.1	28,683.0
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	2,847.9	20.3	197.1	(s)	29,286.9
1990	16,071.2	16.6	16,087.8	2,861.4	1,139.4	86.3	24.7	1,250.4	6,160.9	R 3,020.8	21.4	181.0	(s)	R 29,482.3
1991	15,996.6	15.8	16,012.4	2,853.6	1,076.1	80.0	21.7	1,177.8	6,578.9	R 3,050.7	21.2	169.8	(s)	R 29,904.3
1992	16,175.3	16.7	16,192.0	2,828.5	853.6	67.3	30.1	951.0	6,607.3	R 2,712.1	21.6	169.5	(s)	R 29,539.4
1993	16,825.4	15.7	16,841.1	2,744.1	938.6	76.7	36.8	1,052.0	6,519.1	R 2,977.9	20.5	158.3	(s)	R 30,361.7
1994	16,850.1	16.5	16,866.6	3,057.0	846.6	95.2	26.3	968.2	6,837.3	2,787.5	20.4	145.2	(s)	30,868.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] Through 1989, includes all net imports of electricity. From 1990, includes only the portion of net imports of electricity that is derived from hydroelectric power.
[f] From 1990, includes net imports of electricity generated from geothermal energy.
[g] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[h] From 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. For 1994, the estimate is 149.3 trillion Btu.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

State Summaries

Table 17. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Alabama

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	752	43,498	0	6,239	0	0	-19,803	–
1965	21,473	229	2,749	446	5,251	1,156	908	4,207	741	28,919	2,553	2,142	49,072	0	7,103	0	0	-32,017	–
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	4,093	97,840	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	5,125	105,211	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	4,972	105,943	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	4,900	91,210	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	4,532	83,937	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	3,382	969	44,188	2,708	6,414	82,502	24,211	10,798	0	0	-69,687	–
1985	27,145	219	3,757	172	16,278	3,516	108	3,648	903	43,466	2,249	6,215	80,313	14,313	6,886	0	0	-51,090	–
1986	26,831	203	3,486	204	16,457	3,745	130	4,024	883	46,449	2,464	6,243	84,085	11,561	5,251	0	0	-35,739	–
1987	26,683	208	4,564	143	18,741	3,872	137	4,653	998	48,421	2,436	7,253	91,219	11,248	7,472	0	0	-27,763	–
1988	26,441	236	4,132	157	20,427	1,872	163	4,438	963	48,151	3,443	7,343	91,088	12,981	5,383	0	0	-16,101	–
1989	27,611	245	4,484	133	24,711	2,046	113	4,768	987	49,464	3,669	6,381	96,756	11,524	13,177	0	0	-42,435	–
1990	27,640	244	4,321	116	25,436	1,899	64	4,160	1,016	48,916	3,970	6,693	96,591	12,052	R I NA	I NA	I NA	R -35,746	–
1991	29,349	254	5,286	109	23,909	2,292	96	3,807	909	49,512	3,554	R 5,895	R 95,369	15,875	R NA	NA	NA	R -57,951	–
1992	31,510	279	4,943	106	24,432	2,108	83	3,968	927	50,794	3,907	R 5,996	R 97,264	19,397	R NA	NA	NA	R -74,715	–
1993	33,047	292	4,984	103	22,990	1,973	80	5,033	944	51,940	4,059	R 6,045	R 98,151	17,823	R NA	NA	NA	R -77,316	–
1994	31,473	289	5,059	110	25,410	3,472	72	5,132	986	53,245	3,432	6,313	103,231	20,480	NA	NA	NA	-74,405	–
			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	4.5	236.6	0.0	67.1	0.0	0.0	-67.6	822.3
1965	533.1	236.9	18.2	2.3	30.6	6.2	5.2	16.9	4.5	151.9	16.0	12.7	264.4	0.0	74.2	0.0	0.0	-109.2	999.5
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	24.1	536.3	46.6	98.1	0.0	0.0	-51.1	1,494.8
1977	629.4	248.7	21.2	1.2	115.2	9.8	4.7	28.7	6.0	258.3	102.5	30.2	577.9	210.2	108.0	0.0	0.0	-209.2	1,565.1
1978	577.6	245.0	24.7	1.2	120.0	9.9	5.9	25.2	6.5	266.4	93.9	29.3	583.0	249.8	81.8	0.0	0.0	-155.8	1,581.3
1979	670.2	291.5	20.9	1.2	87.7	9.5	6.4	21.2	6.8	251.7	64.4	28.6	498.3	240.3	122.9	0.0	0.0	-230.8	1,592.4
1980	661.0	278.4	20.8	1.3	88.5	11.3	7.1	18.2	6.0	232.7	45.9	26.2	457.9	256.3	97.7	0.0	0.0	-234.9	1,516.5
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	308.7	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	12.2	5.9	232.1	17.0	36.2	449.9	262.5	112.7	0.0	0.0	-237.8	1,411.6
1985	662.9	227.8	24.9	0.9	94.8	19.7	0.6	13.1	5.5	228.3	14.1	35.3	437.3	154.8	71.9	0.0	0.0	-174.3	1,380.4
1986	660.5	210.2	23.1	1.0	95.9	21.0	0.7	14.6	5.4	244.0	15.5	35.4	456.6	124.9	54.8	0.0	0.0	-121.9	1,385.1
1987	660.7	214.6	30.3	0.7	109.2	21.7	0.8	17.0	6.1	254.4	15.3	41.1	496.5	121.2	77.9	0.0	0.0	-94.7	1,476.2
1988	652.7	243.2	27.4	0.8	119.0	10.4	0.9	16.2	5.8	252.9	21.6	41.6	498.7	139.5	55.6	0.0	0.0	-54.9	1,532.7
1989	673.9	252.4	29.8	0.7	143.9	11.4	0.6	17.6	6.0	259.8	23.1	35.6	528.4	123.6	135.9	0.0	0.0	-144.8	1,569.5
1990	678.3	251.0	28.7	0.6	148.2	10.6	0.4	15.1	6.2	257.0	25.0	37.2	528.7	128.7	R I 107.1	I 143.8	I 0.1	R -122.0	R I 1,714.9
1991	719.8	260.7	35.1	0.6	139.3	12.6	0.5	13.8	5.5	260.1	22.3	R 33.0	R 522.8	170.5	R 111.4	144.1	0.1	R -197.7	R 1,730.9
1992	770.5	286.6	32.8	0.5	142.3	11.7	0.5	14.4	5.6	266.8	24.6	R 33.2	R 532.4	207.1	R 105.7	151.6	0.1	R -254.9	R 1,798.2
1993	808.4	301.1	33.1	0.5	133.9	11.0	0.5	18.1	5.7	272.8	25.5	R 33.6	R 534.8	190.4	R 92.9	158.2	0.1	R -263.8	R 1,821.0
1994	770.6	297.5	33.6	0.6	148.0	19.6	0.4	18.7	6.0	279.7	21.6	35.1	563.1	218.6	117.4	170.0	0.1	-253.9	1,882.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Alabama

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	96	0	96	41	36	163	2,101	2,300	0	0	4,129	–	10,271	–
1965	35	0	35	48	24	169	2,672	2,865	0	0	6,150	–	14,684	–
1970	44	0	44	56	36	236	4,920	5,192	0	0	11,527	–	27,935	–
1971	37	0	37	55	35	156	5,271	5,462	0	0	12,237	–	29,585	–
1972	42	0	42	53	56	106	5,782	5,944	0	0	13,348	–	32,128	–
1973	34	0	34	56	67	247	5,272	5,586	0	0	14,704	–	35,203	–
1974	13	0	13	55	79	137	4,273	4,489	0	0	14,687	–	35,812	–
1975	7	0	7	52	74	134	3,916	4,124	0	0	13,409	–	32,345	–
1976	4	0	4	57	121	117	4,469	4,707	0	0	14,087	–	33,934	–
1977	10	0	10	57	109	158	4,765	5,032	0	0	15,247	–	36,816	–
1978	64	0	64	57	98	196	3,879	4,173	0	0	15,739	–	38,505	–
1979	54	0	54	53	89	136	2,377	2,602	0	0	15,029	–	36,270	–
1980	80	0	80	52	13	198	2,589	2,800	0	0	16,469	–	40,047	–
1981	31	0	31	50	17	185	2,683	2,885	0	0	15,912	–	37,922	–
1982	42	1	43	47	55	534	2,293	2,882	0	0	15,782	–	37,905	–
1983	47	0	47	48	45	601	2,727	3,373	0	0	15,814	–	37,888	–
1984	50	0	50	51	44	763	2,014	2,821	0	0	17,012	–	39,598	–
1985	43	0	43	44	34	73	2,088	2,194	0	0	17,182	–	40,368	–
1986	45	0	45	45	39	64	2,389	2,491	0	0	18,259	–	42,001	–
1987	46	1	47	49	30	60	2,834	2,924	0	0	19,294	–	44,086	–
1988	52	(s)	52	49	42	129	2,774	2,945	0	0	19,641	–	44,404	–
1989	24	1	25	48	34	81	3,037	3,152	0	0	19,842	–	44,499	–
1990	37	0	37	45	25	38	2,688	2,752	°756	°36	20,719	–	R45,274	–
1991	6	(s)	6	46	18	61	2,312	2,391	797	38	21,293	–	R46,296	–
1992	31	(s)	31	50	11	30	2,213	2,254	839	39	21,137	–	R45,122	–
1993	14	(s)	14	51	14	43	2,861	2,919	634	39	R22,628	–	R47,788	–
1994	4	(s)	4	50	13	29	2,799	2,841	622	40	23,159	–	48,296	–
							Trillion Btu							
1960	2.4	0.0	2.4	42.3	0.2	0.9	8.4	9.6	0.0	0.0	14.1	68.3	35.0	103.3
1965	0.9	0.0	0.9	49.7	0.1	1.0	10.7	11.8	0.0	0.0	21.0	83.4	50.1	133.5
1970	1.1	0.0	1.1	57.5	0.2	1.3	18.6	20.1	0.0	0.0	39.3	118.0	95.3	213.4
1971	0.9	0.0	0.9	56.6	0.2	0.9	19.9	21.0	0.0	0.0	41.8	120.2	100.9	221.1
1972	1.0	0.0	1.0	55.1	0.3	0.6	21.7	22.7	0.0	0.0	45.5	124.3	109.6	233.9
1973	0.8	0.0	0.8	57.3	0.4	1.4	19.7	21.5	0.0	0.0	50.2	129.8	120.1	249.9
1974	0.3	0.0	0.3	56.6	0.5	0.8	15.9	17.2	0.0	0.0	50.1	124.2	122.2	246.4
1975	0.2	0.0	0.2	53.8	0.4	0.8	14.5	15.7	0.0	0.0	45.8	115.5	110.4	225.8
1976	0.1	0.0	0.1	58.5	0.7	0.7	16.6	18.0	0.0	0.0	48.1	124.6	115.8	240.4
1977	0.2	0.0	0.2	58.1	0.6	0.9	17.5	19.1	0.0	0.0	52.0	129.4	125.6	255.0
1978	1.5	0.0	1.5	58.6	0.6	1.1	14.2	15.9	0.0	0.0	53.7	129.8	131.4	261.2
1979	1.3	0.0	1.3	53.9	0.5	0.8	8.7	10.0	0.0	0.0	51.3	116.5	123.8	240.3
1980	1.9	0.0	1.9	54.1	0.1	1.1	9.5	10.7	0.0	0.0	56.2	122.9	136.6	259.5
1981	0.7	0.0	0.7	52.0	0.1	1.0	9.8	10.9	0.0	0.0	54.3	117.9	129.4	247.3
1982	1.0	(s)	1.0	49.4	0.3	3.0	8.3	11.6	0.0	0.0	53.8	115.9	129.3	245.2
1983	1.1	0.0	1.1	50.1	0.3	3.4	9.9	13.5	0.0	0.0	54.0	118.7	129.3	248.0
1984	1.2	0.0	1.2	52.2	0.3	4.3	7.2	11.8	0.0	0.0	58.0	123.3	135.1	258.4
1985	1.1	0.0	1.1	45.4	0.2	0.4	7.5	8.1	0.0	0.0	58.6	113.2	137.7	250.9
1986	1.1	0.0	1.1	46.3	0.2	0.4	8.7	9.3	0.0	0.0	62.3	119.0	143.3	262.3
1987	1.2	(s)	1.2	50.7	0.2	0.3	10.4	10.9	0.0	0.0	65.8	128.6	150.4	279.0
1988	1.3	(s)	1.3	50.3	0.2	0.7	10.1	11.1	0.0	0.0	67.0	129.8	151.5	281.3
1989	0.6	(s)	0.6	49.6	0.2	0.5	11.2	11.8	0.0	0.0	67.7	129.7	151.8	281.6
1990	0.9	0.0	0.9	46.7	0.1	0.2	9.7	10.1	°15.1	°0.1	70.7	R°143.7	R154.5	R°298.2
1991	0.1	(s)	0.1	47.4	0.1	0.3	8.4	8.8	15.9	0.1	72.7	R145.1	R158.0	R303.0
1992	0.7	(s)	0.8	51.0	0.1	0.2	8.0	8.3	16.8	0.1	72.1	R149.1	R154.0	R303.0
1993	0.3	(s)	0.3	52.9	0.1	0.2	10.3	10.6	12.7	0.1	77.2	R153.9	R163.1	R317.0
1994	0.1	(s)	0.1	51.3	0.1	0.2	10.2	10.4	12.4	0.1	79.0	153.4	164.8	318.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

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

° There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Alabama

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	178	0	178	17	264	294	371	327	(s)	1,257	2,390	–	5,944	–
1965	64	0	64	32	175	306	472	327	(s)	1,280	3,443	–	8,221	–
1970	83	0	83	36	264	426	868	391	(s)	1,950	5,144	–	12,457	–
1971	69	0	69	37	260	282	930	410	(s)	1,881	5,395	–	13,044	–
1972	78	0	78	37	412	192	1,020	416	(s)	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	(s)	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	355	229	15	1,666	8,454	–	19,678	–
1985	80	0	80	26	1,290	16	368	251	514	2,439	8,805	–	20,688	–
1986	84	0	84	25	971	29	422	253	558	2,231	9,292	–	21,375	–
1987	85	(s)	86	22	1,149	49	500	259	383	2,340	9,930	–	22,690	–
1988	96	(s)	96	26	1,125	13	489	244	707	2,578	10,239	–	23,148	–
1989	45	(s)	46	26	1,228	14	536	223	501	2,503	11,113	–	24,922	–
1990	68	0	68	24	1,088	11	474	256	614	2,443	11,589	–	R 25,325	–
1991	11	(s)	11	24	982	15	408	160	244	1,809	11,948	–	R 25,978	–
1992	57	(s)	58	25	1,030	17	391	138	0	1,576	11,554	–	R 24,665	–
1993	26	(s)	26	26	918	13	505	41	0	1,477	R 11,906	–	R 25,145	–
1994	7	(s)	7	26	1,071	11	494	41	1	1,617	12,503	–	26,075	–
	Trillion Btu													
1960	4.4	0.0	4.4	18.1	1.5	1.7	1.5	1.7	(s)	6.4	8.2	37.1	20.3	57.4
1965	1.6	0.0	1.6	33.0	1.0	1.7	1.9	1.7	(s)	6.4	11.7	52.8	28.0	80.8
1970	2.0	0.0	2.0	37.4	1.5	2.4	3.3	2.1	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	1.3	1.2	0.1	8.8	28.8	68.3	67.1	135.5
1985	2.0	0.0	2.0	26.8	7.5	0.1	1.3	1.3	3.2	13.5	30.0	72.3	70.6	142.9
1986	2.1	0.0	2.1	26.0	5.7	0.2	1.5	1.3	3.5	12.2	31.7	72.0	72.9	144.9
1987	2.1	(s)	2.2	23.1	6.7	0.3	1.8	1.4	2.4	12.6	33.9	71.7	77.4	149.1
1988	2.5	(s)	2.5	26.3	6.6	0.1	1.8	1.3	4.4	14.1	34.9	77.8	79.0	156.8
1989	1.1	(s)	1.1	27.3	7.2	0.1	2.0	1.2	3.2	13.5	37.9	79.8	85.0	164.9
1990	1.7	0.0	1.7	25.0	6.3	0.1	1.7	1.3	3.9	13.3	39.5	79.5	86.4	165.9
1991	0.3	(s)	0.3	24.4	5.7	0.1	1.5	0.8	1.5	9.7	40.8	75.0	88.6	R 163.7
1992	1.4	(s)	1.4	25.9	6.0	0.1	1.4	0.7	0.0	8.2	39.4	75.0	R 84.2	R 159.2
1993	0.6	(s)	0.6	26.5	5.3	0.1	1.8	0.2	0.0	7.5	40.6	75.2	R 85.8	161.0
1994	0.2	(s)	0.2	26.3	6.2	0.1	1.8	0.2	(s)	8.3	42.7	77.4	89.0	166.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Alabama

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	7,904	109	2,160	2,511	589	708	265	382	2,014	752	9,380	26	0	0	8,966	–	22,301	–
1965	8,774	132	2,749	1,962	434	1,020	311	372	945	2,142	9,935	25	0	0	13,636	–	32,559	–
1970	11,177	171	3,176	2,833	648	1,696	391	204	1,611	2,428	12,987	25	0	0	18,041	–	43,720	–
1971	10,282	164	3,094	2,669	526	1,708	394	199	1,194	2,944	12,729	25	0	0	18,171	–	43,930	–
1972	10,733	166	3,348	3,737	384	2,062	422	194	1,673	3,323	15,143	25	0	0	20,184	–	48,584	–
1973	9,919	159	3,638	4,363	486	2,166	534	195	3,586	3,043	18,012	25	0	0	21,523	–	51,526	–
1974	9,397	160	3,107	4,549	311	2,003	512	140	4,874	3,211	18,706	25	0	0	21,847	–	53,269	–
1975	9,288	156	2,706	4,475	297	1,846	440	198	5,814	3,910	19,686	25	0	0	20,473	–	49,384	–
1976	8,384	123	2,963	6,677	241	1,818	488	98	6,856	4,093	23,233	25	0	0	23,747	–	57,202	–
1977	7,424	137	3,200	6,959	382	2,075	506	135	7,975	5,125	26,355	24	0	0	25,715	–	62,095	–
1978	6,969	133	3,718	6,892	488	2,174	544	101	7,312	4,972	26,200	24	0	0	26,958	–	65,953	–
1979	8,573	174	3,150	4,829	754	2,900	569	58	6,701	4,900	23,861	25	0	0	28,439	–	68,633	–
1980	7,221	171	3,132	3,356	879	1,857	506	104	3,787	4,532	18,154	24	0	0	26,708	–	64,945	–
1981	6,187	174	3,747	4,544	284	1,284	486	164	2,454	8,497	21,460	24	0	0	24,835	–	59,189	–
1982	5,250	151	3,584	3,865	865	1,563	443	70	3,647	7,019	21,055	24	0	0	19,962	–	47,946	–
1983	4,682	133	3,719	4,284	312	1,048	464	68	1,404	5,128	16,425	24	0	0	19,832	–	47,514	–
1984	6,007	140	3,625	4,207	295	792	495	353	938	6,414	17,119	24	0	0	24,383	–	56,754	–
1985	5,476	138	3,757	3,671	19	1,031	461	507	96	6,215	15,758	24	0	0	24,179	–	56,806	–
1986	5,265	122	3,486	4,088	37	1,068	451	432	556	6,243	16,360	24	0	0	24,046	–	55,312	–
1987	5,804	123	4,564	4,467	28	1,219	509	438	564	7,253	19,043	24	0	0	25,478	–	58,216	–
1988	6,291	147	4,132	4,390	21	1,084	491	385	699	7,343	R 18,545	24	0	0	26,758	–	60,493	–
1989	5,656	155	4,484	5,178	17	1,107	504	496	345	6,381	18,512	24	0	0	27,232	–	61,072	–
1990	5,525	156	4,321	6,740	15	900	519	441	451	6,693	20,079	Rf NA	f NA	f NA	27,618	–	R 60,350	–
1991	5,633	163	5,286	5,423	21	994	464	408	85	R 5,895	R 18,575	R NA	NA	NA	27,985	–	R 60,846	–
1992	6,433	182	4,943	5,396	35	1,279	473	435	371	R 5,996	R 18,928	R NA	NA	NA	R 29,476	–	R 62,925	–
1993	5,474	195	4,984	4,587	23	1,551	482	582	775	R 6,045	R 19,029	R NA	NA	NA	R 30,524	–	R 64,464	–
1994	5,646	195	5,059	5,115	32	1,646	503	634	1,080	6,313	20,382	NA	NA	NA	31,919	–	66,566	–
			Trillion Btu															
1960	209.9	112.8	14.3	14.6	3.3	2.8	1.6	2.0	12.7	4.5	55.9	0.3	0.0	0.0	30.6	409.4	76.1	485.5
1965	232.0	136.0	18.2	11.4	2.5	4.1	1.9	2.0	5.9	12.7	58.7	0.3	0.0	0.0	46.5	473.4	111.1	584.5
1970	291.4	176.5	21.1	16.5	3.7	6.4	2.4	1.1	10.1	14.2	75.4	0.3	0.0	0.0	61.6	605.1	149.2	754.3
1971	265.7	168.9	20.5	15.5	3.0	6.4	2.4	1.0	7.5	17.3	73.8	0.3	0.0	0.0	62.0	570.7	149.9	720.6
1972	277.5	171.0	22.2	21.8	2.2	7.8	2.6	1.0	10.5	19.6	87.6	0.3	0.0	0.0	68.9	605.3	165.8	771.0
1973	256.6	163.8	24.1	25.4	2.8	8.1	3.2	1.0	22.5	17.9	105.1	0.3	0.0	0.0	73.4	599.2	175.8	775.0
1974	242.3	164.5	20.6	26.5	1.8	7.5	3.1	0.7	30.6	18.9	109.7	0.3	0.0	0.0	74.5	591.2	181.8	773.0
1975	238.8	160.0	18.0	26.1	1.7	6.9	2.7	1.0	36.6	23.1	115.9	0.3	0.0	0.0	69.9	584.9	168.5	753.4
1976	218.8	125.9	19.7	38.9	1.4	6.7	3.0	0.5	43.1	24.1	137.3	0.3	0.0	0.0	81.0	563.4	195.2	758.5
1977	192.9	140.4	21.2	40.5	2.2	7.6	3.1	0.7	50.1	30.2	155.7	0.3	0.0	0.0	87.7	577.1	211.9	788.9
1978	181.0	136.7	24.7	40.1	2.8	8.0	3.3	0.5	46.0	29.3	154.6	0.2	0.0	0.0	92.0	584.6	225.0	789.6
1979	222.4	178.8	20.9	28.1	4.3	10.7	3.4	0.3	42.1	28.6	138.4	0.3	0.0	0.0	97.0	636.9	234.2	871.0
1980	187.0	176.3	20.8	19.6	5.0	6.8	3.1	0.5	23.8	26.2	105.8	0.2	0.0	0.0	91.1	560.5	221.6	782.1
1981	159.8	180.4	24.9	26.5	1.6	4.7	2.9	0.9	15.4	48.5	125.3	0.2	0.0	0.0	84.7	550.5	202.0	752.5
1982	133.4	158.7	23.8	22.5	4.9	5.6	2.7	0.4	22.9	40.3	123.1	0.2	0.0	0.0	68.1	483.7	163.6	647.2
1983	117.9	138.0	24.7	25.0	1.8	3.8	2.8	0.4	8.8	29.4	96.5	0.2	0.0	0.0	67.7	420.4	162.1	582.5
1984	153.2	145.0	24.1	24.5	1.7	2.9	3.0	1.9	5.9	36.2	100.0	0.2	0.0	0.0	83.2	481.7	193.6	675.3
1985	140.4	143.0	24.9	21.4	0.1	3.7	2.8	2.7	0.6	35.3	91.5	0.2	0.0	0.0	82.5	457.6	193.8	651.4
1986	135.4	126.6	23.1	23.8	0.2	3.9	2.7	2.3	3.5	35.4	94.9	0.2	0.0	0.0	82.0	439.2	188.7	627.9
1987	150.2	127.1	30.3	26.0	0.2	4.5	3.1	2.3	3.5	41.1	111.0	0.2	0.0	0.0	86.9	475.5	198.6	674.1
1988	162.3	151.4	27.4	25.6	0.1	4.0	3.0	2.0	4.4	41.6	108.0	0.2	0.0	0.0	91.3	513.3	206.4	719.7
1989	145.9	159.9	29.8	30.2	0.1	4.1	3.1	2.6	2.2	35.6	107.5	0.2	0.0	0.0	92.9	506.5	208.4	714.9
1990	143.3	160.0	28.7	39.3	0.1	3.3	3.1	2.3	2.8	37.2	116.8	Rf 0.0	f 127.7	f 0.0	94.2	Rf 642.1	205.9	Rf 848.0
1991	145.5	167.9	35.1	31.6	0.1	3.6	2.8	2.1	0.5	R 33.0	R 108.9	R 0.0	127.4	0.0	95.5	R 645.2	R 207.6	R 852.8
1992	165.6	187.0	32.8	31.4	0.2	4.6	2.9	2.3	2.3	R 33.2	R 109.8	R 0.0	133.9	0.0	100.6	R 698.9	R 214.7	R 911.6
1993	141.6	201.0	33.1	26.7	0.1	5.6	2.9	3.1	4.9	R 33.6	R 110.0	R 0.0	144.5	0.0	104.1	R 701.1	R 220.0	R 921.1
1994	146.2	200.7	33.6	29.8	0.2	6.0	3.1	3.3	6.8	35.1	117.8	0.0	156.5	0.0	108.9	730.1	227.1	957.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Alabama

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	137	8	280	2,582	1,126	31	396	23,869	2,278	30,562	0	0	–	0	–
1965	29	12	446	3,090	1,156	43	430	28,220	1,608	34,993	0	0	–	0	–
1970	18	20	349	5,353	1,799	98	421	36,408	1,679	45,107	0	0	–	0	–
1971	13	21	355	5,799	1,786	116	437	38,457	1,461	48,411	0	0	–	0	–
1972	11	19	358	7,390	1,704	121	468	40,774	1,465	52,279	0	0	–	0	–
1973	7	20	331	8,699	1,681	119	477	43,062	2,520	56,889	0	0	–	0	–
1974	5	19	306	9,226	1,706	91	457	43,530	5,451	60,767	0	0	–	0	–
1975	2	17	249	9,087	1,707	87	609	44,523	7,039	63,300	0	0	–	0	–
1976	1	8	232	9,953	1,654	107	677	46,899	7,245	66,768	0	0	–	0	–
1977	(s)	10	244	11,068	1,773	112	486	48,547	8,135	70,365	0	0	–	0	–
1978	0	11	240	11,819	1,785	122	521	50,112	7,540	72,138	0	0	–	0	–
1979	0	13	235	9,369	1,702	60	546	47,364	3,514	62,790	0	0	–	0	–
1980	0	16	248	11,049	2,048	46	486	43,934	3,506	61,318	0	0	–	0	–
1981	0	18	226	12,291	1,754	132	466	42,596	2,186	59,651	0	0	–	0	–
1982	0	16	173	11,201	1,581	164	425	42,608	2,313	58,466	0	0	–	0	–
1983	0	13	177	9,974	1,643	195	445	43,059	2,041	57,534	0	0	–	0	–
1984	0	13	172	10,900	3,695	220	474	43,606	1,754	60,823	0	0	–	0	–
1985	0	11	172	11,195	3,516	161	442	42,708	1,640	59,834	0	0	–	0	–
1986	0	10	204	11,293	3,745	146	432	45,764	1,351	62,935	0	0	–	0	–
1987	0	12	143	13,036	3,872	100	489	47,725	1,489	66,854	0	0	–	0	–
1988	0	12	157	14,697	1,872	90	471	47,523	2,036	66,846	0	0	–	0	–
1989	0	14	133	18,055	2,046	89	483	48,744	2,823	72,373	0	0	–	0	–
1990	0	15	116	17,450	1,899	97	497	48,219	2,905	71,184	[e]12,062	0	–	0	–
1991	0	16	109	17,323	2,292	94	445	48,944	3,225	72,433	9,561	0	–	0	–
1992	0	19	106	17,854	2,108	85	454	50,220	3,536	74,363	11,621	0	–	0	–
1993	0	16	103	17,341	1,973	116	462	51,317	3,283	74,595	12,969	0	–	0	–
1994	0	15	110	18,992	3,472	193	483	52,569	2,352	78,171	14,385	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	0.0	176.0	0.0	176.0
1965	0.7	12.4	2.3	18.0	6.2	0.2	2.6	148.2	10.1	187.6	0.0	0.0	200.7	0.0	200.7
1970	0.4	20.5	1.8	31.2	9.9	0.4	2.6	191.3	10.6	247.6	0.0	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	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	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	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	0.0	350.7	0.0	350.7
1975	(s)	17.3	1.3	52.9	9.4	0.3	3.7	233.9	44.3	345.8	0.0	0.0	363.1	0.0	363.1
1976	(s)	8.4	1.2	58.0	9.1	0.4	4.1	246.4	45.5	364.7	0.0	0.0	373.1	0.0	373.1
1977	(s)	10.5	1.2	64.5	9.8	0.4	2.9	255.0	51.1	385.0	0.0	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	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	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	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	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	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	0.0	324.2	0.0	324.2
1984	0.0	13.6	0.9	63.5	20.7	0.8	2.9	229.1	11.0	328.8	0.0	0.0	342.4	0.0	342.4
1985	0.0	11.5	0.9	65.2	19.7	0.6	2.7	224.3	10.3	323.7	0.0	0.0	335.2	0.0	335.2
1986	0.0	10.2	1.0	65.8	21.0	0.5	2.6	240.4	8.5	339.9	0.0	0.0	350.0	0.0	350.0
1987	0.0	12.2	0.7	75.9	21.7	0.4	3.0	250.7	9.4	361.8	0.0	0.0	373.9	0.0	373.9
1988	0.0	12.5	0.8	85.6	10.4	0.3	2.9	249.6	12.8	362.4	0.0	0.0	374.9	0.0	374.9
1989	0.0	13.9	0.7	105.2	11.4	0.3	2.9	256.1	17.8	394.3	0.0	0.0	408.2	0.0	408.2
1990	0.0	15.1	0.6	101.6	10.6	0.4	3.0	253.3	18.3	387.7	[e]0.9	0.0	[e]402.8	0.0	[e]402.8
1991	0.0	16.9	0.6	100.9	12.6	0.3	2.7	257.1	20.3	394.5	0.7	0.0	411.4	0.0	411.4
1992	0.0	19.2	0.5	104.0	11.7	0.3	2.8	263.8	22.2	405.3	0.9	0.0	424.5	0.0	424.5
1993	0.0	16.0	0.5	101.0	11.0	0.4	2.8	269.6	20.6	405.9	1.0	0.0	422.0	0.0	422.0
1994	0.0	15.4	0.6	110.6	19.6	0.7	2.9	276.1	14.8	425.4	1.1	0.0	440.7	0.0	440.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Alabama

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	7,264	0	7,264	9	0	(s)	0	(s)	0	6,213	0	0	0	–
1965	12,572	0	12,572	6	0	0	0	0	0	7,078	0	0	0	–
1970	16,331	0	16,331	15	0	26	448	474	0	7,607	0	0	0	–
1971	15,714	0	15,714	10	0	95	608	703	0	9,912	0	0	0	–
1972	16,828	0	16,828	3	0	498	720	1,217	0	10,208	0	0	0	–
1973	18,624	0	18,624	4	0	796	685	1,481	314	11,778	0	0	0	–
1974	17,901	0	17,901	5	0	634	1,361	1,994	6,289	10,344	0	0	0	–
1975	17,301	0	17,301	6	99	514	0	613	2,722	12,188	0	0	0	–
1976	17,850	0	17,850	4	142	631	0	773	4,214	9,433	0	0	0	–
1977	18,809	0	18,809	4	188	840	0	1,027	19,522	10,330	0	0	0	–
1978	16,597	0	16,597	7	89	1,075	0	1,164	22,830	7,869	0	0	0	–
1979	18,698	0	18,698	7	30	108	0	138	22,090	11,843	0	0	0	–
1980	19,593	0	19,593	1	0	131	0	131	23,497	9,385	0	0	0	–
1981	19,504	0	19,504	2	0	96	0	96	23,643	6,014	0	0	0	–
1982	15,584	0	15,584	1	0	64	0	64	27,701	10,707	0	0	0	–
1983	17,164	0	17,164	1	0	128	0	128	25,145	11,141	0	0	0	–
1984	17,786	0	17,786	(s)	0	72	0	72	24,211	10,774	0	0	0	–
1985	21,545	0	21,545	1	0	88	0	88	14,313	6,862	0	0	0	–
1986	21,436	0	21,436	1	0	67	0	67	11,561	5,227	0	0	0	–
1987	20,746	0	20,746	1	0	58	0	58	11,248	7,449	0	0	0	–
1988	20,002	0	20,002	3	0	174	0	174	12,981	5,359	0	0	0	–
1989	21,884	0	21,884	2	0	216	0	216	11,524	13,153	0	0	0	–
1990	22,010	0	22,010	4	0	133	0	133	12,052	10,367	0	0	0	–
1991	23,700	0	23,700	4	0	163	0	163	15,875	10,758	0	0	0	–
1992	24,988	0	24,988	3	0	141	0	141	19,397	10,260	0	0	0	–
1993	27,533	0	27,533	5	0	130	0	130	17,823	9,034	0	0	0	–
1994	25,817	0	25,817	4	0	220	0	220	20,480	11,429	0	0	0	–
									Trillion Btu					
1960	175.3	0.0	175.3	9.7	0.0	(s)	0.0	(s)	0.0	66.9	0.0	0.0	0.0	251.8
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	0.0	377.7
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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	804.2
1984	427.9	0.0	427.9	0.4	0.0	0.4	0.0	0.4	262.5	112.5	0.0	0.0	0.0	803.7
1985	519.5	0.0	519.5	1.2	0.0	0.5	0.0	0.5	154.8	71.7	0.0	0.0	0.0	747.6
1986	522.0	0.0	522.0	1.2	0.0	0.4	0.0	0.4	124.9	54.6	0.0	0.0	0.0	703.0
1987	507.1	0.0	507.1	1.6	0.0	0.3	0.0	0.3	121.2	77.6	0.0	0.0	0.0	707.8
1988	486.6	0.0	486.6	2.7	0.0	1.0	0.0	1.0	139.5	55.3	0.0	0.0	0.0	685.1
1989	526.2	0.0	526.2	1.8	0.0	1.3	0.0	1.3	123.6	135.7	0.0	0.0	0.0	788.6
1990	532.4	0.0	532.4	4.2	0.0	0.8	0.0	0.8	128.7	107.1	0.0	0.0	0.0	773.2
1991	573.9	0.0	573.9	4.2	0.0	0.9	0.0	0.9	170.5	111.4	0.0	0.0	0.0	860.8
1992	602.8	0.0	602.8	3.4	0.0	0.8	0.0	0.8	207.1	105.7	0.0	0.0	0.0	919.9
1993	665.9	0.0	665.9	4.7	0.0	0.8	0.0	0.8	190.4	92.9	0.0	0.0	0.0	954.6
1994	624.1	0.0	624.1	3.9	0.0	1.3	0.0	1.3	218.6	117.4	0.0	0.0	0.0	965.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Alaska

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
1965	525	8	132	293	3,788	3,005	10	91	41	2,450	881	284	10,975	0	350	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	272	112	5,324	508	5,243	35,433	0	693	0	(s)	0	–
1985	733	213	485	490	10,356	15,231	7	331	104	5,637	3,072	5,761	41,474	0	748	0	(s)	0	–
1986	769	206	373	617	7,549	16,187	4,985	268	102	5,426	7,081	4,828	47,417	0	809	0	0	0	–
1987	274	249	257	208	8,006	14,850	4,792	271	115	5,190	3,406	4,329	41,424	0	872	0	0	0	–
1988	276	288	698	407	8,582	16,899	192	277	111	5,325	713	5,181	38,386	0	935	0	0	0	–
1989	299	322	274	491	11,055	18,586	2	278	114	5,077	348	4,683	40,909	0	873	0	0	0	–
1990	784	343	269	491	11,592	17,367	3	384	117	5,821	429	4,582	41,055	0	R NA	I NA	I NA	0	–
1991	802	367	259	618	9,805	17,116	8	402	105	5,050	593	2,312	36,268	0	R NA	NA	NA	0	–
1992	792	383	264	459	10,408	14,720	1	393	107	5,882	765	3,377	36,377	0	R NA	NA	NA	0	–
1993	863	378	43	410	9,354	14,693	5	238	109	5,974	728	3,028	34,582	0	R NA	NA	NA	0	–
1994	796	403	66	171	8,027	16,080	11	252	114	6,545	728	3,375	35,369	0	NA	NA	NA	0	–
			Trillion Btu																
1960	7.2	2.0	0.3	5.2	15.4	10.6	0.5	0.2	(s)	8.7	4.5	0.0	45.4	0.0	3.1	0.0	0.0	0.0	57.8
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
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	1.0	0.7	28.0	3.2	30.9	200.4	0.0	7.2	0.0	(s)	0.0	478.6
1985	11.6	214.0	3.2	2.5	60.3	85.8	(s)	1.2	0.6	29.6	19.3	34.3	236.9	0.0	7.8	0.0	(s)	0.0	470.3
1986	12.1	208.3	2.5	3.1	44.0	91.2	28.3	1.0	0.6	28.5	44.5	29.1	272.8	0.0	8.4	0.0	0.0	0.0	501.7
1987	4.3	251.5	1.7	1.0	46.6	83.6	27.2	1.0	0.7	27.3	21.4	26.0	236.5	0.0	9.1	0.0	0.0	0.0	501.4
1988	4.4	288.8	4.6	2.1	50.0	95.2	1.1	1.0	0.7	28.0	4.5	30.8	217.9	0.0	9.7	0.0	0.0	0.0	520.7
1989	4.7	321.2	1.8	2.5	64.4	104.7	(s)	1.0	0.7	26.7	2.2	27.8	231.8	0.0	9.0	0.0	0.0	0.0	566.7
1990	12.4	326.8	1.8	2.5	67.5	97.9	(s)	1.4	0.7	30.6	2.7	27.2	232.4	0.0	I 10.1	I 4.2	I (s)	0.0	R 585.9
1991	12.7	368.0	1.7	3.1	57.1	96.1	(s)	1.5	0.6	26.5	3.7	14.1	204.6	0.0	9.3	4.3	(s)	0.0	R 598.8
1992	12.5	383.9	1.8	2.3	60.6	82.9	(s)	1.4	0.6	30.9	4.8	20.3	205.7	0.0	9.5	4.5	(s)	0.0	R 616.1
1993	13.6	376.0	0.3	2.1	54.5	83.2	(s)	0.9	0.7	31.4	4.6	18.4	196.0	0.0	13.4	3.7	(s)	0.0	R 602.7
1994	12.6	403.6	0.4	0.9	46.8	91.2	0.1	0.9	0.7	34.4	4.6	20.4	200.2	0.0	13.8	3.1	(s)	0.0	633.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.
NA=Not available.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Alaska

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	22	0	22	(s)	866	0	36	902	0	0	151	–	539	–
1965	12	0	12	1	1,110	10	77	1,197	0	0	292	–	1,139	–
1970	8	0	8	6	1,362	19	77	1,458	0	0	527	–	2,073	–
1971	7	0	7	7	1,791	19	89	1,899	0	0	631	–	2,437	–
1972	9	0	9	8	1,411	13	94	1,518	0	0	628	–	2,627	–
1973	5	0	5	5	1,719	10	132	1,862	0	0	686	–	2,781	–
1974	6	0	6	4	1,724	77	83	1,884	0	0	754	–	3,087	–
1975	6	0	6	10	1,621	91	69	1,781	0	0	898	–	3,227	–
1976	5	0	5	11	2,001	30	99	2,130	0	0	983	–	3,581	–
1977	5	0	5	11	2,253	44	61	2,358	0	0	1,071	–	3,830	–
1978	0	0	0	12	2,652	40	112	2,805	0	0	1,110	–	3,850	–
1979	0	0	0	7	942	761	92	1,795	0	0	1,067	–	4,317	–
1980	0	0	0	8	1,172	0	58	1,231	0	0	1,092	–	4,397	–
1981	165	0	165	8	910	0	41	951	0	0	1,228	–	4,335	–
1982	174	0	174	11	1,125	0	68	1,193	0	0	1,408	–	4,623	–
1983	162	0	162	10	1,194	2	107	1,304	0	0	1,453	–	4,474	–
1984	175	0	175	12	1,349	3	154	1,507	0	0	1,597	–	4,797	–
1985	153	0	153	13	1,310	1	192	1,503	0	0	1,674	–	4,834	–
1986	174	0	174	12	1,065	1	152	1,217	0	0	1,625	–	4,638	–
1987	0	0	0	12	1,614	1	157	1,772	0	0	1,548	–	4,006	–
1988	0	0	0	13	1,285	3	167	1,456	0	0	1,590	–	4,075	–
1989	0	0	0	14	1,518	1	198	1,717	0	0	1,643	–	4,294	–
1990	173	0	173	14	1,745	3	300	2,048	[e] 98	[e] (s)	1,661	–	4,421	–
1991	176	0	176	14	1,597	8	323	1,928	103	(s)	1,603	–	3,910	–
1992	180	0	180	14	1,606	1	319	1,925	108	(s)	1,640	–	3,595	–
1993	197	0	197	14	1,277	1	192	1,470	90	(s)	1,629	–	3,954	–
1994	182	0	182	15	1,254	10	151	1,416	88	(s)	1,688	–	4,012	–
							Trillion Btu							
1960	0.4	0.0	0.4	0.2	5.0	0.0	0.1	5.2	0.0	0.0	0.5	6.3	1.8	8.1
1965	0.2	0.0	0.2	1.5	6.5	0.1	0.3	6.8	0.0	0.0	1.0	9.5	3.9	13.4
1970	0.1	0.0	0.1	6.2	7.9	0.1	0.3	8.3	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	4.8	24.9	15.8	40.7
1983	2.6	0.0	2.6	10.4	7.0	(s)	0.4	7.4	0.0	0.0	5.0	25.3	15.3	40.6
1984	2.8	0.0	2.8	11.9	7.9	(s)	0.6	8.4	0.0	0.0	5.5	28.5	16.4	44.9
1985	2.4	0.0	2.4	13.3	7.6	(s)	0.7	8.3	0.0	0.0	5.7	29.8	16.5	46.3
1986	2.7	0.0	2.7	12.2	6.2	(s)	0.6	6.8	0.0	0.0	5.5	27.3	15.8	43.1
1987	0.0	0.0	0.0	12.4	9.4	(s)	0.6	10.0	0.0	0.0	5.3	27.6	13.7	41.3
1988	0.0	0.0	0.0	12.6	7.5	(s)	0.6	8.1	0.0	0.0	5.4	26.1	13.9	40.0
1989	0.0	0.0	0.0	13.6	8.8	(s)	0.7	9.6	0.0	0.0	5.6	28.7	14.7	43.4
1990	2.7	0.0	2.7	13.4	10.2	(s)	1.1	11.3	[e] 2.0	[e] (s)	5.7	R [e] 35.1	15.1	R [e] 50.1
1991	2.8	0.0	2.8	13.6	9.3	(s)	1.2	10.5	2.1	(s)	5.5	R 34.4	13.3	R 47.8
1992	2.8	0.0	2.8	14.4	9.4	(s)	1.2	10.5	2.2	(s)	5.6	R 35.5	12.3	R 47.8
1993	3.1	0.0	3.1	13.8	7.4	(s)	0.7	8.1	1.8	(s)	5.6	R 32.4	13.5	R 45.9
1994	2.9	0.0	2.9	14.9	7.3	0.1	0.5	7.9	1.8	(s)	5.8	33.2	13.7	46.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Alaska

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	42	0	42	0	268	0	6	130	464	868	99	–	354	–
1965	22	0	22	2	344	0	14	253	751	1,361	267	–	1,043	–
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	(s)	1,326	844	–	2,597	–
1984	326	0	326	25	1,176	6	27	221	1	1,431	1,728	–	5,189	–
1985	284	0	284	20	926	3	34	268	0	1,231	1,898	–	5,480	–
1986	323	0	323	21	837	4,981	27	200	1,650	7,695	1,957	–	5,587	–
1987	0	0	0	20	1,055	4,791	28	52	1,962	7,886	1,894	–	4,901	–
1988	0	0	0	21	875	189	30	50	310	1,454	1,913	–	4,903	–
1989	0	0	0	22	825	1	35	52	0	912	2,048	–	5,351	–
1990	321	0	321	22	1,176	(s)	53	52	0	1,281	2,133	–	5,677	–
1991	328	0	328	21	974	(s)	57	88	0	1,119	2,187	–	5,335	–
1992	334	0	334	21	1,376	(s)	56	57	0	1,490	2,195	–	4,811	–
1993	366	0	366	20	1,211	(s)	34	8	0	1,253	2,245	–	5,448	–
1994	338	0	338	21	1,184	(s)	27	10	0	1,221	2,334	–	5,547	–
	Trillion Btu													
1960	0.8	0.0	0.8	0.0	1.6	0.0	(s)	0.7	2.9	5.2	0.3	6.3	1.2	7.5
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
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	(s)	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	(s)	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	(s)	1.4	(s)	4.8	2.5	23.8	10.0	33.8
1981	4.8	0.0	4.8	16.2	3.1	0.0	(s)	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	(s)	1.8	(s)	4.8	2.6	36.8	8.6	45.4
1983	4.8	0.0	4.8	24.7	6.1	(s)	0.1	1.4	(s)	7.5	2.9	39.9	8.9	48.8
1984	5.1	0.0	5.1	24.7	6.9	(s)	0.1	1.2	(s)	8.1	5.9	43.9	17.7	61.6
1985	4.5	0.0	4.5	20.5	5.4	(s)	0.1	1.4	0.0	6.9	6.5	38.4	18.7	57.1
1986	5.1	0.0	5.1	21.1	4.9	28.2	0.1	1.1	10.4	44.6	6.7	77.5	19.1	96.6
1987	0.0	0.0	0.0	20.4	6.1	27.2	0.1	0.3	12.3	46.0	6.5	72.9	16.7	89.6
1988	0.0	0.0	0.0	20.9	5.1	1.1	0.1	0.3	1.9	8.5	6.5	35.9	16.7	52.7
1989	0.0	0.0	0.0	21.7	4.8	(s)	0.1	0.3	0.0	5.2	7.0	33.9	18.3	52.2
1990	5.1	0.0	5.1	20.5	6.8	(s)	0.2	0.3	0.0	7.3	7.3	40.2	19.4	59.5
1991	5.2	0.0	5.2	20.9	5.7	(s)	0.2	0.5	0.0	6.3	7.5	39.9	18.2	58.1
1992	5.3	0.0	5.3	21.3	8.0	(s)	0.2	0.3	0.0	8.5	7.5	42.6	16.4	59.1
1993	5.8	0.0	5.8	19.9	7.1	(s)	0.1	(s)	0.0	7.2	7.7	40.5	18.6	59.1
1994	5.3	0.0	5.3	20.7	6.9	(s)	0.1	0.1	0.0	7.0	8.0	41.1	18.9	60.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Alaska

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	256	2	47	878	90	4	4	0	229	0	1,252	0	0	0	45	–	162	–
1965	339	2	132	1,238	0	(s)	1	83	60	284	1,798	0	0	0	59	–	229	–
1970	467	19	274	1,923	14	60	1	107	73	523	2,975	0	0	0	101	–	398	–
1971	504	19	297	2,143	14	71	1	193	24	598	3,340	0	0	0	106	–	409	–
1972	449	28	327	1,709	8	82	1	829	57	731	3,745	0	0	0	124	–	518	–
1973	498	30	244	1,802	8	62	1	114	62	798	3,091	0	0	0	123	–	500	–
1974	427	28	247	1,708	28	75	1	96	66	776	2,996	0	0	0	124	–	506	–
1975	594	40	319	2,117	32	130	24	106	31	771	3,530	0	0	0	485	–	1,743	–
1976	511	43	317	3,201	35	231	27	120	11	749	4,691	0	0	0	504	–	1,836	–
1977	319	67	361	3,643	43	338	21	124	11	1,027	5,567	0	0	0	590	–	2,111	–
1978	0	93	314	3,720	42	356	22	116	80	1,361	6,011	0	0	0	619	–	2,147	–
1979	0	105	207	1,906	291	83	23	120	0	1,411	4,040	0	0	0	436	–	1,764	–
1980	0	100	309	1,784	19	119	21	111	14	1,446	3,823	0	0	0	757	–	3,048	–
1981	0	68	266	2,059	36	104	20	12	20	874	3,390	0	0	0	997	–	3,520	–
1982	0	172	368	2,420	1,238	128	18	14	0	966	5,152	0	0	0	1,081	–	3,548	–
1983	0	172	344	923	9	80	19	14	0	5,360	6,749	0	0	0	1,185	–	3,647	–
1984	0	184	438	1,043	6	72	20	5	0	5,243	6,828	0	0	0	340	–	1,020	–
1985	0	140	485	1,762	4	91	19	406	2,577	5,761	11,105	0	0	0	417	–	1,203	–
1986	0	133	373	1,145	4	81	18	386	4,789	4,828	11,624	0	0	0	466	–	1,330	–
1987	0	184	257	1,005	(s)	79	21	401	1,020	4,329	7,112	0	0	0	520	–	1,344	–
1988	0	221	698	2,016	(s)	72	20	64	0	5,181	8,052	0	0	0	542	–	1,388	–
1989	0	252	274	1,835	(s)	38	21	64	0	4,683	6,914	0	0	0	450	–	1,177	–
1990	0	271	269	1,584	(s)	25	21	55	118	4,582	6,653	R[f] NA	[f] NA	[f] NA	459	–	1,222	–
1991	0	299	259	1,954	(s)	17	19	57	280	2,312	4,898	R NA	NA	NA	466	–	1,136	–
1992	0	316	264	1,973	(s)	14	19	58	302	3,377	6,006	R NA	NA	NA	504	–	1,105	–
1993	2	313	43	1,573	4	10	20	40	303	3,028	5,021	R NA	NA	NA	501	–	1,216	–
1994	5	336	66	1,506	(s)	70	20	57	346	3,375	5,441	NA	NA	NA	511	–	1,215	–
			Trillion Btu															
1960	5.0	1.9	0.3	5.1	0.5	(s)	(s)	0.0	1.4	0.0	7.4	0.0	0.0	0.0	0.2	14.4	0.6	15.0
1965	6.5	1.8	0.9	7.2	0.0	(s)	(s)	0.4	0.4	1.7	10.6	0.0	0.0	0.0	0.2	19.1	0.8	19.9
1970	8.5	19.6	1.8	11.2	0.1	0.2	(s)	0.6	0.5	3.1	17.5	0.0	0.0	0.0	0.3	45.9	1.4	47.3
1971	9.0	19.1	2.0	12.5	0.1	0.3	(s)	1.0	0.2	3.6	19.6	0.0	0.0	0.0	0.4	48.1	1.4	49.5
1972	8.0	28.5	2.2	10.0	(s)	0.3	(s)	4.4	0.4	4.4	21.6	0.0	0.0	0.0	0.4	58.5	1.8	60.3
1973	8.9	30.1	1.6	10.5	(s)	0.2	(s)	0.6	0.4	4.8	18.2	0.0	0.0	0.0	0.4	57.6	1.7	59.3
1974	7.6	28.5	1.6	10.0	0.2	0.3	(s)	0.5	0.4	4.7	17.6	0.0	0.0	0.0	0.4	54.1	1.7	55.8
1975	10.5	40.4	2.1	12.3	0.2	0.5	0.1	0.6	0.2	4.6	20.6	0.0	0.0	0.0	1.7	73.2	5.9	79.2
1976	9.1	42.9	2.1	18.6	0.2	0.9	0.2	0.6	0.1	4.5	27.2	0.0	0.0	0.0	1.7	80.8	6.3	87.1
1977	5.6	67.0	2.4	21.2	0.2	1.2	0.1	0.7	0.1	6.2	32.1	0.0	0.0	0.0	2.0	106.7	7.2	113.9
1978	0.0	92.9	2.1	21.7	0.2	1.3	0.1	0.6	0.5	8.2	34.7	0.0	0.0	0.0	2.1	129.7	7.3	137.1
1979	0.0	104.7	1.4	11.1	1.6	0.3	0.1	0.6	0.0	8.5	23.7	0.0	0.0	0.0	1.5	129.9	6.0	135.9
1980	0.0	100.3	2.1	10.4	0.1	0.4	0.1	0.6	0.1	8.7	22.5	0.0	0.0	0.0	2.6	125.3	10.4	135.7
1981	0.0	68.6	1.8	12.0	0.2	0.4	0.1	0.1	0.1	5.6	20.2	0.0	0.0	0.0	3.4	92.2	12.0	104.2
1982	0.0	171.7	2.4	14.1	7.0	0.5	0.1	0.1	0.0	6.1	30.3	0.0	0.0	0.0	3.7	205.7	12.1	217.8
1983	0.0	172.7	2.3	5.4	0.1	0.3	0.1	0.1	0.0	31.6	39.8	0.0	0.0	0.0	4.0	216.5	12.4	229.0
1984	0.0	183.8	2.9	6.1	(s)	0.3	0.1	(s)	0.0	30.9	40.3	0.0	0.0	0.0	1.2	225.2	3.5	228.7
1985	0.0	140.7	3.2	10.3	(s)	0.3	0.1	2.1	16.2	34.3	66.6	0.0	0.0	0.0	1.4	208.7	4.1	212.8
1986	0.0	134.4	2.5	6.7	(s)	0.3	0.1	2.0	30.1	29.1	70.8	0.0	0.0	0.0	1.6	206.8	4.5	211.4
1987	0.0	185.9	1.7	5.9	(s)	0.3	0.1	2.1	6.4	26.0	42.5	0.0	0.0	0.0	1.8	230.1	4.6	234.7
1988	0.0	222.3	4.6	11.7	(s)	0.3	0.1	0.3	0.0	30.8	47.9	0.0	0.0	0.0	1.8	272.1	4.7	276.8
1989	0.0	251.1	1.8	10.7	(s)	0.1	0.1	0.3	0.0	27.8	40.9	0.0	0.0	0.0	1.5	293.6	4.0	297.6
1990	0.0	256.7	1.8	9.2	(s)	0.1	0.1	0.3	0.7	27.2	39.5	[f] 0.0	[f] 2.3	[f] 0.0	1.6	R[f] 300.0	4.2	R[f] 304.2
1991	0.0	299.5	1.7	11.4	(s)	0.1	0.1	0.3	1.8	14.1	29.5	0.0	2.3	0.0	1.6	R 332.8	3.9	R 336.7
1992	0.0	316.3	1.8	11.5	(s)	0.1	0.1	0.3	1.9	20.3	35.9	0.0	2.4	0.0	1.7	R 356.3	3.8	R 360.1
1993	(s)	311.5	0.3	9.2	(s)	(s)	0.1	0.2	1.9	18.4	30.1	0.0	1.9	0.0	1.7	R 345.3	4.1	R 349.4
1994	0.1	335.9	0.4	8.8	(s)	0.3	0.1	0.3	2.2	20.4	32.4	0.0	1.3	0.0	1.7	371.5	4.1	375.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Alaska

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	5	(s)	1,032	528	1,972	0	3	1,527	15	5,077	0	0	–	0	–
1965	1	0	293	789	3,005	(s)	40	2,113	66	6,307	0	0	–	0	–
1970	1	17	462	1,000	6,735	1	59	2,267	135	10,659	0	0	–	0	–
1971	1	17	377	1,418	7,573	1	48	2,539	236	12,192	0	0	–	0	–
1972	(s)	9	387	2,256	8,019	0	52	2,411	242	13,367	0	0	–	0	–
1973	(s)	(s)	399	1,922	7,393	0	49	2,688	328	12,777	0	0	–	0	–
1974	(s)	(s)	480	2,407	7,470	0	47	3,036	332	13,772	0	0	–	0	–
1975	(s)	(s)	466	2,157	7,420	0	121	3,658	484	14,305	0	0	–	0	–
1976	(s)	(s)	381	2,912	7,409	0	134	4,287	816	15,939	0	0	–	0	–
1977	(s)	(s)	432	2,942	7,910	0	94	4,244	1,139	16,760	0	0	–	0	–
1978	0	(s)	437	2,737	8,273	0	101	4,063	1,773	17,384	0	0	–	0	–
1979	0	1	433	1,748	8,506	1	106	4,248	306	15,348	0	0	–	0	–
1980	0	(s)	498	2,605	9,618	4	94	3,306	0	16,125	0	0	–	0	–
1981	0	(s)	504	2,489	10,877	0	90	4,205	7	18,172	0	0	–	0	–
1982	0	(s)	369	1,701	11,530	4	82	4,726	0	18,412	0	0	–	0	–
1983	0	(s)	375	3,550	12,252	6	86	4,478	55	20,802	0	0	–	0	–
1984	0	6	392	3,825	15,178	19	92	5,099	56	24,659	0	0	–	0	–
1985	0	5	490	5,840	15,231	14	86	4,963	19	26,642	0	0	–	0	–
1986	0	6	617	4,065	16,187	9	84	4,839	113	25,914	0	0	–	0	–
1987	0	2	208	3,912	14,850	6	95	4,738	118	23,927	0	0	–	0	–
1988	0	2	407	3,981	16,899	8	91	5,210	140	26,737	0	0	–	0	–
1989	0	2	491	6,372	18,586	7	94	4,961	118	30,630	0	0	–	0	–
1990	0	2	491	6,601	17,367	6	96	5,714	140	30,415	[e] 22	0	–	0	–
1991	0	3	618	4,750	17,116	4	86	4,906	73	27,554	17	0	–	0	–
1992	0	3	459	4,845	14,720	4	88	5,767	316	26,200	21	0	–	0	–
1993	0	3	410	4,754	14,693	2	90	5,927	119	25,993	23	0	–	0	–
1994	0	3	171	3,510	16,080	4	94	6,478	102	26,437	26	0	–	0	–
			Trillion Btu												
1960	0.1	(s)	5.2	3.1	10.6	0.0	(s)	8.0	0.1	27.1	0.0	0.0	27.1	0.0	27.1
1965	(s)	0.0	1.5	4.6	16.5	(s)	0.2	11.1	0.4	34.4	0.0	0.0	34.4	0.0	34.4
1970	(s)	17.4	2.3	5.8	37.7	(s)	0.4	11.9	0.9	59.0	0.0	0.0	76.4	0.0	76.4
1971	(s)	17.3	1.9	8.3	42.4	(s)	0.3	13.3	1.5	67.7	0.0	0.0	85.0	0.0	85.0
1972	(s)	8.8	2.0	13.1	45.0	0.0	0.3	12.7	1.5	74.6	0.0	0.0	83.4	0.0	83.4
1973	(s)	0.2	2.0	11.2	41.5	0.0	0.3	14.1	2.1	71.2	0.0	0.0	71.4	0.0	71.4
1974	(s)	0.1	2.4	14.0	41.9	0.0	0.3	15.9	2.1	76.7	0.0	0.0	76.8	0.0	76.8
1975	(s)	0.1	2.4	12.6	41.7	0.0	0.7	19.2	3.0	79.6	0.0	0.0	79.7	0.0	79.7
1976	(s)	0.2	1.9	17.0	41.6	0.0	0.8	22.5	5.1	89.0	0.0	0.0	89.1	0.0	89.1
1977	(s)	0.3	2.2	17.1	44.4	0.0	0.6	22.3	7.2	93.8	0.0	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	0.0	97.9	0.0	97.9
1979	0.0	0.9	2.2	10.2	47.7	(s)	0.6	22.3	1.9	85.0	0.0	0.0	85.8	0.0	85.8
1980	0.0	0.1	2.5	15.2	54.0	(s)	0.6	17.4	0.0	89.7	0.0	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	(s)	101.0	0.0	0.0	101.2	0.0	101.2
1982	0.0	0.3	1.9	9.9	64.9	(s)	0.5	24.8	0.0	102.0	0.0	0.0	102.2	0.0	102.2
1983	0.0	0.3	1.9	20.7	68.7	(s)	0.5	23.5	0.3	115.7	0.0	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	0.0	143.4	0.0	143.4
1985	0.0	5.2	2.5	34.0	85.8	0.1	0.5	26.1	0.1	149.0	0.0	0.0	154.2	0.0	154.2
1986	0.0	6.0	3.1	23.7	91.2	(s)	0.5	25.4	0.7	144.7	0.0	0.0	150.7	0.0	150.7
1987	0.0	2.1	1.0	22.8	83.6	(s)	0.6	24.9	0.7	133.7	0.0	0.0	135.8	0.0	135.8
1988	0.0	2.0	2.1	23.2	95.2	(s)	0.6	27.4	0.9	149.2	0.0	0.0	151.2	0.0	151.2
1989	0.0	1.9	2.5	37.1	104.7	(s)	0.6	26.1	0.7	171.7	0.0	0.0	173.6	0.0	173.6
1990	0.0	1.6	2.5	38.4	97.9	(s)	0.6	30.0	0.9	170.4	[e] (s)	0.0	[e] 172.0	0.0	[e] 172.0
1991	0.0	2.6	3.1	27.7	96.1	(s)	0.5	25.8	0.5	153.7	(s)	0.0	156.3	0.0	156.3
1992	0.0	2.9	2.3	28.2	82.9	(s)	0.5	30.3	2.0	146.3	(s)	0.0	149.2	0.0	149.2
1993	0.0	2.8	2.1	27.7	83.2	(s)	0.5	31.1	0.7	145.4	(s)	0.0	148.3	0.0	148.3
1994	0.0	3.0	0.9	20.4	91.2	(s)	0.6	34.0	0.6	147.7	(s)	0.0	150.7	0.0	150.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Alaska

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	52	0	52	0	3	95	0	99	0	290	0	0	0	–
1965	151	0	151	2	4	308	0	312	0	350	0	0	0	–
1970	249	0	249	8	5	394	0	399	0	363	0	0	0	–
1971	274	0	274	10	4	451	0	455	0	363	0	0	0	–
1972	247	0	247	13	2	476	0	478	0	346	0	0	0	–
1973	238	0	238	16	4	487	0	492	0	286	0	0	0	–
1974	266	0	266	17	3	479	0	482	0	326	0	0	0	–
1975	257	0	257	20	1	694	0	696	0	357	0	0	0	–
1976	252	0	252	22	15	803	0	817	0	383	0	0	0	–
1977	251	0	251	24	3	905	0	909	0	512	0	0	0	–
1978	270	0	270	24	1	891	0	892	0	472	0	0	0	–
1979	265	0	265	28	2	920	0	922	0	459	0	0	0	–
1980	273	0	273	29	353	538	0	891	0	539	0	0	0	–
1981	321	0	321	29	219	557	0	775	0	590	0	0	0	–
1982	336	0	336	31	299	585	0	884	0	561	0	0	0	–
1983	321	0	321	31	337	598	0	934	0	593	0	0	0	–
1984	314	0	314	32	451	557	0	1,008	0	693	0	0	(s)	–
1985	296	0	296	34	476	518	0	994	0	748	0	0	(s)	–
1986	272	0	272	34	529	437	0	966	0	809	0	0	0	–
1987	274	0	274	31	306	421	0	727	0	872	0	0	0	–
1988	276	0	276	31	264	424	0	688	0	935	0	0	0	–
1989	299	0	299	33	230	506	0	736	0	873	0	0	0	–
1990	290	0	290	34	171	486	0	658	0	975	0	0	0	–
1991	298	0	298	31	240	530	0	769	0	896	0	0	0	–
1992	277	0	277	29	147	608	0	755	0	918	0	0	0	–
1993	298	0	298	28	306	538	0	845	0	1,303	0	0	0	–
1994	271	0	271	29	281	573	0	854	0	1,345	0	0	0	–
	Trillion Btu													
1960	0.9	0.0	0.9	0.0	(s)	0.6	0.0	0.6	0.0	3.1	0.0	0.0	0.0	4.6
1965	2.7	0.0	2.7	2.2	(s)	1.8	0.0	1.8	0.0	3.7	0.0	0.0	0.0	10.3
1970	4.3	0.0	4.3	8.2	(s)	2.3	0.0	2.3	0.0	3.8	0.0	0.0	0.0	18.6
1971	4.7	0.0	4.7	10.4	(s)	2.6	0.0	2.7	0.0	3.8	0.0	0.0	0.0	21.5
1972	4.3	0.0	4.3	13.2	(s)	2.8	0.0	2.8	0.0	3.6	0.0	0.0	0.0	23.9
1973	4.1	0.0	4.1	15.9	(s)	2.8	0.0	2.9	0.0	3.0	0.0	0.0	0.0	25.9
1974	4.6	0.0	4.6	17.2	(s)	2.8	0.0	2.8	0.0	3.4	0.0	0.0	0.0	28.1
1975	4.5	0.0	4.5	19.7	(s)	4.0	0.0	4.1	0.0	3.7	0.0	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	0.0	35.5
1977	4.4	0.0	4.4	23.7	(s)	5.3	0.0	5.3	0.0	5.3	0.0	0.0	0.0	38.7
1978	4.7	0.0	4.7	24.6	(s)	5.2	0.0	5.2	0.0	4.9	0.0	0.0	0.0	39.4
1979	4.2	0.0	4.2	28.5	(s)	5.4	0.0	5.4	0.0	4.7	0.0	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	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	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	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	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	0.0	(s)	50.1
1985	4.7	0.0	4.7	34.4	3.0	3.0	0.0	6.0	0.0	7.8	0.0	0.0	(s)	52.9
1986	4.3	0.0	4.3	34.6	3.3	2.5	0.0	5.9	0.0	8.4	0.0	0.0	0.0	53.2
1987	4.3	0.0	4.3	30.7	1.9	2.4	0.0	4.4	0.0	9.1	0.0	0.0	0.0	48.5
1988	4.4	0.0	4.4	31.0	1.7	2.5	0.0	4.1	0.0	9.7	0.0	0.0	0.0	49.2
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	0.0	51.1
1990	4.6	0.0	4.6	34.6	1.1	2.8	0.0	3.9	0.0	10.1	0.0	0.0	0.0	53.1
1991	4.7	0.0	4.7	31.4	1.5	3.1	0.0	4.6	0.0	9.3	0.0	0.0	0.0	49.9
1992	4.4	0.0	4.4	29.0	0.9	3.5	0.0	4.5	0.0	9.5	0.0	0.0	0.0	47.3
1993	4.7	0.0	4.7	28.0	1.9	3.1	0.0	5.1	0.0	13.4	0.0	0.0	0.0	51.2
1994	4.3	0.0	4.3	29.0	1.8	3.3	0.0	5.1	0.0	13.8	0.0	0.0	0.0	52.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Arizona

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	18	0	-4,266	–
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	–
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	1,511	597	34,592	544	0	57,982	0	15,678	0	0	-42,507	–
1985	16,364	131	2,563	184	10,179	7,154	16	1,722	556	36,139	176	0	58,691	1,130	13,987	0	0	-38,272	–
1986	14,150	101	2,530	226	11,306	7,697	56	1,704	544	37,845	41	0	61,947	9,976	14,460	0	0	-46,574	–
1987	13,375	117	2,492	207	10,648	8,374	50	1,943	615	39,180	122	0	63,630	13,458	10,133	0	0	-40,889	–
1988	14,525	124	2,683	186	10,461	8,478	56	1,721	593	40,269	55	0	64,501	22,940	7,784	0	0	-63,865	–
1989	16,871	146	2,386	210	11,419	8,157	50	1,608	608	40,629	153	123	65,342	7,850	7,890	0	0	-32,911	–
1990	16,419	127	2,367	194	12,048	8,501	20	1,508	626	39,100	28	129	64,520	20,598	R NA	NA	NA	R -60,141	–
1991	16,805	125	2,181	188	10,370	9,642	36	1,700	560	40,580	201	R 216	R 65,674	25,096	R NA	NA	NA	R -73,127	–
1992	17,915	130	2,984	158	11,301	8,310	3	2,095	571	41,565	106	R 259	R 67,351	25,609	R NA	NA	NA	R -78,106	–
1993	18,991	115	2,328	128	13,549	7,892	3	1,843	581	43,013	192	R 131	R 69,660	22,049	R NA	NA	NA	R -68,617	–
1994	19,580	133	2,574	142	13,135	7,401	3	1,867	608	45,209	201	114	71,254	23,171	NA	NA	NA	-70,824	–
			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	0.2	0.0	-14.6	279.6
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
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	285.4	120.4	10.9	0.8	52.1	39.1	(s)	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	(s)	5.4	3.6	181.7	3.4	0.0	314.3	0.0	163.7	0.0	0.0	-145.0	784.7
1985	342.0	137.3	17.0	0.9	59.3	39.4	0.1	6.2	3.4	189.8	1.1	0.0	317.3	12.2	146.1	0.0	0.0	-130.6	824.4
1986	295.9	105.2	16.8	1.1	65.9	42.6	0.3	6.2	3.3	198.8	0.3	0.0	335.2	107.7	151.0	0.0	0.0	-158.9	836.2
1987	282.9	121.4	16.5	1.0	62.0	46.4	0.3	7.1	3.7	205.8	0.8	0.0	343.7	145.0	105.6	0.0	0.0	-139.5	859.1
1988	309.0	128.6	17.8	0.9	60.9	47.0	0.3	6.3	3.6	211.5	0.3	0.0	348.8	246.4	80.4	0.0	0.0	-217.9	895.3
1989	357.2	151.5	15.8	1.1	66.5	45.3	0.3	5.9	3.7	213.4	1.0	0.7	353.7	84.2	81.4	0.0	0.0	-112.3	915.7
1990	343.6	130.8	15.7	1.0	70.2	47.3	0.1	5.5	3.8	205.4	0.2	0.8	349.9	220.0	R 79.2	I 19.3	I 3.2	R -205.2	R 940.3
1991	347.5	128.2	14.5	1.0	60.4	53.7	0.2	6.1	3.4	213.2	1.3	R 1.2	R 355.0	269.5	R 73.5	19.6	3.2	R -249.5	R 947.8
1992	369.0	133.7	19.8	0.8	65.8	46.4	(s)	7.6	3.5	218.3	0.7	R 1.5	R 364.4	273.4	R 71.2	20.7	3.3	R -266.5	R 968.7
1993	389.8	118.0	15.4	0.6	78.9	44.2	(s)	6.6	3.5	225.9	1.2	R 0.7	R 377.3	235.5	R 72.2	20.0	3.4	R -234.1	R 981.6
1994	402.3	137.1	17.1	0.7	76.5	41.9	(s)	6.8	3.7	237.5	1.3	0.6	386.1	247.4	78.8	20.4	3.4	-241.6	1,033.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[i] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Arizona

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	0	0	0	27	47	0	397	445	0	0	1,355	–	3,369	–
1965	0	0	0	25	59	9	727	794	0	0	2,230	–	5,326	–
1970	0	0	0	30	98	68	840	1,006	0	0	4,327	–	10,486	–
1971	0	0	0	33	111	51	859	1,021	0	0	4,931	–	11,922	–
1972	0	0	0	34	172	39	906	1,117	0	0	5,818	–	14,004	–
1973	0	0	0	36	223	35	843	1,101	0	0	6,717	–	16,081	–
1974	0	0	0	32	216	87	824	1,128	0	0	7,095	–	17,300	–
1975	0	0	0	38	216	77	542	836	0	0	7,138	–	17,217	–
1976	0	0	0	40	214	161	439	814	0	0	7,299	–	17,581	–
1977	0	0	0	38	283	200	455	937	0	0	7,855	–	18,967	–
1978	0	0	0	30	321	171	555	1,046	0	0	8,392	–	20,531	–
1979	0	0	0	30	203	61	931	1,195	0	0	9,304	–	22,454	–
1980	0	0	0	30	2	0	657	659	0	0	9,637	–	23,434	–
1981	0	0	0	26	1	0	634	635	0	0	9,530	–	22,713	–
1982	(s)	0	(s)	29	0	0	801	801	0	0	9,503	–	22,826	–
1983	0	0	0	29	1	2	920	923	0	0	10,427	–	24,980	–
1984	(s)	0	(s)	28	1	2	728	731	0	0	11,110	–	25,860	–
1985	(s)	0	(s)	29	12	3	956	971	0	0	12,249	–	28,778	–
1986	0	0	0	25	11	3	917	931	0	0	12,540	–	28,845	–
1987	(s)	0	(s)	28	19	3	1,102	1,124	0	0	13,821	–	31,579	–
1988	(s)	0	(s)	28	6	3	857	866	0	0	14,731	–	33,303	–
1989	0	0	0	27	7	(s)	823	830	0	0	15,248	–	34,195	–
1990	(s)	0	(s)	30	11	(s)	772	783	[e] 411	[e] 934	15,378	–	R 33,603	–
1991	(s)	(s)	(s)	31	5	1	872	878	433	948	15,641	–	R 34,008	–
1992	1	(s)	1	28	5	2	938	946	456	967	16,230	–	R 34,648	–
1993	(s)	0	(s)	28	5	1	827	833	434	987	16,705	–	R 35,280	–
1994	0	(s)	(s)	30	4	2	844	849	426	1,008	18,212	–	37,981	–
	Trillion Btu													
1960	0.0	0.0	0.0	28.4	0.3	0.0	1.6	1.9	0.0	0.0	4.6	34.9	11.5	46.4
1965	0.0	0.0	0.0	27.1	0.3	(s)	2.9	3.3	0.0	0.0	7.6	38.0	18.2	56.2
1970	0.0	0.0	0.0	31.4	0.6	0.4	3.2	4.1	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	31.7	67.4	76.6	144.0
1980	0.0	0.0	0.0	30.9	(s)	0.0	2.4	2.4	0.0	0.0	32.9	66.2	80.0	146.1
1981	0.0	0.0	0.0	27.7	(s)	0.0	2.3	2.3	0.0	0.0	32.5	62.6	77.5	140.1
1982	(s)	0.0	(s)	31.1	0.0	0.0	2.9	2.9	0.0	0.0	32.4	66.4	77.9	144.3
1983	0.0	0.0	0.0	30.6	(s)	(s)	3.3	3.3	0.0	0.0	35.6	69.5	85.2	154.7
1984	(s)	0.0	(s)	28.9	(s)	(s)	2.6	2.6	0.0	0.0	37.9	69.4	88.2	157.7
1985	(s)	0.0	(s)	29.9	0.1	(s)	3.4	3.5	0.0	0.0	41.8	75.3	98.2	173.5
1986	0.0	0.0	0.0	26.3	0.1	(s)	3.3	3.4	0.0	0.0	42.8	72.6	98.4	171.0
1987	(s)	0.0	(s)	29.5	0.1	(s)	4.0	4.2	0.0	0.0	47.2	60.8	107.7	188.5
1988	(s)	0.0	(s)	29.2	(s)	(s)	3.1	3.2	0.0	0.0	50.3	82.6	113.6	196.2
1989	0.0	0.0	0.0	28.2	(s)	(s)	3.0	3.1	0.0	0.0	52.0	83.3	116.7	200.0
1990	(s)	0.0	(s)	31.3	0.1	(s)	2.8	2.9	[e] 8.2	[e] 3.2	52.5	R [e] 98.0	R 114.7	R [e] 212.7
1991	(s)	(s)	(s)	32.1	(s)	(s)	3.2	3.2	8.7	3.2	53.4	R 100.6	116.0	R 216.6
1992	(s)	(s)	(s)	29.3	(s)	(s)	3.4	3.4	9.1	3.3	55.4	R 100.5	118.2	R 218.7
1993	(s)	0.0	(s)	29.0	(s)	(s)	3.0	3.0	8.7	3.4	57.0	R 101.0	R 120.4	R 221.4
1994	0.0	(s)	(s)	30.5	(s)	(s)	3.1	3.1	8.5	3.4	62.1	107.7	129.6	237.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Arizona

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	0	0	0	19	131	2	128	137	17	416	3,044	–	7,268	–
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	128	152	2	528	11,169	–	25,998	–
1985	1	0	1	25	476	2	169	140	(s)	787	12,295	–	28,885	–
1986	0	0	0	24	381	19	162	165	0	727	13,088	–	30,105	–
1987	(s)	0	(s)	28	530	21	194	356	0	1,101	14,324	–	32,730	–
1988	(s)	0	(s)	28	486	1	151	138	1	776	14,924	–	33,739	–
1989	0	0	0	29	374	3	145	128	0	650	15,778	–	35,385	–
1990	(s)	0	(s)	28	511	2	136	255	0	905	16,058	–	R 35,090	–
1991	(s)	(s)	(s)	28	303	2	154	372	11	842	15,802	–	R 34,357	–
1992	2	(s)	2	27	226	1	166	308	0	700	16,366	–	R 34,937	–
1993	1	0	1	28	167	1	146	191	0	506	16,714	–	R 35,298	–
1994	0	(s)	(s)	29	253	1	149	34	0	437	17,766	–	37,051	–
	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
1965	0.0	0.0	0.0	20.7	0.8	(s)	0.5	0.7	0.1	2.1	10.4	33.2	24.8	58.0
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	(s)	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	(s)	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	(s)	0.0	(s)	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	(s)	0.6	0.9	(s)	2.7	32.6	61.0	78.0	139.1
1984	(s)	0.0	(s)	26.5	1.4	(s)	0.5	0.8	(s)	2.7	38.1	67.3	88.7	156.0
1985	(s)	0.0	(s)	26.5	2.8	(s)	0.6	0.7	(s)	4.1	41.9	72.6	98.6	171.2
1986	0.0	0.0	0.0	25.0	2.2	0.1	0.6	0.9	0.0	3.8	44.7	73.4	102.7	176.1
1987	(s)	0.0	(s)	28.7	3.1	0.1	0.7	1.9	0.0	5.8	48.9	83.3	111.7	195.0
1988	(s)	0.0	(s)	29.3	2.8	(s)	0.6	0.7	(s)	4.1	50.9	84.3	115.1	199.4
1989	0.0	0.0	0.0	29.8	2.2	(s)	0.5	0.7	0.0	3.4	53.8	87.1	120.7	207.8
1990	(s)	0.0	(s)	29.3	3.0	(s)	0.5	1.3	0.0	4.8	54.8	88.9	119.7	208.6
1991	(s)	(s)	(s)	28.3	1.8	(s)	0.6	2.0	0.1	4.4	53.9	R 86.5	117.2	203.8
1992	(s)	(s)	0.1	R 27.9	1.3	(s)	0.6	1.6	0.0	3.5	55.8	87.4	119.2	206.6
1993	(s)	0.0	(s)	R 28.3	1.0	(s)	0.5	1.0	0.0	2.5	57.0	87.9	120.4	208.3
1994	0.0	(s)	(s)	30.0	1.5	(s)	0.5	0.2	0.0	2.2	60.6	92.8	126.4	219.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Arizona

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	10	14	863	1,227	64	222	81	515	27	0	3,000	0	0	0	1,481	–	3,683	–
1965	4	55	1,110	1,545	21	161	93	437	20	0	3,387	0	0	0	3,331	–	7,952	–
1970	5	58	3,679	1,387	85	253	115	456	55	0	6,031	13	0	0	4,751	–	11,514	–
1971	10	61	2,930	1,710	97	242	102	455	78	40	5,655	9	0	0	4,997	–	12,080	–
1972	14	63	3,566	2,637	57	279	109	470	159	97	7,373	13	0	0	5,593	–	13,462	–
1973	12	66	3,416	3,582	49	316	266	454	236	27	8,345	11	0	0	5,972	–	14,297	–
1974	11	65	3,933	3,223	122	451	255	477	248	39	8,747	7	0	0	6,368	–	15,527	–
1975	133	51	2,331	3,113	122	430	205	440	102	39	6,781	14	0	0	6,868	–	16,566	–
1976	364	55	2,032	3,269	159	348	228	376	262	62	6,736	16	0	0	7,203	–	17,352	–
1977	832	50	2,170	4,541	325	353	264	373	401	75	8,502	3	0	0	7,255	–	17,519	–
1978	450	46	2,687	5,641	298	383	284	369	224	77	9,961	11	0	0	7,428	–	18,173	–
1979	1,878	45	2,959	3,929	28	633	297	341	117	73	8,377	16	0	0	8,065	–	19,464	–
1980	643	38	2,061	3,570	73	739	264	309	154	71	7,241	15	0	0	8,003	–	19,461	–
1981	1,214	47	1,637	2,994	89	387	254	270	21	27	5,678	15	0	0	10,033	–	23,910	–
1982	1,516	30	1,522	2,174	6	599	231	214	15	43	4,804	15	0	0	8,071	–	19,385	–
1983	1,504	30	1,647	2,221	2	438	242	186	5	0	4,741	15	0	0	7,912	–	18,957	–
1984	1,804	29	2,485	2,510	2	524	258	250	13	0	6,042	15	0	0	7,467	–	17,381	–
1985	1,915	17	2,563	1,850	11	505	241	404	31	0	5,605	15	0	0	8,457	–	19,869	–
1986	2,289	8	2,530	2,782	33	541	235	419	38	0	6,579	15	0	0	8,358	–	19,225	–
1987	669	18	2,492	2,440	26	586	266	405	17	0	6,232	15	0	0	8,494	–	19,408	–
1988	593	24	2,683	2,031	52	648	257	405	31	0	6,107	15	0	0	9,261	–	20,938	–
1989	689	21	2,386	3,078	47	576	263	420	6	123	6,898	15	0	0	9,722	–	21,803	–
1990	660	18	2,367	3,103	17	544	271	500	18	129	6,948	R f NA	f NA	f NA	10,034	–	R 21,926	–
1991	689	19	2,181	2,617	34	617	242	368	176	R 216	R 6,452	R NA	NA	NA	10,405	–	R 22,622	–
1992	632	20	2,984	2,401	1	934	247	346	94	R 259	R 7,265	R NA	NA	NA	11,055	–	R 23,601	–
1993	674	21	2,328	1,707	1	813	251	338	176	R 131	R 5,745	R NA	NA	NA	10,989	–	R 23,208	–
1994	727	26	2,574	1,784	(s)	789	263	366	45	114	5,937	NA	NA	NA	11,303	–	23,572	–
			Trillion Btu															
1960	0.2	14.2	5.7	7.1	0.4	0.9	0.5	2.7	0.2	0.0	17.5	0.0	0.0	0.0	5.1	36.9	12.6	49.5
1965	0.1	59.4	7.4	9.0	0.1	0.6	0.6	2.3	0.1	0.0	20.1	0.0	0.0	0.0	11.4	90.9	27.1	118.1
1970	0.1	61.2	24.4	8.1	0.5	1.0	0.7	2.4	0.3	0.0	37.4	0.1	0.0	0.0	16.2	115.0	39.3	154.3
1971	0.2	64.2	19.4	10.0	0.6	0.9	0.6	2.4	0.5	0.2	34.6	0.1	0.0	0.0	17.0	116.1	41.2	157.3
1972	0.3	66.5	23.7	15.4	0.3	1.1	0.7	2.5	1.0	0.6	45.1	0.1	0.0	0.0	19.1	131.1	45.9	177.0
1973	0.2	69.0	22.7	20.9	0.3	1.2	1.6	2.4	1.5	0.2	50.6	0.1	0.0	0.0	20.4	140.3	48.8	189.1
1974	0.2	68.9	26.1	18.8	0.7	1.7	1.5	2.5	1.6	0.2	53.1	0.1	0.0	0.0	21.7	144.0	53.0	197.0
1975	2.6	53.4	15.5	18.1	0.7	1.6	1.2	2.3	0.6	0.2	40.3	0.1	0.0	0.0	23.4	119.9	56.5	176.4
1976	7.3	57.2	13.5	19.0	0.9	1.3	1.4	2.0	1.6	0.4	40.1	0.2	0.0	0.0	24.6	129.3	59.2	188.5
1977	17.1	53.0	14.4	26.5	1.8	1.3	1.6	2.0	2.5	0.4	50.5	(s)	0.0	0.0	24.8	145.4	59.8	205.2
1978	9.2	48.8	17.8	32.9	1.7	1.4	1.7	1.9	1.4	0.5	59.3	0.1	0.0	0.0	25.3	142.7	62.0	204.7
1979	38.0	46.4	19.6	22.9	0.2	2.3	1.8	1.8	0.7	0.4	49.8	0.2	0.0	0.0	27.5	161.9	66.4	228.3
1980	13.1	39.5	13.7	20.8	0.4	2.7	1.6	1.6	1.0	0.4	42.2	0.2	0.0	0.0	27.3	122.3	66.4	188.7
1981	24.7	49.9	10.9	17.4	0.5	1.4	1.5	1.4	0.1	0.2	33.5	0.2	0.0	0.0	34.2	142.4	81.6	224.0
1982	30.8	31.4	10.1	12.7	(s)	2.2	1.4	1.1	0.1	0.3	27.9	0.2	0.0	0.0	27.5	117.7	66.1	183.9
1983	30.3	31.1	10.9	12.9	(s)	1.6	1.5	1.0	(s)	0.0	27.9	0.2	0.0	0.0	27.0	116.5	64.7	181.2
1984	36.6	30.5	16.5	14.6	(s)	1.9	1.6	1.3	0.1	0.0	36.0	0.2	0.0	0.0	25.5	128.7	59.3	188.0
1985	38.8	17.3	17.0	10.8	0.1	1.8	1.5	2.1	0.2	0.0	33.4	0.2	0.0	0.0	28.9	118.5	67.8	186.3
1986	46.3	8.8	16.8	16.2	0.2	2.0	1.4	2.2	0.2	0.0	39.0	0.2	0.0	0.0	28.5	122.8	65.6	188.4
1987	13.3	18.4	16.5	14.2	0.1	2.1	1.6	2.1	0.1	0.0	36.9	0.2	0.0	0.0	29.0	97.7	66.2	164.0
1988	12.3	25.0	17.8	11.8	0.3	2.4	1.6	2.1	0.2	0.0	36.2	0.2	0.0	0.0	31.6	105.2	71.4	176.7
1989	14.3	21.6	15.8	17.9	0.3	2.1	1.6	2.2	(s)	0.7	40.7	0.2	0.0	0.0	33.2	109.9	74.4	184.3
1990	13.3	19.0	15.7	18.1	0.1	2.0	1.6	2.6	0.1	0.8	41.0	R f 0.0	f 10.6	f 0.0	34.2	R f 118.1	74.8	R f 192.9
1991	13.7	19.7	14.5	15.2	0.2	2.2	1.5	1.9	1.1	R 1.2	R 37.9	R 0.0	10.6	0.0	35.5	R 117.4	77.2	R 194.6
1992	12.8	20.4	19.8	14.0	(s)	3.4	1.5	1.8	0.6	R 1.5	R 42.6	R 0.0	11.1	0.0	37.7	R 124.7	80.5	R 205.2
1993	13.5	21.8	15.4	9.9	(s)	2.9	1.5	1.8	1.1	R 0.7	R 33.4	R 0.0	10.9	0.0	37.5	R 117.1	79.2	R 196.3
1994	14.7	26.7	17.1	10.4	(s)	2.9	1.6	1.9	0.3	0.6	34.8	0.0	11.3	0.0	38.6	126.0	80.4	206.4

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Arizona

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	(s)	16	699	1,404	4,721	34	193	11,759	17	18,829	0	0	–	0	–
1965	(s)	18	478	1,790	5,545	40	206	14,423	0	22,482	0	0	–	0	–
1970	(s)	24	427	3,192	6,644	63	229	20,940	0	31,494	0	0	–	0	–
1971	(s)	26	419	3,164	6,769	71	223	22,351	0	32,997	0	0	–	0	–
1972	(s)	26	410	4,487	6,738	80	239	24,932	0	36,886	0	0	–	0	–
1973	(s)	24	359	5,645	7,066	54	305	27,210	0	40,640	0	0	–	0	–
1974	(s)	22	405	5,075	7,099	56	292	26,070	0	38,998	0	0	–	0	–
1975	(s)	17	358	4,756	6,995	51	267	27,087	0	39,514	0	0	–	0	–
1976	(s)	15	337	5,043	6,670	50	296	28,378	0	40,774	0	0	–	0	–
1977	(s)	15	375	6,019	7,173	57	347	30,205	0	44,176	0	0	–	0	–
1978	0	15	342	6,510	7,417	106	372	31,901	0	46,647	0	0	–	0	–
1979	0	20	369	6,784	7,832	11	390	31,577	0	46,963	0	0	–	0	–
1980	0	21	281	6,480	7,967	78	347	30,100	0	45,253	0	0	–	0	–
1981	0	24	225	6,639	7,523	146	333	30,369	0	45,236	0	0	–	0	–
1982	0	18	157	5,807	7,714	114	303	30,923	0	45,017	0	0	–	0	–
1983	0	12	156	6,282	7,089	134	318	32,642	0	46,621	0	0	–	0	–
1984	0	14	190	7,100	8,022	130	339	34,190	0	49,971	0	0	–	0	–
1985	0	19	184	7,630	7,154	92	316	35,596	0	50,971	0	0	–	0	–
1986	0	13	226	7,892	7,697	85	309	37,260	0	53,469	0	0	–	0	–
1987	0	17	207	7,331	8,374	60	349	38,420	0	54,741	0	0	–	0	–
1988	0	18	186	7,742	8,478	65	337	39,725	0	56,532	0	0	–	0	–
1989	0	18	210	7,746	8,157	63	345	40,081	0	56,602	0	0	–	0	–
1990	0	25	194	8,223	8,501	55	355	38,345	0	55,674	[e] 5,931	0	–	0	–
1991	0	24	188	7,300	9,642	57	318	39,840	0	57,345	4,701	0	–	0	–
1992	0	23	158	8,546	8,310	57	324	40,911	0	58,306	5,714	0	–	0	–
1993	0	17	128	11,575	7,892	58	330	42,483	0	62,465	6,377	0	–	0	–
1994	0	25	142	11,026	7,401	84	345	44,808	0	63,807	7,073	0	–	0	–
			Trillion Btu												
1960	(s)	16.5	3.5	8.2	25.3	0.1	1.2	61.8	0.1	100.2	0.0	0.0	116.7	0.0	116.7
1965	(s)	19.4	2.4	10.4	30.1	0.2	1.2	75.8	0.0	120.1	0.0	0.0	139.4	0.0	139.4
1970	(s)	25.4	2.2	18.6	36.4	0.2	1.4	110.0	0.0	168.8	0.0	0.0	194.1	0.0	194.1
1971	(s)	27.7	2.1	18.4	37.1	0.3	1.4	117.4	0.0	176.6	0.0	0.0	204.3	0.0	204.3
1972	(s)	27.3	2.1	26.1	37.0	0.3	1.5	131.0	0.0	197.9	0.0	0.0	225.2	0.0	225.2
1973	(s)	25.2	1.8	32.9	39.0	0.2	1.9	142.9	0.0	218.6	0.0	0.0	243.9	0.0	243.9
1974	(s)	23.6	2.0	29.6	39.1	0.2	1.8	136.9	0.0	209.6	0.0	0.0	233.3	0.0	233.3
1975	(s)	17.9	1.8	27.7	38.6	0.2	1.6	142.3	0.0	212.2	0.0	0.0	230.1	0.0	230.1
1976	(s)	16.1	1.7	29.4	36.8	0.2	1.8	149.1	0.0	218.9	0.0	0.0	235.0	0.0	235.0
1977	(s)	15.7	1.9	35.1	39.6	0.2	2.1	158.7	0.0	237.5	0.0	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	0.0	267.0	0.0	267.0
1979	0.0	21.2	1.9	39.5	43.4	(s)	2.4	165.9	0.0	253.0	0.0	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	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	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	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	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	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	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	0.0	300.7	0.0	300.7
1987	0.0	17.3	1.0	42.7	46.4	0.2	2.1	201.8	0.0	294.3	0.0	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	0.0	323.0	0.0	323.0
1989	0.0	19.2	1.1	45.1	45.3	0.2	2.1	210.5	0.0	304.3	0.0	0.0	323.6	0.0	323.6
1990	0.0	26.1	1.0	47.9	47.3	0.2	2.2	201.4	0.0	300.0	[e] 0.5	0.0	[e] 326.0	0.0	[e] 326.0
1991	0.0	24.1	1.0	42.5	53.7	0.2	1.9	209.3	0.0	308.6	0.4	0.0	R 332.8	0.0	R 332.8
1992	0.0	24.1	0.8	49.8	46.4	0.2	2.0	214.9	0.0	314.1	0.4	0.0	338.2	0.0	338.2
1993	0.0	R 17.9	0.6	67.4	44.2	0.2	2.0	223.2	0.0	337.7	0.5	0.0	R 355.6	0.0	R 355.6
1994	0.0	25.7	0.7	64.2	41.9	0.3	2.1	235.4	0.0	344.7	0.5	0.0	370.3	0.0	370.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Arizona

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	0	0	0	53	41	3	0	44	0	2,975	18	0	0	–
1965	333	0	333	37	44	3	0	47	0	4,410	0	0	0	–
1970	401	0	401	59	19	1	0	20	0	6,089	0	0	0	–
1971	414	0	414	68	407	6	0	414	0	6,574	0	0	0	–
1972	348	0	348	78	1,401	119	0	1,520	0	6,638	0	0	0	–
1973	469	0	469	57	6,949	504	0	7,454	0	7,093	0	0	0	–
1974	2,220	0	2,220	40	7,771	666	0	8,437	0	7,372	0	0	0	–
1975	4,259	0	4,259	18	5,756	1,653	0	7,410	0	7,226	0	0	0	–
1976	6,286	0	6,286	24	5,187	1,101	0	6,288	0	7,543	0	0	0	–
1977	7,551	0	7,551	29	6,981	1,205	0	8,185	0	6,578	0	0	0	–
1978	7,007	0	7,007	54	4,431	1,194	0	5,625	0	6,974	0	0	0	–
1979	9,811	0	9,811	51	4,731	600	0	5,331	0	7,201	0	0	0	–
1980	10,916	0	10,916	50	1,185	436	0	1,622	0	9,780	0	0	0	–
1981	14,026	0	14,026	58	203	296	0	499	0	6,777	0	0	0	–
1982	14,484	0	14,484	31	145	256	0	400	0	6,993	0	0	0	–
1983	12,464	0	12,464	19	529	218	0	747	0	14,466	0	0	0	–
1984	13,601	0	13,601	25	530	180	0	710	0	15,663	0	0	0	–
1985	14,448	0	14,448	42	145	211	0	357	1,130	13,972	0	0	0	–
1986	11,861	0	11,861	31	2	240	0	242	9,976	14,444	0	0	0	–
1987	12,706	0	12,706	27	104	328	0	432	13,458	10,118	0	0	0	–
1988	13,932	0	13,932	25	22	197	0	219	22,940	7,769	0	0	0	–
1989	16,182	0	16,182	51	147	214	0	361	7,850	7,875	0	0	0	–
1990	15,758	0	15,758	24	10	200	0	210	20,598	R7,667	0	0	0	–
1991	16,116	0	16,116	23	14	145	0	159	25,096	R7,098	0	0	0	–
1992	17,280	0	17,280	31	11	123	0	135	25,609	R6,911	0	0	0	–
1993	18,316	0	18,316	20	16	95	0	110	22,049	R7,023	0	0	0	–
1994	18,853	0	18,853	24	155	68	0	224	23,171	7,670	0	0	0	–
	Trillion Btu													
1960	0.0	0.0	0.0	55.1	0.3	(s)	0.0	0.3	0.0	32.0	0.2	0.0	0.0	87.6
1965	6.9	0.0	6.9	39.5	0.3	(s)	0.0	0.3	0.0	46.1	0.0	0.0	0.0	92.9
1970	8.5	0.0	8.5	62.4	0.1	(s)	0.0	0.1	0.0	63.9	0.0	0.0	0.0	134.9
1971	8.7	0.0	8.7	72.4	2.6	(s)	0.0	2.6	0.0	68.9	0.0	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	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	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	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	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	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	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	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	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	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	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	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	0.0	441.9
1984	288.2	0.0	288.2	26.7	3.3	1.1	0.0	4.4	0.0	163.5	0.0	0.0	0.0	482.8
1985	303.2	0.0	303.2	44.2	0.9	1.2	0.0	2.1	12.2	146.0	0.0	0.0	0.0	507.7
1986	249.6	0.0	249.6	32.0	(s)	1.4	0.0	1.4	107.7	150.9	0.0	0.0	0.0	541.6
1987	269.6	0.0	269.6	27.6	0.7	1.9	0.0	2.6	145.0	105.4	0.0	0.0	0.0	550.2
1988	296.7	0.0	296.7	26.2	0.1	1.1	0.0	1.3	246.4	80.2	0.0	0.0	0.0	650.9
1989	342.9	0.0	342.9	52.6	0.9	1.2	0.0	2.2	84.2	81.2	0.0	0.0	0.0	563.1
1990	330.3	0.0	330.3	25.1	0.1	1.2	0.0	1.2	220.0	79.2	0.0	0.0	0.0	655.9
1991	333.8	0.0	333.8	23.9	0.1	0.8	0.0	0.9	269.5	R73.5	0.0	0.0	0.0	702.7
1992	356.1	0.0	356.1	31.9	0.1	0.7	0.0	0.8	273.4	71.2	0.0	0.0	0.0	733.4
1993	376.3	0.0	376.3	21.0	0.1	0.6	0.0	0.7	235.5	72.2	0.0	0.0	0.0	705.6
1994	387.6	0.0	387.6	24.3	1.0	0.4	0.0	1.4	247.4	78.8	0.0	0.0	0.0	739.4

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Arkansas

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kero-sene [a]	LPG [a]	Lubri-cants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	1,981	28,564	0	992	0	0	2,208	–
1965	6	277	1,295	482	2,828	2,094	386	5,599	468	17,922	453	2,836	34,362	0	1,080	0	0	7,475	–
1970	0	382	2,104	293	5,462	2,204	821	10,198	531	22,457	935	2,832	47,837	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	3,502	52,552	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	3,129	60,471	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	3,359	67,120	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	3,219	67,058	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	3,224	64,784	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	3,365	71,503	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	4,014	78,885	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	3,992	77,639	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	4,133	66,771	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	4,159	57,515	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	4,160	55,075	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	3,387	53,515	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	2,811	53,958	7,646	3,315	0	0	-15,421	–
1984	9,435	210	757	113	13,930	2,016	2,897	3,172	684	27,334	480	3,284	54,666	10,808	2,723	0	0	-13,972	–
1985	12,682	196	1,263	86	14,911	2,030	156	3,673	637	26,718	735	2,448	52,658	9,889	4,434	0	0	-30,696	–
1986	12,849	199	982	111	13,270	1,919	52	3,803	623	27,901	926	R 1,596	R 51,182	8,876	2,813	0	0	-33,455	–
1987	12,066	170	1,018	92	13,453	2,063	44	3,503	704	28,509	265	R 1,691	R 51,343	11,369	2,407	0	0	-33,346	–
1988	12,555	217	1,373	100	14,181	2,221	51	3,552	679	29,578	355	R 1,776	R 53,867	8,895	2,785	0	0	-23,597	–
1989	11,547	250	778	103	14,522	1,938	47	3,786	697	29,395	372	R 1,765	R 53,403	8,844	3,084	0	0	-19,472	–
1990	12,092	232	495	125	14,258	1,693	38	3,463	717	28,830	231	R 1,863	R 51,714	11,282	R I NA	I NA	I NA	R -29,828	–
1991	12,261	209	533	144	13,478	1,792	36	3,309	641	28,986	146	R 1,640	R 50,706	12,662	R NA	NA	NA	R -30,270	–
1992	12,538	225	1,174	152	15,340	1,134	22	3,012	654	29,407	31	R 1,876	R 52,802	11,326	R NA	NA	NA	R -27,338	–
1993	11,447	231	1,453	134	15,659	1,031	28	3,478	666	30,463	224	R 1,805	R 54,942	13,522	R NA	NA	NA	R -20,452	–
1994	12,596	244	1,066	157	17,162	1,634	28	3,378	696	30,885	323	1,893	57,221	13,924	NA	NA	NA	-23,667	–
			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	11.8	149.5	0.0	10.7	0.0	0.0	7.5	390.2
1965	0.2	277.7	8.6	2.4	16.5	11.2	2.2	22.5	2.8	94.1	2.8	17.0	180.2	0.0	11.3	0.0	0.0	25.5	494.8
1970	0.0	383.5	14.0	1.5	31.8	11.9	4.7	38.5	3.2	118.0	5.9	17.0	246.4	0.0	22.7	0.0	0.0	22.1	674.6
1971	0.1	335.0	15.8	1.4	32.0	12.4	3.4	40.7	3.1	124.8	18.6	20.5	272.6	0.0	18.9	0.0	0.0	43.4	670.0
1972	0.1	317.6	16.0	1.6	46.4	11.8	3.0	45.2	3.3	135.2	35.5	18.3	316.1	0.0	17.1	0.0	0.0	62.5	713.4
1973	2.3	327.5	17.3	1.5	57.6	10.9	6.0	40.4	3.6	141.4	60.3	19.6	358.6	0.0	44.2	0.0	0.0	57.1	789.6
1974	2.7	290.1	16.2	1.5	60.1	11.0	4.3	36.9	3.4	141.9	66.2	18.7	360.1	4.0	44.6	0.0	0.0	67.2	768.7
1975	0.9	257.4	15.1	1.3	55.7	10.8	3.9	35.2	3.7	145.0	57.1	18.8	346.7	53.7	35.7	0.0	0.0	61.7	756.1
1976	3.6	248.2	16.3	1.2	59.1	10.3	3.6	36.1	4.2	152.8	83.4	19.5	386.5	42.6	21.0	0.0	0.0	105.3	807.1
1977	5.2	234.4	16.6	1.3	68.7	11.0	5.3	33.2	4.2	156.4	112.2	23.4	432.3	54.8	18.7	0.0	0.0	99.6	845.0
1978	22.8	220.9	17.6	1.4	71.6	10.4	6.6	24.8	4.6	160.8	108.2	23.2	429.3	57.1	25.1	0.0	0.0	90.1	845.2
1979	31.7	255.0	21.3	1.3	84.8	10.4	2.8	18.5	4.8	130.4	72.6	23.7	370.6	42.1	34.9	0.0	0.0	106.4	840.8
1980	36.6	274.0	18.4	1.4	62.2	11.0	3.2	17.8	4.2	139.1	31.3	23.6	312.5	85.4	17.6	0.0	0.0	96.1	822.2
1981	101.9	265.1	14.0	1.3	76.3	9.5	2.0	13.7	4.1	138.2	16.4	23.9	299.3	100.1	12.9	0.0	0.0	0.8	780.1
1982	125.2	227.4	12.7	1.0	76.4	10.9	2.9	14.8	3.7	136.3	11.0	19.5	289.1	82.9	22.0	0.0	0.0	0.6	747.2
1983	177.5	211.7	12.2	1.0	76.5	8.7	16.3	14.8	3.9	136.5	4.8	16.3	291.0	83.4	34.9	0.0	0.0	-52.6	745.8
1984	163.9	214.4	5.0	0.6	81.1	10.9	16.4	11.4	4.1	143.6	3.0	18.7	295.0	117.2	28.4	0.0	0.0	-47.7	771.3
1985	219.8	199.3	8.4	0.4	86.9	11.0	0.9	13.2	3.9	140.4	4.6	13.8	283.5	106.9	46.3	0.0	0.0	-104.7	751.2
1986	224.5	203.0	6.5	0.6	77.3	10.4	0.3	13.8	3.8	146.6	5.8	R 9.2	R 274.3	95.9	29.4	0.0	0.0	-114.1	R 713.0
1987	211.0	172.3	6.8	0.5	78.4	11.3	0.2	12.8	4.3	149.8	1.7	R 9.7	R 275.3	122.5	25.1	0.0	0.0	-113.8	R 692.4
1988	218.8	218.8	9.1	0.5	82.6	12.2	0.3	13.0	4.1	155.4	2.2	R 10.2	R 289.6	95.6	28.8	0.0	0.0	-80.5	R 771.0
1989	202.7	251.1	5.2	0.5	84.6	10.6	0.3	13.9	4.2	154.4	2.3	R 10.1	R 288.1	94.8	31.8	0.0	0.0	-66.4	R 800.2
1990	212.7	234.5	3.3	0.6	83.1	9.2	0.2	12.6	4.3	151.4	1.5	R 10.7	R 276.9	120.5	I 38.2	I 66.1	I 1.1	-101.8	R I 848.2
1991	216.1	212.7	3.5	0.7	78.5	9.7	0.2	12.0	3.9	152.3	0.9	R 9.5	R 271.3	136.0	36.9	66.2	1.1	R -103.3	R 836.9
1992	220.7	226.6	7.8	0.8	89.4	6.2	0.1	10.9	4.0	154.5	0.2	R 10.8	R 284.6	120.9	34.8	69.6	1.1	R -93.3	R 865.1
1993	200.4	234.4	9.6	0.7	91.2	5.7	0.2	12.5	4.0	160.0	1.4	R 10.4	R 295.8	144.4	R 46.4	71.0	1.1	R -69.8	R 923.7
1994	221.9	249.8	7.1	0.8	100.0	9.1	0.2	12.3	4.2	162.2	2.0	10.9	308.8	148.6	35.6	71.4	1.1	-80.8	956.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Arkansas

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	0	0	0	33	24	62	2,831	2,918	0	0	1,339	–	3,331	–
1965	0	0	0	37	43	63	3,420	3,527	0	0	2,333	–	5,571	–
1970	0	0	0	60	70	147	6,552	6,769	0	0	4,321	–	10,472	–
1971	0	0	0	49	69	110	6,960	7,139	0	0	4,737	–	11,453	–
1972	0	0	0	47	153	80	7,564	7,797	0	0	5,483	–	13,198	–
1973	0	0	0	49	161	237	6,779	7,177	0	0	6,142	–	14,703	–
1974	0	0	0	44	214	162	5,974	6,349	0	0	6,082	–	14,831	–
1975	0	0	0	49	161	128	5,162	5,451	0	0	7,751	–	18,697	–
1976	0	0	0	49	191	120	5,459	5,770	0	0	7,746	–	18,659	–
1977	1	0	1	49	231	178	5,281	5,690	0	0	8,816	–	21,288	–
1978	1	0	1	48	224	231	3,701	4,155	0	0	9,322	–	22,806	–
1979	0	0	0	50	416	73	2,800	3,289	0	0	8,862	–	21,387	–
1980	2	0	2	47	152	0	2,142	2,294	0	0	10,227	–	24,869	–
1981	(s)	0	(s)	43	20	42	1,739	1,801	0	0	8,426	–	20,082	–
1982	1	0	1	45	14	51	1,653	1,718	0	0	8,617	–	20,696	–
1983	(s)	0	(s)	43	1	883	1,966	2,850	0	0	8,798	–	21,077	–
1984	1	0	1	46	1	777	1,811	2,589	0	0	8,764	–	20,398	–
1985	(s)	0	(s)	40	1	31	2,083	2,114	0	0	8,936	–	20,994	–
1986	0	0	0	39	1	25	2,299	2,325	0	0	9,254	–	21,286	–
1987	(s)	0	(s)	40	2	21	1,918	1,941	0	0	9,708	–	22,181	–
1988	(s)	0	(s)	43	1	25	1,877	1,904	0	0	9,946	–	22,485	–
1989	1	0	1	42	1	29	2,042	2,072	0	0	9,957	–	22,331	–
1990	(s)	0	(s)	39	(s)	20	1,851	1,871	[o]246	[o]331	10,558	–	R23,071	–
1991	(s)	0	(s)	41	1	14	1,674	1,688	259	331	11,001	–	R23,918	–
1992	(s)	1	1	39	13	7	1,498	1,518	272	332	10,440	–	R22,287	–
1993	(s)	(s)	(s)	46	1	10	1,708	1,718	241	331	11,762	–	R24,840	–
1994	(s)	(s)	(s)	42	1	6	1,669	1,676	237	332	11,642	–	24,279	–
	Trillion Btu													
1960	0.0	0.0	0.0	34.4	0.1	0.4	11.4	11.9	0.0	0.0	4.6	50.8	11.4	62.2
1965	0.0	0.0	0.0	36.5	0.3	0.4	13.7	14.3	0.0	0.0	8.0	58.8	19.0	77.8
1970	0.0	0.0	0.0	60.0	0.4	0.8	24.8	26.0	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	26.4	97.6	63.7	161.3
1977	(s)	0.0	(s)	50.0	1.3	1.0	19.4	21.8	0.0	0.0	30.1	101.9	72.6	174.5
1978	(s)	0.0	(s)	47.9	1.3	1.3	13.6	16.2	0.0	0.0	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	0.0	0.0	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	0.0	0.0	34.9	90.3	84.9	175.1
1981	(s)	0.0	(s)	42.6	0.1	0.2	6.3	6.7	0.0	0.0	28.8	78.0	68.5	146.6
1982	(s)	0.0	(s)	44.7	0.1	0.3	6.0	6.3	0.0	0.0	29.4	80.5	70.6	151.1
1983	(s)	0.0	(s)	43.7	(s)	5.0	7.1	12.1	0.0	0.0	30.0	85.8	71.9	157.7
1984	(s)	0.0	(s)	46.8	(s)	4.4	6.5	10.9	0.0	0.0	29.9	87.6	69.6	157.2
1985	(s)	0.0	(s)	40.9	(s)	0.2	7.5	7.7	0.0	0.0	30.5	79.0	71.6	150.7
1986	0.0	0.0	0.0	39.0	(s)	0.1	8.4	8.5	0.0	0.0	31.6	79.1	72.6	151.8
1987	(s)	0.0	(s)	40.6	(s)	0.1	7.0	7.1	0.0	0.0	33.1	80.8	75.7	156.5
1988	(s)	0.0	(s)	43.2	(s)	0.1	6.9	7.0	0.0	0.0	33.9	84.1	76.7	160.8
1989	(s)	0.0	(s)	42.5	(s)	0.2	7.5	7.7	0.0	0.0	34.0	84.2	76.2	160.4
1990	(s)	0.0	(s)	39.5	(s)	0.1	6.7	6.8	[o]4.9	[o]1.1	36.0	R[o]88.4	78.7	R[o]167.1
1991	(s)	0.0	(s)	41.3	(s)	0.1	6.0	6.1	5.2	1.1	37.5	R91.3	81.6	R172.9
1992	(s)	(s)	(s)	39.7	0.1	(s)	5.4	5.5	5.4	1.1	35.6	R87.5	76.0	R163.6
1993	(s)	(s)	(s)	46.1	(s)	0.1	6.2	6.2	4.8	1.1	40.1	R98.4	R84.8	R183.2
1994	(s)	(s)	(s)	42.4	(s)	(s)	6.1	6.1	4.7	1.1	39.7	94.1	82.8	177.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[o] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Arkansas

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	0	0	0	28	24	39	604	127	88	883	1,834	–	4,379	–
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	(s)	0	(s)	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	(s)	0	(s)	28	1,516	1,719	347	132	113	3,827	5,099	–	12,216	–
1984	3	0	3	29	1,489	1,886	320	91	76	3,861	5,592	–	13,015	–
1985	1	0	1	27	1,172	84	368	119	0	1,743	5,848	–	13,739	–
1986	0	0	0	25	186	7	406	117	3	719	5,915	–	13,607	–
1987	(s)	0	(s)	25	359	5	339	130	0	833	6,131	–	14,008	–
1988	(s)	0	(s)	27	254	10	331	124	0	719	6,396	–	14,459	–
1989	2	0	2	27	440	2	360	108	0	910	6,566	–	14,725	–
1990	(s)	0	(s)	25	439	1	327	141	0	909	6,681	–	R 14,600	–
1991	(s)	0	(s)	26	342	2	295	81	0	720	6,922	–	R 15,050	–
1992	(s)	1	1	25	378	5	264	71	4	722	6,760	–	R 14,430	–
1993	(s)	(s)	(s)	29	426	5	301	28	1	762	7,292	–	R 15,401	–
1994	(s)	(s)	(s)	27	435	4	294	29	0	763	7,451	–	15,539	–
					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
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
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	(s)	0.0	(s)	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	(s)	0.0	(s)	28.1	1.0	0.3	1.1	0.9	0.9	4.3	16.4	48.9	39.1	88.0
1982	(s)	0.0	(s)	29.3	0.8	0.4	1.1	0.9	0.9	4.1	17.2	50.6	41.3	91.9
1983	(s)	0.0	(s)	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	1.2	0.5	0.5	21.5	19.1	70.1	44.4	114.6
1985	(s)	0.0	(s)	27.2	6.8	0.5	1.3	0.6	0.0	9.3	20.0	56.4	46.9	103.3
1986	0.0	0.0	0.0	25.3	1.1	(s)	1.5	0.6	(s)	3.2	20.2	48.7	46.4	95.1
1987	(s)	0.0	(s)	24.9	2.1	(s)	1.2	0.7	0.0	4.0	20.9	49.9	47.8	97.7
1988	(s)	0.0	(s)	27.6	1.5	0.1	1.2	0.7	0.0	3.4	21.8	52.9	49.3	102.2
1989	0.1	0.0	0.1	27.4	2.6	(s)	1.3	0.6	0.0	4.5	22.4	54.3	50.2	104.6
1990	(s)	0.0	(s)	25.3	2.6	(s)	1.2	0.7	0.0	4.5	22.8	52.6	49.8	102.4
1991	(s)	0.0	(s)	26.4	2.0	(s)	1.1	0.4	0.0	3.5	23.6	53.5	R 51.4	104.9
1992	(s)	(s)	(s)	25.5	2.2	(s)	1.0	0.4	(s)	3.6	23.1	52.2	49.2	101.4
1993	(s)	(s)	(s)	29.4	2.5	(s)	1.1	0.1	(s)	3.8	24.9	58.0	52.5	R 110.6
1994	(s)	(s)	(s)	28.0	2.5	(s)	1.1	0.1	0.0	3.8	25.4	57.2	53.0	110.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Arkansas

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	14	108	1,003	1,055	465	1,183	269	431	315	1,981	6,703	0	0	0	3,161	–	7,864	–
1965	6	134	1,295	1,057	283	1,141	163	485	291	2,836	7,551	0	0	0	4,883	–	11,660	–
1970	0	162	2,104	1,962	584	1,798	231	291	191	2,832	9,993	0	0	0	6,333	–	15,346	–
1971	2	156	2,381	1,885	426	1,755	229	260	198	3,502	10,636	0	0	0	6,546	–	15,827	–
1972	2	151	2,410	2,869	405	2,202	245	250	882	3,129	12,392	0	0	0	6,949	–	16,727	–
1973	97	181	2,600	3,199	682	2,050	267	194	1,993	3,359	14,342	0	0	0	7,269	–	17,402	–
1974	115	162	2,441	3,247	490	2,204	255	125	2,932	3,219	14,912	0	0	0	7,397	–	18,035	–
1975	40	132	2,276	2,841	480	2,715	308	169	3,634	3,224	15,646	0	0	0	5,994	–	14,459	–
1976	167	140	2,452	3,190	438	2,504	342	113	3,550	3,365	15,952	0	0	0	8,338	–	20,086	–
1977	245	131	2,502	4,431	645	2,042	268	11	3,079	4,014	16,992	0	0	0	9,341	–	22,556	–
1978	310	120	2,655	4,640	798	1,661	288	0	2,822	3,992	16,854	0	0	0	9,614	–	23,521	–
1979	345	125	3,208	6,399	370	1,697	301	7	2,901	4,133	19,016	0	0	0	10,854	–	26,194	–
1980	296	126	2,770	3,544	439	2,122	268	51	1,438	4,159	14,793	0	0	0	10,946	–	26,617	–
1981	358	129	2,110	4,612	256	1,500	257	39	1,742	4,160	14,675	0	0	0	10,055	–	23,963	–
1982	350	111	1,915	4,538	382	1,810	234	25	1,493	3,387	13,784	0	0	0	8,627	–	20,720	–
1983	436	96	1,832	4,993	271	1,405	245	16	600	2,811	12,174	0	0	0	9,301	–	22,284	–
1984	396	100	757	4,903	235	850	262	485	401	3,284	11,179	0	0	0	10,235	–	23,824	–
1985	379	109	1,263	6,041	41	1,076	244	630	726	2,448	12,470	0	0	0	9,049	–	21,260	–
1986	344	101	982	5,257	20	1,006	238	482	875	R1,596	R10,456	0	0	0	7,763	–	17,857	–
1987	302	67	1,018	4,662	18	1,171	270	469	265	R1,691	R9,563	0	0	0	8,358	–	19,097	–
1988	260	117	1,373	4,970	16	1,269	260	452	220	R1,776	R10,336	0	0	0	8,931	–	20,191	–
1989	267	141	778	3,623	16	1,313	267	358	238	R1,765	R8,357	0	0	0	9,562	–	21,443	–
1990	256	127	495	3,567	17	1,202	274	414	217	R1,863	R8,050	Rf NA	f NA	f NA	10,126	–	R22,128	–
1991	283	106	533	2,675	20	1,262	246	453	145	R1,640	R6,974	R NA	NA	NA	10,518	–	R22,867	–
1992	295	125	1,174	4,390	9	1,187	250	439	27	R1,876	R9,353	R NA	NA	NA	11,251	–	R24,020	–
1993	330	126	1,453	3,800	13	1,400	255	393	219	R1,805	R9,338	R NA	NA	NA	12,609	–	R26,629	–
1994	346	139	1,066	3,596	17	1,291	266	425	269	1,893	8,823	NA	NA	NA	13,526	–	28,208	–
			Trillion Btu															
1960	0.4	112.1	6.7	6.1	2.6	4.7	1.6	2.3	2.0	11.8	37.9	0.0	0.0	0.0	10.8	161.2	26.8	188.0
1965	0.2	134.2	8.6	6.2	1.6	4.6	1.0	2.5	1.8	17.0	43.3	0.0	0.0	0.0	16.7	194.3	39.8	234.1
1970	0.0	162.8	14.0	11.4	3.3	6.8	1.4	1.5	1.2	17.0	56.6	0.0	0.0	0.0	21.6	241.0	52.4	293.3
1971	0.1	156.5	15.8	11.0	2.4	6.6	1.4	1.4	1.2	20.5	60.3	0.0	0.0	0.0	22.3	239.3	54.0	293.3
1972	0.1	151.1	16.0	16.7	2.3	8.3	1.5	1.3	5.5	18.3	69.9	0.0	0.0	0.0	23.7	244.7	57.1	301.8
1973	2.3	180.3	17.3	18.6	3.9	7.7	1.6	1.0	12.5	19.6	82.2	0.0	0.0	0.0	24.8	289.6	59.4	348.9
1974	2.7	161.6	16.2	18.9	2.8	8.2	1.5	0.7	18.4	18.7	85.4	0.0	0.0	0.0	25.2	274.9	61.5	336.4
1975	0.9	131.7	15.1	16.5	2.7	10.1	1.9	0.9	22.8	18.8	88.8	0.0	0.0	0.0	20.5	241.9	49.3	291.2
1976	3.6	139.6	16.3	18.6	2.5	9.3	2.1	0.6	22.3	19.5	91.1	0.0	0.0	0.0	28.5	262.8	68.5	331.3
1977	5.2	133.3	16.6	25.8	3.7	7.5	1.6	0.1	19.4	23.4	98.0	0.0	0.0	0.0	31.9	268.3	77.0	345.3
1978	6.6	119.8	17.6	27.0	4.5	6.1	1.7	0.0	17.7	23.2	98.0	0.0	0.0	0.0	32.8	257.2	80.3	337.4
1979	7.3	126.8	21.3	37.3	2.1	6.2	1.8	(s)	18.2	23.7	110.7	0.0	0.0	0.0	37.0	281.9	89.4	371.3
1980	6.3	125.1	18.4	20.6	2.5	7.8	1.6	0.3	9.0	23.6	83.9	0.0	0.0	0.0	37.3	252.7	90.8	343.5
1981	7.7	128.5	14.0	26.9	1.5	5.5	1.6	0.2	10.9	23.9	84.4	0.0	0.0	0.0	34.3	254.9	81.8	336.6
1982	7.5	110.2	12.7	26.4	2.2	6.5	1.4	0.1	9.4	19.5	78.3	0.0	0.0	0.0	29.4	225.4	70.7	296.1
1983	9.3	97.6	12.2	29.1	1.5	5.1	1.5	0.1	3.8	16.3	69.5	0.0	0.0	0.0	31.7	208.2	76.0	284.2
1984	8.5	101.6	5.0	28.6	1.3	3.1	1.6	2.6	2.5	18.7	63.4	0.0	0.0	0.0	34.9	208.5	81.3	289.7
1985	8.1	110.9	8.4	35.2	0.2	3.9	1.5	3.3	4.6	13.8	70.9	0.0	0.0	0.0	30.9	220.8	72.5	293.3
1986	7.7	102.7	6.5	30.6	0.1	3.7	1.4	2.5	5.5	R9.2	R59.6	0.0	0.0	0.0	26.5	R198.5	60.9	R257.4
1987	6.7	68.0	6.8	27.2	0.1	4.3	1.6	2.5	1.7	R9.7	R53.7	0.0	0.0	0.0	28.5	R156.9	65.2	R222.1
1988	5.8	117.7	9.1	29.0	0.1	4.6	1.6	2.4	1.4	R10.2	R58.3	0.0	0.0	0.0	30.5	R212.3	68.9	R281.2
1989	6.0	141.5	5.2	21.1	0.1	4.8	1.6	1.9	1.5	R10.1	R46.3	0.0	0.0	0.0	32.6	R226.4	73.2	R299.6
1990	5.8	128.3	3.3	20.8	0.1	4.4	1.7	2.2	1.4	R10.7	R44.4	(s)	f 61.2	f 0.0	34.6	Rf 274.2	75.5	Rf 349.7
1991	6.8	108.0	3.5	15.6	0.1	4.6	1.5	2.4	0.9	R9.5	R38.1	R(s)	61.0	0.0	35.9	R249.8	78.0	R327.8
1992	7.1	125.5	7.8	25.6	0.1	4.3	1.5	2.3	0.2	R10.8	R52.5	R(s)	64.1	0.0	38.4	R287.6	R82.0	R369.6
1993	7.7	127.4	9.6	22.1	0.1	5.0	1.5	2.1	1.4	R10.4	R52.3	R(s)	66.1	0.0	43.0	R296.6	R90.9	R387.5
1994	8.6	141.7	7.1	20.9	0.1	4.7	1.6	2.2	1.7	10.9	49.3	(s)	66.7	0.0	46.2	312.4	96.2	408.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Arkansas

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	(s)	9	177	926	2,237	309	274	14,093	3	18,019	0	0	–	0	–
1965	(s)	11	482	1,703	2,094	434	305	17,310	36	22,364	0	0	–	0	–
1970	0	13	293	3,383	2,204	692	300	21,985	5	28,862	0	0	–	0	–
1971	(s)	12	287	3,473	2,292	834	277	23,357	0	30,520	0	0	–	0	–
1972	(s)	13	314	4,813	2,181	928	296	25,352	0	33,885	0	0	–	0	–
1973	(s)	15	293	6,423	2,012	765	326	26,599	7	36,426	0	0	–	0	–
1974	(s)	14	295	6,703	2,031	673	312	26,753	13	36,780	0	0	–	0	–
1975	(s)	12	254	6,410	1,995	679	308	27,299	11	36,957	0	0	–	0	–
1976	(s)	9	244	6,609	1,906	790	343	28,836	0	38,728	0	0	–	0	–
1977	(s)	9	259	6,837	2,029	780	432	29,623	4	39,964	0	0	–	0	–
1978	0	11	272	7,026	1,920	744	464	30,437	8	40,871	0	0	–	0	–
1979	0	12	252	7,421	1,921	49	485	24,646	0	34,774	0	0	–	0	–
1980	0	11	275	6,699	2,035	205	432	26,276	0	35,922	0	0	–	0	–
1981	0	10	249	8,262	1,747	217	414	26,096	0	36,985	0	0	–	0	–
1982	0	9	193	8,390	2,011	326	378	25,754	0	37,052	0	0	–	0	–
1983	0	8	200	6,578	1,604	387	396	25,846	0	35,011	0	0	–	0	–
1984	0	10	113	7,522	2,016	191	422	26,757	0	37,020	0	0	–	0	–
1985	0	8	86	7,685	2,030	147	393	25,969	0	36,311	0	0	–	0	–
1986	0	6	111	7,812	1,919	92	384	27,302	0	37,620	0	0	–	0	–
1987	0	6	92	8,420	2,063	75	435	27,910	0	38,996	0	0	–	0	–
1988	0	8	100	8,825	2,221	74	419	29,002	0	40,642	0	0	–	0	–
1989	0	10	103	10,315	1,938	71	430	28,929	0	41,786	0	0	–	0	–
1990	0	9	125	10,111	1,693	84	442	28,275	0	40,730	[e] 233	0	–	0	–
1991	0	8	144	10,333	1,792	78	396	28,452	0	41,195	185	0	–	0	–
1992	0	8	152	10,464	1,134	62	404	28,897	0	41,113	225	0	–	0	–
1993	0	10	134	11,307	1,031	68	411	30,041	0	42,993	251	0	–	0	–
1994	0	12	157	13,007	1,634	124	429	30,432	0	45,783	278	0	–	0	–
			Trillion Btu												
1960	(s)	9.5	0.9	5.4	12.0	1.2	1.7	74.0	(s)	95.2	0.0	0.0	104.7	0.0	104.7
1965	(s)	11.4	2.4	9.9	11.2	1.7	1.8	90.9	0.2	118.3	0.0	0.0	129.7	0.0	129.7
1970	0.0	13.5	1.5	19.7	11.9	2.6	1.8	115.5	(s)	153.0	0.0	0.0	166.5	0.0	166.5
1971	(s)	11.8	1.4	20.2	12.4	3.1	1.7	122.7	0.0	161.6	0.0	0.0	173.3	0.0	173.3
1972	(s)	13.2	1.6	28.0	11.8	3.5	1.8	133.2	0.0	179.9	0.0	0.0	193.0	0.0	193.0
1973	(s)	15.4	1.5	37.4	10.9	2.9	2.0	139.7	(s)	194.4	0.0	0.0	209.8	0.0	209.8
1974	(s)	13.5	1.5	39.0	11.0	2.5	1.9	140.5	0.1	196.5	0.0	0.0	210.0	0.0	210.0
1975	(s)	12.2	1.3	37.3	10.8	2.5	1.9	143.4	0.1	197.3	0.0	0.0	209.4	0.0	209.4
1976	(s)	9.4	1.2	38.5	10.3	2.9	2.1	151.5	0.0	206.5	0.0	0.0	216.0	0.0	216.0
1977	(s)	9.2	1.3	39.8	11.0	2.9	2.6	155.6	(s)	213.3	0.0	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	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	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	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	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	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	0.0	195.2	0.0	195.2
1984	0.0	10.6	0.6	43.8	10.9	0.7	2.6	140.6	0.0	199.1	0.0	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	195.6	0.0	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	202.6	0.0	0.0	208.7	0.0	208.7
1987	0.0	5.9	0.5	49.0	11.3	0.3	2.6	146.6	0.0	210.3	0.0	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	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	0.0	235.7	0.0	235.7
1990	0.0	8.7	0.6	58.9	9.2	0.3	2.7	148.5	0.0	220.3	[e] (s)	0.0	[e] 229.0	0.0	[e] 229.0
1991	0.0	8.5	0.7	60.2	9.7	0.3	2.4	149.5	0.0	222.8	(s)	0.0	231.3	0.0	231.3
1992	0.0	8.1	0.8	61.0	6.2	0.2	2.4	151.8	0.0	222.4	(s)	0.0	230.5	0.0	230.5
1993	0.0	9.8	0.7	65.9	5.7	0.2	2.5	157.8	0.0	232.7	(s)	0.0	242.5	0.0	242.5
1994	0.0	12.1	0.8	75.8	9.1	0.5	2.6	159.9	0.0	248.5	(s)	0.0	260.6	0.0	260.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Arkansas

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	0	0	0	47	118	1	0	119	0	992	0	0	0	–
1965	0	0	0	68	38	(s)	0	38	0	1,080	0	0	0	–
1970	0	0	0	107	698	8	0	705	0	2,160	0	0	0	–
1971	0	0	0	86	2,717	28	0	2,745	0	1,804	0	0	0	–
1972	0	0	0	72	4,552	35	0	4,587	0	1,644	0	0	0	–
1973	0	0	0	49	7,120	16	0	7,136	0	4,252	0	0	0	–
1974	0	0	0	40	6,747	26	0	6,773	361	4,271	0	0	0	–
1975	0	0	0	32	4,365	62	0	4,427	4,874	3,433	0	0	0	–
1976	0	0	0	16	8,582	49	0	8,632	3,858	2,022	0	0	0	–
1977	0	0	0	7	13,782	162	0	13,944	5,085	1,791	0	0	0	–
1978	960	0	960	7	13,495	271	0	13,766	5,220	2,421	0	0	0	–
1979	1,451	0	1,451	30	7,709	86	0	7,794	3,873	3,375	0	0	0	–
1980	1,774	0	1,774	59	3,106	180	0	3,285	7,833	1,695	0	0	0	–
1981	5,555	0	5,555	55	721	33	0	754	9,075	1,235	0	0	0	–
1982	6,902	0	6,902	33	116	31	0	146	7,482	2,106	0	0	0	–
1983	9,628	0	9,628	33	50	47	0	97	7,646	3,315	0	0	0	–
1984	9,036	0	9,036	25	3	15	0	18	10,808	2,723	0	0	0	–
1985	12,302	0	12,302	11	8	12	0	21	9,889	4,434	0	0	0	–
1986	12,505	0	12,505	28	48	13	0	61	8,876	2,813	0	0	0	–
1987	11,764	0	11,764	32	(s)	10	0	10	11,369	2,407	0	0	0	–
1988	12,295	0	12,295	22	136	130	0	265	8,895	2,785	0	0	0	–
1989	11,278	0	11,278	29	135	143	0	278	8,844	3,084	0	0	0	–
1990	11,836	0	11,836	32	15	140	0	155	11,282	3,698	0	0	0	–
1991	11,978	0	11,978	28	1	127	0	129	12,662	3,561	0	0	0	–
1992	12,241	0	12,241	27	(s)	95	0	95	11,326	3,380	0	0	0	–
1993	11,116	0	11,116	21	5	126	0	131	13,522	4,508	0	0	0	–
1994	12,250	0	12,250	25	54	122	0	176	13,924	3,462	0	0	0	–
					Trillion Btu									
1960	0.0	0.0	0.0	48.4	0.7	(s)	0.0	0.7	0.0	10.7	0.0	0.0	0.0	59.8
1965	0.0	0.0	0.0	67.6	0.2	(s)	0.0	0.2	0.0	11.3	0.0	0.0	0.0	79.1
1970	0.0	0.0	0.0	107.9	4.4	(s)	0.0	4.4	0.0	22.7	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	321.4
1984	155.3	0.0	155.3	25.9	(s)	0.1	0.0	0.1	117.2	28.4	0.0	0.0	0.0	326.9
1985	211.7	0.0	211.7	12.0	0.1	0.1	0.0	0.1	106.9	46.3	0.0	0.0	0.0	377.1
1986	216.8	0.0	216.8	29.9	0.3	0.1	0.0	0.4	95.9	29.4	0.0	0.0	0.0	372.4
1987	204.3	0.0	204.3	33.1	(s)	0.1	0.0	0.1	122.5	25.1	0.0	0.0	0.0	385.0
1988	213.0	0.0	213.0	22.7	0.9	0.8	0.0	1.6	95.6	28.8	0.0	0.0	0.0	361.7
1989	196.7	0.0	196.7	30.0	0.8	0.8	0.0	1.7	94.8	31.8	0.0	0.0	0.0	355.0
1990	206.9	0.0	206.9	32.7	0.1	0.8	0.0	0.9	120.5	38.2	0.0	0.0	0.0	399.2
1991	209.2	0.0	209.2	28.5	(s)	0.7	0.0	0.7	136.0	36.9	0.0	0.0	0.0	411.3
1992	213.6	0.0	213.6	27.7	(s)	0.6	0.0	0.6	120.9	34.8	0.0	0.0	0.0	397.6
1993	192.6	0.0	192.6	21.8	(s)	0.7	0.0	0.8	144.4	46.3	0.0	0.0	0.0	406.0
1994	213.3	0.0	213.3	25.6	0.3	0.7	0.0	1.0	148.6	35.6	0.0	0.0	0.0	424.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, California

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Other [a,c]	Petroleum: Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	26,994	326,829	(s)	17,045	(s)	33	3,463	–
1965	2,380	1,690	11,892	3,342	35,105	40,150	817	11,029	4,482	169,900	69,745	29,401	375,863	270	30,520	64	189	-1,406	–
1970	2,327	2,126	12,084	2,184	39,221	59,614	1,004	15,532	3,967	214,064	70,324	36,713	454,707	3,132	38,071	48	525	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	36,182	481,085	3,519	39,007	40	548	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	38,526	496,426	3,175	31,755	31	1,453	78,989	–
1973	2,500	2,046	13,163	2,038	51,869	62,947	918	18,926	4,890	240,789	112,710	39,231	547,481	2,631	38,753	25	1,966	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	39,252	518,763	3,698	46,422	20	2,453	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	38,045	535,291	6,071	40,103	20	3,246	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	40,980	579,374	4,807	23,193	19	3,616	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	45,077	640,420	8,115	14,251	28	3,582	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	47,775	651,586	7,659	37,206	16	2,978	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	48,977	663,375	8,762	33,920	9	3,889	100,025	–
1980	2,669	1,808	18,431	285	62,277	63,201	2,117	19,197	4,907	253,593	148,701	47,941	620,652	4,920	40,868	20	5,073	122,895	–
1981	3,231	1,858	9,831	132	67,523	59,089	1,086	17,123	4,706	252,914	130,662	31,996	575,061	3,206	29,772	23	5,686	151,531	–
1982	2,864	1,683	9,818	1,145	67,264	56,541	534	16,270	4,291	249,912	81,658	32,188	519,622	3,735	50,232	13	4,843	172,957	–
1983	1,456	1,535	11,117	1,167	68,093	57,359	286	16,259	4,493	256,139	68,521	57,261	540,696	5,613	56,912	5	6,077	166,213	–
1984	1,669	1,670	15,262	1,047	76,341	66,640	906	20,667	4,791	265,187	76,540	56,943	584,325	14,144	43,222	(s)	7,690	186,931	–
1985	1,942	1,846	13,848	1,354	72,431	67,028	916	20,497	4,465	267,304	66,724	52,908	567,476	19,729	35,772	4	9,210	173,717	–
1986	1,865	1,531	15,373	1,338	75,115	75,176	491	20,119	4,366	279,574	58,047	R50,263	579,863	26,215	45,239	30	10,135	180,788	–
1987	1,934	1,935	16,458	1,084	74,102	79,857	685	22,328	4,936	292,232	66,638	R50,750	609,071	30,387	32,308	24	10,613	170,101	–
1988	2,209	1,804	15,343	1,312	84,492	82,620	225	22,798	4,760	304,020	68,917	57,870	642,357	30,863	30,760	11	10,119	210,270	–
1989	2,551	1,838	14,996	1,303	81,819	90,291	192	24,697	4,882	310,769	67,675	54,107	650,731	32,519	33,752	4	9,157	214,986	–
1990	2,899	1,864	14,862	1,106	82,559	94,907	145	19,992	5,024	304,224	64,890	52,963	640,672	32,693	RINA	INA	INA	R278,286	–
1991	2,816	1,971	14,251	1,091	75,409	90,064	139	18,596	4,495	298,604	45,571	R41,871	R590,092	31,542	RNA	NA	NA	R291,963	–
1992	2,821	2,031	13,558	1,059	67,259	86,688	75	21,088	4,583	315,713	34,696	R46,017	R590,734	35,244	RNA	NA	NA	R263,939	–
1993	2,453	1,976	12,433	819	59,089	89,244	131	16,655	4,666	308,631	37,615	R42,961	R572,244	31,581	RNA	NA	NA	R235,295	–
1994	2,498	2,123	12,237	793	64,921	98,793	120	18,099	4,877	307,763	42,525	44,366	594,496	33,752	NA	NA	NA	241,906	–
										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	161.8	1,846.5	(s)	183.4	(s)	0.8	11.8	3,380.3
1965	63.7	1,813.2	78.9	16.9	204.5	222.2	4.6	44.2	27.2	892.5	438.5	173.2	2,102.7	3.2	319.0	0.7	4.2	-4.8	4,301.9
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	215.9	2,523.6	34.4	399.5	0.5	11.3	133.1	5,405.6
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	212.5	2,676.6	38.1	408.7	0.4	11.9	200.7	5,652.8
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	226.3	2,754.7	34.3	329.6	0.3	31.5	269.5	5,770.9
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	230.3	3,061.8	28.7	402.6	0.3	42.6	183.6	5,940.6
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	230.3	2,887.0	41.3	484.7	0.2	53.2	241.2	5,705.4
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	223.7	2,988.6	66.9	417.3	0.2	70.2	387.6	5,924.5
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	241.0	3,253.5	53.1	240.6	0.2	78.2	517.1	6,058.9
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	265.4	3,621.0	87.4	148.7	0.3	77.4	358.6	6,232.8
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	280.9	3,666.4	83.8	385.5	0.2	64.3	424.0	6,338.4
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	287.0	3,737.5	95.3	351.2	0.1	83.8	341.3	6,578.1
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	280.4	3,500.5	53.7	424.5	0.2	109.8	419.3	6,465.0
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	191.4	3,229.1	35.4	311.2	0.2	123.0	517.0	6,241.8
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	193.5	2,887.0	41.4	525.1	0.1	104.7	590.1	5,983.1
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	338.6	3,000.3	61.2	598.7	0.1	129.4	567.1	5,989.8
1984	37.2	1,739.8	101.3	5.3	444.7	373.5	5.1	74.4	29.1	1,393.0	481.2	333.4	3,241.0	153.4	451.2	(s)	163.7	637.8	6,424.2
1985	45.3	1,925.5	91.9	6.8	421.9	375.8	5.2	73.8	27.1	1,404.1	419.5	313.6	3,139.8	213.3	373.7	(s)	195.7	592.7	6,486.0
1986	42.5	1,591.0	102.0	6.8	437.5	422.1	2.8	73.2	26.5	1,468.6	364.9	300.8	3,205.3	283.1	472.6	0.3	215.3	616.8	6,427.0
1987	45.0	1,993.0	109.2	5.5	431.6	448.8	3.9	81.7	29.9	1,535.1	419.0	300.9	3,365.6	327.4	336.6	0.3	225.5	580.4	6,873.7
1988	50.8	1,860.4	101.8	6.6	492.2	464.2	1.3	83.3	28.9	1,597.0	433.3	342.0	3,550.5	331.6	317.6	0.1	213.4	717.4	7,041.7
1989	57.9	1,905.8	99.5	6.6	476.6	507.8	1.1	91.0	29.6	1,632.5	425.5	318.2	3,588.3	348.7	348.2	(s)	193.1	733.5	7,175.7
1990	65.3	1,923.7	98.6	5.6	480.9	534.7	0.8	72.5	30.5	1,598.1	408.0	311.3	3,540.9	349.2	RI280.9	I197.3	I361.0	R949.5	RI7,682.1
1991	64.0	2,023.9	94.6	5.5	439.3	508.1	0.8	67.2	27.3	1,568.6	286.5	R248.1	R3,245.8	338.8	R262.0	200.1	371.6	R996.2	R7,522.8
1992	64.8	2,089.5	90.0	5.3	391.8	489.5	0.4	76.4	27.8	1,658.4	218.1	R270.6	R3,228.4	376.3	R227.6	210.6	392.6	R900.6	R7,506.1
1993	56.9	2,047.5	82.5	4.1	344.2	504.7	0.7	60.1	28.3	1,621.2	236.5	R254.0	R3,136.4	337.3	R431.7	198.9	398.7	R802.8	R7,423.1
1994	58.0	2,172.1	81.2	4.0	378.2	560.1	0.7	65.8	29.6	1,616.7	267.4	262.2	3,265.8	360.3	257.4	202.5	400.4	825.4	7,554.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. From 1990, includes net imports of electricity generated from geothermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

I There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

NA=Not available.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, California

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	2	0	2	365	485	15	3,778	4,277	0	0	14,975	–	37,248	–
1965	4	0	4	489	427	31	5,095	5,553	0	0	23,800	–	56,824	–
1970	38	0	38	553	500	166	5,167	5,833	0	0	35,777	–	86,700	–
1971	1	0	1	631	590	176	5,402	6,168	0	0	39,068	–	94,453	–
1972	1	0	1	637	644	203	4,621	5,467	0	0	41,310	–	99,434	–
1973	0	0	0	616	765	133	4,312	5,210	0	0	43,496	–	104,131	–
1974	(s)	0	(s)	580	544	219	4,009	4,772	0	0	42,533	–	103,707	–
1975	0	0	0	631	493	211	2,708	3,412	0	0	44,257	–	106,754	–
1976	0	0	0	600	629	203	2,523	3,354	0	0	45,751	–	110,206	–
1977	0	0	0	542	738	308	2,308	3,354	0	0	46,555	–	112,417	–
1978	1	0	1	537	787	340	3,854	4,981	0	0	49,321	–	120,664	–
1979	1	0	1	591	1,077	79	4,997	6,153	0	0	52,421	–	126,509	–
1980	1	0	1	529	94	18	4,919	5,032	0	0	52,011	–	126,473	–
1981	1	0	1	488	72	71	4,392	4,535	0	0	52,798	–	125,831	–
1982	1	0	1	537	72	18	4,437	4,527	0	0	51,872	–	124,589	–
1983	1	0	1	499	127	54	5,242	5,424	0	0	53,873	–	129,067	–
1984	12	0	12	472	144	105	4,413	4,662	0	0	56,532	–	131,583	–
1985	19	0	19	527	148	73	5,350	5,571	0	0	57,501	–	135,093	–
1986	0	0	0	464	240	183	4,115	4,538	0	0	57,542	–	132,363	–
1987	(s)	0	(s)	503	285	82	5,252	5,619	0	0	60,368	–	137,936	–
1988	2	(s)	2	497	228	101	5,799	6,128	0	0	64,639	–	146,134	–
1989	4	0	4	514	241	108	6,269	6,618	0	0	64,347	–	144,308	–
1990	9	0	9	515	226	88	5,750	6,064	[o] 3,174	[o] 4,638	66,575	–	R 145,478	–
1991	16	0	16	509	199	80	6,952	7,231	3,344	4,813	66,017	–	R 143,534	–
1992	(s)	0	(s)	480	201	33	4,802	5,036	3,519	4,969	68,121	–	R 145,424	–
1993	50	0	50	501	155	67	5,035	5,257	2,983	5,079	67,359	–	R 142,257	–
1994	58	(s)	58	521	148	67	4,960	5,175	2,924	5,187	68,866	–	143,618	–
	Trillion Btu													
1960	0.1	0.0	0.1	377.6	2.8	0.1	15.2	18.1	0.0	0.0	51.1	446.8	127.1	573.9
1965	0.1	0.0	0.1	524.9	2.5	0.2	20.4	23.1	0.0	0.0	81.2	629.2	193.9	823.1
1970	0.8	0.0	0.8	582.4	2.9	0.9	19.5	23.4	0.0	0.0	122.1	728.7	295.8	1,024.5
1971	(s)	0.0	(s)	665.1	3.4	1.0	20.4	24.8	0.0	0.0	133.3	823.2	322.3	1,145.5
1972	(s)	0.0	(s)	669.7	3.7	1.1	17.4	22.3	0.0	0.0	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	0.0	0.0	148.4	816.5	355.3	1,171.8
1974	(s)	0.0	(s)	611.4	3.2	1.2	15.0	19.4	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	158.8	742.3	383.6	1,125.9
1978	(s)	0.0	(s)	565.1	4.6	1.9	14.1	20.7	0.0	0.0	168.3	754.1	411.7	1,165.8
1979	(s)	0.0	(s)	619.1	6.3	0.4	18.4	25.1	0.0	0.0	178.9	823.1	431.6	1,254.7
1980	(s)	0.0	(s)	552.4	0.6	0.1	18.1	18.7	0.0	0.0	177.5	748.6	431.5	1,180.2
1981	(s)	0.0	(s)	509.9	0.4	0.4	16.0	16.8	0.0	0.0	180.1	706.9	429.3	1,136.3
1982	(s)	0.0	(s)	562.5	0.4	0.1	16.0	16.6	0.0	0.0	177.0	756.1	425.1	1,181.2
1983	(s)	0.0	(s)	519.0	0.7	0.3	18.9	20.0	0.0	0.0	183.8	722.8	440.4	1,163.2
1984	0.3	0.0	0.3	490.0	0.8	0.6	15.9	17.3	0.0	0.0	192.9	700.5	449.0	1,149.4
1985	0.4	0.0	0.4	547.8	0.9	0.4	19.3	20.6	0.0	0.0	196.2	765.0	460.9	1,225.9
1986	0.0	0.0	0.0	481.3	1.4	1.0	15.0	17.4	0.0	0.0	196.3	695.0	451.6	1,146.7
1987	(s)	0.0	(s)	516.6	1.7	0.5	19.2	21.3	0.0	0.0	206.0	743.9	470.6	1,214.5
1988	(s)	(s)	0.1	511.5	1.3	0.6	21.2	23.1	0.0	0.0	220.5	755.1	498.6	1,253.7
1989	0.1	0.0	0.1	532.7	1.4	0.6	23.1	25.1	0.0	0.0	219.6	777.4	492.4	1,269.8
1990	0.2	0.0	0.2	530.8	1.3	0.5	20.8	22.7	[o] 63.5	[o] 15.8	227.2	R [o] 860.1	R 496.4	R [o] 1,356.5
1991	0.4	0.0	0.4	522.3	1.2	0.5	25.1	26.7	66.9	16.4	225.2	R 857.9	R 489.7	R 1,347.7
1992	(s)	0.0	(s)	492.7	1.2	0.2	17.4	18.8	70.4	17.0	232.4	R 831.2	R 496.2	R 1,327.4
1993	1.2	0.0	1.2	519.9	0.9	0.4	18.2	19.4	59.7	17.3	229.8	R 847.3	R 485.4	R 1,332.7
1994	1.3	(s)	1.4	531.7	0.9	0.4	18.0	19.3	58.5	17.7	235.0	863.5	490.0	1,353.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[o] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
–=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, California

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	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	–
1965	7	0	7	164	560	95	899	1,309	6,200	9,064	29,919	–	71,436	–
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	779	1,511	1,354	11,651	71,418	–	166,233	–
1985	34	0	34	205	3,513	353	944	1,758	35	6,604	73,614	–	172,949	–
1986	0	0	0	183	5,651	112	726	1,755	962	9,207	74,759	–	171,967	–
1987	(s)	0	(s)	213	6,882	168	927	2,516	948	11,441	77,830	–	177,835	–
1988	4	(s)	4	248	6,317	88	1,023	1,775	823	10,026	80,777	–	182,618	–
1989	7	0	7	259	4,614	41	1,106	1,782	751	8,295	83,965	–	188,304	–
1990	16	0	16	285	4,588	19	1,015	1,916	895	8,433	88,353	–	R 193,067	–
1991	29	0	29	288	4,449	23	1,227	1,647	764	8,109	86,147	–	R 187,301	–
1992	(s)	0	(s)	285	1,994	20	847	1,486	43	4,390	87,907	–	R 187,663	–
1993	92	0	92	R 250	1,591	19	889	261	18	2,778	R 86,622	–	R 182,940	–
1994	108	(s)	108	262	1,505	12	875	226	8	2,627	84,617	–	176,465	–
	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
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
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	(s)	0.0	(s)	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	(s)	0.0	(s)	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	(s)	0.0	(s)	247.4	21.7	3.1	2.8	8.2	71.8	107.7	231.4	586.5	551.6	1,138.0
1982	(s)	0.0	(s)	247.3	25.6	1.8	2.8	7.6	34.5	72.4	226.6	546.4	544.3	1,090.7
1983	(s)	0.0	(s)	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	2.8	7.9	8.5	65.9	243.7	509.1	567.2	1,076.3
1985	0.8	0.0	0.8	212.9	20.5	2.0	3.4	9.2	0.2	35.3	251.2	500.2	590.1	1,090.3
1986	0.0	0.0	0.0	189.5	32.9	0.6	2.6	9.2	6.0	51.5	255.1	496.0	586.8	1,082.8
1987	(s)	0.0	(s)	218.4	40.1	1.0	3.4	13.2	6.0	63.6	265.6	547.6	606.8	1,154.4
1988	0.1	(s)	0.1	255.5	36.8	0.5	3.7	9.3	5.2	55.5	275.6	586.8	623.1	1,209.9
1989	0.2	0.0	0.2	268.4	26.9	0.2	4.1	9.4	4.7	45.3	286.5	600.3	642.5	1,242.8
1990	0.4	0.0	0.4	294.1	26.7	0.1	3.7	10.1	5.6	46.2	301.5	642.2	R 658.7	R 1,300.9
1991	0.7	0.0	0.7	295.3	25.9	0.1	4.4	8.6	4.8	43.9	293.9	633.8	R 639.1	R 1,272.9
1992	(s)	0.0	(s)	R 292.8	11.6	0.1	3.1	7.8	0.3	22.9	299.9	R 615.6	R 640.3	R 1,256.0
1993	2.1	0.0	2.1	R 259.8	9.3	0.1	3.2	1.4	0.1	14.1	295.6	R 571.5	R 624.2	R 1,195.7
1994	2.5	(s)	2.5	267.4	8.8	0.1	3.2	1.2	(s)	13.3	288.7	571.9	602.1	1,174.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, California

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	1,313	451	10,665	10,127	956	4,231	1,454	2,851	10,750	26,994	68,029	(s)	0	0	20,190	–	50,221	–
1965	2,351	529	11,892	13,002	692	4,826	1,709	2,245	11,846	29,401	75,613	(s)	0	0	28,904	–	69,012	–
1970	2,215	711	12,084	8,510	328	9,147	1,510	1,942	12,121	36,713	82,356	(s)	0	0	42,169	–	102,190	–
1971	1,900	697	12,184	10,053	325	9,423	1,587	1,542	10,134	36,182	81,431	0	0	0	43,995	–	106,364	–
1972	1,767	692	12,228	11,958	319	11,646	1,699	1,426	9,162	38,526	86,965	0	0	0	46,441	–	111,785	–
1973	2,498	722	13,163	14,201	377	13,477	2,336	1,472	9,217	39,231	93,475	0	0	0	47,015	–	112,554	–
1974	2,266	713	11,908	10,684	1,147	15,198	2,238	1,302	9,588	39,252	91,317	0	0	0	42,805	–	104,370	–
1975	2,151	666	13,146	10,519	1,166	15,688	1,246	1,338	8,308	38,045	89,457	0	0	0	46,053	–	111,086	–
1976	2,611	626	14,082	11,136	1,149	15,696	1,384	1,496	9,046	40,980	94,969	0	0	0	49,272	–	118,688	–
1977	2,984	629	14,997	13,356	1,558	14,106	2,102	1,134	7,431	45,077	99,760	0	0	0	51,185	–	123,596	–
1978	2,728	487	15,350	15,197	1,779	14,481	2,257	1,078	7,575	47,775	105,491	0	0	0	51,812	–	126,758	–
1979	2,730	499	21,482	20,854	3,103	16,482	2,362	1,118	7,025	48,977	121,403	0	0	0	54,108	–	130,580	–
1980	2,665	486	18,431	15,576	1,877	12,887	2,103	1,698	12,554	47,941	113,068	0	0	0	51,888	–	126,174	–
1981	3,229	463	9,831	17,735	463	10,874	2,017	1,402	10,825	31,996	85,143	0	0	0	49,551	–	118,094	–
1982	2,862	363	9,818	20,695	192	10,067	1,839	1,260	8,236	32,188	84,297	0	0	0	47,300	–	113,607	–
1983	1,454	345	11,117	17,101	119	8,933	1,926	1,080	8,760	57,261	106,295	0	0	0	48,153	–	115,365	–
1984	1,635	421	15,262	19,327	535	13,752	2,053	1,873	22,086	56,943	131,832	0	0	0	51,294	–	119,393	–
1985	1,889	433	13,848	18,285	491	12,977	1,914	3,064	18,732	52,908	122,219	0	0	0	52,972	–	124,454	–
1986	1,865	428	15,373	15,010	195	14,347	1,871	3,176	15,045	R 50,263	115,281	0	0	0	52,884	–	121,648	–
1987	1,933	556	16,458	18,283	435	15,312	2,115	3,249	14,576	R 50,750	121,180	0	0	0	54,387	–	124,269	–
1988	2,203	487	15,343	17,138	37	15,073	2,040	2,982	8,772	57,870	119,255	0	0	0	54,988	–	124,316	–
1989	2,540	528	14,996	16,266	43	16,437	2,092	3,231	2,711	54,107	109,883	0	0	0	55,596	–	124,682	–
1990	2,874	588	14,862	19,138	38	12,296	2,153	3,144	1,864	52,963	106,459	R f NA	f NA	f NA	55,892	–	R 122,133	–
1991	2,771	707	14,251	14,329	36	9,658	1,926	3,270	1,762	R 41,871	R 87,103	R NA	NA	NA	56,191	–	R 122,171	–
1992	2,821	687	13,558	11,101	23	14,787	1,964	3,297	1,889	R 46,017	R 92,638	R NA	NA	NA	57,090	–	R 121,874	–
1993	2,311	747	12,433	8,779	44	10,076	2,000	2,664	1,539	R 42,961	R 80,496	R NA	NA	NA	56,189	–	R 118,668	–
1994	2,332	726	12,237	9,028	40	11,258	2,090	2,759	1,353	44,366	83,132	NA	NA	NA	59,864	–	124,843	–
			Trillion Btu															
1960	35.2	466.3	70.8	59.0	5.4	17.0	8.8	15.0	67.6	161.8	405.3	(s)	0.0	0.0	68.9	975.7	171.4	1,147.0
1965	63.2	567.4	78.9	75.7	3.9	19.4	10.4	11.8	74.5	173.2	447.7	(s)	0.0	0.0	98.6	1,177.0	235.5	1,412.5
1970	59.3	749.1	80.2	49.6	1.9	34.6	9.2	10.2	76.2	215.9	477.7	(s)	0.0	0.0	143.9	1,430.0	348.7	1,778.7
1971	50.9	734.7	80.9	58.6	1.8	35.5	9.6	8.1	63.7	212.5	470.8	0.0	0.0	0.0	150.1	1,406.5	362.9	1,769.4
1972	47.3	727.5	81.1	69.7	1.8	43.8	10.3	7.5	57.6	226.3	498.1	0.0	0.0	0.0	158.5	1,431.3	381.4	1,812.7
1973	66.9	758.3	87.4	82.7	2.1	50.5	14.2	7.7	57.9	230.3	532.9	0.0	0.0	0.0	160.4	1,518.5	384.0	1,902.5
1974	60.6	752.1	79.0	62.2	6.5	56.7	13.6	6.8	60.3	230.3	515.4	0.0	0.0	0.0	146.1	1,474.2	356.1	1,830.3
1975	56.4	703.6	87.2	61.3	6.6	58.3	7.6	7.0	52.2	223.7	503.9	0.0	0.0	0.0	157.1	1,421.1	379.0	1,800.1
1976	66.6	658.4	93.4	64.9	6.5	58.2	8.4	7.9	56.9	241.0	537.2	0.0	0.0	0.0	168.1	1,430.4	405.0	1,835.4
1977	75.1	660.4	99.5	77.8	8.8	51.9	12.7	6.0	46.7	265.4	568.8	0.0	0.0	0.0	174.6	1,479.0	421.7	1,900.7
1978	67.8	512.6	101.9	88.5	10.1	53.1	13.7	5.7	47.6	280.9	601.4	0.0	0.0	0.0	176.8	1,358.6	432.5	1,791.1
1979	68.5	522.6	142.6	121.5	17.6	60.7	14.3	5.9	44.2	287.0	693.7	0.0	0.0	0.0	184.6	1,469.4	445.5	1,914.9
1980	66.1	507.4	122.3	90.7	10.6	47.3	12.8	8.9	78.9	280.4	652.0	0.0	0.0	0.0	177.0	1,402.5	430.5	1,833.0
1981	78.4	482.9	65.2	103.3	2.6	39.6	12.2	7.4	68.1	191.4	489.9	0.0	0.0	0.0	169.1	1,220.2	402.9	1,623.2
1982	69.4	379.7	65.2	120.5	1.1	36.4	11.2	6.6	51.8	193.5	486.2	0.0	0.0	0.0	161.4	1,096.7	387.6	1,484.3
1983	32.0	359.3	73.8	99.6	0.7	32.3	11.7	5.7	55.1	338.6	617.3	0.0	0.0	0.0	164.3	1,172.9	393.6	1,566.5
1984	36.5	437.3	101.3	112.6	3.0	49.5	12.5	9.8	138.9	333.4	760.9	0.0	0.0	0.0	175.0	1,409.7	407.4	1,817.1
1985	44.0	449.5	91.9	106.5	2.8	46.8	11.6	16.1	117.8	313.6	707.0	0.0	0.0	0.0	180.7	1,381.3	424.6	1,805.9
1986	42.5	443.3	102.0	87.4	1.1	52.2	11.3	16.7	94.6	300.8	666.2	0.0	0.0	0.0	180.4	1,332.4	415.1	1,747.5
1987	44.9	570.7	109.2	106.5	2.5	58.0	12.8	17.1	91.6	300.9	696.7	0.0	0.0	0.0	185.6	1,497.9	424.0	1,921.9
1988	50.7	500.8	101.8	99.8	0.2	55.0	12.4	15.7	55.1	342.0	682.1	0.0	0.0	0.0	187.6	1,421.2	424.2	1,845.3
1989	57.7	546.4	99.5	94.7	0.2	60.5	12.7	17.0	17.0	318.2	620.0	0.0	0.0	0.0	189.7	1,413.8	425.4	1,839.2
1990	64.7	606.5	98.6	111.5	0.2	44.6	13.1	16.5	11.7	311.3	607.5	R f 8.4	f 132.1	f 155.9	190.7	R f 1,765.8	R 416.7	R f 2,182.5
1991	63.0	725.7	94.6	83.5	0.2	34.9	11.7	17.2	11.1	R 248.1	R 501.1	R 8.5	131.7	173.8	191.7	R 1,795.6	R 416.8	R 2,212.5
1992	64.8	705.7	90.0	64.7	0.1	53.6	11.9	17.3	11.9	R 270.6	R 520.0	R 10.0	138.4	191.4	194.8	R 1,825.1	R 415.8	R 2,241.0
1993	53.6	775.3	82.5	51.1	0.3	36.3	12.1	14.0	9.7	R 254.0	R 460.0	R 26.1	137.3	207.8	191.7	R 1,851.8	R 404.9	R 2,256.7
1994	54.2	741.4	81.2	52.6	0.2	40.9	12.7	14.5	8.5	262.2	472.8	11.4	141.9	217.1	204.3	1,842.9	426.0	2,268.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, California

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	23	11	5,383	15,313	25,818	214	2,327	132,768	38,610	220,432	0	67	–	168	–
1965	8	16	3,342	21,032	40,150	208	2,772	166,346	35,109	268,960	0	64	–	152	–
1970	4	17	2,184	29,448	59,614	305	2,457	210,641	27,982	332,632	0	52	–	127	–
1971	3	19	2,036	35,743	62,721	373	2,497	216,207	26,643	346,221	0	52	–	126	–
1972	2	19	2,075	32,654	63,375	422	2,674	229,837	20,867	351,905	0	66	–	158	–
1973	2	20	2,038	35,776	62,752	377	2,553	237,753	20,397	361,646	0	153	–	366	–
1974	1	19	1,979	31,762	60,185	398	2,445	232,563	17,187	346,519	0	142	–	347	–
1975	(s)	20	1,640	30,528	62,509	390	2,386	238,548	20,056	356,057	0	268	–	646	–
1976	(s)	16	1,570	32,930	60,713	437	2,650	249,108	28,500	375,909	0	304	–	733	–
1977	(s)	15	1,647	36,550	61,331	479	2,802	262,600	35,888	401,295	0	234	–	566	–
1978	0	15	1,754	41,759	63,405	579	3,009	274,031	45,725	430,262	0	199	–	487	–
1979	0	18	1,682	41,416	64,910	788	3,149	265,805	47,845	425,595	0	234	–	564	–
1980	0	15	285	41,801	62,224	522	2,804	250,100	66,673	424,409	0	195	–	473	–
1981	0	15	132	44,931	59,074	1,082	2,689	249,951	63,449	421,308	0	238	–	567	–
1982	0	13	1,145	41,786	56,541	983	2,452	247,203	52,103	402,214	0	253	–	609	–
1983	0	10	1,167	43,786	57,359	1,159	2,567	253,326	48,269	407,634	0	214	–	514	–
1984	0	11	1,047	48,866	66,640	1,723	2,738	261,804	48,625	431,442	0	208	–	485	–
1985	0	14	1,354	50,177	67,028	1,225	2,552	262,482	43,340	428,157	0	244	–	574	–
1986	0	12	1,338	53,866	75,176	931	2,495	274,643	36,709	445,157	0	233	–	537	–
1987	0	19	1,084	48,300	79,857	837	2,821	286,468	47,791	467,157	0	216	–	493	–
1988	0	19	1,312	60,642	82,620	902	2,720	299,263	46,857	494,316	0	233	–	526	–
1989	0	19	1,303	60,400	90,291	885	2,790	305,756	49,141	510,565	0	230	–	516	–
1990	0	20	1,106	58,418	94,907	931	2,871	299,163	54,963	512,359	[e] 23,057	274	–	599	–
1991	0	19	1,091	56,328	90,064	760	2,568	293,688	42,113	486,611	18,277	296	–	643	–
1992	0	15	1,059	53,839	86,688	651	2,619	310,930	32,282	488,067	22,213	330	–	703	–
1993	0	12	819	48,455	89,244	655	2,666	305,706	32,831	480,376	24,790	R 330	–	R 696	–
1994	0	13	793	54,137	98,793	1,006	2,787	304,777	38,310	500,603	27,497	337	–	704	–
	Trillion Btu														
1960	0.6	11.0	27.2	89.2	140.7	0.9	14.1	697.4	242.7	1,212.2	0.0	0.2	1,223.9	0.6	1,224.5
1965	0.2	16.8	16.9	122.5	222.2	0.8	16.8	873.8	220.7	1,473.8	0.0	0.2	1,491.0	0.5	1,491.5
1970	0.1	17.9	11.0	171.5	332.9	1.2	14.9	1,106.5	175.9	1,814.0	0.0	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	0.0	0.2	1,908.5	0.4	1,909.0
1972	(s)	19.7	10.5	190.2	354.4	1.6	16.2	1,207.3	131.2	1,911.4	0.0	0.2	1,931.3	0.5	1,931.9
1973	(s)	20.7	10.3	208.4	351.4	1.4	15.5	1,248.9	128.2	1,964.1	0.0	0.5	1,985.4	1.3	1,986.7
1974	(s)	20.0	10.0	185.0	336.7	1.5	14.8	1,221.7	108.1	1,877.7	0.0	0.5	1,898.3	1.2	1,899.5
1975	(s)	21.4	8.3	177.8	350.2	1.5	14.5	1,253.1	126.1	1,931.4	0.0	0.9	1,953.7	2.2	1,955.9
1976	(s)	16.7	7.9	191.8	340.2	1.6	16.1	1,308.6	179.2	2,045.4	0.0	1.0	2,063.1	2.5	2,065.6
1977	(s)	15.6	8.3	212.9	343.5	1.8	17.0	1,379.4	225.6	2,188.5	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.7	2,247.7	1.8	2,249.5
1984	0.0	11.8	5.3	284.6	373.5	6.2	16.6	1,375.3	305.7	2,367.2	0.0	0.7	2,379.7	1.7	2,381.4
1985	0.0	15.0	6.8	292.3	375.8	4.4	15.5	1,378.8	272.5	2,346.1	0.0	0.8	2,361.9	2.0	2,363.9
1986	0.0	12.8	6.8	313.8	422.1	3.4	15.1	1,442.7	230.8	2,434.6	0.0	0.8	2,448.2	1.8	2,450.1
1987	0.0	19.4	5.5	281.3	448.8	3.1	17.1	1,504.8	300.5	2,561.0	0.0	0.7	2,581.2	1.7	2,582.9
1988	0.0	19.7	6.6	353.2	464.2	3.3	16.5	1,572.0	294.6	2,710.5	0.0	0.8	2,731.0	1.8	2,732.8
1989	0.0	19.9	6.6	351.8	507.8	3.3	16.9	1,606.1	308.9	2,801.4	0.0	0.8	2,822.1	1.8	2,823.9
1990	0.0	20.8	5.6	340.3	534.7	3.4	17.4	1,571.5	345.6	2,818.4	[e] 1.8	0.9	[e] 2,840.1	2.0	[e] 2,842.1
1991	0.0	19.0	5.5	328.1	508.1	2.7	15.6	1,542.7	264.8	2,667.6	1.4	1.0	2,687.6	2.2	2,689.8
1992	0.0	15.2	5.3	313.6	489.5	2.4	15.9	1,633.3	203.0	2,663.0	1.7	1.1	2,679.3	2.4	2,681.7
1993	0.0	R 12.5	4.1	282.3	504.7	2.4	16.2	1,605.9	206.4	2,621.9	1.9	1.1	R 2,635.6	R 2.4	R 2,637.9
1994	0.0	12.9	4.0	315.3	560.1	3.7	16.9	1,601.0	240.9	2,741.9	2.1	1.2	2,756.0	2.4	2,758.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, California

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy [f]	Other [b,g]	Total [h]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	0	0	0	323	23,931	120	0	24,051	(s)	17,045	(s)	33	0	–
1965	0	0	0	493	16,590	83	0	16,673	270	30,520	64	189	0	–
1970	0	0	0	636	21,589	107	0	21,696	3,132	38,071	48	525	0	–
1971	0	0	0	563	33,885	226	0	34,110	3,519	39,007	40	548	0	–
1972	0	0	0	606	41,814	257	0	42,070	3,175	31,755	31	1,453	0	–
1973	0	0	0	456	76,098	317	0	76,415	2,631	38,753	25	1,966	0	–
1974	0	0	0	293	64,866	230	0	65,095	3,698	46,422	20	2,453	0	–
1975	0	0	0	275	78,345	247	0	78,592	6,071	40,103	20	3,246	0	–
1976	0	0	0	295	96,841	635	0	97,476	4,807	23,193	19	3,616	0	–
1977	0	0	0	359	125,002	2,041	0	127,043	8,115	14,251	28	3,582	0	–
1978	0	0	0	302	98,480	2,682	0	101,162	7,659	37,206	16	2,978	0	–
1979	0	0	0	445	98,080	3,074	0	101,153	8,762	33,920	9	3,689	0	–
1980	0	0	0	519	62,663	2,559	0	65,222	4,920	40,868	20	5,073	0	–
1981	0	0	0	655	44,972	1,067	0	46,039	3,206	29,772	23	5,686	0	–
1982	0	0	0	534	15,827	313	0	16,140	3,735	50,232	13	4,843	0	–
1983	0	0	0	465	10,956	230	0	11,185	5,613	56,912	5	6,075	1	–
1984	0	0	0	573	4,475	263	0	4,738	14,144	43,222	(s)	7,682	9	–
1985	0	0	0	666	4,617	308	0	4,925	19,729	35,772	4	9,197	13	–
1986	0	0	0	444	5,332	348	0	5,680	26,215	45,239	30	10,119	17	–
1987	0	0	0	643	3,324	350	0	3,674	30,387	32,308	24	10,599	14	–
1988	0	0	0	553	12,464	167	0	12,631	30,863	30,760	11	10,110	10	–
1989	0	0	0	518	15,072	299	0	15,370	32,519	33,752	4	9,154	2	–
1990	0	0	0	456	7,169	189	0	7,358	32,693	R 26,365	2	8,429	2	–
1991	0	0	0	449	933	104	0	1,037	31,542	R 24,487	8	7,901	3	–
1992	0	0	0	564	482	124	0	605	35,244	R 21,121	5	7,917	3	–
1993	0	0	0	466	3,227	109	0	3,336	31,581	R 39,456	4	7,423	3	–
1994	0	0	0	601	2,854	104	0	2,959	33,752	23,951	3	6,746	3	–
	Trillion Btu													
1960	0.0	0.0	0.0	334.3	150.5	0.7	0.0	151.2	(s)	183.4	(s)	0.8	0.0	669.6
1965	0.0	0.0	0.0	528.7	104.3	0.5	0.0	104.8	3.2	319.0	0.7	4.2	0.0	960.5
1970	0.0	0.0	0.0	670.6	135.7	0.6	0.0	136.4	34.4	399.5	0.5	11.3	0.0	1,252.7
1971	0.0	0.0	0.0	593.2	213.0	1.3	0.0	214.3	38.1	408.7	0.4	11.9	0.0	1,266.7
1972	0.0	0.0	0.0	643.3	262.9	1.5	0.0	264.3	34.3	329.6	0.3	31.5	0.0	1,303.3
1973	0.0	0.0	0.0	483.8	478.4	1.8	0.0	480.2	28.7	402.6	0.3	42.6	0.0	1,438.2
1974	0.0	0.0	0.0	312.3	407.8	1.3	0.0	409.1	41.3	484.7	0.2	53.2	0.0	1,300.8
1975	0.0	0.0	0.0	291.9	492.6	1.4	0.0	494.0	66.9	417.3	0.2	70.2	0.0	1,340.4
1976	0.0	0.0	0.0	313.0	608.8	3.6	0.0	612.5	53.1	240.6	0.2	78.2	0.0	1,297.5
1977	0.0	0.0	0.0	380.2	785.9	11.6	0.0	797.5	87.4	148.7	0.3	77.4	0.0	1,491.5
1978	0.0	0.0	0.0	320.3	619.1	15.4	0.0	634.6	83.8	385.5	0.2	64.3	0.0	1,488.7
1979	0.0	0.0	0.0	469.1	616.6	17.8	0.0	634.4	95.3	351.2	0.1	83.8	0.0	1,633.8
1980	0.0	0.0	0.0	545.8	394.0	14.8	0.0	408.7	53.7	424.5	0.2	109.8	0.0	1,542.7
1981	0.0	0.0	0.0	691.4	282.7	6.2	0.0	289.0	35.4	311.2	0.2	123.0	0.0	1,450.2
1982	0.0	0.0	0.0	562.1	99.5	1.8	0.0	101.3	41.4	525.1	0.1	104.7	0.0	1,334.8
1983	0.0	0.0	0.0	487.4	68.9	1.3	0.0	70.2	61.2	598.7	0.1	129.3	(s)	1,346.9
1984	0.0	0.0	0.0	601.7	28.1	1.5	0.0	29.7	153.4	451.2	(s)	163.6	0.1	1,399.7
1985	0.0	0.0	0.0	700.3	29.0	1.8	0.0	30.8	213.3	373.7	(s)	195.6	0.1	1,513.8
1986	0.0	0.0	0.0	464.2	33.5	2.0	0.0	35.5	283.1	472.6	0.3	215.2	0.2	1,471.1
1987	0.0	0.0	0.0	667.8	20.9	2.0	0.0	22.9	327.4	336.6	0.3	225.4	0.1	1,580.5
1988	0.0	0.0	0.0	572.8	78.4	1.0	0.0	79.3	331.6	317.6	0.1	213.3	0.1	1,514.8
1989	0.0	0.0	0.0	538.4	94.8	1.7	0.0	96.5	348.7	348.2	(s)	193.1	(s)	1,525.0
1990	0.0	0.0	0.0	471.5	45.1	1.1	0.0	46.2	349.2	R 272.5	(s)	177.8	(s)	R 1,344.6
1991	0.0	0.0	0.0	461.6	5.9	0.6	0.0	6.5	338.8	R 253.5	0.1	165.9	(s)	R 1,263.6
1992	0.0	0.0	0.0	583.1	3.0	0.7	0.0	3.7	376.3	R 217.6	(s)	165.6	(s)	R 1,382.4
1993	0.0	0.0	0.0	480.0	20.3	0.6	0.0	20.9	337.3	R 405.6	(s)	155.2	(s)	R 1,432.2
1994	0.0	0.0	0.0	618.7	17.9	0.6	0.0	18.6	360.3	246.0	(s)	141.1	(s)	1,424.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of hydroelectricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] Includes net imports of electricity generated from geothermal energy.
[g] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Colorado

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	790	30,357	0	970	0	0	-4,980	–
1965	4,204	224	1,423	1,111	3,925	3,426	1,108	3,339	416	19,321	2,056	941	37,065	0	938	0	0	-2,572	–
1970	5,101	282	3,220	337	5,212	7,476	822	4,710	423	26,103	1,507	1,146	50,956	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	1	0	-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	1	0	2,687	–
1984	14,740	230	3,089	143	11,340	8,505	186	2,298	626	33,612	177	1,509	61,486	55	2,169	2	0	-690	–
1985	15,241	219	3,103	142	9,552	7,861	92	2,324	583	35,733	194	1,242	60,827	-32	2,357	3	0	-1,099	–
1986	15,029	198	3,091	176	10,119	8,065	62	2,161	570	36,505	246	972	61,967	52	2,264	4	0	-23	–
1987	15,007	210	3,110	153	9,864	8,372	85	2,336	645	36,111	34	1,176	61,885	174	1,818	2	0	1,889	–
1988	15,860	228	3,552	167	11,190	6,460	85	2,705	622	36,437	32	1,319	62,567	660	1,745	2	0	-722	–
1989	16,393	242	2,928	181	10,204	5,337	226	3,744	638	35,403	22	1,414	60,098	529	1,706	1	0	-2,166	–
1990	16,710	239	3,257	167	10,373	6,109	50	3,045	656	35,358	13	1,444	60,471	0	R NA	I NA	I NA	R 1,003	–
1991	16,218	261	3,107	155	11,805	6,503	51	3,520	587	35,664	80	R 1,298	R 62,772	0	R NA	NA	NA	R 3,646	–
1992	16,696	253	3,190	136	12,425	7,363	51	3,184	599	35,798	41	R 1,675	R 64,463	0	R NA	NA	NA	R 1,128	–
1993	17,070	284	3,413	124	12,922	8,959	53	3,448	610	37,901	11	R 1,564	R 69,006	0	R NA	NA	NA	R 1,281	–
1994	17,475	276	4,188	128	13,261	7,930	48	3,390	637	39,399	3	1,636	70,620	0	NA	NA	NA	3,532	–
			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	163.0	0.0	10.4	0.0	0.0	-17.0	419.6
1965	98.1	204.5	9.4	5.6	22.9	19.3	6.3	13.4	2.5	101.5	12.9	5.6	199.4	0.0	9.8	0.0	0.0	-8.8	503.0
1970	115.7	275.0	21.4	1.7	30.4	42.3	4.7	17.8	2.6	137.1	9.5	6.7	274.0	0.0	13.0	0.0	0.0	-7.6	670.0
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	(s)	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	(s)	0.0	9.2	827.4
1984	286.9	230.1	20.5	0.7	66.1	48.1	1.1	8.3	3.8	176.6	1.1	8.9	335.1	0.6	22.6	(s)	0.0	-2.4	873.0
1985	299.1	218.7	20.6	0.7	55.6	44.5	0.5	8.4	3.5	187.7	1.2	7.4	330.2	-0.3	24.6	(s)	0.0	-3.7	868.5
1986	295.4	198.4	20.5	0.9	58.9	45.6	0.4	7.9	3.5	191.8	1.5	6.0	337.0	0.6	23.6	(s)	0.0	-0.1	855.0
1987	296.5	210.1	20.6	0.8	57.5	47.4	0.5	8.5	3.9	189.7	0.2	7.1	336.2	1.9	18.9	(s)	0.0	6.4	870.2
1988	311.4	229.0	23.6	0.8	65.2	36.5	0.5	9.9	3.8	191.4	0.2	7.9	339.8	7.1	18.0	(s)	0.0	-2.5	902.8
1989	323.7	244.9	19.4	0.9	59.4	30.2	1.3	13.8	3.9	186.0	0.1	8.5	323.5	5.7	17.6	(s)	0.0	-7.4	907.9
1990	329.0	240.3	21.6	0.8	60.4	34.6	0.3	11.0	4.0	185.7	0.1	8.6	327.2	0.0	R I 14.3	I 10.6	I 0.1	3.4	R I 923.7
1991	321.8	268.1	20.6	0.8	68.8	36.8	0.3	12.7	3.6	187.3	0.5	R 7.8	R 339.2	0.0	R 18.3	10.8	0.1	12.4	R 869.8
1992	331.5	258.9	21.2	0.7	72.4	41.6	0.3	11.5	3.6	188.0	0.3	R 10.0	R 349.6	0.0	R 16.8	11.5	0.2	R 3.8	R 971.1
1993	338.5	287.3	22.6	0.6	75.3	50.7	0.3	12.4	3.7	199.1	0.1	R 9.4	R 374.2	0.0	R 20.4	11.2	0.2	R 4.4	R 1,034.8
1994	349.1	277.1	27.8	0.6	77.2	44.9	0.3	12.3	3.9	207.0	(s)	9.8	383.8	0.0	17.0	11.2	0.2	12.0	1,049.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Colorado

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	90	0	90	52	148	50	2,097	2,294	0	0	1,776	–	4,418	–
1965	112	0	112	65	90	285	2,224	2,599	0	0	2,521	–	6,018	–
1970	80	0	80	83	168	112	3,080	3,361	0	0	3,859	–	9,351	–
1971	78	0	78	85	196	78	3,265	3,540	0	0	4,209	–	10,175	–
1972	78	0	78	89	218	64	3,748	4,031	0	0	4,668	–	11,236	–
1973	63	0	63	98	250	58	3,643	3,952	0	0	5,202	–	12,453	–
1974	35	0	35	92	295	39	3,013	3,348	0	0	5,385	–	13,131	–
1975	7	0	7	100	283	36	2,862	3,181	0	0	5,142	–	12,403	–
1976	19	0	19	107	285	37	3,052	3,375	0	0	5,351	–	12,890	–
1977	28	0	28	100	291	36	2,839	3,166	0	0	5,527	–	13,346	–
1978	75	0	75	92	289	44	3,540	3,873	0	0	5,948	–	14,552	–
1979	76	0	76	98	333	25	1,122	1,481	0	0	6,415	–	15,482	–
1980	35	0	35	90	78	23	1,670	1,772	0	0	6,693	–	16,275	–
1981	33	1	33	75	54	60	2,063	2,177	0	0	8,498	–	20,253	–
1982	44	0	44	85	58	170	2,265	2,493	0	0	9,064	–	21,769	–
1983	28	0	28	84	136	225	2,773	3,135	0	0	9,513	–	22,791	–
1984	44	0	44	93	139	157	1,293	1,589	0	0	8,669	–	20,178	–
1985	55	0	55	90	106	49	1,390	1,545	0	0	8,861	–	20,819	–
1986	37	0	37	81	63	30	1,355	1,448	0	0	8,863	–	20,387	–
1987	28	0	28	86	59	28	1,470	1,558	0	0	9,218	–	21,062	–
1988	33	(s)	33	93	53	32	1,403	1,488	0	0	9,551	–	21,592	–
1989	22	0	22	92	42	41	1,596	1,680	0	0	9,595	–	21,519	–
1990	20	0	20	92	27	22	1,697	1,746	◊ 366	◊ 39	9,787	–	R 21,387	–
1991	23	0	23	97	27	24	1,899	1,950	385	43	10,099	–	R 21,958	–
1992	20	(s)	21	95	22	37	1,692	1,751	406	46	10,216	–	R 21,808	–
1993	13	(s)	13	106	33	35	1,768	1,836	379	48	10,656	–	R 22,504	–
1994	8	0	8	100	26	40	1,757	1,822	372	54	10,939	–	22,812	–
							Trillion Btu							
1960	2.1	0.0	2.1	54.1	0.9	0.3	8.4	9.6	0.0	0.0	6.1	71.8	15.1	86.9
1965	2.6	0.0	2.6	59.6	0.5	1.6	8.9	11.1	0.0	0.0	8.6	81.8	20.5	102.4
1970	1.8	0.0	1.8	80.4	1.0	0.6	11.6	13.3	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	22.8	119.5	55.5	175.1
1981	0.7	(s)	0.7	74.7	0.3	0.3	7.5	8.2	0.0	0.0	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	0.0	0.0	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	0.0	0.0	32.5	129.9	77.8	207.6
1984	1.0	0.0	1.0	93.7	0.8	0.9	4.7	6.4	0.0	0.0	29.6	130.5	68.8	199.4
1985	1.2	0.0	1.2	90.1	0.6	0.3	5.0	5.9	0.0	0.0	30.2	127.4	71.0	198.4
1986	0.8	0.0	0.8	81.4	0.4	0.2	4.9	5.5	0.0	0.0	30.2	117.9	69.6	187.5
1987	0.6	0.0	0.6	86.3	0.3	0.2	5.4	5.9	0.0	0.0	31.5	124.2	71.9	196.1
1988	0.7	(s)	0.7	93.5	0.3	0.2	5.1	5.6	0.0	0.0	32.6	132.4	73.7	206.1
1989	0.5	0.0	0.5	92.7	0.2	0.2	5.9	6.4	0.0	0.0	32.7	132.3	73.4	205.7
1990	0.4	0.0	0.4	92.4	0.2	0.1	6.2	6.4	◊ 7.3	◊ 0.1	33.4	R ◊ 140.1	73.0	R ◊ 213.1
1991	0.5	0.0	0.5	100.3	0.2	0.1	6.9	7.2	7.7	0.1	34.5	R 150.3	74.9	R 225.2
1992	0.4	(s)	0.4	96.8	0.1	0.2	6.1	6.5	8.1	0.2	34.9	R 146.9	74.4	R 221.3
1993	0.3	(s)	0.3	107.4	0.2	0.2	6.4	6.8	7.6	0.2	36.4	R 158.5	76.8	R 235.3
1994	0.2	0.0	0.2	99.9	0.1	0.2	6.4	6.8	7.4	0.2	37.3	151.8	77.8	229.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

◊ There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
–=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Colorado

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	207	0	207	39	75	376	393	186	49	1,078	2,842	–	6,785	–
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	(s)	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	228	357	4	1,442	11,668	–	27,159	–
1985	101	0	101	69	681	15	245	176	1	1,118	12,344	–	29,001	–
1986	68	0	68	62	406	13	239	191	72	922	12,450	–	28,639	–
1987	53	0	53	64	958	27	259	191	0	1,436	12,638	–	28,876	–
1988	61	(s)	61	69	1,019	14	248	177	0	1,457	13,489	–	30,496	–
1989	42	0	42	67	539	157	282	164	6	1,147	14,116	–	31,658	–
1990	38	0	38	66	437	10	299	263	0	1,010	14,420	–	R 31,511	–
1991	42	0	42	69	591	11	335	335	0	1,272	14,609	–	R 31,763	–
1992	38	(s)	38	66	834	7	299	161	(s)	1,301	14,757	–	R 31,504	–
1993	24	(s)	24	72	759	7	312	35	(s)	1,113	15,278	–	R 32,266	–
1994	15	0	15	66	1,219	5	310	51	0	1,585	13,943	–	29,077	–
					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
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
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	(s)	1.1	1.6	(s)	4.7	24.8	97.6	60.4	157.9
1981	1.3	(s)	1.3	58.6	1.8	0.1	1.3	1.5	(s)	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	(s)	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	(s)	8.2	36.2	110.5	86.7	197.3
1984	1.8	0.0	1.8	72.1	4.9	0.1	0.8	1.9	(s)	7.7	39.8	121.3	92.7	214.0
1985	2.2	0.0	2.2	68.9	4.0	0.1	0.9	0.9	(s)	5.9	42.1	119.1	98.9	218.0
1986	1.5	0.0	1.5	61.8	2.4	0.1	0.9	1.0	0.5	4.8	42.5	110.5	97.7	208.3
1987	1.1	0.0	1.1	64.4	5.6	0.2	0.9	1.0	0.0	7.7	43.1	116.3	98.5	214.8
1988	1.3	(s)	1.3	69.0	5.9	0.1	0.9	0.9	0.0	7.8	46.0	124.2	104.1	228.2
1989	0.9	0.0	0.9	68.3	3.1	0.9	1.0	0.9	(s)	6.0	48.2	123.3	108.0	231.3
1990	0.8	0.0	0.8	R 66.6	2.5	0.1	1.1	1.4	0.0	5.1	49.2	121.7	107.5	229.2
1991	0.9	0.0	0.9	71.0	3.4	0.1	1.2	1.8	0.0	6.5	49.8	128.2	R 108.4	236.6
1992	0.8	(s)	0.8	68.0	4.9	(s)	1.1	0.8	(s)	6.8	50.4	126.0	R 107.5	233.4
1993	0.5	(s)	0.5	R 72.4	4.4	(s)	1.1	0.2	(s)	5.8	52.1	130.9	R 110.1	R 241.0
1994	0.3	0.0	0.3	66.2	7.1	(s)	1.1	0.3	0.0	8.5	47.6	122.6	99.2	221.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Colorado

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	1,438	69	1,617	1,768	161	593	98	1,303	1,583	790	7,913	1	0	0	1,289	–	3,206	–
1965	1,698	82	1,423	1,994	447	641	130	1,039	1,254	941	7,869	1	0	0	1,576	–	3,763	–
1970	1,657	88	3,220	2,228	561	953	137	1,036	1,128	1,146	10,409	1	0	0	2,334	–	5,656	–
1971	1,298	80	2,973	2,863	456	1,043	149	1,017	1,222	1,037	10,760	1	0	0	2,503	–	6,050	–
1972	1,667	87	3,087	2,870	479	1,310	160	976	1,408	1,141	11,430	1	0	0	2,699	–	6,496	–
1973	1,737	94	3,406	3,250	435	1,331	121	975	1,552	1,203	12,273	1	0	0	2,824	–	6,761	–
1974	1,652	84	2,666	3,557	235	1,400	116	963	2,331	1,217	12,486	1	0	0	3,349	–	8,166	–
1975	1,871	73	2,231	3,419	193	1,498	156	860	2,327	1,351	12,035	1	0	0	4,407	–	10,630	–
1976	1,669	70	2,541	3,598	163	1,644	173	879	2,959	1,482	13,440	1	0	0	5,646	–	13,600	–
1977	1,771	69	2,628	3,722	171	1,707	238	983	2,613	1,694	13,756	1	0	0	6,245	–	15,080	–
1978	1,418	70	2,222	3,642	270	1,579	256	774	3,165	1,381	13,288	1	0	0	6,506	–	15,917	–
1979	1,615	77	2,754	3,364	218	2,536	268	730	502	1,583	11,955	1	0	0	6,871	–	16,582	–
1980	1,757	60	2,284	3,983	384	1,860	238	695	1,640	1,646	12,729	1	0	0	6,900	–	16,778	–
1981	1,624	58	1,829	2,970	146	1,184	229	594	129	1,088	8,168	1	0	0	6,921	–	16,495	–
1982	1,109	58	1,620	2,704	69	1,881	209	583	9	1,143	8,217	1	0	0	4,680	–	11,240	–
1983	730	52	1,880	3,615	17	1,431	218	502	259	1,317	9,240	1	0	0	4,045	–	9,692	–
1984	856	52	3,089	3,693	11	674	233	504	158	1,509	9,871	1	0	0	5,376	–	12,513	–
1985	791	48	3,103	2,293	28	621	217	580	40	1,242	8,124	1	0	0	5,468	–	12,848	–
1986	773	44	3,091	3,448	19	507	212	555	174	972	8,978	1	0	0	5,848	–	13,452	–
1987	748	43	3,110	2,659	29	567	240	530	34	1,176	8,347	1	0	0	6,216	–	14,202	–
1988	679	50	3,552	3,690	39	1,000	231	477	5	1,319	10,314	1	0	0	6,295	–	14,233	–
1989	643	64	2,928	2,825	28	1,807	237	505	14	1,414	9,759	1	0	0	6,427	–	14,414	–
1990	729	66	3,257	2,683	18	974	244	406	13	1,444	9,039	Rf NA	f NA	f NA	6,587	–	R 14,393	–
1991	738	80	3,107	3,531	17	1,203	218	503	34	R 1,298	R 9,911	R NA	NA	NA	6,748	–	R 14,672	–
1992	735	79	3,190	4,350	7	1,125	223	494	4	R 1,675	R 11,069	R NA	NA	NA	6,849	–	R 14,621	–
1993	780	94	3,413	3,626	12	1,284	227	504	11	R 1,564	R 10,640	R NA	NA	NA	7,024	–	R 14,834	–
1994	857	95	4,188	3,126	4	1,184	237	583	1	1,636	10,961	NA	NA	NA	9,620	–	20,062	–
			Trillion Btu															
1960	36.6	71.8	10.7	10.3	0.9	2.4	0.6	6.8	10.0	4.7	46.4	(s)	0.0	0.0	4.4	159.2	10.9	170.2
1965	44.2	74.9	9.4	11.6	2.5	2.6	0.8	5.5	7.9	5.6	45.8	(s)	0.0	0.0	5.4	170.3	12.8	183.2
1970	41.4	85.3	21.4	13.0	3.2	3.6	0.8	5.4	7.1	6.7	61.2	(s)	0.0	0.0	8.0	195.9	19.3	215.2
1971	32.9	77.6	19.7	16.7	2.6	3.9	0.9	5.3	7.7	6.1	62.9	(s)	0.0	0.0	8.5	182.0	20.6	202.6
1972	41.5	87.5	20.5	16.7	2.7	4.9	1.0	5.1	8.9	6.7	66.5	(s)	0.0	0.0	9.2	204.6	22.2	226.8
1973	43.6	92.5	22.6	18.9	2.5	5.0	0.7	5.1	9.8	7.1	71.7	(s)	0.0	0.0	9.6	217.3	23.1	240.4
1974	41.6	82.5	17.7	20.7	1.3	5.2	0.7	5.1	14.7	7.2	72.5	(s)	0.0	0.0	11.4	208.1	27.9	235.9
1975	45.8	65.6	14.8	19.9	1.1	5.6	0.9	4.5	14.6	8.0	69.4	(s)	0.0	0.0	15.0	195.9	36.3	232.2
1976	41.4	63.2	16.9	21.0	0.9	6.1	1.0	4.6	18.6	8.7	77.8	(s)	0.0	0.0	19.3	201.6	46.4	248.1
1977	43.5	60.9	17.4	21.7	1.0	6.3	1.4	5.2	16.4	9.9	79.3	(s)	0.0	0.0	21.3	205.1	51.5	256.5
1978	34.9	60.4	14.7	21.2	1.5	5.8	1.6	4.1	19.9	8.0	76.8	(s)	0.0	0.0	22.2	194.2	54.3	248.5
1979	40.5	68.0	18.3	19.6	1.2	9.3	1.6	3.8	3.2	9.1	66.2	(s)	0.0	0.0	23.4	198.1	56.6	254.7
1980	43.1	59.9	15.2	23.2	2.2	6.8	1.4	3.6	10.3	9.4	72.2	(s)	0.0	0.0	23.5	198.7	57.2	256.0
1981	39.7	57.3	12.1	17.3	0.8	4.3	1.4	3.1	0.8	6.5	46.4	(s)	0.0	0.0	23.6	167.0	56.3	223.3
1982	25.6	58.5	10.8	15.8	0.4	6.8	1.3	3.1	0.1	6.8	44.9	(s)	0.0	0.0	16.0	145.0	38.4	183.4
1983	15.6	52.7	12.5	21.1	0.1	5.2	1.3	2.6	1.6	7.8	52.2	(s)	0.0	0.0	13.8	134.4	33.1	167.4
1984	18.5	52.2	20.5	21.5	0.1	2.4	1.4	2.6	1.0	8.9	58.4	(s)	0.0	0.0	18.3	147.5	42.7	190.2
1985	17.1	47.7	20.6	13.4	0.2	2.2	1.3	3.0	0.2	7.4	48.3	(s)	0.0	0.0	18.7	131.8	43.8	175.6
1986	16.6	43.9	20.5	20.1	0.1	1.8	1.3	2.9	1.1	6.0	53.9	(s)	0.0	0.0	20.0	134.3	45.9	180.2
1987	15.7	43.0	20.6	15.5	0.2	2.1	1.5	2.8	0.2	7.1	50.0	(s)	0.0	0.0	21.2	129.9	48.5	178.4
1988	14.5	50.2	23.6	21.5	0.2	3.7	1.4	2.5	(s)	7.9	60.8	(s)	0.0	0.0	21.5	146.9	48.6	195.5
1989	13.4	64.3	19.4	16.5	0.2	6.7	1.4	2.7	0.1	8.5	55.3	(s)	0.0	0.0	21.9	155.0	49.2	204.2
1990	15.4	66.7	21.6	15.6	0.1	3.5	1.5	2.1	0.1	8.6	53.2	Rf 1.1	f 2.0	f 0.0	22.5	Rf 160.9	49.1	Rf 210.0
1991	15.6	82.4	20.6	20.6	0.1	4.3	1.3	2.6	0.2	R 7.8	R 57.6	R 1.1	2.0	0.0	23.0	R 181.8	R 50.1	R 231.9
1992	14.8	80.6	21.2	25.3	(s)	4.1	1.4	2.6	(s)	R 10.0	R 64.6	R 1.3	2.1	0.0	23.4	R 186.8	49.9	R 236.7
1993	16.3	94.9	22.6	21.1	0.1	4.6	1.4	2.6	0.1	R 9.4	R 61.9	R 1.3	2.2	0.0	24.0	R 200.7	50.6	R 251.3
1994	18.5	95.9	27.8	18.2	(s)	4.3	1.4	3.1	(s)	9.8	64.6	1.2	2.3	0.0	32.8	215.3	68.5	283.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Colorado

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	25	1	1,125	2,146	480	93	280	15,023	137	19,284	0	0	–	0	–
1965	6	2	1,111	1,763	3,426	81	286	18,097	713	25,476	0	0	–	0	–
1970	3	2	337	2,655	7,476	133	286	24,943	99	35,929	0	0	–	0	–
1971	2	2	317	2,995	7,687	180	286	26,489	51	38,005	0	0	–	0	–
1972	2	3	324	3,563	7,758	229	306	28,909	30	41,120	0	0	–	0	–
1973	1	3	334	4,063	7,717	214	336	30,393	57	43,114	0	0	–	0	–
1974	1	2	324	4,471	7,347	184	322	29,704	106	42,459	0	0	–	0	–
1975	(s)	5	267	4,290	7,151	188	302	30,948	104	43,250	0	0	–	0	–
1976	(s)	7	262	4,872	7,732	209	336	31,950	141	45,503	0	0	–	0	–
1977	(s)	7	287	5,447	7,900	209	402	33,211	103	47,560	0	0	–	0	–
1978	0	5	297	5,723	8,297	236	432	35,995	107	51,087	0	0	–	0	–
1979	0	7	270	7,618	6,047	49	452	34,401	3	48,839	0	0	–	0	–
1980	0	8	265	6,554	4,725	45	402	33,275	0	45,267	0	0	–	0	–
1981	0	7	257	5,196	5,494	104	388	33,743	0	45,179	0	0	–	0	–
1982	0	9	188	6,125	5,556	73	352	34,201	0	46,495	0	0	–	0	–
1983	0	8	179	6,220	6,134	89	369	32,824	16	45,831	0	0	–	0	–
1984	0	7	143	6,590	8,505	103	393	32,750	10	48,494	0	0	–	0	–
1985	0	7	142	6,358	7,861	68	366	34,978	146	49,919	0	0	–	0	–
1986	0	7	176	6,106	8,065	59	358	35,759	(s)	50,524	0	0	–	0	–
1987	0	9	153	6,096	8,372	39	405	35,389	0	50,454	0	0	–	0	–
1988	0	8	167	6,371	6,460	54	390	35,783	0	49,224	0	0	–	0	–
1989	0	11	181	6,728	5,337	59	400	34,735	0	47,441	0	0	–	0	–
1990	0	9	167	7,175	6,109	75	412	34,688	0	48,626	•16,769	0	–	0	–
1991	0	8	155	7,622	6,503	83	369	34,826	0	49,557	13,292	0	–	0	–
1992	0	8	136	7,173	7,363	68	376	35,143	0	50,259	16,155	0	–	0	–
1993	0	8	124	8,476	8,959	83	383	37,363	0	55,388	18,029	0	–	0	–
1994	0	10	128	8,864	7,930	138	400	38,765	1	56,226	19,998	1	–	1	–
			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	0.0	104.5	0.0	104.5
1965	0.1	1.7	5.6	10.3	19.3	0.3	1.7	95.1	4.5	136.8	0.0	0.0	138.6	0.0	138.6
1970	0.1	1.8	1.7	15.5	42.3	0.5	1.7	131.0	0.6	193.3	0.0	0.0	195.2	0.0	195.2
1971	(s)	1.8	1.6	17.4	43.4	0.7	1.7	139.1	0.3	204.4	0.0	0.0	206.2	0.0	206.2
1972	(s)	3.0	1.6	20.8	43.9	0.9	1.9	151.9	0.2	221.0	0.0	0.0	224.1	0.0	224.1
1973	(s)	2.5	1.7	23.7	43.6	0.8	2.0	159.7	0.4	231.8	0.0	0.0	234.4	0.0	234.4
1974	(s)	2.4	1.6	26.0	41.5	0.7	2.0	156.0	0.7	228.6	0.0	0.0	231.0	0.0	231.0
1975	(s)	4.8	1.3	25.0	40.4	0.7	1.8	162.6	0.7	232.5	0.0	0.0	237.3	0.0	237.3
1976	(s)	6.0	1.3	28.4	43.7	0.8	2.0	167.8	0.9	245.0	0.0	0.0	251.0	0.0	251.0
1977	(s)	6.0	1.5	31.7	44.7	0.8	2.4	174.5	0.6	256.2	0.0	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	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	(s)	263.6	0.0	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	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	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	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	0.0	255.1	0.0	255.1
1984	0.0	7.4	0.7	38.4	48.1	0.4	2.4	172.0	0.1	262.1	0.0	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	0.9	269.3	0.0	0.0	276.5	0.0	276.5
1986	0.0	6.7	0.9	35.6	45.6	0.2	2.2	187.8	(s)	272.3	0.0	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	272.2	0.0	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	0.0	272.9	0.0	272.9
1989	0.0	11.4	0.9	39.2	30.2	0.2	2.4	182.5	0.0	255.4	0.0	0.0	266.7	0.0	266.7
1990	0.0	9.2	0.8	41.8	34.6	0.3	2.5	182.2	0.0	262.2	•1.3	0.0	•271.3	0.0	•271.3
1991	0.0	8.6	0.8	44.4	36.8	0.3	2.2	182.9	0.0	267.5	1.0	0.0	276.1	0.0	276.1
1992	0.0	R8.5	0.7	41.8	41.6	0.2	2.3	184.6	0.0	271.2	1.2	0.0	279.7	0.0	279.7
1993	0.0	7.7	0.6	49.4	50.7	0.3	2.3	198.3	0.0	299.6	1.4	0.0	307.3	0.0	307.3
1994	0.0	10.1	0.6	51.6	44.9	0.5	2.4	203.6	(s)	303.7	1.5	(s)	313.8	(s)	313.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

• There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Colorado

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	2,181	0	2,181	36	40	4	0	43	0	937	0	0	0	–
1970	3,212	0	3,212	51	242	22	0	264	0	1,234	0	0	0	–
1971	3,077	0	3,077	60	279	31	0	310	0	1,584	0	0	0	–
1972	3,404	0	3,404	67	482	50	0	532	0	1,242	0	0	0	–
1973	4,379	0	4,379	59	627	136	0	763	0	1,281	0	0	0	–
1974	4,740	0	4,740	66	544	243	0	787	0	1,414	0	0	0	–
1975	5,710	0	5,710	53	882	619	0	1,501	0	1,506	0	0	0	–
1976	7,280	0	7,280	42	640	446	0	1,086	0	1,287	0	0	0	–
1977	8,837	0	8,837	34	439	233	0	672	225	1,071	0	0	0	–
1978	8,945	0	8,945	29	556	342	0	898	609	1,342	0	0	0	–
1979	9,515	0	9,515	35	411	460	0	871	213	1,611	0	0	0	–
1980	10,124	0	10,124	32	171	273	0	444	667	1,716	0	0	0	–
1981	11,781	0	11,781	14	4	194	0	198	749	1,398	0	0	0	–
1982	12,638	0	12,638	6	2	191	0	192	569	1,649	1	0	0	–
1983	12,193	0	12,193	5	50	144	0	194	748	1,870	1	0	0	–
1984	13,758	0	13,758	5	6	84	0	89	55	2,168	2	0	0	–
1985	14,295	0	14,295	5	8	113	0	121	-32	2,357	3	0	0	–
1986	14,150	0	14,150	5	0	96	0	96	52	2,263	4	0	0	–
1987	14,178	0	14,178	8	(s)	90	0	90	174	1,818	2	0	0	–
1988	15,087	0	15,087	8	26	57	0	84	660	1,744	2	0	0	–
1989	15,686	0	15,686	8	1	70	0	71	529	1,705	1	0	0	–
1990	15,924	0	15,924	5	(s)	50	0	50	0	1,276	(s)	0	0	–
1991	15,416	0	15,416	6	46	35	0	82	0	1,663	(s)	0	0	–
1992	15,902	0	15,902	5	37	47	0	84	0	1,505	0	0	0	–
1993	16,252	0	16,252	5	0	28	0	28	0	1,858	0	0	0	–
1994	16,596	0	16,596	5	(s)	26	0	26	0	1,540	0	0	0	–
					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	0.0	74.6
1965	46.5	0.0	46.5	32.4	0.3	(s)	0.0	0.3	0.0	9.8	0.0	0.0	0.0	89.0
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	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	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	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	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	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	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	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	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	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	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	0.0	261.5
1981	237.0	0.0	237.0	13.3	(s)	1.1	0.0	1.2	8.3	14.6	0.0	0.0	0.0	274.3
1982	248.1	0.0	248.1	5.8	(s)	1.1	0.0	1.1	6.3	17.2	(s)	0.0	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	(s)	0.0	0.0	270.8
1984	265.7	0.0	265.7	4.8	(s)	0.5	0.0	0.5	0.6	22.6	(s)	0.0	0.0	294.3
1985	278.7	0.0	278.7	4.9	(s)	0.7	0.0	0.7	-0.3	24.6	(s)	0.0	0.0	308.6
1986	276.5	0.0	276.5	4.6	0.0	0.6	0.0	0.6	0.6	23.6	(s)	0.0	0.0	305.9
1987	279.1	0.0	279.1	7.7	(s)	0.5	0.0	0.5	1.9	18.9	(s)	0.0	0.0	308.2
1988	294.9	0.0	294.9	8.4	0.2	0.3	0.0	0.5	7.1	18.0	(s)	0.0	0.0	328.8
1989	309.0	0.0	309.0	8.2	(s)	0.4	0.0	0.4	5.7	17.6	(s)	0.0	0.0	340.8
1990	312.4	0.0	312.4	5.4	(s)	0.3	0.0	0.3	0.0	13.2	(s)	0.0	0.0	331.2
1991	304.8	0.0	304.8	5.7	0.3	0.2	0.0	0.5	0.0	17.2	(s)	0.0	0.0	328.2
1992	315.5	0.0	315.5	5.0	0.2	0.3	0.0	0.5	0.0	15.5	0.0	0.0	0.0	336.5
1993	321.4	0.0	321.4	4.9	0.0	0.2	0.0	0.2	0.0	19.1	0.0	0.0	0.0	345.6
1994	330.1	0.0	330.1	5.1	(s)	0.1	0.0	0.2	0.0	15.8	0.0	0.0	0.0	351.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Connecticut

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels										Million Kilowatthours					
1960	3,851	28	1,088	104	23,359	1,129	1,914	1,092	350	19,349	14,622	222	63,238	0	424	0	0	-708	–
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	–
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	502	94,623	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	566	104,747	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	621	108,452	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	659	99,852	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	617	93,233	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	1,195	97,540	12,330	383	0	0	-11,685	–
1977	48	64	915	111	23,774	2,167	511	2,420	455	33,119	32,164	1,440	97,077	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	1,573	99,123	13,863	359	0	0	-11,065	–
1979	44	68	846	87	28,484	2,382	372	1,470	511	31,492	26,913	1,900	94,457	12,706	461	0	0	-3,819	–
1980	16	73	630	89	22,304	1,973	491	1,501	455	30,205	29,334	2,012	88,994	11,835	256	0	0	-5,609	–
1981	38	77	784	77	19,724	1,580	415	1,336	437	30,252	21,540	2,544	78,689	12,673	260	0	0	503	–
1982	31	78	785	60	20,505	1,076	381	1,418	398	30,055	21,291	1,960	77,930	13,625	371	0	0	-2,290	–
1983	29	74	737	66	16,904	957	296	1,426	417	30,534	23,325	1,687	76,350	11,588	378	0	0	3,584	–
1984	59	81	934	63	18,669	1,005	236	1,401	445	30,855	25,087	1,944	80,639	14,292	377	0	0	-8,356	–
1985	815	78	2,095	71	18,909	1,085	712	1,283	414	30,992	21,040	1,857	78,457	12,721	307	0	0	-501	–
1986	809	79	2,124	72	20,609	1,255	561	1,134	405	31,861	22,279	R1,177	R81,478	18,667	804	0	0	-20,645	–
1987	815	92	2,139	55	21,201	1,784	579	1,558	458	32,353	18,951	R1,198	R80,275	20,540	918	0	0	-20,413	–
1988	881	88	1,853	48	22,980	2,156	724	1,518	442	32,881	21,861	R1,185	R85,648	22,251	1,008	242	0	-27,044	–
1989	890	95	1,797	40	25,627	2,242	671	1,586	453	32,258	22,185	R1,162	R88,020	19,563	624	317	0	-18,535	–
1990	971	98	1,585	94	20,398	2,344	315	1,592	466	30,961	16,590	R1,305	R75,650	19,776	RINA	INA	INA	R-13,496	–
1991	856	102	1,976	28	19,837	2,246	379	1,485	417	31,860	14,536	R1,515	R74,279	12,243	RNA	NA	NA	R12,698	–
1992	849	111	1,678	28	22,236	2,293	249	1,885	425	32,603	10,889	R1,583	R73,869	16,771	RNA	NA	NA	R4,325	–
1993	788	111	1,577	30	22,099	2,312	279	1,684	433	33,093	8,845	R1,595	R71,947	21,802	RNA	NA	NA	R-7,849	–
1994	862	120	1,676	28	20,347	2,452	260	1,487	453	32,679	7,597	1,624	68,604	20,160	NA	NA	NA	-1,385	–
			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
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
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	2.7	546.4	84.2	4.1	0.0	0.0	-64.6	668.9
1972	4.2	65.0	9.7	0.6	144.3	15.9	5.1	7.9	3.1	161.8	255.9	3.1	607.4	83.9	5.6	0.0	0.0	-62.5	703.7
1973	2.6	63.5	10.4	0.6	148.2	14.2	3.4	8.2	3.3	166.0	272.2	3.4	629.8	46.9	4.6	0.0	0.0	-17.6	729.9
1974	6.5	67.1	7.3	0.5	135.1	13.8	3.1	8.0	3.2	165.5	236.6	3.6	576.8	89.0	4.5	0.0	0.0	-43.7	700.1
1975	1.3	64.3	8.4	0.5	125.9	12.0	3.3	8.2	2.4	167.2	204.4	3.4	535.7	89.6	5.1	0.0	0.0	-20.3	675.7
1976	1.2	66.4	7.4	0.4	141.1	11.0	4.1	8.9	2.7	171.4	206.2	6.6	559.8	136.2	4.0	0.0	0.0	-39.9	727.6
1977	1.2	64.7	6.1	0.6	138.5	12.3	2.9	8.9	2.8	174.0	202.2	8.0	556.2	141.9	4.5	0.0	0.0	-32.7	735.7
1978	0.8	66.0	7.6	0.5	137.3	12.0	2.7	8.0	3.0	174.5	215.2	8.8	569.6	151.7	3.7	0.0	0.0	-37.8	754.1
1979	1.1	68.8	5.6	0.4	165.9	13.5	2.1	5.4	3.1	165.4	169.2	10.5	541.2	138.2	4.8	0.0	0.0	-13.0	741.0
1980	0.4	74.2	4.2	0.4	129.9	11.2	2.8	5.5	2.8	158.7	184.4	11.0	510.9	129.1	2.7	0.0	0.0	-19.1	698.0
1981	0.9	78.7	5.2	0.4	114.9	8.9	2.4	4.9	2.6	158.9	135.4	13.9	447.5	139.8	2.7	0.0	0.0	1.7	671.4
1982	0.8	80.4	5.2	0.3	119.4	6.1	2.2	5.1	2.4	157.9	133.9	10.7	443.1	150.9	3.9	0.0	0.0	-7.8	671.2
1983	0.7	76.6	4.9	0.3	98.5	5.4	1.7	5.2	2.5	160.4	146.6	9.3	434.8	126.4	4.0	0.0	0.0	12.2	654.7
1984	1.5	83.5	6.2	0.3	108.7	5.7	1.3	5.0	2.7	162.1	157.7	10.5	460.3	155.0	3.9	0.0	0.0	-28.5	675.6
1985	21.3	80.6	13.9	0.4	110.1	6.1	4.0	4.6	2.5	162.8	132.3	10.0	446.8	137.6	3.2	0.0	0.0	-1.7	687.7
1986	21.2	81.3	14.1	0.4	120.0	7.1	3.2	4.1	2.5	167.4	140.1	R6.4	R465.2	201.6	8.4	0.0	0.0	-70.4	R707.2
1987	21.4	94.7	14.2	0.3	123.5	10.1	3.3	5.7	2.8	170.0	119.1	R6.4	R455.4	221.3	9.6	0.0	0.0	-69.6	R732.7
1988	23.1	90.9	12.3	0.2	133.9	12.2	4.1	5.5	2.7	172.7	137.4	R6.4	R487.5	239.0	10.4	2.5	0.0	-92.3	R761.2
1989	23.7	98.3	11.9	0.2	149.3	12.7	3.8	5.8	2.7	169.5	139.5	R6.3	R501.7	209.8	6.4	3.3	0.0	-63.2	R779.9
1990	25.7	100.9	10.5	0.5	118.8	13.3	1.8	5.8	2.8	162.6	104.3	R7.1	R427.5	211.2	RI7.3	I39.4	I0.1	R-46.0	RI766.1
1991	22.6	105.1	13.1	0.1	115.5	12.7	2.1	5.4	2.5	167.4	91.4	R8.2	R418.5	131.5	R6.1	40.0	0.1	43.3	R767.5
1992	22.3	114.4	11.1	0.1	129.5	13.0	1.4	6.8	2.6	171.3	68.5	R8.5	R412.9	179.1	R11.9	41.2	0.1	R14.8	R798.7
1993	20.6	114.5	10.5	0.2	128.7	13.1	1.6	6.1	2.6	173.8	55.6	R8.6	R400.8	232.9	R12.7	42.3	0.1	R-26.8	R799.5
1994	22.5	123.6	11.1	0.1	118.5	13.9	1.5	5.4	2.7	171.7	47.8	8.8	381.5	215.2	11.3	43.5	0.1	-4.7	796.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Connecticut

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Trillion Btu
1960	29	66	95	16	15,480	1,507	624	17,611	0	0	2,724	–	6,776	–
1965	4	42	46	22	13,649	1,101	692	15,442	0	0	3,812	–	9,101	–
1970	0	25	25	31	14,239	526	802	15,568	0	0	6,396	–	15,501	–
1971	0	24	24	32	13,961	521	778	15,260	0	0	6,834	–	16,523	–
1972	0	19	19	33	14,756	639	855	16,250	0	0	7,305	–	17,583	–
1973	0	18	18	30	14,898	424	776	16,099	0	0	7,641	–	18,292	–
1974	(s)	16	17	33	13,707	308	749	14,763	0	0	7,589	–	18,504	–
1975	0	13	13	32	12,950	291	768	14,009	0	0	7,449	–	17,969	–
1976	0	13	13	32	14,495	276	785	15,556	0	0	7,842	–	18,891	–
1977	0	12	12	31	14,164	239	811	15,214	0	0	7,960	–	19,220	–
1978	0	10	10	32	14,217	209	728	15,155	0	0	8,079	–	19,765	–
1979	0	8	8	31	17,897	201	547	18,645	0	0	8,175	–	19,729	–
1980	0	10	10	32	13,468	233	595	14,296	0	0	8,218	–	19,983	–
1981	1	20	21	33	12,948	195	591	13,734	0	0	8,614	–	20,530	–
1982	0	17	17	33	12,241	263	577	13,081	0	0	8,505	–	20,428	–
1983	0	13	13	31	9,293	195	686	10,173	0	0	8,767	–	21,004	–
1984	0	25	25	33	9,530	191	554	10,276	0	0	8,584	–	19,981	–
1985	0	22	22	33	9,758	605	639	11,001	0	0	8,638	–	20,295	–
1986	(s)	22	22	35	11,578	423	562	12,563	0	0	9,080	–	20,887	–
1987	(s)	14	15	36	11,613	406	795	12,814	0	0	9,670	–	22,095	–
1988	(s)	7	7	39	13,136	403	742	14,281	0	0	10,300	–	23,287	–
1989	(s)	7	7	41	14,228	287	840	15,355	0	0	10,485	–	23,515	–
1990	0	7	7	37	11,426	196	857	12,479	[o] 483	[o] 17	10,376	–	R 22,673	–
1991	0	8	8	37	11,236	175	950	12,360	509	18	10,441	–	R 22,700	–
1992	3	7	10	42	13,434	196	1,220	14,850	535	19	10,496	–	R 22,407	–
1993	0	8	8	42	13,812	211	1,051	15,073	551	20	10,597	–	R 22,379	–
1994	(s)	7	7	42	12,564	162	941	13,667	540	35	10,898	–	22,728	–
1960	0.7	1.6	2.4	16.6	90.2	8.5	2.5	101.2	0.0	0.0	9.3	129.4	23.1	152.6
1965	0.1	1.0	1.1	22.7	79.5	6.2	2.8	88.5	0.0	0.0	13.0	125.4	31.1	156.4
1970	0.0	0.6	0.6	31.7	82.9	3.0	3.0	89.0	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	26.1	149.3	62.4	211.7
1974	(s)	0.4	0.4	33.8	79.8	1.7	2.8	84.4	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	28.0	143.0	68.2	211.1
1981	(s)	0.5	0.5	34.2	75.4	1.1	2.2	78.7	0.0	0.0	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	0.0	0.0	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	0.0	0.0	29.9	119.7	71.7	191.4
1984	0.0	0.6	0.6	34.0	55.5	1.1	2.0	58.6	0.0	0.0	29.3	122.5	68.2	190.7
1985	0.0	0.5	0.5	33.8	56.8	3.4	2.3	62.6	0.0	0.0	29.5	126.3	69.2	195.6
1986	(s)	0.5	0.5	36.2	67.4	2.4	2.0	71.9	0.0	0.0	31.0	139.6	71.3	210.8
1987	(s)	0.4	0.4	37.3	67.6	2.3	2.9	72.9	0.0	0.0	33.0	143.5	75.4	218.9
1988	(s)	0.2	0.2	40.7	76.5	2.3	2.7	81.5	0.0	0.0	35.1	157.6	79.5	237.0
1989	(s)	0.2	0.2	42.1	82.9	1.6	3.1	87.6	0.0	0.0	35.8	165.6	80.2	245.9
1990	0.0	0.2	0.2	38.7	66.6	1.1	3.1	70.8	[o] 9.7	[o] 0.1	35.4	R o 154.8	R 77.4	R o 232.1
1991	0.0	0.2	0.2	38.3	65.4	1.0	3.4	69.9	10.2	0.1	35.6	R 154.3	R 77.5	R 231.7
1992	0.1	0.2	0.2	43.6	78.3	1.1	4.4	83.8	10.7	0.1	35.8	R 174.2	R 76.5	R 250.6
1993	0.0	0.2	0.2	43.4	80.5	1.2	3.8	85.4	11.0	0.1	36.2	R 176.2	R 76.4	R 252.6
1994	(s)	0.2	0.2	42.9	73.2	0.9	3.4	77.5	10.8	0.1	37.2	168.7	77.5	246.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[o] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Connecticut

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	7	28	35	6	4,434	38	122	76	958	5,629	2,873	–	6,861	–
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	98	144	1,972	5,563	8,275	–	19,262	–
1985	0	15	15	25	3,547	64	113	142	1,679	5,546	8,731	–	20,514	–
1986	1	14	15	25	3,525	67	99	146	1,604	5,441	9,267	–	21,317	–
1987	1	10	10	28	3,137	112	140	172	1,302	4,863	9,801	–	22,394	–
1988	(s)	4	4	27	3,023	66	131	165	1,364	4,750	10,317	–	23,325	–
1989	(s)	4	4	31	3,427	145	148	190	1,548	5,459	10,644	–	23,871	–
1990	0	5	5	29	2,929	51	151	203	1,049	4,384	10,711	–	R 23,406	–
1991	0	5	5	27	2,984	167	168	655	529	4,504	10,908	–	R 23,717	–
1992	5	5	10	30	2,944	45	215	1,576	893	5,673	10,851	–	R 23,165	–
1993	0	5	5	31	2,564	44	185	1,588	413	4,795	11,044	–	R 23,325	–
1994	1	4	5	39	2,469	51	166	1,041	656	4,383	11,210	–	23,379	–
					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
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
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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	0.4	1.4	7.4	26.2	24.0	70.9	58.4	129.3
1981	(s)	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	(s)	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	12.4	33.0	28.2	87.2	65.7	152.9
1985	0.0	0.3	0.3	25.3	20.7	0.4	0.4	0.7	10.6	32.7	29.8	88.2	70.0	158.2
1986	(s)	0.4	0.4	25.5	20.5	0.4	0.4	0.8	10.1	32.1	31.6	89.6	72.7	162.3
1987	(s)	0.3	0.3	28.4	18.3	0.6	0.5	0.9	8.2	28.5	33.4	90.7	76.4	167.1
1988	(s)	0.1	0.1	28.3	17.6	0.4	0.5	0.9	8.6	27.9	35.2	91.5	79.6	171.1
1989	(s)	0.1	0.1	31.8	20.0	0.8	0.5	1.0	9.7	32.1	36.3	100.3	81.4	181.8
1990	0.0	0.1	0.1	30.4	17.1	0.3	0.5	1.1	6.6	25.6	36.5	92.6	R 79.9	172.5
1991	0.0	0.1	0.1	27.7	17.4	0.9	0.6	3.4	3.3	25.7	37.2	90.7	80.9	171.6
1992	0.1	0.1	0.3	30.7	17.1	0.3	0.8	8.3	5.6	32.1	37.0	100.0	79.0	R 179.1
1993	0.0	0.1	0.1	32.3	14.9	0.3	0.7	8.3	2.6	26.8	37.7	96.9	79.6	R 176.5
1994	(s)	0.1	0.1	40.3	14.4	0.3	0.6	5.5	4.1	24.9	38.2	103.5	79.8	183.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Connecticut

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	866	7	1,088	1,665	354	355	93	243	11,950	222	15,968	26	0	0	2,837	–	7,056	–
1965	776	12	1,326	1,561	169	564	308	248	13,180	660	18,016	9	0	0	3,862	–	9,220	–
1970	142	15	1,019	1,968	234	890	331	269	13,710	6,190	24,611	3	0	0	5,094	–	12,344	–
1971	93	13	1,223	2,082	241	938	249	210	11,323	502	16,769	6	0	0	4,977	–	12,032	–
1972	59	14	1,458	1,889	241	1,081	267	172	11,272	566	16,944	4	0	0	5,312	–	12,786	–
1973	53	17	1,570	2,452	152	1,231	329	86	11,896	621	18,336	6	0	0	5,643	–	13,508	–
1974	62	16	1,099	2,128	236	1,225	315	74	10,124	659	15,860	7	0	0	5,371	–	13,095	–
1975	29	16	1,262	1,944	287	1,280	200	36	9,124	617	14,750	7	0	0	5,050	–	12,181	–
1976	17	16	1,119	2,336	443	1,436	222	101	11,554	1,195	18,406	7	0	0	5,333	–	12,845	–
1977	18	16	915	2,473	264	1,430	208	110	11,923	1,440	18,763	6	0	0	5,525	–	13,342	–
1978	1	16	1,138	2,015	266	1,275	223	82	13,115	1,573	19,688	7	0	0	5,785	–	14,153	–
1979	22	20	846	2,089	164	808	234	69	8,017	1,900	14,127	6	0	0	6,044	–	14,586	–
1980	0	20	630	3,235	251	785	208	66	6,683	2,012	13,870	6	0	0	5,944	–	14,454	–
1981	1	21	784	1,497	209	614	199	52	2,528	2,544	8,428	6	0	0	6,318	–	15,058	–
1982	3	21	785	1,525	117	716	182	53	3,152	1,960	8,490	6	0	0	5,878	–	14,117	–
1983	8	21	737	1,230	33	592	190	43	1,766	1,687	6,279	6	0	0	6,067	–	14,536	–
1984	5	21	934	1,262	14	706	203	75	2,411	1,944	7,551	6	0	0	6,244	–	14,533	–
1985	4	19	2,095	1,072	44	499	189	225	2,202	1,857	8,183	6	0	0	6,113	–	14,362	–
1986	8	18	2,124	1,055	71	451	185	238	2,322	R 1,177	R 7,623	6	0	0	6,178	–	14,211	–
1987	3	20	2,139	1,697	61	601	209	235	1,981	R 1,198	R 8,122	6	0	0	6,251	–	14,282	–
1988	16	19	1,853	1,333	255	614	202	268	2,095	R 1,185	R 7,804	6	0	0	6,305	–	14,255	–
1989	2	20	1,797	1,454	239	565	207	277	1,695	R 1,162	R 7,397	6	0	0	6,235	–	13,983	–
1990	1	25	1,585	1,018	68	548	213	261	1,434	R 1,305	R 6,432	R f NA	f NA	f NA	6,100	–	R 13,329	–
1991	3	33	1,976	1,080	37	327	191	239	996	R 1,515	R 6,360	R NA	NA	NA	5,822	–	R 12,659	–
1992	12	36	1,678	932	8	417	194	240	1,229	R 1,583	R 6,282	R NA	NA	NA	5,780	–	R 12,338	–
1993	30	37	1,577	822	24	415	198	196	1,442	R 1,595	R 6,269	R NA	NA	NA	5,597	–	R 11,821	–
1994	29	31	1,676	761	46	331	207	195	1,313	1,624	6,153	NA	NA	NA	5,917	–	12,340	–
			Trillion Btu															
1960	22.8	7.5	7.2	9.7	2.0	1.4	0.6	1.3	75.1	1.3	98.6	0.3	0.0	0.0	9.7	138.9	24.1	163.0
1965	20.4	12.7	8.8	9.1	1.0	2.3	1.9	1.3	82.9	3.7	110.8	0.1	0.0	0.0	13.2	157.2	31.5	188.6
1970	3.4	14.9	6.8	11.5	1.3	3.4	2.0	1.4	86.2	34.0	146.6	(s)	0.0	0.0	17.4	182.3	42.1	224.4
1971	2.2	13.6	8.1	12.1	1.4	3.5	1.5	1.1	71.2	2.7	101.7	0.1	0.0	0.0	17.0	134.5	41.1	175.6
1972	1.4	14.3	9.7	11.0	1.4	4.1	1.6	0.9	70.9	3.1	102.6	(s)	0.0	0.0	18.1	136.4	43.6	180.1
1973	1.2	17.2	10.4	14.3	0.9	4.6	2.0	0.5	74.8	3.4	110.8	0.1	0.0	0.0	19.3	148.6	46.1	194.7
1974	1.4	16.3	7.3	12.4	1.3	4.6	1.9	0.4	63.7	3.6	95.2	0.1	0.0	0.0	18.3	131.3	44.7	176.0
1975	0.7	15.6	8.4	11.3	1.6	4.8	1.2	0.2	57.4	3.4	88.3	0.1	0.0	0.0	17.2	121.9	41.6	163.4
1976	0.4	16.5	7.4	13.6	2.5	5.3	1.3	0.5	72.6	6.6	110.0	0.1	0.0	0.0	18.2	145.2	43.8	189.0
1977	0.4	16.3	6.1	14.4	1.5	5.3	1.3	0.6	75.0	8.0	112.1	0.1	0.0	0.0	18.9	147.8	45.5	193.3
1978	(s)	16.6	7.6	11.7	1.5	4.7	1.4	0.4	82.5	8.8	118.5	0.1	0.0	0.0	19.7	155.0	48.3	203.3
1979	0.5	20.0	5.6	12.2	0.9	3.0	1.4	0.4	50.4	10.5	84.3	0.1	0.0	0.0	20.6	125.6	49.8	175.4
1980	0.0	20.8	4.2	18.8	1.4	2.9	1.3	0.3	42.0	11.0	82.0	0.1	0.0	0.0	20.3	123.1	49.3	172.4
1981	(s)	21.1	5.2	8.7	1.2	2.2	1.2	0.3	15.9	13.9	48.6	0.1	0.0	0.0	21.6	91.4	51.4	142.8
1982	0.1	22.0	5.2	8.9	0.7	2.6	1.1	0.3	19.8	10.7	49.2	0.1	0.0	0.0	20.1	91.4	48.2	139.6
1983	0.2	21.6	4.9	7.2	0.2	2.1	1.2	0.2	11.1	9.3	36.2	0.1	0.0	0.0	20.7	78.8	49.6	128.4
1984	0.1	21.5	6.2	7.3	0.1	2.5	1.2	0.4	15.2	10.5	43.4	0.1	0.0	0.0	21.3	86.4	49.6	136.0
1985	0.1	19.5	13.9	6.2	0.2	1.8	1.1	1.2	13.8	10.0	48.4	0.1	0.0	0.0	20.9	88.9	49.0	137.9
1986	0.2	18.2	14.1	6.1	0.4	1.6	1.1	1.2	14.6	R 6.4	R 45.6	0.1	0.0	0.0	21.1	R 85.2	48.5	R 133.7
1987	0.1	20.4	14.2	9.9	0.3	2.2	1.3	1.2	12.5	R 6.4	R 48.0	0.1	0.0	0.0	21.3	R 89.9	48.7	R 138.6
1988	0.4	20.1	12.3	7.8	1.4	2.2	1.2	1.4	13.2	R 6.4	R 46.0	0.1	0.0	0.0	21.5	R 88.0	48.6	R 136.6
1989	(s)	20.4	11.9	8.5	1.4	2.1	1.3	1.5	10.7	R 6.3	R 43.5	0.1	0.0	0.0	21.3	R 85.3	47.7	R 133.0
1990	(s)	26.3	10.5	5.9	0.4	2.0	1.3	1.4	9.0	R 7.1	R 37.6	R f 0.6	f 25.2	f 0.0	20.8	R f 110.5	45.5	R f 156.0
1991	0.1	33.7	13.1	6.3	0.2	1.2	1.2	1.3	6.3	R 8.2	R 37.7	R 0.6	25.1	0.0	19.9	R 117.0	43.2	R 160.2
1992	0.3	37.4	11.1	5.4	(s)	1.5	1.2	1.3	7.7	R 8.5	R 36.8	R 0.7	26.4	0.0	19.7	R 121.4	42.1	R 163.5
1993	0.7	37.8	10.5	4.8	0.1	1.5	1.2	1.0	9.1	R 8.6	R 36.8	R 0.7	26.9	0.0	19.1	R 122.1	40.3	R 162.4
1994	0.7	31.6	11.1	4.4	0.3	1.2	1.3	1.0	8.3	8.8	36.3	0.7	27.9	0.0	20.2	117.5	42.1	159.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Connecticut

Year	Coal [a]	Natural Gas [b]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	15	(s)	104	1,117	1,129	2	258	19,044	204	21,857	0	0	–	0	–
1965	3	(s)	172	1,415	1,411	5	255	22,609	471	26,338	0	0	–	0	–
1970	(s)	(s)	124	2,266	2,897	21	238	28,273	359	34,177	0	0	–	0	–
1971	(s)	(s)	111	2,311	2,191	25	229	29,232	455	34,554	0	0	–	0	–
1972	(s)	(s)	112	2,542	2,499	26	245	30,484	532	36,439	0	0	–	0	–
1973	(s)	(s)	113	2,721	2,286	32	219	31,302	952	37,626	0	0	–	0	–
1974	(s)	(s)	107	2,610	2,252	31	210	31,199	720	37,130	0	0	–	0	–
1975	(s)	(s)	90	2,391	2,013	26	196	31,547	581	36,844	0	0	–	0	–
1976	(s)	(s)	79	2,495	1,924	30	217	32,283	706	37,734	0	0	–	0	–
1977	(s)	(s)	111	2,457	2,127	36	247	32,761	545	38,283	0	0	–	0	–
1978	0	(s)	100	2,662	2,113	55	266	32,884	495	38,575	0	0	–	0	–
1979	0	(s)	87	2,707	2,227	18	278	31,167	49	36,534	0	0	–	0	–
1980	0	(s)	89	2,580	1,921	15	247	29,864	53	34,768	0	0	–	0	–
1981	0	(s)	77	2,289	1,544	26	237	29,918	4	34,096	0	0	–	0	–
1982	0	1	60	3,692	1,075	23	216	29,708	6	34,781	0	0	–	0	–
1983	0	(s)	66	3,075	957	27	227	30,301	449	35,102	0	0	–	0	–
1984	0	(s)	63	4,434	1,005	43	242	30,635	245	36,665	0	0	–	0	–
1985	0	(s)	71	4,448	1,085	32	225	30,624	152	36,637	0	0	–	0	–
1986	0	1	72	4,338	1,255	22	220	31,478	35	37,421	0	0	–	0	–
1987	0	1	55	4,617	1,784	21	249	31,946	72	38,744	0	0	–	0	–
1988	0	1	48	5,257	2,156	30	240	32,449	131	40,313	0	0	–	0	–
1989	0	1	40	6,319	2,242	32	246	31,791	65	40,734	0	0	–	0	–
1990	0	(s)	94	4,955	2,344	36	253	30,497	86	38,265	[e] 3,127	0	–	0	–
1991	0	1	28	4,428	2,246	40	227	30,967	92	38,027	2,479	0	–	0	–
1992	0	1	28	4,861	2,293	32	231	30,786	44	38,275	3,012	0	–	0	–
1993	0	(s)	30	4,828	2,312	33	235	31,309	31	38,778	3,362	0	–	0	–
1994	0	1	28	4,470	2,452	50	246	31,444	23	38,712	3,729	0	–	0	–
			Trillion Btu												
1960	0.4	0.2	0.5	6.5	6.4	(s)	1.6	100.0	1.3	116.3	0.0	0.0	116.9	0.0	116.9
1965	0.1	0.1	0.9	8.2	8.0	(s)	1.5	118.8	3.0	140.4	0.0	0.0	140.5	0.0	140.5
1970	(s)	0.1	0.6	13.2	16.4	0.1	1.4	148.5	2.3	182.5	0.0	0.0	182.6	0.0	182.6
1971	(s)	(s)	0.6	13.5	12.4	0.1	1.4	153.6	2.9	184.3	0.0	0.0	184.4	0.0	184.4
1972	(s)	(s)	0.6	14.8	14.1	0.1	1.5	160.1	3.3	194.6	0.0	0.0	194.6	0.0	194.6
1973	(s)	(s)	0.6	15.9	12.9	0.1	1.3	164.4	6.0	201.2	0.0	0.0	201.2	0.0	201.2
1974	(s)	(s)	0.5	15.2	12.7	0.1	1.3	163.9	4.5	198.3	0.0	0.0	198.3	0.0	198.3
1975	(s)	(s)	0.5	13.9	11.4	0.1	1.2	165.7	3.7	196.4	0.0	0.0	196.5	0.0	196.5
1976	(s)	(s)	0.4	14.5	10.9	0.1	1.3	169.6	4.4	201.3	0.0	0.0	201.3	0.0	201.3
1977	(s)	(s)	0.6	14.3	12.0	0.1	1.5	172.1	3.4	204.1	0.0	0.0	204.1	0.0	204.1
1978	0.0	(s)	0.5	15.5	12.0	0.2	1.6	172.7	3.1	205.6	0.0	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	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	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	(s)	181.2	0.0	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	(s)	185.4	0.0	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	0.0	187.3	0.0	187.3
1984	0.0	0.2	0.3	25.8	5.7	0.2	1.5	160.9	1.5	195.9	0.0	0.0	196.1	0.0	196.1
1985	0.0	0.4	0.4	25.9	6.1	0.1	1.4	160.9	1.0	195.7	0.0	0.0	196.1	0.0	196.1
1986	0.0	0.7	0.4	25.3	7.1	0.1	1.3	165.4	0.2	199.7	0.0	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	207.1	0.0	0.0	208.1	0.0	208.1
1988	0.0	0.6	0.2	30.6	12.2	0.1	1.5	170.5	0.8	215.9	0.0	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	0.4	218.7	0.0	0.0	219.3	0.0	219.3
1990	0.0	0.5	0.5	28.9	13.3	0.1	1.5	160.2	0.5	205.0	[e] 0.2	0.0	[e] 205.5	0.0	[e] 205.5
1991	0.0	0.5	0.1	25.8	12.7	0.1	1.4	162.7	0.6	203.4	0.2	0.0	203.9	0.0	203.9
1992	0.0	0.6	0.1	28.3	13.0	0.1	1.4	161.7	0.3	204.9	0.2	0.0	205.5	0.0	205.5
1993	0.0	0.5	0.2	28.1	13.1	0.1	1.4	164.5	0.2	207.6	0.3	0.0	208.0	0.0	208.0
1994	0.0	0.7	0.1	26.0	13.9	0.2	1.5	165.2	0.1	207.1	0.3	0.0	207.8	0.0	207.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Connecticut

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	4,097	0	4,097	(s)	2,550	126	0	2,676	0	179	0	0	0	–
1970	1,875	0	1,875	(s)	20,531	1,018	0	21,550	3,604	327	0	0	0	–
1971	1,422	0	1,422	(s)	21,221	1,212	0	22,433	7,767	385	0	0	0	–
1972	94	0	94	(s)	28,083	1,103	0	29,186	7,777	534	0	0	0	–
1973	29	0	29	(s)	29,589	751	0	30,341	4,303	441	0	0	0	–
1974	186	0	186	1	26,060	486	0	26,545	7,970	422	0	0	0	–
1975	4	0	4	(s)	22,150	232	0	22,382	8,135	487	0	0	0	–
1976	11	0	11	(s)	19,705	204	0	19,909	12,330	377	0	0	0	–
1977	10	0	10	0	18,832	119	0	18,951	13,174	425	0	0	0	–
1978	16	0	16	0	19,663	78	0	19,741	13,863	353	0	0	0	–
1979	9	0	9	0	18,277	133	0	18,409	12,706	455	0	0	0	–
1980	0	0	0	0	21,428	168	0	21,596	11,835	250	0	0	0	–
1981	0	0	0	0	18,220	93	0	18,313	12,673	254	0	0	0	–
1982	0	0	0	0	17,371	74	0	17,445	13,625	365	0	0	0	–
1983	0	0	0	0	19,666	70	0	19,736	11,588	372	0	0	0	–
1984	13	0	13	2	20,459	124	0	20,583	14,292	371	0	0	0	–
1985	774	0	774	2	17,006	83	0	17,089	12,721	300	0	0	0	–
1986	763	0	763	1	18,318	112	0	18,430	18,667	797	0	0	0	–
1987	787	0	787	7	15,596	136	0	15,732	20,540	912	0	0	0	–
1988	854	0	854	1	18,271	230	0	18,500	22,251	1,002	242	0	0	–
1989	877	0	877	3	18,876	198	0	19,074	19,563	618	317	0	0	–
1990	958	0	958	5	14,021	69	0	14,090	19,776	R 645	422	0	0	–
1991	840	0	840	5	12,919	109	0	13,029	12,243	R 535	439	0	0	–
1992	817	0	817	2	8,723	65	0	8,788	16,771	R 1,092	374	0	0	–
1993	745	0	745	1	6,958	73	0	7,032	21,802	R 1,174	406	0	0	–
1994	821	0	821	8	5,605	83	0	5,689	20,160	1,028	439	0	0	–
	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	0.0	90.3
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	0.0	125.1
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	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	0.0	262.0
1972	2.1	0.0	2.1	(s)	176.6	6.4	0.0	182.9	83.9	5.5	0.0	0.0	0.0	274.6
1973	0.7	0.0	0.7	(s)	186.0	4.3	0.0	190.4	46.9	4.6	0.0	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	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	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	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	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	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	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	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	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	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	0.0	254.3
1984	0.3	0.0	0.3	2.3	128.6	0.7	0.0	129.3	155.0	3.9	0.0	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	0.0	270.1
1986	20.1	0.0	20.1	0.8	115.2	0.7	0.0	115.8	201.6	8.3	0.0	0.0	0.0	346.6
1987	20.7	0.0	20.7	7.6	98.1	0.8	0.0	98.8	221.3	9.5	0.0	0.0	0.0	357.9
1988	22.4	0.0	22.4	1.3	114.9	1.3	0.0	116.2	239.0	10.3	2.5	0.0	0.0	391.8
1989	23.3	0.0	23.3	3.4	118.7	1.2	0.0	119.8	209.8	6.4	3.3	0.0	0.0	366.0
1990	25.3	0.0	25.3	5.0	88.1	0.4	0.0	88.6	211.2	R 6.7	4.4	0.0	0.0	341.5
1991	22.2	0.0	22.2	4.9	81.2	0.6	0.0	81.9	131.5	R 5.5	4.5	0.0	0.0	250.9
1992	21.5	0.0	21.5	2.2	54.8	0.4	0.0	55.2	179.1	R 11.2	3.9	0.0	0.0	275.4
1993	19.6	0.0	19.6	0.6	43.7	0.4	0.0	44.2	232.9	R 12.1	4.2	0.0	0.0	316.0
1994	21.5	0.0	21.5	8.1	35.2	0.5	0.0	35.7	215.2	10.6	4.5	0.0	0.0	299.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Delaware

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	2,813	20,571	0	0	0	0	-668	–
1965	1,103	18	571	150	3,275	2,086	825	1,507	112	5,076	5,538	2,864	22,005	0	0	0	0	-817	–
1970	1,541	26	518	20	4,308	2,052	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	1,316	136	7,440	5,012	3,394	22,868	0	0	0	0	-7,971	–
1985	2,766	38	827	16	3,425	1,569	705	994	126	7,554	3,602	3,279	22,098	0	0	0	0	-6,056	–
1986	2,565	33	609	20	3,312	1,341	338	878	124	7,719	5,101	R3,298	R22,739	0	0	0	0	-3,632	–
1987	2,710	37	573	16	3,824	1,287	368	1,006	140	7,867	4,766	R3,419	R23,265	0	0	0	0	-3,522	–
1988	2,686	29	410	18	3,851	1,362	342	1,017	135	8,195	6,365	R3,818	R25,513	0	0	0	0	-3,186	–
1989	2,357	35	522	18	4,216	1,255	284	950	138	8,151	5,776	R3,832	R25,142	0	0	0	0	-327	–
1990	2,293	39	537	78	3,220	1,306	159	1,043	142	7,966	3,830	R5,067	R23,347	0	R I NA	I NA	I NA	R1,001	–
1991	2,186	42	142	17	3,427	2,397	187	1,098	127	7,795	5,005	R5,129	R25,324	0	R NA	NA	NA	R207	–
1992	1,770	40	78	18	3,242	1,451	148	925	130	8,155	4,947	R6,065	R25,159	0	R NA	NA	NA	R3,776	–
1993	2,446	42	112	51	3,562	1,440	143	1,015	132	8,309	6,414	R4,207	R25,385	0	R NA	NA	NA	R2,543	–
1994	2,226	49	163	57	3,566	566	253	1,264	138	8,307	5,720	4,358	24,392	0	NA	NA	NA	3,177	–
			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	16.9	118.0	0.0	0.0	0.0	0.0	-2.3	145.5
1965	29.0	18.7	3.8	0.8	19.1	11.2	4.7	6.0	0.7	26.7	34.8	17.2	124.9	0.0	0.0	0.0	0.0	-2.8	169.9
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	183.4	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	(s)	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	31.5	20.1	128.1	0.0	0.0	0.0	0.0	-27.2	217.6
1985	71.4	39.5	5.5	0.1	19.9	8.4	4.0	3.6	0.8	39.7	22.6	19.6	124.2	0.0	0.0	0.0	0.0	-20.7	214.5
1986	66.4	33.6	4.0	0.1	19.3	7.2	1.9	3.2	0.7	40.5	32.1	R19.9	R129.0	0.0	0.0	0.0	0.0	-12.4	R216.6
1987	70.5	37.3	3.8	0.1	22.3	6.9	2.1	3.7	0.8	41.3	30.0	R20.4	R131.4	0.0	0.0	0.0	0.0	-12.0	R227.1
1988	69.0	29.9	2.7	0.1	22.4	7.3	1.9	3.7	0.8	43.0	40.0	R22.7	R144.8	0.0	0.0	0.0	0.0	-10.9	R232.9
1989	60.8	35.9	3.5	0.1	24.6	6.8	1.6	3.5	0.8	42.8	36.3	R22.6	R142.6	0.0	0.0	0.0	0.0	-1.1	R238.1
1990	59.5	40.1	3.6	0.4	18.8	7.0	0.9	3.8	0.9	41.8	24.1	R30.0	R131.2	0.0	I 0.0	I 8.7	I (s)	3.4	RI243.0
1991	56.8	43.4	0.9	0.1	20.0	12.9	1.1	4.0	0.8	40.9	31.5	R30.2	R142.3	0.0	0.0	8.8	(s)	0.7	R252.0
1992	46.1	41.0	0.5	0.1	18.9	7.8	0.8	3.4	0.8	42.8	31.1	R35.6	R141.8	0.0	0.0	9.2	(s)	12.9	R251.1
1993	63.5	43.1	0.7	0.3	20.7	7.7	0.8	3.7	0.8	43.6	40.3	R24.5	R143.2	0.0	0.0	9.5	(s)	R8.7	R268.0
1994	57.5	50.4	1.1	0.3	20.8	3.0	1.4	4.6	0.8	43.6	36.0	25.3	137.0	0.0	0.0	9.7	(s)	10.8	265.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Delaware

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	0	12	12	4	1,485	807	176	2,468	0	0	496	–	1,234	–
1965	0	8	8	6	1,651	604	288	2,543	0	0	729	–	1,741	–
1970	0	5	5	8	2,037	365	416	2,818	0	0	1,169	–	2,832	–
1971	0	5	5	8	2,069	362	391	2,822	0	0	1,248	–	3,018	–
1972	0	3	3	8	2,226	335	414	2,975	0	0	1,304	–	3,140	–
1973	0	3	3	8	2,092	298	375	2,766	0	0	1,444	–	3,456	–
1974	0	3	3	7	1,954	243	370	2,567	0	0	1,377	–	3,358	–
1975	0	3	3	7	1,866	215	394	2,474	0	0	1,640	–	3,956	–
1976	0	2	2	7	2,065	223	442	2,730	0	0	1,716	–	4,133	–
1977	0	2	2	7	2,021	150	380	2,551	0	0	1,790	–	4,323	–
1978	0	2	2	7	1,792	132	342	2,266	0	0	1,821	–	4,455	–
1979	0	1	1	7	1,477	263	2,649	4,389	0	0	1,816	–	4,383	–
1980	(s)	2	2	7	1,316	275	375	1,966	0	0	1,866	–	4,537	–
1981	0	2	2	7	1,029	256	453	1,738	0	0	1,443	–	3,440	–
1982	3	2	5	7	894	324	377	1,595	0	0	1,466	–	3,522	–
1983	1	1	2	6	1,365	238	448	2,051	0	0	1,546	–	3,703	–
1984	0	2	2	7	1,400	174	536	2,110	0	0	1,904	–	4,431	–
1985	1	1	3	6	1,331	649	593	2,572	0	0	1,924	–	4,521	–
1986	2	2	4	7	1,057	319	413	1,789	0	0	2,121	–	4,879	–
1987	13	2	15	7	1,341	337	492	2,170	0	0	2,329	–	5,322	–
1988	6	1	7	8	1,393	303	545	2,241	0	0	2,533	–	5,727	–
1989	7	1	7	8	1,321	269	546	2,137	0	0	2,623	–	5,882	–
1990	8	(s)	8	7	967	144	573	1,684	[e] 79	[e] 7	2,651	–	R 5,794	–
1991	7	(s)	7	7	1,017	165	631	1,813	84	7	2,824	–	R 6,141	–
1992	(s)	(s)	(s)	8	1,041	144	618	1,803	88	7	2,786	–	R 5,948	–
1993	17	(s)	17	8	1,135	106	672	1,913	96	7	3,044	–	R 6,428	–
1994	10	1	11	9	1,180	96	700	1,976	94	7	3,107	–	6,480	–
	Trillion Btu													
1960	0.0	0.3	0.3	3.9	8.6	4.6	0.7	13.9	0.0	0.0	1.7	19.9	4.2	24.1
1965	0.0	0.2	0.2	5.9	9.6	3.4	1.2	14.2	0.0	0.0	2.5	22.8	5.9	28.8
1970	0.0	0.1	0.1	8.0	11.9	2.1	1.6	15.5	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	6.1	27.6	14.7	42.3
1978	0.0	(s)	(s)	7.7	10.4	0.7	1.3	12.4	0.0	0.0	6.2	26.4	15.2	41.6
1979	0.0	(s)	(s)	7.2	8.6	1.5	9.8	19.8	0.0	0.0	6.2	33.3	15.0	48.2
1980	(s)	(s)	(s)	7.1	7.7	1.6	1.4	10.6	0.0	0.0	6.4	24.2	15.5	39.6
1981	0.0	(s)	(s)	7.0	6.0	1.5	1.7	9.1	0.0	0.0	4.9	21.1	11.7	32.8
1982	0.1	(s)	0.1	6.9	5.2	1.8	1.4	8.4	0.0	0.0	5.0	20.4	12.0	32.4
1983	(s)	(s)	0.1	6.3	8.0	1.3	1.6	10.9	0.0	0.0	5.3	22.6	12.6	35.2
1984	0.0	(s)	(s)	7.0	8.2	1.0	1.9	11.1	0.0	0.0	6.5	24.6	15.1	39.7
1985	(s)	(s)	0.1	6.3	7.8	3.7	2.1	13.6	0.0	0.0	6.6	26.5	15.4	42.0
1986	0.1	(s)	0.1	7.0	6.2	1.8	1.5	9.5	0.0	0.0	7.2	23.8	16.6	40.4
1987	0.3	(s)	0.4	7.1	7.8	1.9	1.8	11.5	0.0	0.0	7.9	27.0	18.2	45.1
1988	0.1	(s)	0.2	7.7	8.1	1.7	2.0	11.8	0.0	0.0	8.6	28.4	19.5	47.9
1989	0.2	(s)	0.2	7.7	7.7	1.5	2.0	11.2	0.0	0.0	8.9	28.1	20.1	48.1
1990	0.2	(s)	0.2	7.4	5.6	0.8	2.1	8.5	[e] 1.6	[e] (s)	9.0	R [e] 26.8	19.8	R [e] 46.5
1991	0.2	(s)	0.2	7.4	5.9	0.9	2.3	9.1	1.7	(s)	9.6	R 28.0	R 21.0	R 49.0
1992	(s)	(s)	(s)	8.5	6.1	0.8	2.2	9.1	1.8	(s)	9.5	R 28.9	20.3	R 49.2
1993	0.4	(s)	0.4	8.6	6.6	0.6	2.4	9.6	1.9	(s)	10.4	R 31.0	21.9	R 52.9
1994	0.2	(s)	0.3	8.9	6.9	0.5	2.5	10.0	1.9	(s)	10.6	31.6	22.1	53.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Delaware

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	0	5	5	1	636	85	51	11	2,081	2,864	536	–	1,279	–
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	95	27	252	690	1,640	–	3,818	–
1985	3	1	3	3	334	51	105	38	70	599	1,698	–	3,988	–
1986	4	1	5	4	245	17	73	39	157	530	1,864	–	4,289	–
1987	24	1	25	4	362	17	87	41	166	673	1,985	–	4,536	–
1988	11	(s)	11	4	390	27	96	40	178	731	2,156	–	4,875	–
1989	12	(s)	13	4	298	6	96	39	234	673	2,282	–	5,118	–
1990	14	(s)	14	4	338	10	101	35	180	664	2,361	–	R 5,159	–
1991	13	(s)	13	4	440	13	111	34	51	649	2,471	–	R 5,372	–
1992	(s)	(s)	(s)	5	349	1	109	35	89	584	2,498	–	R 5,333	–
1993	32	(s)	32	5	332	7	119	9	220	688	2,660	–	R 5,619	–
1994	19	(s)	19	5	259	8	124	8	161	559	2,745	–	5,725	–
					Trillion Btu									
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
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
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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	2.9	3.3	0.2	1.7	0.2	10.5	16.0	5.1	24.0	12.3	36.3
1980	(s)	(s)	(s)	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	(s)	(s)	3.9	3.7	(s)	0.3	0.3	12.3	16.6	4.9	25.4	11.6	37.0
1982	0.1	(s)	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	(s)	(s)	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	(s)	(s)	3.9	1.8	(s)	0.3	0.1	1.6	3.9	5.6	13.4	13.0	26.5
1985	0.1	(s)	0.1	3.5	1.9	0.3	0.4	0.2	0.4	3.3	5.8	12.6	13.6	26.2
1986	0.1	(s)	0.1	3.6	1.4	0.1	0.3	0.2	1.0	3.0	6.4	13.0	14.6	27.7
1987	0.6	(s)	0.6	3.8	2.1	0.1	0.3	0.2	1.0	3.8	6.8	15.0	15.5	30.4
1988	0.3	(s)	0.3	4.1	2.3	0.2	0.4	0.2	1.1	4.1	7.4	15.9	16.6	32.5
1989	0.3	(s)	0.3	4.2	1.7	(s)	0.4	0.2	1.5	3.8	7.8	16.1	17.5	33.6
1990	0.3	(s)	0.4	4.1	2.0	0.1	0.4	0.2	1.1	3.7	8.1	16.2	17.6	33.8
1991	0.3	(s)	0.3	4.4	2.6	0.1	0.4	0.2	0.3	3.5	8.4	16.7	18.3	35.0
1992	(s)	(s)	(s)	5.1	2.0	(s)	0.4	0.2	0.6	3.2	8.5	16.8	18.2	35.0
1993	0.8	(s)	0.8	5.4	1.9	(s)	0.4	(s)	1.4	3.8	9.1	19.1	19.2	38.2
1994	0.4	(s)	0.5	5.7	1.5	(s)	0.4	(s)	1.0	3.1	9.4	18.5	19.5	38.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Delaware

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	32	1	239	482	45	798	37	205	2,931	2,813	7,549	0	0	0	863	–	2,146	–
1965	35	6	571	715	136	1,165	40	144	2,785	2,864	8,421	0	0	0	1,373	–	3,277	–
1970	35	12	518	794	20	1,753	41	92	2,643	2,657	8,519	0	0	0	2,527	–	6,124	–
1971	26	11	655	863	12	1,806	41	94	2,461	2,910	8,842	0	0	0	2,474	–	5,980	–
1972	25	10	560	874	34	2,120	44	95	2,790	3,066	9,583	0	0	0	2,667	–	6,421	–
1973	31	10	454	902	21	2,299	46	74	3,921	3,160	10,876	0	0	0	2,782	–	6,659	–
1974	23	9	626	865	34	2,278	44	96	2,505	3,058	9,505	0	0	0	2,777	–	6,772	–
1975	27	7	653	1,079	32	2,154	31	63	1,878	3,032	8,923	0	0	0	2,176	–	5,249	–
1976	24	6	501	979	35	2,162	34	58	2,056	3,748	9,573	0	0	0	2,287	–	5,510	–
1977	27	4	285	1,127	19	2,193	75	51	2,132	3,979	9,861	0	0	0	2,274	–	5,491	–
1978	111	9	210	871	16	2,361	81	47	1,545	4,149	9,279	0	0	0	2,423	–	5,928	–
1979	78	10	412	685	16	3,997	85	46	2,075	4,481	11,797	0	0	0	2,597	–	6,267	–
1980	184	13	350	616	17	2,744	75	35	1,808	4,474	10,120	0	0	0	2,439	–	5,931	–
1981	190	14	419	406	3	332	72	34	1,396	2,855	5,518	0	0	0	2,309	–	5,504	–
1982	175	12	442	413	4	431	66	29	1,404	2,703	5,493	0	0	0	2,135	–	5,129	–
1983	154	20	208	421	23	351	69	25	840	2,935	4,871	0	0	0	2,462	–	5,898	–
1984	192	25	238	431	10	679	74	58	1,146	3,064	5,700	0	0	0	2,685	–	6,251	–
1985	217	22	827	423	4	293	69	54	649	2,928	5,247	0	0	0	2,693	–	6,327	–
1986	206	21	609	420	2	347	67	61	698	R2,864	R5,068	0	0	0	2,839	–	6,530	–
1987	221	18	573	422	14	424	76	59	935	R3,045	R5,548	0	0	0	2,701	–	6,172	–
1988	248	15	410	446	12	369	73	56	1,121	R3,492	R5,979	0	0	0	2,854	–	6,452	–
1989	209	15	522	451	9	300	75	65	972	R3,515	R5,909	0	0	0	3,160	–	7,088	–
1990	215	17	537	434	4	363	77	48	746	R3,658	R5,867	R[f]NA	[f]NA	[f]NA	3,272	–	R7,149	–
1991	208	16	142	445	8	350	69	51	950	R3,815	R5,829	RNA	NA	NA	3,241	–	R7,046	–
1992	142	18	78	345	3	192	70	51	1,238	R4,374	R6,352	RNA	NA	NA	3,248	–	R6,934	–
1993	174	19	112	365	30	219	72	64	1,756	R4,207	R6,823	RNA	NA	NA	3,417	–	R7,216	–
1994	189	17	163	341	149	434	75	64	1,813	4,358	7,398	NA	NA	NA	3,447	–	7,188	–
			Trillion Btu															
1960	0.8	1.5	1.6	2.8	0.3	3.2	0.2	1.1	18.4	16.9	44.5	0.0	0.0	0.0	2.9	49.7	7.3	57.1
1965	0.9	6.6	3.8	4.2	0.8	4.7	0.2	0.8	17.5	17.2	49.1	0.0	0.0	0.0	4.7	61.3	11.2	72.5
1970	0.8	12.3	3.4	4.6	0.1	6.6	0.3	0.5	16.6	16.0	48.1	0.0	0.0	0.0	8.6	69.8	20.9	90.7
1971	0.6	11.5	4.3	5.0	0.1	6.8	0.2	0.5	15.5	17.3	49.8	0.0	0.0	0.0	8.4	70.3	20.4	90.7
1972	0.6	10.3	3.7	5.1	0.2	8.0	0.3	0.5	17.5	18.2	53.5	0.0	0.0	0.0	9.1	73.5	21.9	95.4
1973	0.7	10.2	3.0	5.3	0.1	8.6	0.3	0.4	24.6	18.8	61.1	0.0	0.0	0.0	9.5	81.5	22.7	104.3
1974	0.5	9.1	4.2	5.0	0.2	8.5	0.3	0.5	15.8	18.1	52.5	0.0	0.0	0.0	9.5	71.7	23.1	94.8
1975	0.6	7.1	4.3	6.3	0.2	8.0	0.2	0.3	11.8	18.0	49.1	0.0	0.0	0.0	7.4	64.3	17.9	82.2
1976	0.6	6.5	3.3	5.7	0.2	8.0	0.2	0.3	12.9	21.9	52.6	0.0	0.0	0.0	7.8	67.6	18.8	86.4
1977	0.6	4.6	1.9	6.6	0.1	8.1	0.5	0.3	13.4	23.3	54.0	0.0	0.0	0.0	7.8	67.0	18.7	85.7
1978	2.7	8.9	1.4	5.1	0.1	8.7	0.5	0.2	9.7	24.3	49.9	0.0	0.0	0.0	8.3	69.8	20.2	90.0
1979	1.9	10.3	2.7	4.0	0.1	14.7	0.5	0.2	13.0	26.0	61.3	0.0	0.0	0.0	8.9	82.4	21.4	103.8
1980	4.5	13.1	2.3	3.6	0.1	10.1	0.5	0.2	11.4	25.8	53.9	0.0	0.0	0.0	8.3	79.8	20.2	100.0
1981	4.6	14.9	2.8	2.4	(s)	1.2	0.4	0.2	8.8	16.9	32.7	0.0	0.0	0.0	7.9	60.0	18.8	78.8
1982	4.3	12.8	2.9	2.4	(s)	1.6	0.4	0.2	8.8	16.1	32.4	0.0	0.0	0.0	7.3	56.7	17.5	74.2
1983	3.8	20.5	1.4	2.5	0.1	1.3	0.4	0.1	5.3	17.6	28.6	0.0	0.0	0.0	8.4	61.3	20.1	81.4
1984	4.7	25.7	1.6	2.5	0.1	2.4	0.4	0.3	7.2	18.1	32.6	0.0	0.0	0.0	9.2	72.2	21.3	93.5
1985	5.4	22.1	5.5	2.5	(s)	1.1	0.4	0.3	4.1	17.5	31.3	0.0	0.0	0.0	9.2	67.9	21.6	89.5
1986	5.1	21.2	4.0	2.4	(s)	1.3	0.4	0.3	4.4	R17.3	R30.1	0.0	0.0	0.0	9.7	R66.1	22.3	R88.4
1987	5.5	18.2	3.8	2.5	0.1	1.6	0.5	0.3	5.9	R18.1	R32.7	0.0	0.0	0.0	9.2	R65.6	21.1	R86.6
1988	6.1	15.1	2.7	2.6	0.1	1.3	0.4	0.3	7.0	R20.7	R35.2	0.0	0.0	0.0	9.7	R66.2	22.0	R88.2
1989	5.2	15.4	3.5	2.6	(s)	1.1	0.5	0.3	6.1	R20.7	R34.9	0.0	0.0	0.0	10.8	R66.2	24.2	R90.3
1990	5.3	17.3	3.6	2.5	(s)	1.3	0.5	0.3	4.7	R21.5	R34.4	[f]0.0	[f]7.1	[f]0.0	11.2	R[f]75.3	24.4	R[f]99.7
1991	5.2	16.5	0.9	2.6	(s)	1.3	0.4	0.3	6.0	R22.3	R33.8	0.0	7.1	0.0	11.1	R73.7	24.0	R97.8
1992	3.6	18.7	0.5	2.0	(s)	0.7	0.4	0.3	7.8	R25.4	R37.1	0.0	7.5	0.0	11.1	R77.9	R23.7	R101.6
1993	4.4	20.1	0.7	2.1	0.2	0.8	0.4	0.3	11.0	R24.5	R40.1	0.0	7.6	0.0	11.7	R83.9	24.6	R108.5
1994	4.8	17.8	1.1	2.0	0.8	1.6	0.5	0.3	11.4	25.3	43.0	0.0	7.8	0.0	11.8	85.2	24.5	109.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Delaware

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	1	0	19	166	2,144	2	74	4,096	1,464	7,965	0	0	–	0	–
1965	(s)	0	150	256	2,086	3	71	4,921	589	8,076	0	0	–	0	–
1970	(s)	0	20	385	2,052	13	67	6,131	671	9,350	0	0	–	0	–
1971	(s)	0	11	452	2,032	20	71	6,407	493	9,486	0	0	–	0	–
1972	(s)	0	18	313	1,905	23	76	6,622	922	9,878	0	0	–	0	–
1973	(s)	0	11	409	1,729	20	65	7,048	1,229	10,511	0	0	–	0	–
1974	(s)	0	59	506	1,756	21	62	6,885	1,208	10,497	0	0	–	0	–
1975	(s)	0	15	510	1,654	36	52	6,973	961	10,201	0	0	–	0	–
1976	(s)	0	19	636	1,582	35	57	7,299	1,031	10,659	0	0	–	0	–
1977	(s)	0	24	680	1,666	39	64	7,246	843	10,561	0	0	–	0	–
1978	0	(s)	18	692	1,416	56	68	7,243	718	10,211	0	0	–	0	–
1979	0	(s)	20	770	1,419	13	71	6,915	541	9,750	0	0	–	0	–
1980	0	0	10	963	1,573	14	64	6,533	812	9,970	0	0	–	0	–
1981	0	(s)	9	939	1,482	8	61	6,795	289	9,582	0	0	–	0	–
1982	0	(s)	14	950	1,484	10	56	6,531	201	9,247	0	0	–	0	–
1983	0	(s)	16	1,160	1,374	11	58	7,151	522	10,294	0	0	–	0	–
1984	0	(s)	13	1,263	1,586	7	62	7,355	464	10,750	0	0	–	0	–
1985	0	(s)	16	1,236	1,569	5	58	7,462	232	10,578	0	0	–	0	–
1986	0	(s)	20	1,479	1,341	45	57	7,619	588	11,148	0	0	–	0	–
1987	0	(s)	16	1,567	1,287	3	64	7,767	1,202	11,906	0	0	–	0	–
1988	0	(s)	18	1,449	1,362	6	62	8,099	874	11,870	0	0	–	0	–
1989	0	(s)	18	1,869	1,255	7	63	8,048	889	12,149	0	0	–	0	–
1990	0	(s)	78	1,371	1,306	6	65	7,883	912	11,621	[e]0	0	–	0	–
1991	0	(s)	17	1,406	2,397	6	58	7,710	1,316	12,910	0	0	–	0	–
1992	0	(s)	18	1,381	1,451	6	59	8,069	1,037	12,021	0	0	–	0	–
1993	0	(s)	51	1,627	1,440	5	61	8,236	1,144	12,564	0	0	–	0	–
1994	0	(s)	57	1,539	566	7	63	8,235	1,267	11,733	0	0	–	0	–
			Trillion Btu												
1960	(s)	0.0	0.1	1.0	11.5	(s)	0.5	21.5	9.2	43.7	0.0	0.0	43.7	0.0	43.7
1965	(s)	0.0	0.8	1.5	11.2	(s)	0.4	25.8	3.7	43.4	0.0	0.0	43.4	0.0	43.4
1970	(s)	0.0	0.1	2.2	11.1	0.1	0.4	32.2	4.2	50.3	0.0	0.0	50.3	0.0	50.3
1971	(s)	0.0	0.1	2.6	10.9	0.1	0.4	33.7	3.1	50.8	0.0	0.0	50.9	0.0	50.9
1972	(s)	0.0	0.1	1.8	10.2	0.1	0.5	34.8	5.8	53.3	0.0	0.0	53.3	0.0	53.3
1973	(s)	0.0	0.1	2.4	9.3	0.1	0.4	37.0	7.7	56.9	0.0	0.0	56.9	0.0	56.9
1974	(s)	0.0	0.3	2.9	9.4	0.1	0.4	36.2	7.6	56.9	0.0	0.0	56.9	0.0	56.9
1975	(s)	0.0	0.1	3.0	8.9	0.1	0.3	36.6	6.0	55.0	0.0	0.0	55.0	0.0	55.0
1976	(s)	0.0	0.1	3.7	8.5	0.1	0.3	38.3	6.5	57.6	0.0	0.0	57.6	0.0	57.6
1977	(s)	0.0	0.1	4.0	9.0	0.1	0.4	38.1	5.3	56.9	0.0	0.0	56.9	0.0	56.9
1978	0.0	(s)	0.1	4.0	7.6	0.2	0.4	38.0	4.5	54.9	0.0	0.0	54.9	0.0	54.9
1979	0.0	(s)	0.1	4.5	7.6	(s)	0.4	36.3	3.4	52.4	0.0	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	0.0	54.0	0.0	54.0
1981	0.0	(s)	(s)	5.5	8.0	(s)	0.4	35.7	1.8	51.4	0.0	0.0	51.4	0.0	51.4
1982	0.0	(s)	0.1	5.5	8.0	(s)	0.3	34.3	1.3	49.5	0.0	0.0	49.6	0.0	49.6
1983	0.0	(s)	0.1	6.8	7.4	(s)	0.4	37.6	3.3	55.5	0.0	0.0	55.5	0.0	55.5
1984	0.0	(s)	0.1	7.4	8.5	(s)	0.4	38.6	2.9	57.9	0.0	0.0	57.9	0.0	57.9
1985	0.0	(s)	0.1	7.2	8.4	(s)	0.4	39.2	1.5	56.8	0.0	0.0	56.8	0.0	56.8
1986	0.0	(s)	0.1	8.6	7.2	0.2	0.3	40.0	3.7	60.2	0.0	0.0	60.2	0.0	60.2
1987	0.0	(s)	0.1	9.1	6.9	(s)	0.4	40.8	7.6	64.9	0.0	0.0	64.9	0.0	64.9
1988	0.0	(s)	0.1	8.4	7.3	(s)	0.4	42.5	5.5	64.3	0.0	0.0	64.3	0.0	64.3
1989	0.0	(s)	0.1	10.9	6.8	(s)	0.4	42.3	5.6	66.0	0.0	0.0	66.0	0.0	66.0
1990	0.0	(s)	0.4	8.0	7.0	(s)	0.4	41.4	5.7	63.0	[e]0.0	0.0	[e]63.0	0.0	[e]63.0
1991	0.0	(s)	0.1	8.2	12.9	(s)	0.4	40.5	8.3	70.3	0.0	0.0	70.3	0.0	70.3
1992	0.0	(s)	0.1	8.0	7.8	(s)	0.4	42.4	6.5	65.2	0.0	0.0	65.2	0.0	65.2
1993	0.0	(s)	0.3	9.5	7.7	(s)	0.4	43.3	7.2	68.3	0.0	0.0	68.3	0.0	68.3
1994	0.0	(s)	0.3	9.0	3.0	(s)	0.4	43.3	8.0	63.9	0.0	0.0	63.9	0.0	63.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Delaware

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	737	0	737	3	40	8	0	48	0	0	0	0	0	–
1965	1,055	0	1,055	5	84	17	0	100	0	0	0	0	0	–
1970	1,497	0	1,497	4	1,537	307	1,240	3,084	0	0	0	0	0	–
1971	1,458	0	1,458	4	1,607	168	1,099	2,874	0	0	0	0	0	–
1972	909	0	909	2	4,063	96	851	5,010	0	0	0	0	0	–
1973	816	0	816	2	5,750	188	621	6,559	0	0	0	0	0	–
1974	849	0	849	1	7,378	314	531	8,223	0	0	0	0	0	–
1975	905	0	905	2	6,176	135	237	6,547	0	0	0	0	0	–
1976	783	0	783	2	6,871	110	324	7,305	0	0	0	0	0	–
1977	703	0	703	1	7,574	188	391	8,154	0	0	0	0	0	–
1978	778	0	778	1	8,052	176	431	8,659	0	0	0	0	0	–
1979	887	0	887	5	6,871	116	434	7,421	0	0	0	0	0	–
1980	942	0	942	7	5,831	187	470	6,488	0	0	0	0	0	–
1981	1,840	0	1,840	6	5,131	119	318	5,568	0	0	0	0	0	–
1982	1,720	0	1,720	5	3,570	84	270	3,923	0	0	0	0	0	–
1983	2,700	0	2,700	5	3,509	133	348	3,990	0	0	0	0	0	–
1984	2,618	0	2,618	7	3,150	137	330	3,618	0	0	0	0	0	–
1985	2,543	0	2,543	7	2,650	101	351	3,102	0	0	0	0	0	–
1986	2,350	0	2,350	2	3,658	111	434	4,204	0	0	0	0	0	–
1987	2,449	0	2,449	8	2,463	133	374	2,969	0	0	0	0	0	–
1988	2,420	0	2,420	3	4,193	172	326	4,691	0	0	0	0	0	–
1989	2,128	0	2,128	8	3,681	277	317	4,275	0	0	0	0	0	–
1990	2,056	0	2,056	11	1,991	110	1,410	3,510	0	0	0	0	0	–
1991	1,958	0	1,958	14	2,689	119	1,314	4,122	0	0	0	0	0	–
1992	1,628	0	1,628	8	2,582	126	1,691	4,399	0	0	0	0	0	–
1993	2,223	0	2,223	9	3,294	103	0	3,397	0	0	0	0	0	–
1994	2,007	0	2,007	17	2,479	247	0	2,727	0	0	0	0	0	–
					Trillion Btu									
1960	19.1	0.0	19.1	3.3	0.2	(s)	0.0	0.3	0.0	0.0	0.0	0.0	0.0	22.7
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	0.0	33.3
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	90.3
1990	53.6	0.0	53.6	11.4	12.5	0.6	8.5	21.6	0.0	0.0	0.0	0.0	0.0	86.6
1991	51.1	0.0	51.1	15.1	16.9	0.7	7.9	25.5	0.0	0.0	0.0	0.0	0.0	91.7
1992	42.5	0.0	42.5	8.7	16.2	0.7	10.2	27.2	0.0	0.0	0.0	0.0	0.0	78.4
1993	57.9	0.0	57.9	9.0	20.7	0.6	0.0	21.3	0.0	0.0	0.0	0.0	0.0	88.2
1994	52.0	0.0	52.0	18.0	15.6	1.4	0.0	17.0	0.0	0.0	0.0	0.0	0.0	87.1

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, District of Columbia

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
1965	526	17	20	0	3,435	(s)	104	2	71	5,469	6,749	0	15,850	0	3	0	0	10,436	–
1970	1,128	26	17	0	4,934	(s)	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	(s)	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	(s)	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	8	60	4,218	1,466	0	8,214	0	0	0	0	25,067	–
1985	140	29	27	0	2,229	7	68	4	55	3,801	740	0	6,931	0	0	0	0	26,938	–
1986	54	30	31	0	2,395	501	13	4	54	3,877	1,485	0	8,360	0	0	0	0	27,480	–
1987	70	31	31	0	1,937	(s)	13	4	61	4,236	1,355	0	7,638	0	0	0	0	28,464	–
1988	31	33	33	0	1,868	5	15	5	59	4,364	1,168	0	7,517	0	0	0	0	28,579	–
1989	60	33	27	0	1,841	0	59	5	61	4,198	1,445	0	7,635	0	0	0	0	28,584	–
1990	69	29	30	0	1,537	5	11	4	62	4,020	1,024	0	6,694	0	R NA	I NA	I NA	R 29,774	–
1991	66	31	22	0	1,548	0	8	4	56	4,022	666	0	6,326	0	R NA	NA	NA	R 31,454	–
1992	50	33	21	0	1,553	0	8	7	57	4,025	472	0	6,143	0	R NA	NA	NA	R 31,030	–
1993	51	33	28	2	1,631	101	9	6	58	4,184	650	0	6,670	0	R NA	NA	NA	R 31,411	–
1994	47	31	26	2	1,863	0	10	6	61	4,100	737	0	6,806	0	NA	NA	NA	30,553	–
			Trillion Btu																
1960	27.8	13.0	0.1	0.0	16.9	0.0	0.9	(s)	0.7	26.0	15.3	0.0	59.9	0.0	(s)	0.0	0.0	19.2	119.9
1965	13.8	17.3	0.1	0.0	20.0	(s)	0.6	(s)	0.4	28.7	42.4	0.0	92.3	0.0	(s)	0.0	0.0	35.6	159.1
1970	28.4	26.4	0.1	0.0	28.7	(s)	0.3	(s)	0.3	29.9	70.1	0.0	129.4	0.0	(s)	0.0	0.0	21.6	205.9
1971	15.4	27.7	0.1	0.0	22.4	(s)	0.5	(s)	0.3	29.8	68.2	0.0	121.4	0.0	(s)	0.0	0.0	34.9	199.4
1972	12.6	29.0	0.1	0.0	19.5	(s)	0.2	(s)	0.4	29.6	66.6	0.0	116.4	0.0	(s)	0.0	0.0	31.0	189.0
1973	14.1	28.2	0.2	0.0	20.8	(s)	0.2	(s)	0.3	31.4	69.6	0.0	122.5	0.0	(s)	0.0	0.0	29.1	193.8
1974	12.3	27.6	0.2	0.0	20.9	(s)	0.4	(s)	0.3	29.9	46.7	0.0	98.4	0.0	(s)	0.0	0.0	33.3	171.5
1975	10.1	26.2	0.1	0.0	18.4	0.0	0.6	(s)	0.4	30.2	26.2	0.0	76.0	0.0	(s)	0.0	0.0	51.0	163.3
1976	5.8	29.0	0.1	0.0	19.9	0.0	0.6	(s)	0.4	28.9	26.7	0.0	76.7	0.0	(s)	0.0	0.0	53.0	164.6
1977	4.0	26.2	0.1	0.0	21.0	0.0	1.5	(s)	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	(s)	1.5	(s)	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	(s)	1.7	(s)	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	(s)	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	(s)	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	(s)	(s)	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	(s)	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	(s)	(s)	0.4	22.2	9.2	0.0	46.1	0.0	0.0	0.0	0.0	85.5	163.9
1985	3.5	29.3	0.2	0.0	13.0	(s)	0.4	(s)	0.3	20.0	4.7	0.0	38.6	0.0	0.0	0.0	0.0	91.9	163.3
1986	1.4	30.0	0.2	0.0	14.0	2.8	0.1	(s)	0.3	20.4	9.3	0.0	47.1	0.0	0.0	0.0	0.0	93.8	172.2
1987	1.7	31.4	0.2	0.0	11.3	(s)	0.1	(s)	0.4	22.3	8.5	0.0	42.7	0.0	0.0	0.0	0.0	97.1	173.0
1988	0.8	33.1	0.2	0.0	10.9	(s)	0.1	(s)	0.4	22.9	7.3	0.0	41.9	0.0	0.0	0.0	0.0	97.5	173.2
1989	1.5	33.8	0.2	0.0	10.7	0.0	0.3	(s)	0.4	22.1	9.1	0.0	42.8	0.0	0.0	0.0	0.0	97.5	175.5
1990	1.7	29.1	0.2	0.0	9.0	(s)	0.1	(s)	0.4	21.1	6.4	0.0	37.2	0.0	I 0.0	I 1.5	I (s)	101.6	R 171.1
1991	1.7	31.3	0.1	0.0	9.0	0.0	(s)	(s)	0.3	21.1	4.2	0.0	34.9	0.0	0.0	1.6	(s)	107.3	R 176.7
1992	1.3	33.2	0.1	0.0	9.0	0.0	(s)	(s)	0.3	21.1	3.0	0.0	33.7	0.0	0.0	1.7	(s)	R 105.9	R 175.7
1993	1.3	33.3	0.2	(s)	9.5	0.6	0.1	(s)	0.4	22.0	4.1	0.0	36.8	0.0	0.0	1.7	(s)	R 107.2	R 180.3
1994	1.2	31.2	0.2	(s)	10.9	0.0	0.1	(s)	0.4	21.5	4.6	0.0	37.7	0.0	0.0	1.7	(s)	104.2	176.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, District of Columbia

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	47	0	47	9	1,314	67	1	1,382	0	0	429	–	1,068	–
1965	36	0	36	11	1,241	43	1	1,285	0	0	578	–	1,381	–
1970	14	0	14	14	1,622	21	1	1,644	0	0	830	–	2,012	–
1971	11	0	11	14	1,260	44	1	1,306	0	0	857	–	2,073	–
1972	8	0	8	14	1,285	15	1	1,302	0	0	862	–	2,075	–
1973	9	0	9	14	1,350	15	1	1,366	0	0	954	–	2,283	–
1974	12	0	12	13	1,265	9	1	1,274	0	0	884	–	2,156	–
1975	5	0	5	13	1,161	7	1	1,169	0	0	909	–	2,193	–
1976	9	0	9	14	1,189	4	2	1,195	0	0	930	–	2,241	–
1977	0	0	0	12	1,157	3	1	1,161	0	0	955	–	2,306	–
1978	0	0	0	13	1,135	3	1	1,139	0	0	975	–	2,386	–
1979	0	0	0	13	845	2	(s)	847	0	0	986	–	2,380	–
1980	38	0	38	14	749	5	1	755	0	0	1,085	–	2,638	–
1981	33	0	33	14	281	2	1	284	0	0	1,090	–	2,597	–
1982	43	1	44	13	509	4	1	513	0	0	1,114	–	2,675	–
1983	43	1	43	13	554	(s)	1	555	0	0	1,208	–	2,893	–
1984	35	1	35	17	568	(s)	1	569	0	0	1,227	–	2,857	–
1985	49	0	49	17	495	10	1	507	0	0	1,233	–	2,897	–
1986	19	1	19	17	398	11	1	410	0	0	1,332	–	3,063	–
1987	24	0	24	17	409	11	1	421	0	0	1,410	–	3,223	–
1988	11	0	11	17	295	8	1	304	0	0	1,465	–	3,313	–
1989	21	(s)	21	17	146	11	1	158	0	0	1,466	–	3,288	–
1990	24	0	24	15	149	3	1	154	[e]76	[e](s)	1,480	–	R3,235	–
1991	23	(s)	23	15	165	4	1	170	80	(s)	1,580	–	R3,435	–
1992	18	(s)	18	17	170	4	1	175	84	(s)	1,488	–	R3,177	–
1993	18	(s)	18	17	164	5	1	171	86	(s)	1,635	–	R3,453	–
1994	16	(s)	16	16	133	4	1	139	85	(s)	1,572	–	3,277	–
	Trillion Btu													
1960	1.2	0.0	1.2	9.0	7.7	0.4	(s)	8.0	0.0	0.0	1.5	19.7	3.6	23.4
1965	0.9	0.0	0.9	11.1	7.2	0.2	(s)	7.5	0.0	0.0	2.0	21.4	4.7	26.1
1970	0.3	0.0	0.3	14.1	9.4	0.1	(s)	9.6	0.0	0.0	2.8	26.9	6.9	33.7
1971	0.3	0.0	0.3	14.2	7.3	0.3	(s)	7.6	0.0	0.0	2.9	25.0	7.1	32.1
1972	0.2	0.0	0.2	14.5	7.5	0.1	(s)	7.6	0.0	0.0	2.9	25.2	7.1	32.3
1973	0.2	0.0	0.2	14.0	7.9	0.1	(s)	8.0	0.0	0.0	3.3	25.5	7.8	33.3
1974	0.3	0.0	0.3	13.4	7.4	(s)	(s)	7.4	0.0	0.0	3.0	24.2	7.4	31.5
1975	0.1	0.0	0.1	13.3	6.8	(s)	(s)	6.8	0.0	0.0	3.1	23.4	7.5	30.9
1976	0.2	0.0	0.2	14.2	6.9	(s)	(s)	7.0	0.0	0.0	3.2	24.5	7.6	32.1
1977	0.0	0.0	0.0	12.6	6.7	(s)	(s)	6.8	0.0	0.0	3.3	22.6	7.9	30.5
1978	0.0	0.0	0.0	13.6	6.6	(s)	(s)	6.6	0.0	0.0	3.3	23.5	8.1	31.7
1979	0.0	0.0	0.0	13.5	4.9	(s)	(s)	4.9	0.0	0.0	3.4	21.8	8.1	29.9
1980	0.9	0.0	0.9	13.8	4.4	(s)	(s)	4.4	0.0	0.0	3.7	22.8	9.0	31.8
1981	0.8	0.0	0.8	13.9	1.6	(s)	(s)	1.7	0.0	0.0	3.7	20.1	8.9	28.9
1982	1.1	(s)	1.1	13.3	3.0	(s)	(s)	3.0	0.0	0.0	3.8	21.1	9.1	30.3
1983	1.1	(s)	1.1	13.1	3.2	(s)	(s)	3.2	0.0	0.0	4.1	21.6	9.9	31.4
1984	0.9	(s)	0.9	17.6	3.3	(s)	(s)	3.3	0.0	0.0	4.2	26.0	9.7	35.7
1985	1.2	0.0	1.2	16.9	2.9	0.1	(s)	2.9	0.0	0.0	4.2	25.2	9.9	35.1
1986	0.5	(s)	0.5	17.5	2.3	0.1	(s)	2.4	0.0	0.0	4.5	24.9	10.5	35.4
1987	0.6	0.0	0.6	17.0	2.4	0.1	(s)	2.4	0.0	0.0	4.8	24.8	11.0	35.8
1988	0.3	0.0	0.3	17.7	1.7	(s)	(s)	1.8	0.0	0.0	5.0	24.7	11.3	36.0
1989	0.5	(s)	0.5	17.6	0.8	0.1	(s)	0.9	0.0	0.0	5.0	24.0	11.2	35.3
1990	0.6	0.0	0.6	15.3	0.9	(s)	(s)	0.9	[e]1.5	[e](s)	5.1	R[e]23.3	11.0	R[e]34.4
1991	0.6	(s)	0.6	15.4	1.0	(s)	(s)	1.0	1.6	(s)	5.4	R23.9	11.7	R35.7
1992	0.4	(s)	0.4	16.7	1.0	(s)	(s)	1.0	1.7	(s)	5.1	R24.9	10.8	R35.8
1993	0.4	(s)	0.4	16.7	1.0	(s)	(s)	1.0	1.7	(s)	5.6	R25.4	11.8	R37.2
1994	0.4	(s)	0.4	16.0	0.8	(s)	(s)	0.8	1.7	(s)	5.4	24.3	11.2	35.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, District of Columbia

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	87	0	87	4	1,060	34	(s)	85	1,443	2,621	954	–	2,373	–
1965	67	0	67	6	1,001	22	(s)	78	4,044	5,144	1,359	–	3,245	–
1970	26	0	26	12	1,308	10	(s)	65	5,081	6,464	1,935	–	4,689	–
1971	20	0	20	13	1,016	22	(s)	77	4,708	5,823	1,979	–	4,785	–
1972	16	0	16	14	1,036	8	(s)	84	3,504	4,632	2,103	–	5,063	–
1973	17	0	17	13	1,088	8	(s)	78	3,160	4,333	2,260	–	5,411	–
1974	23	0	23	13	1,020	4	(s)	78	1,861	2,963	2,035	–	4,961	–
1975	10	0	10	12	936	4	(s)	78	1,051	2,068	2,355	–	5,680	–
1976	17	0	17	14	958	2	(s)	77	700	1,738	2,285	–	5,504	–
1977	0	0	0	13	932	2	(s)	75	764	1,773	2,232	–	5,391	–
1978	0	0	0	12	915	2	(s)	72	608	1,597	2,383	–	5,829	–
1979	0	0	0	16	681	1	(s)	69	81	832	2,329	–	5,621	–
1980	71	0	71	14	647	1	(s)	40	37	725	2,461	–	5,984	–
1981	62	0	62	15	280	1	(s)	45	78	404	2,423	–	5,775	–
1982	81	(s)	81	16	450	1	(s)	56	110	616	2,615	–	6,280	–
1983	79	(s)	79	16	993	6	(s)	43	491	1,533	2,750	–	6,588	–
1984	64	(s)	65	12	1,018	2	(s)	160	671	1,851	4,159	–	9,680	–
1985	91	0	91	12	749	55	(s)	27	286	1,117	4,328	–	10,167	–
1986	35	(s)	35	12	987	(s)	(s)	49	1,000	2,037	4,532	–	10,425	–
1987	45	0	45	14	649	1	(s)	22	822	1,494	4,777	–	10,914	–
1988	20	0	20	15	547	4	(s)	22	222	795	4,985	–	11,270	–
1989	39	(s)	39	16	540	48	(s)	21	129	739	5,141	–	11,529	–
1990	45	0	45	13	501	8	(s)	71	221	801	5,269	–	R 11,513	–
1991	43	(s)	43	16	587	4	(s)	35	222	848	5,438	–	R 11,824	–
1992	33	(s)	33	16	551	4	(s)	29	269	854	5,438	–	R 11,610	–
1993	33	(s)	33	16	800	4	(s)	32	208	1,045	R 5,635	–	R 11,901	–
1994	30	(s)	30	15	908	6	(s)	66	170	1,150	8,325	–	17,361	–
	Trillion Btu													
1960	2.2	0.0	2.2	3.7	6.2	0.2	(s)	0.4	9.1	15.9	3.3	25.0	8.1	33.1
1965	1.7	0.0	1.7	6.0	5.8	0.1	(s)	0.4	25.4	31.8	4.6	44.1	11.1	55.2
1970	0.6	0.0	0.6	11.8	7.6	0.1	(s)	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	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	0.2	0.5	2.4	8.3	27.3	19.7	47.0
1982	2.0	(s)	2.0	16.2	2.6	(s)	(s)	0.3	0.7	3.6	8.9	30.7	21.4	52.1
1983	2.0	(s)	2.0	16.1	5.8	(s)	(s)	0.2	3.1	9.1	9.4	36.6	22.5	59.1
1984	1.6	(s)	1.6	11.8	5.9	(s)	(s)	0.8	4.2	11.0	14.2	38.6	33.0	71.6
1985	2.3	0.0	2.3	12.1	4.4	0.3	(s)	0.1	1.8	6.6	14.8	35.8	34.7	70.4
1986	0.9	(s)	0.9	12.1	5.8	(s)	(s)	0.3	6.3	12.3	15.5	40.7	35.6	76.3
1987	1.1	0.0	1.1	14.2	3.8	(s)	(s)	0.1	5.2	9.1	16.3	40.7	37.2	77.9
1988	0.5	0.0	0.5	15.2	3.2	(s)	(s)	0.1	1.4	4.7	17.0	37.4	38.5	75.9
1989	1.0	(s)	1.0	15.9	3.1	0.3	(s)	0.1	0.8	4.3	17.5	38.7	39.3	78.1
1990	1.1	0.0	1.1	13.6	2.9	(s)	(s)	0.4	1.4	4.7	18.0	37.4	39.3	76.7
1991	1.1	(s)	1.1	15.6	3.4	(s)	(s)	0.2	1.4	5.0	18.6	40.3	40.3	80.6
1992	0.8	(s)	0.8	16.2	3.2	(s)	(s)	0.2	1.7	5.1	18.6	40.7	39.6	80.3
1993	0.8	(s)	0.8	16.3	4.7	(s)	(s)	0.2	1.3	6.2	19.2	42.6	40.6	83.2
1994	0.8	(s)	0.8	14.9	5.3	(s)	(s)	0.3	1.1	6.7	28.4	50.8	59.2	110.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

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

[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, District of Columbia

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	463	(s)	11	211	61	1	8	0	949	0	1,241	0	0	0	1,237	–	3,076	–
1965	129	(s)	20	316	39	1	11	0	2,689	0	3,076	0	0	0	1,836	–	4,383	–
1970	414	(s)	17	377	15	2	3	0	3,296	0	3,710	0	0	0	2,627	–	6,367	–
1971	308	(s)	18	350	22	2	0	0	3,096	0	3,488	0	0	0	2,738	–	6,621	–
1972	310	1	19	226	13	3	0	0	2,273	0	2,534	0	0	0	2,762	–	6,647	–
1973	279	1	23	180	11	2	1	0	2,051	0	2,268	0	0	0	2,912	–	6,972	–
1974	168	1	23	160	56	2	1	0	1,214	0	1,456	0	0	0	2,616	–	6,378	–
1975	292	(s)	20	150	99	2	14	0	686	0	970	0	0	0	2,532	–	6,108	–
1976	217	(s)	20	136	105	2	16	0	463	0	742	0	0	0	2,790	–	6,721	–
1977	167	(s)	21	159	267	2	7	0	502	0	958	0	0	0	3,054	–	7,374	–
1978	83	(s)	24	145	253	3	8	0	399	0	831	0	0	0	3,087	–	7,553	–
1979	119	1	21	285	295	3	8	0	52	0	664	0	0	0	3,196	–	7,713	–
1980	25	(s)	16	192	262	3	7	0	54	0	534	0	0	0	3,356	–	8,161	–
1981	4	(s)	18	397	70	3	7	0	18	0	513	0	0	0	3,396	–	8,093	–
1982	0	0	19	187	1	4	6	0	40	0	258	0	0	0	3,399	–	8,164	–
1983	0	0	26	25	8	4	7	0	2	0	72	0	0	0	3,566	–	8,544	–
1984	0	0	20	26	3	5	7	0	3	0	64	0	0	0	2,458	–	5,721	–
1985	0	0	27	36	3	2	7	59	1	0	135	0	0	0	2,534	–	5,954	–
1986	0	0	31	79	2	2	6	64	0	0	184	0	0	0	2,606	–	5,994	–
1987	0	0	31	12	2	3	7	80	0	0	135	0	0	0	2,708	–	6,188	–
1988	0	0	33	3	2	3	7	62	0	0	109	0	0	0	2,809	–	6,351	–
1989	0	0	27	3	0	3	7	75	(s)	0	116	0	0	0	2,930	–	6,570	–
1990	0	0	30	2	0	2	7	89	1	0	132	R f NA	f NA	f NA	2,976	–	R 6,504	–
1991	0	0	22	2	(s)	2	7	58	1	0	93	R NA	NA	NA	3,053	–	R 6,638	–
1992	0	0	21	13	0	5	7	59	2	0	106	R NA	NA	NA	2,987	–	R 6,377	–
1993	0	0	28	15	0	3	7	36	0	0	90	R NA	NA	NA	2,976	–	R 6,286	–
1994	0	0	26	13	0	3	7	70	1	0	119	NA	NA	NA	267	–	557	–
			Trillion Btu															
1960	12.0	0.2	0.1	1.2	0.3	(s)	(s)	0.0	6.0	0.0	7.7	0.0	0.0	0.0	4.2	24.0	10.5	34.5
1965	3.3	0.3	0.1	1.8	0.2	(s)	0.1	0.0	16.9	0.0	19.2	0.0	0.0	0.0	6.3	29.0	15.0	44.0
1970	10.0	0.4	0.1	2.2	0.1	(s)	(s)	0.0	20.7	0.0	23.1	0.0	0.0	0.0	9.0	42.6	21.7	64.3
1971	7.3	0.5	0.1	2.0	0.1	(s)	0.0	0.0	19.5	0.0	21.8	0.0	0.0	0.0	9.3	38.9	22.6	61.5
1972	7.3	0.6	0.1	1.3	0.1	(s)	0.0	0.0	14.3	0.0	15.8	0.0	0.0	0.0	9.4	33.2	22.7	55.9
1973	6.6	0.6	0.2	1.0	0.1	(s)	(s)	0.0	12.9	0.0	14.2	0.0	0.0	0.0	9.9	31.3	23.8	55.1
1974	4.0	0.6	0.2	0.9	0.3	(s)	(s)	0.0	7.6	0.0	9.0	0.0	0.0	0.0	8.9	22.5	21.8	44.3
1975	7.0	0.4	0.1	0.9	0.6	(s)	0.1	0.0	4.3	0.0	6.0	0.0	0.0	0.0	8.6	22.0	20.8	42.8
1976	5.2	0.4	0.1	0.8	0.6	(s)	0.1	0.0	2.9	0.0	4.5	0.0	0.0	0.0	9.5	19.7	22.9	42.7
1977	4.0	0.4	0.1	0.9	1.5	(s)	(s)	0.0	3.2	0.0	5.8	0.0	0.0	0.0	10.4	20.6	25.2	45.7
1978	2.0	0.4	0.2	0.8	1.4	(s)	(s)	0.0	2.5	0.0	5.0	0.0	0.0	0.0	10.5	17.9	25.8	43.7
1979	2.9	0.6	0.1	1.7	1.7	(s)	(s)	0.0	0.3	0.0	3.9	0.0	0.0	0.0	10.9	18.3	26.3	44.6
1980	0.6	0.4	0.1	1.1	1.5	(s)	(s)	0.0	0.3	0.0	3.1	0.0	0.0	0.0	11.5	15.5	27.8	43.4
1981	0.1	0.3	0.1	2.3	0.4	(s)	(s)	0.0	0.1	0.0	3.0	0.0	0.0	0.0	11.6	15.0	27.6	42.6
1982	0.0	0.0	0.1	1.1	(s)	(s)	(s)	0.0	0.3	0.0	1.5	0.0	0.0	0.0	11.6	13.1	27.9	41.0
1983	0.0	0.0	0.2	0.1	(s)	(s)	(s)	0.0	(s)	0.0	0.4	0.0	0.0	0.0	12.2	12.6	29.2	41.8
1984	0.0	0.0	0.1	0.2	(s)	(s)	(s)	0.0	(s)	0.0	0.4	0.0	0.0	0.0	8.4	8.8	19.5	28.3
1985	0.0	0.0	0.2	0.2	(s)	(s)	(s)	0.3	(s)	0.0	0.8	0.0	0.0	0.0	8.6	9.4	20.3	29.7
1986	0.0	0.0	0.2	0.5	(s)	(s)	(s)	0.3	0.0	0.0	1.1	0.0	0.0	0.0	8.9	9.9	20.5	30.4
1987	0.0	0.0	0.2	0.1	(s)	(s)	(s)	0.4	0.0	0.0	0.8	0.0	0.0	0.0	9.2	10.0	21.1	31.1
1988	0.0	0.0	0.2	(s)	(s)	(s)	(s)	0.3	0.0	0.0	0.6	0.0	0.0	0.0	9.6	10.2	21.7	31.9
1989	0.0	0.0	0.2	(s)	0.0	(s)	(s)	0.4	(s)	0.0	0.6	0.0	0.0	0.0	10.0	10.6	22.4	33.1
1990	0.0	0.0	0.2	(s)	0.0	(s)	(s)	0.5	(s)	0.0	0.7	f 0.0	f 0.0	f 0.0	10.2	f 10.9	22.2	f 33.1
1991	0.0	0.0	0.1	(s)	(s)	(s)	(s)	0.3	(s)	0.0	0.5	0.0	0.0	0.0	10.4	10.9	22.6	33.6
1992	0.0	0.0	0.1	0.1	0.0	(s)	(s)	0.3	(s)	0.0	0.6	0.0	0.0	0.0	10.2	10.8	R 21.8	32.5
1993	0.0	0.0	0.2	0.1	0.0	(s)	(s)	0.2	0.0	0.0	0.5	0.0	0.0	0.0	10.2	10.7	21.4	32.1
1994	0.0	0.0	0.2	0.1	0.0	(s)	(s)	0.4	(s)	0.0	0.7	0.0	0.0	0.0	0.9	1.6	1.9	3.5

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, District of Columbia

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	8	(s)	0	305	0	(s)	112	4,872	28	5,317	0	33	–	82	–
1965	(s)	0	0	874	(s)	(s)	59	5,391	6	6,331	0	0	–	0	–
1970	1	(s)	0	492	(s)	(s)	53	5,623	13	6,182	0	0	–	0	–
1971	(s)	(s)	0	598	1	(s)	54	5,596	5	6,255	0	0	–	0	–
1972	(s)	(s)	0	535	3	(s)	58	5,551	146	6,293	0	0	–	0	–
1973	(s)	(s)	0	708	1	1	52	5,898	509	7,170	0	0	–	0	–
1974	(s)	(s)	0	845	(s)	1	50	5,621	789	7,306	0	0	–	0	–
1975	(s)	(s)	0	820	0	1	46	5,670	350	6,887	0	0	–	0	–
1976	(s)	(s)	0	1,070	0	1	51	5,423	462	7,007	0	5	–	12	–
1977	(s)	(s)	0	1,224	0	1	54	5,140	462	6,881	0	22	–	52	–
1978	0	(s)	0	880	(s)	1	58	5,052	417	6,408	0	39	–	96	–
1979	0	(s)	0	870	3	(s)	60	4,475	49	5,458	0	91	–	219	–
1980	0	0	0	587	329	(s)	54	3,841	59	4,870	0	102	–	248	–
1981	0	0	0	450	566	1	52	3,934	180	5,182	0	123	–	292	–
1982	0	(s)	0	817	336	1	47	3,962	1,321	6,484	0	117	–	281	–
1983	0	(s)	0	621	108	1	49	3,935	353	5,068	0	94	–	225	–
1984	0	(s)	0	656	39	1	53	4,058	186	4,993	0	92	–	215	–
1985	0	(s)	0	882	7	1	49	3,715	202	4,856	0	119	–	280	–
1986	0	(s)	0	862	501	(s)	48	3,764	80	5,255	0	119	–	274	–
1987	0	(s)	0	783	(s)	(s)	54	4,135	0	4,972	0	112	–	257	–
1988	0	(s)	0	858	5	1	52	4,280	10	5,207	0	120	–	271	–
1989	0	(s)	0	938	0	1	54	4,102	40	5,133	0	116	–	261	–
1990	0	(s)	0	812	5	1	55	3,860	3	4,736	[e]0	123	–	269	–
1991	0	(s)	0	740	0	(s)	49	3,929	0	4,718	0	124	–	269	–
1992	0	(s)	0	763	0	1	50	3,937	7	4,759	0	130	–	R277	–
1993	0	(s)	2	617	101	1	51	4,115	0	4,888	0	R129	–	R271	–
1994	0	(s)	2	712	0	1	53	3,964	0	4,732	0	131	–	274	–
			Trillion Btu												
1960	0.2	(s)	0.0	1.8	0.0	(s)	0.7	25.6	0.2	28.2	0.0	0.1	28.6	0.3	28.8
1965	(s)	0.0	0.0	5.1	(s)	(s)	0.4	28.3	(s)	33.8	0.0	0.0	33.8	0.0	33.8
1970	(s)	(s)	0.0	2.9	(s)	(s)	0.3	29.5	0.1	32.8	0.0	0.0	32.8	0.0	32.8
1971	(s)	(s)	0.0	3.5	(s)	(s)	0.3	29.4	(s)	33.2	0.0	0.0	33.3	0.0	33.3
1972	(s)	(s)	0.0	3.1	(s)	(s)	0.4	29.2	0.9	33.6	0.0	0.0	33.6	0.0	33.6
1973	(s)	(s)	0.0	4.1	(s)	(s)	0.3	31.0	3.2	38.6	0.0	0.0	38.7	0.0	38.7
1974	(s)	(s)	0.0	4.9	(s)	(s)	0.3	29.5	5.0	39.7	0.0	0.0	39.7	0.0	39.7
1975	(s)	(s)	0.0	4.8	0.0	(s)	0.3	29.8	2.2	37.0	0.0	0.0	37.1	0.0	37.1
1976	(s)	(s)	0.0	6.2	0.0	(s)	0.3	28.5	2.9	37.9	0.0	(s)	38.0	(s)	38.0
1977	(s)	(s)	0.0	7.1	0.0	(s)	0.3	27.0	2.9	37.4	0.0	0.1	37.5	0.2	37.6
1978	0.0	(s)	0.0	5.1	(s)	(s)	0.4	26.5	2.6	34.6	0.0	0.1	34.8	0.3	35.1
1979	0.0	(s)	0.0	5.1	(s)	(s)	0.4	23.5	0.3	29.3	0.0	0.3	29.6	0.7	30.3
1980	0.0	0.0	0.0	3.4	1.9	(s)	0.3	20.2	0.4	26.2	0.0	0.3	26.5	0.8	27.4
1981	0.0	0.0	0.0	2.6	3.2	(s)	0.3	20.7	1.1	27.9	0.0	0.4	28.4	1.0	29.4
1982	0.0	0.4	0.0	4.8	1.9	(s)	0.3	20.8	8.3	36.1	0.0	0.4	36.8	1.0	37.8
1983	0.0	0.4	0.0	3.6	0.6	(s)	0.3	20.7	2.2	27.4	0.0	0.3	28.1	0.8	28.9
1984	0.0	0.4	0.0	3.8	0.2	(s)	0.3	21.3	1.2	26.9	0.0	0.3	27.6	0.7	28.3
1985	0.0	0.4	0.0	5.1	(s)	(s)	0.3	19.5	1.3	26.3	0.0	0.4	27.1	1.0	28.0
1986	0.0	0.4	0.0	5.0	2.8	(s)	0.3	19.8	0.5	28.4	0.0	0.4	29.2	0.9	30.1
1987	0.0	0.3	0.0	4.6	(s)	(s)	0.3	21.7	0.0	26.6	0.0	0.4	27.3	0.9	28.1
1988	0.0	0.2	0.0	5.0	(s)	(s)	0.3	22.5	0.1	27.9	0.0	0.4	28.5	0.9	29.5
1989	0.0	0.3	0.0	5.5	0.0	(s)	0.3	21.5	0.2	27.6	0.0	0.4	28.2	0.9	29.1
1990	0.0	0.3	0.0	4.7	(s)	(s)	0.3	20.3	(s)	25.4	[e]0.0	0.4	[e]26.1	0.9	[e]27.0
1991	0.0	0.3	0.0	4.3	0.0	(s)	0.3	20.6	0.0	25.2	0.0	0.4	25.9	0.9	26.9
1992	0.0	0.3	0.0	4.4	0.0	(s)	0.3	20.7	(s)	25.5	0.0	0.4	26.2	0.9	27.1
1993	0.0	0.3	(s)	3.6	0.6	(s)	0.3	21.6	0.0	26.1	0.0	0.4	26.8	0.9	R27.8
1994	0.0	0.2	(s)	4.1	0.0	(s)	0.3	20.8	0.0	25.3	0.0	0.4	26.0	0.9	26.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, District of Columbia

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	446	0	446	0	9	4	0	12	0	3	0	0	0	–
1965	293	0	293	0	10	4	0	14	0	3	0	0	0	–
1970	673	0	673	0	2,755	1,135	0	3,889	0	1	0	0	0	–
1971	286	0	286	0	3,045	614	0	3,659	0	1	0	0	0	–
1972	176	0	176	0	4,666	272	0	4,938	0	1	0	0	0	–
1973	260	0	260	0	5,347	243	0	5,591	0	1	0	0	0	–
1974	299	0	299	0	3,557	303	0	3,859	0	1	0	0	0	–
1975	111	0	111	0	2,088	90	0	2,178	0	1	0	0	0	–
1976	(s)	0	(s)	0	2,625	65	0	2,690	0	1	0	0	0	–
1977	0	0	0	0	3,630	125	0	3,755	0	0	0	0	0	–
1978	0	0	0	0	3,635	235	0	3,869	0	0	0	0	0	–
1979	0	0	0	0	2,236	93	0	2,329	0	0	0	0	0	–
1980	0	0	0	0	1,462	109	0	1,572	0	0	0	0	0	–
1981	0	0	0	0	797	66	0	863	0	0	0	0	0	–
1982	0	0	0	0	215	37	0	252	0	0	0	0	0	–
1983	0	0	0	0	464	110	0	574	0	0	0	0	0	–
1984	0	0	0	0	607	130	0	737	0	0	0	0	0	–
1985	0	0	0	0	250	66	0	316	0	0	0	0	0	–
1986	0	0	0	0	405	69	0	474	0	0	0	0	0	–
1987	0	0	0	0	533	84	0	616	0	0	0	0	0	–
1988	0	0	0	0	935	165	0	1,100	0	0	0	0	0	–
1989	0	0	0	0	1,276	214	0	1,490	0	0	0	0	0	–
1990	0	0	0	0	798	72	0	871	0	0	0	0	0	–
1991	0	0	0	0	442	54	0	497	0	0	0	0	0	–
1992	0	0	0	0	194	56	0	250	0	0	0	0	0	–
1993	0	0	0	0	442	35	0	477	0	0	0	0	0	–
1994	0	0	0	0	566	98	0	664	0	0	0	0	0	–
					Trillion Btu									
1960	12.2	0.0	12.2	0.0	0.1	(s)	0.0	0.1	0.0	(s)	0.0	0.0	0.0	12.4
1965	7.9	0.0	7.9	0.0	0.1	(s)	0.0	0.1	0.0	(s)	0.0	0.0	0.0	8.0
1970	17.4	0.0	17.4	0.0	17.3	6.6	0.0	23.9	0.0	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	0.0	0.0	0.0	16.5
1976	(s)	0.0	(s)	0.0	16.5	0.4	0.0	16.9	0.0	(s)	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	9.3
1990	0.0	0.0	0.0	0.0	5.0	0.4	0.0	5.4	0.0	0.0	0.0	0.0	0.0	5.4
1991	0.0	0.0	0.0	0.0	2.8	0.3	0.0	3.1	0.0	0.0	0.0	0.0	0.0	3.1
1992	0.0	0.0	0.0	0.0	1.2	0.3	0.0	1.5	0.0	0.0	0.0	0.0	0.0	1.5
1993	0.0	0.0	0.0	0.0	2.8	0.2	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0
1994	0.0	0.0	0.0	0.0	3.6	0.6	0.0	4.1	0.0	0.0	0.0	0.0	0.0	4.1

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Florida

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	356	109,435	0	278	0	0	-2,134	–
1965	2,323	185	3,506	4,273	12,279	17,525	4,449	5,663	1,014	53,136	43,344	1,349	146,537	0	298	0	0	606	–
1970	5,131	337	4,076	3,138	15,639	23,840	3,657	7,828	1,089	76,254	53,642	1,380	190,543	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	1,414	207,655	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	1,579	235,100	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	1,715	253,419	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	1,794	238,878	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	1,651	244,296	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	1,873	261,277	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	2,184	266,857	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	2,446	280,337	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	3,248	288,670	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	3,036	293,318	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	3,965	289,962	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	3,106	255,391	19,319	261	(s)	0	29,004	–
1983	13,080	306	5,724	882	27,963	30,140	997	8,936	1,290	118,342	58,722	2,766	255,762	14,805	220	(s)	0	46,494	–
1984	15,478	303	6,952	704	29,235	24,240	503	8,715	1,376	121,475	42,438	3,257	238,894	24,078	213	(s)	0	52,302	–
1985	19,305	290	6,666	841	30,444	23,101	2,530	9,932	1,282	125,316	37,777	3,100	240,990	23,461	244	0	0	73,679	–
1986	18,699	289	8,240	1,023	31,822	25,022	1,440	10,568	1,254	131,094	57,612	R3,462	271,538	22,036	212	0	0	54,546	–
1987	23,644	300	7,583	778	32,912	26,502	1,138	8,794	1,418	137,457	45,688	R3,388	R265,658	18,773	217	0	0	64,257	–
1988	24,595	293	7,931	882	34,425	31,960	1,153	8,020	1,367	141,915	53,941	R3,335	R284,930	26,198	209	0	0	49,779	–
1989	25,447	324	6,481	976	35,349	33,566	852	8,017	1,402	142,152	53,498	3,268	285,562	20,916	234	0	0	72,110	–
1990	25,233	328	6,804	808	34,388	31,958	329	7,744	1,443	141,533	54,500	3,677	283,184	21,780	R INA	I NA	I NA	R83,741	–
1991	26,004	344	7,310	712	31,382	25,048	237	7,959	1,291	141,314	59,727	R3,068	R278,048	20,508	R NA	NA	NA	R70,279	–
1992	26,368	353	6,933	593	34,689	24,436	313	7,992	1,316	143,208	59,829	R3,230	R282,537	25,116	R NA	NA	NA	R57,504	–
1993	26,430	R336	8,342	527	23,595	26,644	284	8,070	1,340	150,237	70,106	R3,254	R292,399	25,887	R NA	NA	NA	R60,648	–
1994	26,082	368	7,304	526	33,724	28,640	209	7,430	1,401	152,393	67,062	3,265	301,953	26,682	NA	NA	NA	77,908	–
			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	2.1	612.8	0.0	3.0	0.0	0.0	-7.3	778.6
1965	55.2	191.7	23.3	21.6	71.5	97.2	25.2	22.7	6.2	279.1	272.5	7.4	826.6	0.0	3.1	0.0	0.0	2.1	1,078.7
1970	116.7	350.6	27.0	15.8	91.1	133.2	20.7	29.6	6.6	400.6	337.2	7.5	1,069.4	0.0	3.1	0.0	0.0	-5.9	1,534.0
1971	117.2	350.5	32.6	13.1	95.9	147.0	19.9	28.4	7.3	426.4	393.2	7.7	1,171.6	0.0	2.7	0.0	0.0	-10.5	1,631.4
1972	123.6	311.2	33.9	10.6	113.0	160.7	15.0	29.6	7.8	473.3	479.7	8.6	1,332.4	0.7	2.5	0.0	0.0	-11.6	1,758.8
1973	152.6	324.9	39.0	10.3	132.9	156.4	11.9	31.4	9.0	522.4	513.4	9.4	1,436.1	51.0	2.4	0.0	0.0	-16.3	1,950.8
1974	146.6	302.0	39.0	10.7	131.0	132.3	6.4	27.6	8.6	515.5	470.6	9.8	1,351.6	87.9	2.6	0.0	0.0	-2.3	1,888.5
1975	133.5	292.1	24.3	9.7	136.2	135.7	5.0	27.8	7.2	528.4	498.7	9.1	1,382.0	92.2	2.4	0.0	0.0	-2.9	1,899.3
1976	141.8	300.9	22.9	8.5	142.8	140.7	9.0	30.1	8.0	546.1	563.9	10.4	1,482.3	95.5	2.7	0.0	0.0	-6.1	2,017.1
1977	159.9	315.9	29.2	7.4	169.5	153.1	7.1	32.7	8.5	566.2	522.4	12.2	1,508.2	189.1	2.5	0.0	0.0	-2.8	2,172.9
1978	175.5	333.3	33.1	7.6	177.6	157.2	6.8	30.0	9.2	595.1	557.6	13.7	1,588.0	173.0	2.4	0.0	0.0	6.6	2,278.8
1979	202.3	357.0	32.2	6.4	169.6	175.1	6.8	31.9	9.6	584.2	605.4	18.1	1,639.4	167.4	2.5	0.0	0.0	4.8	2,373.4
1980	225.5	329.6	29.8	6.8	171.4	201.6	5.4	39.4	8.5	574.0	608.3	16.7	1,661.9	182.6	2.2	0.0	0.0	42.6	2,444.3
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	2,428.9
1982	240.2	339.1	33.2	4.4	133.6	189.3	5.8	32.1	7.5	599.4	405.4	16.9	1,427.6	213.9	2.7	(s)	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	(s)	0.0	158.6	2,388.7
1984	378.7	318.2	46.1	3.6	170.3	135.6	2.9	31.4	8.3	638.1	266.8	17.5	1,320.5	261.1	2.2	(s)	0.0	178.5	2,459.1
1985	472.4	305.1	44.2	4.2	177.3	129.2	14.3	35.8	7.8	658.3	237.5	16.8	1,325.5	253.7	2.5	0.0	0.0	251.4	2,610.5
1986	459.4	298.9	54.7	5.2	185.4	140.1	8.2	38.5	7.6	688.6	362.2	18.9	1,509.3	238.0	2.2	0.0	0.0	186.1	2,693.9
1987	586.6	313.6	50.3	3.9	191.7	148.4	6.5	32.2	8.6	722.1	287.2	18.2	1,469.1	202.3	2.3	0.0	0.0	219.2	2,793.1
1988	611.5	305.8	52.6	4.5	200.5	179.3	6.5	29.3	8.3	745.5	339.1	18.0	1,583.7	281.4	2.2	0.0	0.0	169.8	2,954.4
1989	630.2	337.2	43.0	4.9	205.9	188.5	4.8	29.5	8.5	746.7	336.3	17.6	1,585.9	224.3	2.4	0.0	0.0	246.0	3,026.1
1990	624.3	342.0	45.1	4.1	200.3	179.6	1.9	28.1	8.8	743.5	342.6	19.9	1,573.8	232.6	I 1.8	I 72.8	I 22.5	R285.7	R I 3,155.4
1991	642.8	361.0	48.5	3.6	182.8	140.8	1.3	28.8	7.8	742.3	375.5	R16.6	R1,548.1	220.3	2.7	73.1	23.3	R239.8	R3,110.9
1992	652.7	370.3	46.0	3.0	202.1	137.5	1.8	29.0	8.0	752.3	376.1	R17.4	R1,573.1	268.2	2.4	76.9	24.4	R196.2	R3,163.9
1993	652.2	R353.4	55.4	2.7	137.4	150.3	1.6	29.1	8.1	789.2	440.8	R17.5	R1,632.1	276.5	2.2	80.2	25.4	R206.9	R3,228.6
1994	641.7	392.5	48.5	2.7	196.4	162.1	1.2	27.0	8.5	800.5	421.6	17.6	1,686.1	284.9	2.8	82.1	26.3	265.8	3,382.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Florida

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	0	0	0	6	541	3,150	3,458	7,149	0	0	7,258	--	18,052	--
1965	0	0	0	8	976	3,001	4,095	8,073	0	0	12,283	--	29,327	--
1970	0	0	0	15	1,010	2,414	5,698	9,121	0	0	24,610	--	59,638	--
1971	0	0	0	13	1,013	2,370	5,503	8,886	0	0	27,225	--	65,821	--
1972	0	0	0	13	941	1,722	5,654	8,316	0	0	30,444	--	73,279	--
1973	0	0	0	16	1,129	1,446	6,022	8,596	0	0	35,238	--	84,361	--
1974	0	0	0	15	1,002	909	5,192	7,102	0	0	34,345	--	83,742	--
1975	0	0	0	15	1,097	724	5,157	6,977	0	0	34,756	--	83,836	--
1976	0	0	0	17	1,200	1,195	5,566	7,961	0	0	36,022	--	86,770	--
1977	0	0	0	18	1,254	1,047	6,008	8,309	0	0	38,955	--	94,064	--
1978	0	0	0	22	1,273	978	5,560	7,811	0	0	41,847	--	102,379	--
1979	0	0	0	18	1,069	974	4,411	6,455	0	0	42,218	--	101,886	--
1980	4	0	4	15	1,215	774	4,434	6,422	0	0	44,746	--	108,807	--
1981	(s)	0	(s)	16	983	574	4,721	6,278	0	0	46,139	--	109,961	--
1982	1	0	1	14	724	227	3,852	4,802	0	0	45,126	--	108,387	--
1983	5	0	5	15	494	309	4,579	5,383	0	0	47,280	--	113,272	--
1984	24	0	24	15	507	246	5,179	5,932	0	0	50,315	--	117,113	--
1985	38	0	38	14	568	864	5,994	7,426	0	0	54,118	--	127,146	--
1986	33	0	33	14	463	556	6,418	7,436	0	0	57,672	--	132,662	--
1987	17	3	20	15	720	630	5,481	6,831	0	0	60,406	--	138,023	--
1988	1	1	1	15	522	654	4,870	6,046	0	0	63,972	--	144,626	--
1989	(s)	(s)	(s)	13	363	381	4,843	5,587	0	0	68,184	--	152,911	--
1990	1	(s)	2	13	234	154	4,989	5,377	[e] 428	[e] 6,609	71,115	--	R 155,398	--
1991	0	(s)	(s)	13	237	195	5,162	5,594	451	6,830	72,814	--	R 158,312	--
1992	5	1	6	14	309	274	5,189	5,772	474	7,155	73,189	--	R 156,243	--
1993	5	(s)	6	R 14	319	218	5,053	5,591	513	7,432	76,827	--	R 162,254	--
1994	7	(s)	7	14	249	125	4,635	5,008	503	7,722	80,595	--	168,078	--
	Trillion Btu													
1960	0.0	0.0	0.0	6.6	3.2	17.9	13.9	34.9	0.0	0.0	24.8	66.2	61.6	127.8
1965	0.0	0.0	0.0	8.4	5.7	17.0	16.4	39.1	0.0	0.0	41.9	89.5	100.1	189.5
1970	0.0	0.0	0.0	15.3	5.9	13.7	21.5	41.1	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	152.7	196.7	371.2	568.0
1981	(s)	0.0	(s)	16.1	5.7	3.3	17.2	26.2	0.0	0.0	157.4	201.7	375.2	576.9
1982	(s)	0.0	(s)	14.7	4.2	1.3	13.9	19.4	0.0	0.0	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	0.0	0.0	161.3	199.5	386.5	586.0
1984	0.6	0.0	0.6	16.4	3.0	1.4	18.6	23.0	0.0	0.0	171.7	211.6	399.6	611.2
1985	1.0	0.0	1.0	15.0	3.3	4.9	21.6	29.8	0.0	0.0	184.7	230.4	433.8	664.2
1986	0.8	0.0	0.8	14.9	2.7	3.2	23.4	29.2	0.0	0.0	196.8	241.7	452.6	694.4
1987	0.4	0.1	0.5	15.9	4.2	3.6	20.1	27.8	0.0	0.0	206.1	250.4	470.9	721.3
1988	(s)	(s)	(s)	16.1	3.0	3.7	17.8	24.5	0.0	0.0	218.3	258.9	493.5	752.4
1989	(s)	(s)	(s)	14.2	2.1	2.2	17.8	22.1	0.0	0.0	232.6	269.0	521.7	790.7
1990	(s)	(s)	(s)	14.1	1.4	0.9	18.1	20.3	[e] 8.6	[e] 22.5	242.6	R [e] 308.2	R 530.2	R [e] 838.4
1991	0.0	(s)	(s)	14.2	1.4	1.1	18.7	21.1	9.0	23.3	248.4	R 316.1	R 540.2	R 856.2
1992	0.1	(s)	0.1	15.8	1.8	1.6	18.8	22.2	9.5	24.4	249.7	R 321.7	R 533.1	R 854.8
1993	0.1	(s)	0.1	R 15.3	1.9	1.2	18.2	21.3	10.3	25.4	262.1	R 334.5	R 553.6	R 888.1
1994	0.2	(s)	0.2	15.6	1.5	0.7	16.8	19.0	10.1	26.3	275.0	346.1	573.5	919.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
--=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Florida

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	0	0	0	13	1,981	166	723	712	1,608	5,190	9,369	–	22,369	–
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	914	1,327	1,366	6,052	36,994	–	86,106	–
1985	71	0	71	31	3,657	1,047	1,058	1,368	2,170	9,299	41,292	–	97,011	–
1986	62	0	62	36	3,419	848	1,133	1,427	2,798	9,625	43,990	–	101,190	–
1987	31	2	33	37	3,860	467	967	1,367	2,027	8,688	46,579	–	106,430	–
1988	1	(s)	1	38	3,312	418	859	1,304	2,105	7,998	49,881	–	112,769	–
1989	(s)	(s)	(s)	35	2,778	356	855	1,219	1,985	7,193	53,212	–	119,335	–
1990	3	(s)	3	36	3,243	125	880	1,404	2,398	8,050	55,776	–	R 121,880	–
1991	0	(s)	(s)	39	3,000	29	911	927	2,146	7,014	56,999	–	R 123,928	–
1992	10	1	10	42	3,002	30	916	818	1,804	6,570	57,285	–	R 122,291	–
1993	10	(s)	10	41	3,077	54	892	96	143	4,261	59,585	–	R 125,840	–
1994	13	(s)	13	40	2,190	76	818	97	136	3,318	62,398	–	130,128	–
	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	53.1	47.4	100.5
1965	0.0	0.0	0.0	13.2	11.5	0.9	2.9	3.7	10.1	29.2	32.0	74.4	76.3	150.7
1970	0.0	0.0	0.0	28.0	11.9	0.8	3.8	7.3	9.2	33.0	55.4	116.4	134.3	250.7
1971	0.0	0.0	0.0	26.5	12.0	0.7	3.7	7.7	8.9	33.0	62.1	121.6	150.1	271.7
1972	0.0	0.0	0.0	24.9	11.1	0.5	3.8	5.8	11.0	32.2	69.5	126.6	167.4	294.0
1973	0.0	0.0	0.0	25.9	13.3	0.5	4.0	5.1	12.1	35.0	77.2	138.0	184.7	322.8
1974	0.0	0.0	0.0	24.0	11.8	0.3	3.4	4.6	10.6	30.7	82.0	136.7	199.8	336.5
1975	0.0	0.0	0.0	34.2	13.0	0.2	3.4	5.5	9.8	31.8	78.1	144.2	188.5	332.7
1976	0.0	0.0	0.0	42.1	14.2	0.4	3.6	5.7	13.1	37.0	80.9	160.0	194.8	354.8
1977	0.0	0.0	0.0	44.0	14.8	0.3	3.9	6.0	16.1	41.1	84.4	169.5	203.8	373.4
1978	0.0	0.0	0.0	37.9	15.0	0.3	3.6	6.3	13.9	39.2	87.3	164.3	213.6	377.9
1979	0.0	0.0	0.0	38.6	12.6	0.3	2.9	6.9	16.1	38.8	90.0	167.4	217.3	384.7
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	384.1
1981	(s)	0.0	(s)	37.3	15.0	0.4	3.0	4.8	5.1	28.3	105.5	171.2	251.5	422.7
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	426.4
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	460.7
1984	1.1	0.0	1.1	33.5	12.9	1.3	3.3	7.0	8.6	33.1	126.2	194.0	293.8	487.7
1985	1.8	0.0	1.8	34.0	21.3	5.9	3.8	7.2	13.6	51.9	140.9	228.6	331.0	559.6
1986	1.5	0.0	1.5	38.5	19.9	4.8	4.1	7.5	17.6	53.9	150.1	244.1	345.3	589.4
1987	0.8	0.1	0.8	41.0	22.5	2.6	3.5	7.2	12.7	48.6	158.9	249.4	363.1	612.5
1988	(s)	(s)	(s)	40.9	19.3	2.4	3.1	6.8	13.2	44.9	170.2	256.0	384.8	640.7
1989	(s)	(s)	(s)	38.1	16.2	2.0	3.1	6.4	12.5	40.2	181.6	259.9	407.2	667.1
1990	0.1	(s)	0.1	39.5	18.9	0.7	3.2	7.4	15.1	45.2	190.3	275.1	R 415.9	R 690.9
1991	0.0	(s)	(s)	43.1	17.5	0.2	3.3	4.9	13.5	39.3	194.5	276.9	R 422.8	R 699.7
1992	0.2	(s)	0.2	45.9	17.5	0.2	3.3	4.3	11.3	36.6	195.5	278.2	R 417.3	R 695.5
1993	0.3	(s)	0.3	R 45.2	17.9	0.3	3.2	0.5	0.9	22.8	203.3	R 271.6	R 429.4	701.0
1994	0.3	(s)	0.3	44.9	12.8	0.4	3.0	0.5	0.9	17.5	212.9	275.6	444.0	719.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Florida

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	0	35	3,304	2,934	638	785	237	182	10,883	356	19,320	0	0	0	3,963	–	9,858	–
1965	0	74	3,506	4,451	1,281	711	291	180	9,636	1,349	21,404	0	0	0	6,449	–	15,397	–
1970	0	92	4,076	4,494	1,109	928	420	202	8,148	1,380	20,757	0	0	0	9,365	–	22,695	–
1971	0	98	4,918	4,590	1,016	851	522	121	7,942	1,414	21,373	0	0	0	9,844	–	23,800	–
1972	0	88	5,114	4,689	837	1,008	559	112	8,637	1,579	22,535	0	0	0	10,622	–	25,568	–
1973	0	99	5,875	5,681	577	1,105	756	103	9,430	1,715	25,242	0	0	0	11,640	–	27,866	–
1974	0	94	5,874	4,950	175	1,103	724	98	8,142	1,794	22,861	0	0	0	10,651	–	25,971	–
1975	21	90	3,659	4,724	115	1,242	567	92	7,369	1,651	19,421	0	0	0	13,294	–	32,067	–
1976	21	105	3,444	4,770	318	1,383	630	92	10,139	1,873	22,648	0	0	0	14,252	–	34,330	–
1977	135	105	4,393	5,517	153	1,622	604	88	12,134	2,184	26,694	0	0	0	15,660	–	37,815	–
1978	260	102	4,995	5,687	170	1,428	648	81	10,560	2,446	26,015	0	0	0	17,273	–	42,258	–
1979	374	119	4,859	5,053	163	3,339	678	69	12,317	3,248	29,726	0	0	0	18,019	–	43,486	–
1980	748	102	4,487	7,077	150	5,341	604	86	13,673	3,036	34,453	0	0	0	18,598	–	45,224	–
1981	566	112	5,014	4,804	110	4,056	579	0	7,907	3,965	26,435	0	0	0	16,105	–	38,382	–
1982	441	95	5,007	2,946	578	3,998	528	294	4,442	3,106	20,901	0	0	0	14,654	–	35,197	–
1983	630	83	5,724	4,536	41	3,125	553	284	4,371	2,766	21,400	0	0	0	15,019	–	35,983	–
1984	829	79	6,952	4,652	33	2,083	590	415	5,967	3,257	23,948	0	0	0	16,215	–	37,742	–
1985	911	76	6,666	4,639	620	2,489	550	1,022	6,283	3,100	25,369	0	0	0	15,742	–	36,983	–
1986	782	65	8,240	5,115	36	2,581	538	1,024	3,825	R3,462	R24,821	0	0	0	14,976	–	34,448	–
1987	993	68	7,583	5,054	41	2,151	608	996	1,785	R3,388	R21,606	0	0	0	15,443	–	35,287	–
1988	1,065	83	7,931	4,193	81	2,073	586	942	3,997	R3,335	R23,138	0	0	0	16,356	–	36,976	–
1989	1,154	84	6,481	3,701	115	2,107	601	1,032	2,882	3,268	R20,186	0	0	0	17,040	–	38,215	–
1990	1,207	87	6,804	3,491	50	1,660	619	1,063	3,265	3,677	R20,628	R[f]NA	[f]NA	[f]NA	16,605	–	R36,284	–
1991	1,133	87	7,310	3,083	13	1,707	553	965	2,613	R3,068	R19,312	RNA	NA	NA	16,482	–	R35,836	–
1992	1,335	90	6,933	3,619	9	1,720	564	979	4,127	R3,230	R21,181	RNA	NA	NA	16,497	–	R35,218	–
1993	1,307	102	8,342	4,162	13	1,962	575	969	5,257	R3,254	R24,534	RNA	NA	NA	16,298	–	R34,420	–
1994	1,303	128	7,304	3,776	8	1,698	601	1,031	4,647	3,265	22,329	NA	NA	NA	16,513	–	34,437	–
			Trillion Btu															
1960	0.0	36.4	21.9	17.1	3.6	3.2	1.4	1.0	68.4	2.1	118.7	0.0	0.0	0.0	13.5	168.6	33.6	202.2
1965	0.0	77.2	23.3	25.9	7.3	2.9	1.8	0.9	60.6	7.4	130.0	0.0	0.0	0.0	22.0	229.2	52.5	281.7
1970	0.0	96.3	27.0	26.2	6.3	3.5	2.5	1.1	51.2	7.5	125.4	0.0	0.0	0.0	32.0	253.6	77.4	331.0
1971	0.0	102.3	32.6	26.7	5.8	3.2	3.2	0.6	49.9	7.7	129.8	0.0	0.0	0.0	33.6	265.6	81.2	346.8
1972	0.0	94.2	33.9	27.3	4.7	3.8	3.4	0.6	54.3	8.6	136.7	0.0	0.0	0.0	36.2	267.2	87.2	354.4
1973	0.0	105.2	39.0	33.1	3.3	4.1	4.6	0.5	59.3	9.4	153.3	0.0	0.0	0.0	39.7	298.2	95.1	393.3
1974	0.0	100.5	39.0	28.8	1.0	4.1	4.4	0.5	51.2	9.8	138.9	0.0	0.0	0.0	36.3	275.7	88.6	364.3
1975	0.5	96.6	24.3	27.5	0.7	4.6	3.4	0.5	46.3	9.1	116.4	0.0	0.0	0.0	45.4	258.9	109.4	368.3
1976	0.5	111.6	22.9	27.8	1.8	5.1	3.8	0.5	63.7	10.4	136.0	0.0	0.0	0.0	48.6	296.7	117.1	413.8
1977	3.2	111.5	29.2	32.1	0.9	6.0	3.7	0.5	76.3	12.2	160.7	0.0	0.0	0.0	53.4	328.8	129.0	457.8
1978	6.1	109.3	33.1	33.1	1.0	5.2	3.9	0.4	66.4	13.7	156.9	0.0	0.0	0.0	58.9	331.2	144.2	475.4
1979	8.5	125.1	32.2	29.4	0.9	12.3	4.1	0.4	77.4	18.1	174.9	0.0	0.0	0.0	61.5	370.0	148.4	518.4
1980	17.1	108.6	29.8	41.2	0.9	19.6	3.7	0.5	86.0	16.7	198.2	0.0	0.0	0.0	63.5	387.4	154.3	541.7
1981	13.5	123.8	33.3	28.0	0.6	14.8	3.5	0.0	49.7	21.6	151.5	0.0	0.0	0.0	54.9	343.8	131.0	474.7
1982	10.8	102.6	33.2	17.2	3.3	14.5	3.2	1.5	27.9	16.9	117.7	0.0	0.0	0.0	50.0	281.1	120.1	401.2
1983	15.6	90.8	38.0	26.4	0.2	11.3	3.4	1.5	27.5	15.2	123.5	0.0	0.0	0.0	51.2	281.1	122.8	403.8
1984	20.4	86.8	46.1	27.1	0.2	7.5	3.6	2.2	37.5	17.5	141.6	0.0	0.0	0.0	55.3	304.2	128.8	432.9
1985	22.6	84.2	44.2	27.0	3.5	9.0	3.3	5.4	39.5	16.8	148.7	0.0	0.0	0.0	53.7	309.3	126.2	435.4
1986	19.5	70.3	54.7	29.8	0.2	9.4	3.3	5.4	24.0	18.9	R145.6	0.0	0.0	0.0	51.1	286.6	117.5	404.1
1987	24.9	74.6	50.3	29.4	0.2	7.9	3.7	5.2	11.2	18.2	126.2	0.0	0.0	0.0	52.7	278.4	120.4	398.8
1988	26.8	89.4	52.6	24.4	0.5	7.6	3.6	4.9	25.1	18.0	136.8	0.0	0.0	0.0	55.8	308.7	126.2	434.9
1989	28.6	91.7	43.0	21.6	0.7	7.8	3.6	5.4	18.1	17.6	117.8	0.0	0.0	0.0	58.1	296.2	130.4	426.6
1990	30.2	94.2	45.1	20.3	0.3	6.0	3.8	5.6	20.5	19.9	121.6	[f]0.0	[f]64.1	[f]0.0	56.7	R[f]366.6	123.8	R[f]490.4
1991	28.5	95.7	48.5	18.0	0.1	6.2	3.4	5.1	16.4	R16.6	R114.2	0.0	63.9	0.0	56.2	R358.5	R122.3	R480.8
1992	33.4	99.0	46.0	21.1	0.1	6.2	3.4	5.1	25.9	R17.4	R125.3	0.0	67.1	0.0	56.3	R381.1	R120.2	R501.2
1993	32.5	R112.1	55.4	24.2	0.1	7.1	3.5	5.1	33.0	R17.5	R145.9	0.0	69.7	0.0	55.6	R415.9	117.4	R533.3
1994	32.5	143.5	48.5	22.0	(s)	6.2	3.6	5.4	29.2	17.6	132.6	0.0	71.8	0.0	56.3	436.7	117.5	554.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Florida

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	0	1	4,517	3,858	9,482	82	674	42,281	3,770	64,663	0	0	–	0	–
1965	0	3	4,273	4,482	17,525	134	723	52,244	4,751	84,132	0	0	–	0	–
1970	0	4	3,138	7,493	23,840	197	669	74,670	2,244	112,252	0	0	–	0	–
1971	0	4	2,597	7,472	26,289	209	681	79,589	1,675	118,513	0	0	–	0	–
1972	0	4	2,093	8,197	28,620	211	730	88,892	1,770	130,513	0	0	–	0	–
1973	0	4	2,031	10,786	27,847	200	729	98,363	2,664	142,622	0	0	–	0	–
1974	0	3	2,117	10,716	23,616	188	698	97,162	2,345	136,843	0	0	–	0	–
1975	(s)	2	1,921	10,160	24,199	169	622	99,452	2,211	138,744	0	0	–	0	–
1976	(s)	2	1,685	10,682	25,102	178	691	102,792	3,024	144,155	0	0	–	0	–
1977	(s)	1	1,475	14,399	27,301	191	804	106,552	3,562	154,284	0	0	–	0	–
1978	0	1	1,510	15,900	28,011	213	864	112,019	3,770	162,287	0	0	–	0	–
1979	0	4	1,271	15,842	31,217	149	904	109,847	11,330	170,560	0	0	–	0	–
1980	0	4	1,339	16,014	35,911	161	805	107,853	11,613	173,695	0	0	–	0	–
1981	0	4	1,138	19,304	35,598	314	772	110,987	6,828	174,941	0	0	–	0	–
1982	0	4	881	17,751	33,730	357	704	113,070	5,704	172,197	0	0	–	0	–
1983	0	4	882	19,761	30,140	424	737	116,774	4,056	172,774	0	0	–	0	–
1984	0	4	704	20,921	24,240	539	786	119,732	4,079	171,002	0	7	–	16	–
1985	0	4	841	20,335	23,101	390	733	122,926	6,892	175,218	0	17	–	39	–
1986	0	4	1,023	21,800	25,022	437	716	128,643	7,549	185,191	0	36	–	84	–
1987	0	4	778	22,232	26,502	195	810	135,094	9,228	194,839	0	40	–	92	–
1988	0	3	882	25,361	31,960	218	781	139,669	8,216	207,087	0	33	–	74	–
1989	0	4	976	26,073	33,566	213	801	139,901	8,099	209,628	0	38	–	86	–
1990	0	3	808	25,551	31,958	215	824	139,066	10,085	208,508	[e]3,014	40	–	88	–
1991	0	3	712	23,253	25,048	179	737	139,422	8,347	197,698	2,390	41	–	88	–
1992	0	4	593	26,334	24,436	167	752	141,411	10,382	204,074	2,904	39	–	83	–
1993	0	4	527	14,616	26,644	163	766	149,172	11,774	203,662	3,241	R37	–	79	–
1994	0	5	526	26,196	28,640	279	800	151,264	10,224	217,929	3,595	39	–	81	–
			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	0.0	348.0	0.0	348.0
1965	0.0	2.6	21.6	26.1	97.2	0.5	4.4	274.4	29.9	454.1	0.0	0.0	456.7	0.0	456.7
1970	0.0	4.5	15.8	43.6	133.2	0.7	4.1	392.2	14.1	603.8	0.0	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	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	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	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	0.0	738.6	0.0	738.6
1975	(s)	2.5	9.7	59.2	135.5	0.6	3.8	522.5	13.9	745.2	0.0	0.0	747.7	0.0	747.7
1976	(s)	2.0	8.5	62.2	140.7	0.7	4.2	540.0	19.0	775.3	0.0	0.0	777.3	0.0	777.3
1977	(s)	0.9	7.4	83.9	153.1	0.7	4.9	559.7	22.4	832.1	0.0	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	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	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	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	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	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	0.0	938.2	0.0	938.2
1984	0.0	4.8	3.6	121.9	135.6	1.9	4.8	629.0	25.6	922.4	0.0	(s)	927.2	0.1	927.2
1985	0.0	4.3	4.2	118.4	129.2	1.4	4.4	645.7	43.3	946.8	0.0	0.1	951.1	0.1	951.2
1986	0.0	4.2	5.2	127.0	140.1	1.6	4.3	675.8	47.5	1,001.4	0.0	0.1	1,005.8	0.3	1,006.0
1987	0.0	4.9	3.9	129.5	148.4	0.7	4.9	709.6	58.0	1,055.1	0.0	0.1	1,060.2	0.3	1,060.5
1988	0.0	3.6	4.5	147.7	179.3	0.8	4.7	733.7	51.7	1,122.4	0.0	0.1	1,126.1	0.3	1,126.4
1989	0.0	4.5	4.9	151.9	188.5	0.8	4.9	734.9	50.9	1,136.8	0.0	0.1	1,141.4	0.3	1,141.7
1990	0.0	3.0	4.1	148.8	179.6	0.8	5.0	730.5	63.4	1,132.2	[e]0.2	0.1	[e]1,135.3	0.3	[e]1,135.6
1991	0.0	3.8	3.6	135.4	140.8	0.6	4.5	732.4	52.5	1,069.8	0.2	0.1	1,073.8	0.3	1,074.1
1992	0.0	4.8	3.0	153.4	137.5	0.6	4.6	742.8	65.3	1,107.2	0.2	0.1	1,112.1	0.3	1,112.4
1993	0.0	4.8	2.7	85.1	150.3	0.6	4.6	783.6	74.0	1,101.0	0.2	0.1	1,105.9	0.3	R1,106.2
1994	0.0	6.0	2.7	152.6	162.1	1.0	4.9	794.6	64.3	1,182.1	0.3	0.1	1,188.3	0.3	1,188.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– –=Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Florida

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	2,323	0	2,323	87	27,349	388	0	27,737	0	298	0	0	0	–
1970	5,131	0	5,131	198	41,783	593	0	42,376	0	292	0	0	0	–
1971	5,124	0	5,124	196	51,515	1,326	0	52,841	0	253	0	0	0	–
1972	5,464	0	5,464	171	64,154	3,735	0	67,890	66	238	0	0	0	–
1973	6,641	0	6,641	168	67,650	2,978	0	70,629	4,681	234	0	0	0	–
1974	6,399	0	6,399	155	62,687	3,822	0	66,509	7,877	251	0	0	0	–
1975	5,758	0	5,758	141	68,180	5,205	0	73,385	8,370	234	0	0	0	–
1976	6,068	0	6,068	126	74,450	5,419	0	79,869	8,648	259	0	0	0	–
1977	6,780	0	6,780	137	64,837	5,374	0	70,212	17,557	243	0	0	0	–
1978	7,184	0	7,184	158	72,151	5,047	0	77,197	15,810	228	0	0	0	–
1979	8,155	0	8,155	167	70,076	4,980	0	75,056	15,391	241	0	0	0	–
1980	8,785	0	8,785	166	69,994	3,200	0	73,194	16,737	215	0	0	0	–
1981	9,209	192	9,401	171	74,857	2,249	0	77,107	14,448	180	0	0	0	–
1982	9,545	0	9,545	182	53,953	856	0	54,809	19,319	261	(s)	0	0	–
1983	12,435	0	12,435	175	49,295	1,007	0	50,302	14,805	220	(s)	0	0	–
1984	14,579	0	14,579	175	31,026	935	0	31,961	24,078	213	(s)	0	0	–
1985	18,283	0	18,283	166	22,432	1,246	0	23,678	23,461	244	0	0	0	–
1986	17,822	0	17,822	170	43,440	1,025	0	44,465	22,036	212	0	0	0	–
1987	22,598	0	22,598	176	32,647	1,047	0	33,694	18,773	217	0	0	0	–
1988	23,528	0	23,528	155	39,623	1,037	0	40,660	26,198	209	0	0	0	–
1989	24,292	0	24,292	187	40,532	2,435	0	42,966	20,916	234	0	0	0	–
1990	24,022	0	24,022	189	38,752	1,869	0	40,620	21,780	175	0	0	0	–
1991	24,870	0	24,870	201	46,621	1,809	0	48,430	20,508	263	0	0	0	–
1992	25,016	0	25,016	203	43,516	1,424	0	44,940	25,116	236	0	0	0	–
1993	25,108	0	25,108	174	52,931	1,420	0	54,351	25,887	211	0	0	0	–
1994	24,758	0	24,758	181	52,055	1,313	0	53,369	26,682	274	0	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	0.0	207.3
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	0.0	322.7
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	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	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	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	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	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	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	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	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	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	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	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	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	0.0	1,019.1
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	0.0	1,127.7
1987	560.4	0.0	560.4	177.1	205.3	6.1	0.0	211.4	202.3	2.3	0.0	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	2.2	0.0	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	0.0	1,286.0
1990	594.0	0.0	594.0	191.2	243.6	10.9	0.0	254.5	232.6	1.8	0.0	0.0	0.0	1,274.2
1991	614.3	0.0	614.3	204.1	293.1	10.5	0.0	303.6	220.3	2.7	0.0	0.0	0.0	1,345.1
1992	618.9	0.0	618.9	204.8	273.6	8.3	0.0	281.9	268.2	2.4	0.0	0.0	0.0	1,376.2
1993	619.3	0.0	619.3	175.9	332.8	8.3	0.0	341.1	276.5	2.2	0.0	0.0	0.0	1,414.9
1994	608.7	0.0	608.7	182.5	327.3	7.7	0.0	334.9	284.9	2.8	0.0	0.0	0.0	1,413.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Georgia

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	273	55,720	0	2,306	0	0	7,839	–
1965	6,116	211	4,007	928	8,531	2,158	1,297	5,424	967	39,136	8,413	1,005	71,867	0	3,234	0	0	13,600	–
1970	8,131	333	3,916	600	12,781	10,506	457	7,430	1,023	54,081	10,279	1,031	102,104	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	1,858	110,359	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	2,009	120,526	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	2,181	132,337	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	2,253	127,694	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	2,038	121,526	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	3,597	135,044	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	4,010	140,754	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	4,485	140,673	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	5,037	138,663	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	5,272	130,097	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	5,265	123,625	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	4,241	121,085	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	4,085	128,095	7,774	4,120	0	0	-15,244	–
1984	28,072	307	5,639	219	23,693	16,790	86	6,168	1,220	71,471	5,859	4,786	135,932	5,472	4,137	0	0	-17,230	–
1985	29,898	282	4,580	212	23,818	16,236	367	6,825	1,137	72,975	11,931	4,372	142,453	10,130	2,826	0	0	-28,970	–
1986	28,460	279	5,641	253	24,610	17,742	338	6,342	1,112	76,959	3,628	R 4,667	R 141,291	7,238	2,151	0	0	4,273	–
1987	29,126	303	5,977	218	26,033	19,691	220	6,337	1,257	79,934	3,164	R 4,565	R 147,396	15,259	3,175	0	0	-16,764	–
1988	28,654	323	6,048	227	27,922	20,295	337	6,731	1,212	83,630	3,118	R 4,490	R 154,009	15,149	2,065	0	0	-1,868	–
1989	27,918	318	4,958	210	28,125	17,451	314	7,394	1,243	83,531	2,659	R 4,400	R 150,287	24,961	3,929	0	0	-24,353	–
1990	30,067	311	6,398	196	28,537	18,439	198	6,021	1,279	82,670	3,539	R 4,880	R 152,157	24,797	R NA	I NA	I NA	R -31,256	–
1991	26,957	323	5,192	182	26,960	14,441	194	6,747	1,145	83,688	2,954	R 7,626	R 149,128	26,016	R NA	NA	NA	R -11,616	–
1992	25,481	343	4,897	166	27,207	12,422	155	7,185	1,167	83,924	6,875	R 8,003	R 152,002	27,996	R NA	NA	NA	R -10,083	–
1993	27,081	351	5,324	167	31,273	15,204	223	7,614	1,188	93,007	5,548	R 8,043	R 167,591	27,233	R NA	NA	NA	R -4,250	–
1994	29,254	341	5,251	160	31,485	16,936	243	7,548	1,242	93,527	4,798	8,151	169,341	28,927	NA	NA	NA	-17,009	–
			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	1.6	302.2	0.0	24.8	0.0	0.0	26.7	631.2
1965	152.6	219.8	26.6	4.7	49.7	11.6	7.4	21.8	5.9	205.6	52.9	5.4	391.4	0.0	33.8	0.0	0.0	46.4	844.0
1970	193.2	342.8	26.0	3.0	74.5	59.0	2.6	28.1	6.2	284.1	64.6	5.6	553.6	0.0	26.4	0.0	0.0	93.5	1,209.5
1971	219.6	353.2	26.6	3.2	85.3	66.0	3.1	28.6	7.0	303.6	65.4	10.1	598.8	0.0	34.6	0.0	0.0	71.3	1,277.5
1972	261.6	341.4	30.1	2.6	96.3	65.8	2.5	30.2	7.5	327.2	83.0	10.9	656.2	0.0	35.1	0.0	0.0	65.9	1,360.3
1973	271.5	358.5	32.4	2.5	118.9	79.8	1.9	31.2	8.0	346.7	89.4	11.9	722.7	0.0	44.0	0.0	0.0	82.7	1,479.4
1974	283.9	339.6	30.4	2.3	117.0	67.2	1.7	28.5	7.7	341.6	88.9	12.3	697.6	0.5	38.2	0.0	0.0	58.3	1,418.0
1975	312.0	335.4	27.9	2.0	93.9	72.6	1.4	30.3	6.8	344.3	68.0	11.2	658.3	34.1	45.1	0.0	0.0	31.3	1,416.1
1976	347.6	268.4	29.6	2.0	118.0	74.8	2.0	33.4	7.6	359.3	88.5	19.8	734.8	45.7	46.0	0.0	0.0	30.9	1,473.3
1977	415.7	271.8	35.4	2.0	123.1	79.8	2.4	33.8	7.6	369.0	91.9	22.2	767.1	40.0	42.1	0.0	0.0	11.5	1,548.2
1978	434.4	286.0	41.3	2.0	111.2	86.0	2.1	31.9	8.1	381.1	77.1	24.8	765.7	46.8	38.9	0.0	0.0	27.2	1,598.9
1979	469.6	324.5	34.2	1.9	106.9	96.8	2.7	28.2	8.5	365.5	84.6	27.6	756.9	55.4	45.9	0.0	0.0	-7.1	1,645.1
1980	521.5	325.3	31.8	1.9	113.2	92.6	3.1	27.3	7.6	344.1	56.8	28.8	707.3	92.0	45.9	0.0	0.0	-52.7	1,639.4
1981	552.1	325.2	24.9	1.7	112.3	83.6	1.5	24.8	7.3	344.6	39.5	28.8	669.0	79.8	24.3	0.0	0.0	-30.9	1,619.5
1982	535.4	303.5	26.1	1.2	107.0	85.0	1.8	23.0	6.6	346.9	33.9	23.1	654.7	73.1	38.2	0.0	0.0	-12.2	1,592.7
1983	584.8	303.2	34.7	1.1	126.8	93.0	0.9	23.1	6.9	357.0	29.1	22.5	695.2	84.8	43.3	0.0	0.0	-52.0	1,659.4
1984	681.5	315.3	37.4	1.1	138.0	94.4	0.5	22.2	7.4	375.4	36.8	25.8	739.2	59.3	43.2	0.0	0.0	-58.8	1,779.8
1985	725.7	289.7	30.4	1.1	138.7	91.5	2.1	24.6	6.9	383.3	75.0	23.8	777.4	109.5	29.5	0.0	0.0	-98.8	1,833.0
1986	692.5	286.6	37.4	1.3	143.4	100.1	1.9	23.1	6.7	404.3	22.8	R 25.6	R 766.5	78.2	22.5	0.0	0.0	14.6	R 1,860.9
1987	710.6	311.3	39.7	1.1	151.6	111.2	1.2	23.2	7.6	419.9	19.9	R 24.6	R 800.1	164.4	33.1	0.0	0.0	-57.2	R 1,962.3
1988	699.0	331.1	40.1	1.1	162.6	114.6	1.9	24.6	7.4	439.3	19.6	R 24.4	R 835.6	162.8	21.3	0.0	0.0	-6.4	R 2,043.4
1989	676.8	325.9	32.9	1.1	163.8	98.5	1.8	27.2	7.5	438.8	16.7	R 23.8	R 812.2	267.7	40.5	0.0	0.0	-83.1	R 2,040.0
1990	718.2	319.4	42.5	1.0	166.2	104.2	1.1	21.8	7.8	434.3	22.2	R 26.5	R 827.6	264.8	R 51.0	I 105.7	I 0.1	R -106.6	R 2,180.1
1991	646.2	331.8	34.5	0.9	157.0	81.5	1.1	24.4	6.9	439.6	18.6	R 41.5	R 806.0	279.4	R 48.5	106.2	0.1	R -39.6	R 2,178.5
1992	615.5	351.5	32.5	0.8	158.5	70.0	0.9	26.0	7.1	440.9	43.2	R 43.2	R 823.1	298.9	55.6	111.6	0.1	R -34.4	R 2,221.9
1993	659.4	360.1	35.3	0.8	182.2	85.8	1.3	27.5	7.2	488.6	34.9	R 43.4	R 907.0	290.9	49.4	115.3	0.1	R -14.5	R 2,367.5
1994	691.9	351.6	34.8	0.8	183.4	95.9	1.4	27.4	7.5	491.3	30.2	44.0	916.8	308.8	50.5	116.0	0.1	-58.0	2,377.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Georgia

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	134	0	134	56	131	633	2,279	3,042	0	0	4,469	–	11,116	–
1965	68	0	68	67	211	460	3,092	3,764	0	0	6,936	–	16,560	–
1970	44	0	44	87	250	121	4,164	4,536	0	0	12,474	–	30,229	–
1971	28	0	28	88	306	150	4,229	4,685	0	0	13,099	–	31,669	–
1972	21	0	21	85	363	97	4,304	4,764	0	0	13,786	–	33,182	–
1973	27	0	27	86	375	76	4,122	4,573	0	0	15,383	–	36,827	–
1974	20	0	20	76	335	48	3,625	4,008	0	0	15,098	–	36,813	–
1975	18	0	18	87	298	34	3,896	4,229	0	0	16,457	–	39,696	–
1976	9	0	9	86	503	34	4,323	4,860	0	0	16,904	–	40,718	–
1977	14	0	14	98	422	68	4,416	4,905	0	0	18,610	–	44,938	–
1978	7	0	7	96	315	47	4,029	4,392	0	0	19,218	–	47,017	–
1979	9	0	9	91	304	77	2,282	2,663	0	0	18,367	–	44,326	–
1980	8	0	8	90	578	91	3,553	4,222	0	0	20,033	–	48,713	–
1981	11	0	11	92	184	34	3,313	3,531	0	0	20,207	–	48,159	–
1982	5	0	5	87	163	62	2,779	3,003	0	0	20,147	–	48,390	–
1983	1	0	1	91	225	103	3,304	3,631	0	0	20,726	–	49,656	–
1984	25	0	25	95	231	61	3,603	3,894	0	0	22,570	–	52,535	–
1985	13	1	14	84	353	257	3,952	4,562	0	0	23,505	–	55,222	–
1986	3	0	3	89	364	203	3,549	4,116	0	0	25,808	–	59,365	–
1987	13	0	13	101	343	130	3,701	4,173	0	0	26,991	–	61,672	–
1988	9	1	10	108	258	206	3,724	4,187	0	0	27,609	–	62,418	–
1989	4	(s)	5	104	267	177	4,093	4,537	0	0	28,349	–	63,578	–
1990	8	(s)	8	90	250	111	3,400	3,761	[e] 723	[e] 27	29,933	–	R 65,409	–
1991	3	(s)	3	97	178	113	3,651	3,943	761	30	30,187	–	R 65,632	–
1992	13	(s)	13	108	178	109	4,020	4,306	801	32	30,528	–	R 65,170	–
1993	8	(s)	8	116	236	136	4,196	4,568	871	35	33,867	–	R 71,524	–
1994	10	(s)	10	105	113	80	4,216	4,408	854	37	32,735	–	68,267	–
							Trillion Btu							
1960	3.3	0.0	3.3	57.8	0.8	3.6	9.1	13.5	0.0	0.0	15.2	89.9	37.9	127.8
1965	1.7	0.0	1.7	69.9	1.2	2.6	12.4	16.2	0.0	0.0	23.7	111.4	56.5	167.9
1970	1.1	0.0	1.1	90.1	1.5	0.7	15.7	17.9	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	68.7	169.6	165.1	334.7
1983	(s)	0.0	(s)	93.8	1.3	0.6	11.9	13.8	0.0	0.0	70.7	178.3	169.4	347.8
1984	0.6	0.0	0.6	97.8	1.3	0.3	13.0	14.7	0.0	0.0	77.0	190.1	179.2	369.3
1985	0.3	(s)	0.3	86.4	2.1	1.5	14.2	17.8	0.0	0.0	80.2	184.7	188.4	373.1
1986	0.1	0.0	0.1	91.6	2.1	1.1	12.9	16.2	0.0	0.0	88.1	195.9	202.6	398.4
1987	0.3	0.0	0.3	103.2	2.0	0.7	13.5	16.3	0.0	0.0	92.1	211.9	210.4	422.4
1988	0.2	(s)	0.2	110.8	1.5	1.2	13.6	16.3	0.0	0.0	94.2	221.5	213.0	434.5
1989	0.1	(s)	0.1	106.4	1.6	1.0	15.1	17.6	0.0	0.0	96.7	220.9	216.9	437.8
1990	0.2	(s)	0.2	92.7	1.5	0.6	12.3	14.4	[e] 14.5	[e] 0.1	102.1	R [e] 224.0	R 223.2	R [e] 447.2
1991	0.1	(s)	0.1	99.3	1.0	0.6	13.2	14.9	15.2	0.1	103.0	R 232.5	223.9	R 456.5
1992	0.3	(s)	0.3	110.9	1.0	0.6	14.6	16.2	16.0	0.1	104.2	R 247.8	R 222.4	R 470.1
1993	0.2	(s)	0.2	118.8	1.4	0.8	15.1	17.3	17.4	0.1	115.6	R 269.3	R 244.0	R 513.4
1994	0.2	(s)	0.3	108.6	0.7	0.5	15.3	16.4	17.1	0.1	111.7	254.2	232.9	487.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Georgia

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	125	0	125	26	603	149	546	306	83	1,687	4,560	–	10,887	–
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	636	370	708	3,945	15,605	–	36,322	–
1985	24	(s)	25	52	1,546	46	697	309	468	3,066	17,014	–	39,973	–
1986	5	0	5	50	992	73	626	360	1,039	3,090	18,257	–	41,996	–
1987	24	0	24	55	1,004	34	653	408	995	3,093	19,411	–	44,353	–
1988	17	(s)	17	56	1,203	21	657	455	767	3,102	20,694	–	46,785	–
1989	8	(s)	8	53	975	73	722	404	259	2,432	22,260	–	49,922	–
1990	14	(s)	14	49	1,271	64	600	516	69	2,520	23,725	–	R 51,843	–
1991	5	(s)	5	51	862	53	644	330	22	1,912	24,096	–	R 52,390	–
1992	25	(s)	25	54	1,038	37	709	415	6	2,205	24,605	–	R 52,526	–
1993	14	(s)	14	58	1,134	65	740	64	6	2,010	R 26,181	–	R 55,291	–
1994	18	(s)	18	54	1,035	149	744	171	7	2,106	27,167	–	56,656	–
					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
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
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	(s)	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	2.3	1.9	4.5	21.7	53.2	133.5	123.9	257.4
1985	0.6	(s)	0.6	53.0	9.0	0.3	2.5	1.6	2.9	16.3	58.1	128.0	136.4	264.4
1986	0.1	0.0	0.1	51.8	5.8	0.4	2.3	1.9	6.5	16.9	62.3	131.1	143.3	274.4
1987	0.6	0.0	0.6	56.0	5.8	0.2	2.4	2.1	6.3	16.8	66.2	139.7	151.3	291.0
1988	0.4	(s)	0.4	57.4	7.0	0.1	2.4	2.4	4.8	16.7	70.6	145.1	159.6	304.8
1989	0.2	(s)	0.2	54.5	5.7	0.4	2.7	2.1	1.6	12.5	76.0	143.1	170.3	313.5
1990	0.4	(s)	0.4	50.8	7.4	0.4	2.2	2.7	0.4	13.1	80.9	145.2	R 176.9	322.1
1991	0.1	(s)	0.1	52.4	5.0	0.3	2.3	1.7	0.1	9.5	82.2	144.3	R 178.8	323.0
1992	0.6	(s)	0.6	55.2	6.0	0.2	2.6	2.2	(s)	11.0	84.0	150.8	R 179.2	330.0
1993	0.4	(s)	0.4	59.1	6.6	0.4	2.7	0.3	(s)	10.0	89.3	158.8	R 188.7	347.4
1994	0.5	(s)	0.5	55.7	6.0	0.8	2.7	0.9	(s)	10.5	92.7	159.4	193.3	352.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Georgia

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	548	76	2,482	2,043	715	1,507	289	936	4,909	273	13,153	63	0	0	4,713	–	11,723	–
1965	630	113	4,007	3,538	687	1,716	384	616	7,117	1,005	19,070	64	0	0	6,903	–	16,481	–
1970	506	141	3,916	4,014	296	2,430	474	124	8,457	1,031	20,741	58	0	0	10,853	–	26,300	–
1971	490	142	4,002	4,374	344	2,492	562	102	8,299	1,858	22,032	55	0	0	11,678	–	28,234	–
1972	429	155	4,537	4,786	318	2,869	602	96	8,944	2,009	24,160	56	0	0	12,694	–	30,555	–
1973	417	174	4,875	4,815	228	3,374	697	82	9,611	2,181	25,864	55	0	0	13,733	–	32,876	–
1974	306	162	4,577	4,125	232	3,263	667	74	8,842	2,253	24,034	49	0	0	13,775	–	33,586	–
1975	434	145	4,198	3,557	200	3,478	610	60	6,243	2,038	20,384	56	0	0	13,866	–	33,446	–
1976	554	120	4,457	5,403	300	3,799	678	45	6,595	3,597	24,874	57	0	0	15,060	–	36,277	–
1977	642	102	5,331	4,995	325	3,866	632	44	7,885	4,010	27,087	49	0	0	15,734	–	37,992	–
1978	643	112	6,217	4,255	313	3,666	678	30	6,397	4,485	26,041	53	0	0	18,520	–	45,309	–
1979	555	152	5,151	3,715	371	4,856	710	35	7,563	5,037	27,438	56	0	0	19,107	–	46,111	–
1980	679	155	4,795	3,993	449	3,188	632	26	5,361	5,272	23,717	54	0	0	19,195	–	46,676	–
1981	1,100	157	3,757	2,891	220	2,703	606	21	3,141	5,265	18,605	54	0	0	19,379	–	46,185	–
1982	1,087	144	3,927	2,367	108	2,895	553	16	2,987	4,241	17,093	54	0	0	18,960	–	45,539	–
1983	1,420	140	5,229	3,012	23	2,275	579	20	2,905	4,085	18,127	54	0	0	19,737	–	47,286	–
1984	1,544	150	5,639	3,089	11	1,610	617	525	3,966	4,786	20,242	54	0	0	22,259	–	51,809	–
1985	1,575	140	4,580	3,653	65	1,964	575	1,251	10,397	4,372	26,855	54	0	0	23,122	–	54,324	–
1986	1,801	128	5,641	3,984	63	1,979	562	1,160	1,550	R 4,667	R 19,605	54	0	0	24,367	–	56,050	–
1987	1,960	141	5,977	3,583	56	1,853	636	1,217	1,463	R 4,565	R 19,351	54	0	0	25,227	–	57,641	–
1988	2,115	150	6,048	3,401	110	2,213	613	1,154	1,723	R 4,490	R 19,753	54	0	0	25,984	–	58,743	–
1989	2,067	153	4,958	3,970	64	2,462	629	1,299	1,707	R 4,400	R 19,489	54	0	0	26,388	–	59,179	–
1990	2,232	162	6,398	4,068	23	1,915	647	1,280	2,030	R 4,880	R 21,242	R [f] NA	[f] NA	[f] NA	26,717	–	R 58,382	–
1991	2,101	167	5,192	3,433	28	2,340	579	1,173	1,747	R 7,626	R 22,118	R NA	NA	NA	27,193	–	R 59,123	–
1992	1,787	172	4,897	2,797	10	2,345	590	1,223	3,425	R 8,003	R 23,290	R NA	NA	NA	28,197	–	R 60,195	–
1993	1,720	167	5,324	3,838	22	2,560	601	711	2,804	R 8,043	R 23,904	R NA	NA	NA	29,084	–	R 61,424	–
1994	1,933	174	5,251	3,472	14	2,340	628	778	2,857	8,151	23,491	NA	NA	NA	29,942	–	62,443	–
			Trillion Btu															
1960	13.9	78.6	16.5	11.9	4.1	6.0	1.8	4.9	30.9	1.6	77.6	0.7	0.0	0.0	16.1	186.9	40.0	226.9
1965	15.9	117.0	26.6	20.6	3.9	6.9	2.3	3.2	44.7	5.4	113.7	0.7	0.0	0.0	23.6	270.8	56.2	327.0
1970	12.0	145.3	26.0	23.4	1.7	9.2	2.9	0.7	53.2	5.6	122.5	0.6	0.0	0.0	37.0	317.4	89.7	407.1
1971	11.5	146.6	26.6	25.5	1.9	9.4	3.4	0.5	52.2	10.1	129.6	0.6	0.0	0.0	39.8	328.1	96.3	424.4
1972	10.0	159.3	30.1	27.9	1.8	10.8	3.6	0.5	56.2	10.9	141.9	0.6	0.0	0.0	43.3	355.0	104.3	459.3
1973	9.7	179.3	32.4	28.0	1.3	12.6	4.2	0.4	60.4	11.9	151.3	0.6	0.0	0.0	46.9	387.8	112.2	500.0
1974	7.1	166.4	30.4	24.0	1.3	12.2	4.0	0.4	55.6	12.3	140.2	0.5	0.0	0.0	47.0	361.2	114.6	475.8
1975	10.2	149.4	27.9	20.7	1.1	12.9	3.7	0.3	39.2	11.2	117.1	0.6	0.0	0.0	47.3	324.5	114.1	438.6
1976	13.2	123.7	29.6	31.5	1.7	14.1	4.1	0.2	41.5	19.8	142.4	0.6	0.0	0.0	51.4	331.3	123.8	455.1
1977	15.1	104.8	35.4	29.1	1.8	14.2	3.8	0.2	49.6	22.2	156.3	0.5	0.0	0.0	53.7	330.4	129.6	460.1
1978	15.2	115.5	41.3	24.8	1.8	13.5	4.1	0.2	40.2	24.8	150.6	0.6	0.0	0.0	63.2	345.0	154.6	499.6
1979	13.4	157.5	34.2	21.6	2.1	17.9	4.3	0.2	47.5	27.6	155.5	0.6	0.0	0.0	65.2	392.1	157.3	549.4
1980	16.5	160.1	31.8	23.3	2.5	11.7	3.8	0.1	33.7	28.8	135.8	0.6	0.0	0.0	65.5	378.5	159.3	537.8
1981	26.7	161.3	24.9	16.8	1.2	9.8	3.7	0.1	19.7	28.8	105.2	0.6	0.0	0.0	66.1	359.9	157.6	517.5
1982	26.6	148.7	26.1	13.8	0.6	10.5	3.4	0.1	18.8	23.1	96.3	0.6	0.0	0.0	64.7	336.9	155.4	492.3
1983	35.1	143.9	34.7	17.5	0.1	8.2	3.5	0.1	18.3	22.5	105.0	0.6	0.0	0.0	67.3	352.0	161.3	513.3
1984	38.2	153.4	37.4	18.0	0.1	5.8	3.7	2.8	24.9	25.8	118.5	0.6	0.0	0.0	75.9	386.6	176.8	563.4
1985	39.1	143.9	30.4	21.3	0.4	7.1	3.5	6.6	65.4	23.8	158.3	0.6	0.0	0.0	78.9	420.8	185.4	606.1
1986	44.9	131.9	37.4	23.2	0.4	7.2	3.4	6.1	9.7	R 25.6	R 113.0	0.6	0.0	0.0	83.1	R 373.5	191.2	R 564.8
1987	49.0	144.9	39.7	20.9	0.3	6.8	3.9	6.4	9.2	R 24.6	R 111.7	0.6	0.0	0.0	86.1	R 392.3	196.7	R 588.9
1988	52.9	154.2	40.1	19.8	0.6	8.1	3.7	6.1	10.8	R 24.4	R 113.6	0.6	0.0	0.0	88.7	R 409.9	200.4	R 610.3
1989	51.2	157.1	32.9	23.1	0.4	9.1	3.8	6.8	10.7	R 23.8	R 110.7	0.6	0.0	0.0	90.0	R 409.5	201.9	R 611.5
1990	56.1	166.4	42.5	23.7	0.1	6.9	3.9	6.7	12.8	R 26.5	R 123.2	R [f] 0.5	[f] 91.2	[f] 0.0	91.2	R [f] 528.5	R 199.2	R [f] 727.7
1991	52.8	171.6	34.5	20.0	0.2	8.5	3.5	6.2	11.0	R 41.5	R 125.2	R 0.5	90.9	0.0	92.8	R 533.8	201.7	R 735.5
1992	44.9	176.5	32.5	16.3	0.1	8.5	3.6	6.4	21.5	R 43.2	R 132.1	0.6	95.6	0.0	96.2	R 545.9	R 205.4	R 751.3
1993	43.2	171.9	35.3	22.4	0.1	9.2	3.6	3.7	17.6	R 43.4	R 135.5	R 0.5	97.8	0.0	99.2	R 548.1	R 209.6	R 757.7
1994	48.5	179.1	34.8	20.2	0.1	8.5	3.8	4.1	18.0	44.0	133.5	0.6	98.9	0.0	102.2	562.7	213.1	775.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Georgia

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	10	4	262	2,592	2,306	66	530	30,875	1,544	38,175	0	44	–	109	–
1965	2	5	928	4,177	2,158	69	583	38,215	1,162	47,292	0	0	–	0	–
1970	1	7	600	7,747	10,506	100	549	53,608	172	73,283	0	0	–	0	–
1971	1	7	634	8,579	11,749	108	592	57,326	136	79,123	0	0	–	0	–
1972	(s)	8	522	9,308	11,716	108	634	61,827	236	84,351	0	0	–	0	–
1973	(s)	6	489	11,582	14,174	116	626	65,529	592	93,108	0	0	–	0	–
1974	(s)	5	458	11,401	11,950	107	600	64,602	626	89,743	0	0	–	0	–
1975	(s)	4	399	10,331	12,887	106	516	65,110	427	89,776	0	0	–	0	–
1976	(s)	3	387	10,880	13,274	122	573	67,969	562	93,766	0	0	–	0	–
1977	(s)	3	396	12,104	14,155	139	617	69,814	375	97,600	0	0	–	0	–
1978	0	3	396	12,344	15,258	282	663	72,127	447	101,517	0	0	–	0	–
1979	0	4	377	13,243	17,165	134	694	69,131	3,454	104,197	0	2	–	5	–
1980	0	7	386	14,135	16,421	76	618	65,116	2,995	99,747	0	16	–	38	–
1981	0	8	330	14,602	14,829	212	592	65,171	2,656	98,392	0	17	–	40	–
1982	0	7	244	14,544	15,085	203	540	65,608	2,314	98,538	0	25	–	60	–
1983	0	6	220	16,148	16,495	241	566	67,547	1,146	102,363	0	24	–	58	–
1984	0	6	219	17,988	16,790	320	603	70,577	1,153	107,649	0	34	–	79	–
1985	0	5	212	18,031	16,236	212	562	71,415	1,009	107,677	0	56	–	130	–
1986	0	5	253	19,101	17,742	188	550	75,439	683	113,955	0	59	–	135	–
1987	0	6	218	20,949	19,691	130	621	78,309	499	120,418	0	51	–	117	–
1988	0	7	227	22,746	20,295	136	599	82,021	449	126,473	0	59	–	133	–
1989	0	7	210	22,595	17,451	117	615	81,829	666	123,482	0	62	–	138	–
1990	0	7	196	22,731	18,439	106	632	80,873	1,325	124,302	[e] 916	65	–	143	–
1991	0	7	182	22,292	14,441	112	566	82,185	1,165	120,943	726	63	–	138	–
1992	0	8	166	22,995	12,422	110	577	82,286	3,376	121,932	883	62	–	132	–
1993	0	7	167	25,729	15,204	117	587	92,231	2,568	136,603	985	R 59	–	R 125	–
1994	0	7	160	26,568	16,936	249	614	92,578	1,873	138,978	1,093	69	–	144	–
			Trillion Btu												
1960	0.2	3.7	1.3	15.1	12.4	0.3	3.2	162.2	9.7	204.2	0.0	0.1	208.3	0.4	208.6
1965	0.1	5.0	4.7	24.3	11.6	0.3	3.5	200.7	7.3	252.5	0.0	0.0	257.5	0.0	257.5
1970	(s)	7.1	3.0	45.1	59.0	0.4	3.3	281.6	1.1	393.5	0.0	0.0	400.6	0.0	400.6
1971	(s)	6.9	3.2	50.0	66.0	0.4	3.6	301.1	0.9	425.1	0.0	0.0	432.1	0.0	432.1
1972	(s)	8.2	2.6	54.2	65.8	0.4	3.8	324.8	1.5	453.2	0.0	0.0	461.4	0.0	461.4
1973	(s)	6.3	2.5	67.5	79.8	0.4	3.8	344.2	3.7	502.0	0.0	0.0	508.3	0.0	508.3
1974	(s)	5.0	2.3	66.4	67.2	0.4	3.6	339.4	3.9	483.3	0.0	0.0	488.3	0.0	488.3
1975	(s)	4.3	2.0	60.2	72.6	0.4	3.1	342.0	2.7	483.0	0.0	0.0	487.3	0.0	487.3
1976	(s)	3.5	2.0	63.4	74.8	0.5	3.5	357.0	3.5	504.6	0.0	0.0	508.2	0.0	508.2
1977	(s)	3.0	2.0	70.5	79.8	0.5	3.7	366.7	2.4	525.6	0.0	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	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	0.0	(s)	569.7	(s)	569.7
1980	0.0	7.6	1.9	82.3	92.6	0.3	3.7	342.1	18.8	541.8	0.0	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	0.0	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	0.0	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	0.0	0.1	560.7	0.2	560.9
1984	0.0	6.1	1.1	104.8	94.4	1.2	3.7	370.7	7.2	583.1	0.0	0.1	589.4	0.3	589.7
1985	0.0	5.5	1.1	105.0	91.5	0.8	3.4	375.1	6.3	583.3	0.0	0.2	589.0	0.4	589.4
1986	0.0	5.4	1.3	111.3	100.1	0.7	3.3	396.3	4.3	617.2	0.0	0.2	622.9	0.5	623.3
1987	0.0	6.3	1.1	122.0	111.2	0.5	3.8	411.4	3.1	653.0	0.0	0.2	659.6	0.4	660.0
1988	0.0	7.1	1.1	132.5	114.6	0.5	3.6	430.9	2.8	686.0	0.0	0.2	693.3	0.5	693.8
1989	0.0	7.2	1.1	131.6	98.5	0.4	3.7	429.8	4.2	669.4	0.0	0.2	676.8	0.5	677.3
1990	0.0	7.5	1.0	132.4	104.2	0.4	3.8	424.8	8.3	674.9	[e] 0.1	0.2	[e] 682.7	0.5	[e] 683.2
1991	0.0	7.6	0.9	129.9	81.5	0.4	3.4	431.7	7.3	655.1	0.1	0.2	663.0	0.5	663.5
1992	0.0	7.7	0.8	133.9	70.0	0.4	3.5	432.2	21.2	662.1	0.1	0.2	670.0	0.5	670.5
1993	0.0	7.2	0.8	149.9	85.8	0.4	3.6	484.5	16.1	741.1	0.1	0.2	748.6	0.4	749.0
1994	0.0	7.2	0.8	154.8	95.9	0.9	3.7	486.3	11.8	754.2	0.1	0.2	761.6	0.5	762.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Georgia

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	5,291	0	5,291	1	52	2	0	54	0	3,170	0	0	0	–
1970	7,498	0	7,498	59	1,542	58	0	1,600	0	2,461	0	0	0	–
1971	8,857	0	8,857	63	1,861	518	0	2,378	0	3,247	0	0	0	–
1972	10,625	0	10,625	38	3,916	1,033	0	4,948	0	3,330	0	0	0	–
1973	10,854	0	10,854	34	3,891	2,577	0	6,469	0	4,178	0	0	0	–
1974	11,642	0	11,642	43	4,563	3,266	0	7,829	44	3,605	0	0	0	–
1975	12,656	0	12,656	40	4,059	1,077	0	5,136	3,093	4,278	0	0	0	–
1976	14,043	0	14,043	5	6,833	2,035	0	8,868	4,134	4,374	0	0	0	–
1977	16,857	0	16,857	6	6,250	2,414	0	8,664	3,713	3,983	0	0	0	–
1978	17,631	0	17,631	6	5,334	1,283	0	6,616	4,277	3,702	0	0	0	–
1979	19,171	0	19,171	3	2,350	219	0	2,569	5,095	4,374	0	0	0	–
1980	21,191	0	21,191	4	670	415	0	1,085	8,436	4,369	0	0	0	–
1981	21,941	0	21,941	3	476	372	0	848	7,235	2,274	0	0	0	–
1982	21,195	0	21,195	2	89	259	0	349	6,606	3,598	0	0	0	–
1983	22,778	0	22,778	2	65	215	0	280	7,774	4,065	0	0	0	–
1984	26,455	0	26,455	1	32	169	0	201	5,472	4,083	0	0	0	–
1985	28,285	0	28,285	1	57	235	0	292	10,130	2,772	0	0	0	–
1986	26,652	0	26,652	6	356	169	0	525	7,238	2,097	0	0	0	–
1987	27,130	0	27,130	1	207	154	0	361	15,259	3,121	0	0	0	–
1988	26,513	0	26,513	2	180	315	0	494	15,149	2,011	0	0	0	–
1989	25,839	0	25,839	1	27	318	0	346	24,961	3,874	0	0	0	–
1990	27,812	0	27,812	2	115	218	0	333	24,797	4,887	0	0	0	–
1991	24,848	0	24,848	1	20	194	0	213	26,016	4,639	0	0	0	–
1992	23,656	0	23,656	1	69	199	0	268	27,996	5,342	0	0	0	–
1993	25,339	0	25,339	3	170	336	0	506	27,233	4,753	0	0	0	–
1994	27,293	0	27,293	1	61	297	0	358	28,927	4,857	0	0	0	–
					Trillion Btu									
1960	65.3	0.0	65.3	26.2	0.2	(s)	0.0	0.3	0.0	24.1	0.0	0.0	0.0	115.9
1965	131.9	0.0	131.9	0.9	0.3	(s)	0.0	0.3	0.0	33.1	0.0	0.0	0.0	166.3
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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	680.5
1984	641.6	0.0	641.6	0.6	0.2	1.0	0.0	1.2	59.3	42.6	0.0	0.0	0.0	745.3
1985	685.7	0.0	685.7	0.9	0.4	1.4	0.0	1.7	109.5	29.0	0.0	0.0	0.0	826.8
1986	647.4	0.0	647.4	5.9	2.2	1.0	0.0	3.2	78.2	21.9	0.0	0.0	0.0	756.7
1987	660.6	0.0	660.6	0.8	1.3	0.9	0.0	2.2	164.4	32.5	0.0	0.0	0.0	860.6
1988	645.5	0.0	645.5	1.6	1.1	1.8	0.0	3.0	162.8	20.8	0.0	0.0	0.0	833.5
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	0.0	935.7
1990	661.5	0.0	661.5	2.0	0.7	1.3	0.0	2.0	264.8	50.5	0.0	0.0	0.0	980.9
1991	593.2	0.0	593.2	0.9	0.1	1.1	0.0	1.3	279.4	48.0	0.0	0.0	0.0	922.7
1992	569.6	0.0	569.6	1.2	0.4	1.2	0.0	1.6	298.9	55.0	0.0	0.0	0.0	926.3
1993	615.6	0.0	615.6	3.1	1.1	2.0	0.0	3.0	290.9	48.9	0.0	0.0	0.0	961.5
1994	642.7	0.0	642.7	1.1	0.4	1.7	0.0	2.1	308.8	49.9	0.0	0.0	0.0	1,004.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Hawaii

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
1965	0	0	306	613	1,612	7,618	49	219	94	4,082	7,230	684	22,507	0	105	0	0	0	–
1970	0	0	377	133	1,695	14,273	153	938	71	5,691	10,154	643	34,129	0	108	24	0	0	–
1971	0	0	288	141	1,709	16,302	80	963	79	5,872	10,701	618	36,754	0	89	15	0	0	–
1972	0	0	325	143	1,776	16,244	52	945	85	6,202	11,338	645	37,755	0	91	18	0	0	–
1973	0	0	332	132	1,837	16,511	41	942	85	6,608	11,575	723	38,785	0	95	22	0	0	–
1974	0	0	257	123	1,951	14,887	75	966	81	6,543	11,122	693	36,698	0	92	30	0	0	–
1975	0	0	379	116	1,948	14,849	76	872	104	6,766	11,255	693	37,056	0	89	25	0	0	–
1976	0	0	400	130	2,337	14,202	129	1,036	116	7,029	11,871	739	37,990	0	93	29	0	0	–
1977	0	0	332	147	2,865	14,875	169	877	94	7,406	12,695	789	40,249	0	86	26	0	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	15	0	0	–
1982	47	3	172	137	4,545	7,472	0	2,104	82	7,261	13,292	572	35,637	0	90	26	0	0	–
1983	42	3	259	156	2,326	11,271	1	2,102	86	7,240	12,148	707	36,297	0	84	28	0	0	–
1984	38	2	205	146	2,701	12,946	2	121	92	7,528	12,798	716	37,252	0	82	28	21	0	–
1985	46	2	306	155	4,611	13,260	2	133	86	7,592	13,185	671	40,004	0	86	25	19	0	–
1986	16	2	272	279	4,584	10,176	3	126	84	7,878	14,326	1,203	38,931	0	78	0	18	0	–
1987	63	3	397	249	4,059	11,481	2	157	95	8,167	13,595	1,468	39,669	0	82	0	13	0	–
1988	50	3	351	281	5,914	11,972	(s)	178	91	8,487	16,935	1,921	46,133	0	81	0	16	0	–
1989	32	3	296	287	5,685	13,239	(s)	186	94	8,750	17,400	2,004	47,940	0	89	11	14	0	–
1990	28	3	381	272	6,822	12,646	(s)	178	96	8,620	17,433	2,156	48,606	0	R I NA	I NA	I NA	0	–
1991	37	3	383	261	7,239	11,123	(s)	214	86	8,967	15,418	R 1,803	R 45,496	0	R NA	NA	NA	0	–
1992	47	3	431	243	5,588	9,993	(s)	651	88	8,872	16,271	R 2,230	R 44,366	0	R NA	NA	NA	0	–
1993	73	3	444	198	4,837	8,891	1	884	90	9,057	12,361	R 2,026	R 38,789	0	R NA	NA	NA	0	–
1994	86	3	407	210	5,063	9,472	1	1,619	94	9,347	12,931	2,221	41,365	0	NA	NA	NA	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
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
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	0.3	0.0	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	0.2	0.0	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	0.2	0.0	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	0.2	0.0	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	0.3	0.0	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	0.3	0.0	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	0.3	0.0	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	0.3	0.0	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	0.2	0.0	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	0.3	0.0	0.0	208.5
1983	1.0	2.7	1.7	0.8	13.6	62.5	(s)	7.6	0.5	38.0	76.4	4.3	205.4	0.0	0.9	0.3	0.0	0.0	210.3
1984	0.9	2.4	1.4	0.7	15.7	72.6	(s)	0.4	0.6	39.5	80.4	4.4	215.8	0.0	0.9	0.3	0.4	0.0	220.8
1985	1.1	2.7	2.0	0.8	26.9	74.4	(s)	0.5	0.5	39.9	82.9	4.2	232.1	0.0	0.9	0.3	0.4	0.0	237.4
1986	0.4	2.7	1.8	1.4	26.7	57.0	(s)	0.5	0.5	41.4	90.1	7.6	226.9	0.0	0.8	0.0	0.4	0.0	231.2
1987	1.6	2.8	2.6	1.3	23.6	64.4	(s)	0.6	0.6	42.9	85.5	9.0	230.5	0.0	0.9	0.0	0.3	0.0	236.0
1988	1.2	2.8	2.3	1.4	34.5	67.2	(s)	0.7	0.6	44.6	106.5	11.7	269.3	0.0	0.8	0.0	0.3	0.0	274.6
1989	0.8	2.9	2.0	1.4	33.1	74.4	(s)	0.7	0.6	46.0	109.4	12.1	279.6	0.0	0.9	0.1	0.3	0.0	284.6
1990	0.7	3.0	2.5	1.4	39.7	71.1	(s)	0.6	0.6	45.3	109.6	13.0	283.8	0.0	R I 0.7	I 11.1	I 1.0	0.0	R I 300.2
1991	0.9	2.9	2.5	1.3	42.2	62.6	(s)	0.8	0.5	47.1	98.9	R 11.0	264.9	0.0	R 0.7	11.2	1.1	0.0	R 281.7
1992	1.2	2.9	2.9	1.2	32.6	58.5	(s)	2.4	0.5	46.6	102.3	R 13.4	258.3	0.0	R 0.6	11.8	1.2	0.0	R 275.9
1993	1.8	2.8	2.9	1.0	28.2	50.4	(s)	3.2	0.5	47.6	77.7	R 12.3	223.8	0.0	R 0.6	11.1	4.5	0.0	R 244.6
1994	1.8	2.9	2.7	1.1	29.5	53.7	(s)	5.9	0.6	49.1	81.3	13.4	237.2	0.0	1.5	10.9	5.2	0.0	259.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
NA=Not available.
– =Not applicable.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Hawaii

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	0	0	0	0	(s)	0	57	58	0	0	514	–	1,550	–
1965	0	0	0	0	1	0	113	114	0	0	861	–	1,976	–
1970	0	0	0	0	1	0	447	449	0	0	1,285	–	3,021	–
1971	0	0	0	0	1	0	526	527	0	0	1,391	–	3,255	–
1972	0	0	0	0	1	0	480	481	0	0	1,511	–	3,710	–
1973	0	0	0	0	1	0	496	497	0	0	1,599	–	3,723	–
1974	0	0	0	0	1	0	480	481	0	0	1,655	–	3,762	–
1975	0	0	0	0	1	0	320	321	0	0	1,663	–	3,732	–
1976	0	0	0	0	1	0	503	504	0	0	1,736	–	3,954	–
1977	0	0	0	0	1	0	529	529	0	0	1,760	–	4,047	–
1978	0	0	0	0	1	0	497	498	0	0	1,779	–	4,064	–
1979	0	0	0	0	2	0	741	743	0	0	1,846	–	4,064	–
1980	0	0	0	1	1	0	430	431	0	0	1,841	–	4,103	–
1981	0	0	0	1	1	0	406	407	0	0	1,924	–	4,008	–
1982	0	0	0	1	0	0	383	383	0	0	1,842	–	3,712	–
1983	0	0	0	1	1	0	452	453	0	0	1,854	–	3,808	–
1984	0	0	0	1	1	0	91	92	0	0	1,838	–	3,918	–
1985	0	0	0	1	(s)	0	101	101	0	0	1,879	–	3,928	–
1986	0	0	0	1	1	0	95	96	0	0	1,962	–	3,998	–
1987	0	0	0	1	1	0	119	120	0	0	2,073	–	4,304	–
1988	0	0	0	1	2	0	134	136	0	0	2,151	–	4,539	–
1989	0	0	0	1	(s)	0	139	140	0	0	2,242	–	4,833	–
1990	0	0	0	1	(s)	0	127	128	[e] 164	[e] 228	2,324	–	4,734	–
1991	0	0	0	1	(s)	(s)	131	131	172	247	2,396	–	4,131	–
1992	0	0	0	1	(s)	(s)	413	413	181	262	2,438	–	3,711	–
1993	0	0	0	1	1	(s)	88	89	154	277	2,469	–	3,061	–
1994	0	0	0	1	1	(s)	90	91	151	293	2,557	–	2,858	–
	Trillion Btu													
1960	0.0	0.0	0.0	0.0	(s)	0.0	0.2	0.2	0.0	0.0	1.8	2.0	5.3	7.3
1965	0.0	0.0	0.0	0.0	(s)	0.0	0.5	0.5	0.0	0.0	2.9	3.4	6.7	10.1
1970	0.0	0.0	0.0	0.0	(s)	0.0	1.7	1.7	0.0	0.0	4.4	6.1	10.3	16.4
1971	0.0	0.0	0.0	0.0	(s)	0.0	2.0	2.0	0.0	0.0	4.7	6.7	11.1	17.8
1972	0.0	0.0	0.0	0.0	(s)	0.0	1.8	1.8	0.0	0.0	5.2	7.0	12.7	19.6
1973	0.0	0.0	0.0	0.0	(s)	0.0	1.9	1.9	0.0	0.0	5.5	7.3	12.7	20.0
1974	0.0	0.0	0.0	0.0	(s)	0.0	1.8	1.8	0.0	0.0	5.6	7.4	12.8	20.3
1975	0.0	0.0	0.0	0.0	(s)	0.0	1.2	1.2	0.0	0.0	5.7	6.9	12.7	19.6
1976	0.0	0.0	0.0	0.0	(s)	0.0	1.9	1.9	0.0	0.0	5.9	7.8	13.5	21.3
1977	0.0	0.0	0.0	0.0	(s)	0.0	1.9	1.9	0.0	0.0	6.0	8.0	13.8	21.8
1978	0.0	0.0	0.0	0.0	(s)	0.0	1.8	1.8	0.0	0.0	6.1	7.9	13.9	21.8
1979	0.0	0.0	0.0	0.0	(s)	0.0	2.7	2.7	0.0	0.0	6.3	9.0	13.9	22.9
1980	0.0	0.0	0.0	1.4	(s)	0.0	1.6	1.6	0.0	0.0	6.3	9.2	14.0	23.2
1981	0.0	0.0	0.0	1.2	(s)	0.0	1.5	1.5	0.0	0.0	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	0.0	0.0	6.3	8.9	12.7	21.5
1983	0.0	0.0	0.0	1.1	(s)	0.0	1.6	1.6	0.0	0.0	6.3	9.1	13.0	22.1
1984	0.0	0.0	0.0	1.1	(s)	0.0	0.3	0.3	0.0	0.0	6.3	7.7	13.4	21.0
1985	0.0	0.0	0.0	0.7	(s)	0.0	0.4	0.4	0.0	0.0	6.4	7.5	13.4	20.9
1986	0.0	0.0	0.0	0.6	(s)	0.0	0.3	0.4	0.0	0.0	6.7	7.7	13.6	21.3
1987	0.0	0.0	0.0	0.6	(s)	0.0	0.4	0.4	0.0	0.0	7.1	8.1	14.7	22.8
1988	0.0	0.0	0.0	0.6	(s)	0.0	0.5	0.5	0.0	0.0	7.3	8.4	15.5	23.9
1989	0.0	0.0	0.0	0.6	(s)	0.0	0.5	0.5	0.0	0.0	7.7	8.8	16.5	25.3
1990	0.0	0.0	0.0	0.6	(s)	0.0	0.5	0.5	[e] 3.3	[e] 0.8	7.9	R [e] 13.1	16.2	R [e] 29.2
1991	0.0	0.0	0.0	0.6	(s)	(s)	0.5	0.5	3.4	0.8	8.2	R 13.5	14.1	R 27.6
1992	0.0	0.0	0.0	0.6	(s)	(s)	1.5	1.5	3.6	0.9	8.3	R 14.9	12.7	R 27.6
1993	0.0	0.0	0.0	0.6	(s)	(s)	0.3	0.3	3.1	0.9	8.4	R 13.4	10.4	R 23.8
1994	0.0	0.0	0.0	0.6	(s)	(s)	0.3	0.3	3.0	1.0	8.7	13.7	9.8	23.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Hawaii

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	0	0	0	0	48	23	10	55	41	177	306	–	921	–
1965	0	0	0	0	71	39	20	59	31	220	495	–	1,136	–
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	16	43	23	196	1,598	–	3,408	–
1985	0	0	0	2	136	1	18	47	21	223	1,612	–	3,371	–
1986	0	0	0	2	181	3	17	46	67	313	1,831	–	3,730	–
1987	0	0	0	2	483	2	21	44	53	604	1,942	–	4,033	–
1988	0	0	0	2	604	(s)	24	53	1,762	2,443	2,072	–	4,372	–
1989	0	0	0	2	495	(s)	25	52	1,470	2,042	2,152	–	4,639	–
1990	0	0	0	2	507	(s)	22	59	837	1,425	2,253	–	4,589	–
1991	0	0	0	2	613	(s)	23	49	19	703	2,355	–	4,062	–
1992	0	0	0	2	437	(s)	73	45	1,063	1,618	2,417	–	3,678	–
1993	0	0	0	2	279	1	15	11	35	341	2,419	–	3,000	–
1994	0	0	0	2	252	(s)	16	11	439	718	2,601	–	2,908	–
	Trillion Btu													
1960	0.0	0.0	0.0	0.0	0.3	0.1	(s)	0.3	0.3	1.0	1.0	2.0	3.1	5.2
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
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	(s)	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	(s)	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	(s)	0.1	0.2	0.1	1.1	5.5	7.9	11.6	19.5
1985	0.0	0.0	0.0	2.0	0.8	(s)	0.1	0.2	0.1	1.2	5.5	8.8	11.5	20.3
1986	0.0	0.0	0.0	2.0	1.1	(s)	0.1	0.2	0.4	1.8	6.2	10.1	12.7	22.8
1987	0.0	0.0	0.0	2.2	2.8	(s)	0.1	0.2	0.3	3.5	6.6	12.3	13.8	26.0
1988	0.0	0.0	0.0	2.2	3.5	(s)	0.1	0.3	11.1	15.0	7.1	24.2	14.9	39.2
1989	0.0	0.0	0.0	2.3	2.9	(s)	0.1	0.3	9.2	12.5	7.3	22.1	15.8	38.0
1990	0.0	0.0	0.0	2.4	3.0	(s)	0.1	0.3	5.3	8.6	7.7	18.7	15.7	34.3
1991	0.0	0.0	0.0	2.3	3.6	(s)	0.1	0.3	0.1	4.0	8.0	14.4	13.9	28.2
1992	0.0	0.0	0.0	2.3	2.5	(s)	0.3	0.2	6.7	9.7	8.2	20.3	12.6	32.8
1993	0.0	0.0	0.0	2.3	1.6	(s)	0.1	0.1	0.2	2.0	8.3	12.5	10.2	22.7
1994	0.0	0.0	0.0	2.3	1.5	(s)	0.1	0.1	2.8	4.3	8.9	15.5	9.9	25.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Hawaii

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	0	0	29	554	68	43	18	83	1,038	553	2,386	0	0	0	465	–	1,403	–
1965	0	0	306	635	10	82	21	76	1,712	684	3,526	83	0	0	1,096	–	2,516	–
1970	0	0	377	701	66	386	4	49	1,671	643	3,898	86	0	0	1,720	–	4,044	–
1971	0	0	288	644	33	325	20	60	1,440	618	3,428	69	0	0	1,979	–	4,631	–
1972	0	0	325	655	17	359	21	77	1,733	645	3,832	69	0	0	2,160	–	5,305	–
1973	0	0	332	718	16	339	21	61	1,627	723	3,837	75	0	0	2,277	–	5,300	–
1974	0	0	257	579	39	379	20	68	1,591	693	3,625	74	0	0	2,438	–	5,541	–
1975	0	0	379	603	31	472	30	53	1,346	693	3,607	71	0	0	2,538	–	5,696	–
1976	0	0	400	549	36	424	33	54	1,266	739	3,500	71	0	0	2,664	–	6,067	–
1977	0	0	332	641	48	234	20	53	1,396	789	3,512	68	0	0	2,757	–	6,339	–
1978	0	0	292	865	38	78	21	60	1,081	846	3,280	63	0	0	2,835	–	6,476	–
1979	0	0	264	1,620	34	703	22	48	904	824	4,419	69	0	0	2,940	–	6,472	–
1980	0	0	285	1,369	9	1,041	20	49	1,491	815	5,078	67	0	0	3,028	–	6,749	–
1981	0	0	187	1,380	0	804	19	51	1,527	530	4,498	67	0	0	3,270	–	6,811	–
1982	47	0	172	1,296	0	1,612	17	52	2,136	572	5,857	67	0	0	3,248	–	6,547	–
1983	42	0	259	332	(s)	1,523	18	38	449	707	3,327	67	0	0	3,286	–	6,748	–
1984	38	0	205	375	(s)	6	19	52	1,132	716	2,505	67	0	0	3,169	–	6,756	–
1985	46	0	308	471	(s)	9	18	104	1,344	671	2,924	67	0	0	3,143	–	6,571	–
1986	16	0	272	541	(s)	9	18	101	1,952	1,203	4,096	67	0	0	3,239	–	6,601	–
1987	63	0	397	776	(s)	11	20	108	1,332	1,468	4,112	67	0	0	3,284	–	6,820	–
1988	50	0	351	768	(s)	12	19	110	1,768	1,921	4,951	67	0	0	3,495	–	7,375	–
1989	32	0	296	514	(s)	13	20	129	1,439	2,004	4,414	67	0	0	3,576	–	7,709	–
1990	28	0	381	812	(s)	15	20	133	1,765	2,156	5,283	R f NA	f NA	f NA	3,734	–	7,605	–
1991	37	0	383	692	(s)	46	18	150	1,804	R 1,803	R 4,896	R NA	NA	NA	3,773	–	6,507	–
1992	47	0	431	602	(s)	130	18	152	1,372	R 2,230	R 4,934	R NA	NA	NA	3,811	–	5,800	–
1993	73	0	444	451	(s)	772	19	241	1,070	R 2,026	R 5,023	R NA	NA	NA	3,770	–	4,675	–
1994	86	0	407	349	(s)	1,499	20	245	1,202	2,221	5,943	NA	NA	NA	3,791	–	4,238	–
			Trillion Btu															
1960	0.0	0.0	0.2	3.2	0.4	0.2	0.1	0.4	6.5	3.3	14.4	0.0	0.0	0.0	1.6	16.0	4.8	20.7
1965	0.0	0.0	2.0	3.7	0.1	0.3	0.1	0.4	10.8	4.1	21.5	0.9	0.0	0.0	3.7	26.1	8.6	34.7
1970	0.0	0.0	2.5	4.1	0.4	1.5	(s)	0.3	10.5	3.9	23.1	0.9	0.0	0.0	5.9	29.8	13.8	43.6
1971	0.0	0.0	1.9	3.8	0.2	1.2	0.1	0.3	9.1	3.7	20.3	0.7	0.0	0.0	6.8	27.7	15.8	43.5
1972	0.0	0.0	2.2	3.8	0.1	1.3	0.1	0.4	10.9	3.9	22.7	0.7	0.0	0.0	7.4	30.8	18.1	48.9
1973	0.0	0.0	2.2	4.2	0.1	1.3	0.1	0.3	10.2	4.3	22.8	0.8	0.0	0.0	7.8	31.3	18.1	49.4
1974	0.0	0.0	1.7	3.4	0.2	1.4	0.1	0.4	10.0	4.2	21.4	0.8	0.0	0.0	8.3	30.4	18.9	49.4
1975	0.0	0.0	2.5	3.5	0.2	1.8	0.2	0.3	8.5	4.2	21.0	0.7	0.0	0.0	8.7	30.4	19.4	49.9
1976	0.0	0.0	2.7	3.2	0.2	1.6	0.2	0.3	8.0	4.4	20.5	0.7	0.0	0.0	9.1	30.3	20.7	51.0
1977	0.0	0.0	2.2	3.7	0.3	0.9	0.1	0.3	8.8	4.7	21.0	0.7	0.0	0.0	9.4	31.1	21.6	52.7
1978	0.0	0.0	1.9	5.0	0.2	0.3	0.1	0.3	6.8	5.1	19.8	0.7	0.0	0.0	9.7	30.1	22.1	52.2
1979	0.0	0.0	1.8	9.4	0.2	2.6	0.1	0.3	5.7	5.0	25.0	0.7	0.0	0.0	10.0	35.7	22.1	57.8
1980	0.0	0.0	1.9	8.0	0.1	3.8	0.1	0.3	9.4	4.9	28.4	0.7	0.0	0.0	10.3	39.4	23.0	62.4
1981	0.0	0.0	1.2	8.0	0.0	2.9	0.1	0.3	9.6	3.3	25.5	0.7	0.0	0.0	11.2	37.4	23.2	60.6
1982	1.1	0.0	1.1	7.6	0.0	5.8	0.1	0.3	13.4	3.6	31.9	0.7	0.0	0.0	11.1	44.8	22.3	67.1
1983	1.0	0.0	1.7	1.9	(s)	5.5	0.1	0.2	2.8	4.3	16.6	0.7	0.0	0.0	11.2	29.6	23.0	52.6
1984	0.9	0.0	1.4	2.2	(s)	(s)	0.1	0.3	7.1	4.4	15.4	0.7	0.0	0.0	10.8	27.9	23.1	50.9
1985	1.1	0.0	2.0	2.7	(s)	(s)	0.1	0.5	8.4	4.2	18.1	0.7	0.0	0.0	10.7	30.6	22.4	53.0
1986	0.4	0.0	1.8	3.1	(s)	(s)	0.1	0.5	12.3	7.6	25.5	0.7	0.0	0.0	11.1	37.7	22.5	60.2
1987	1.6	0.0	2.6	4.5	(s)	(s)	0.1	0.6	8.4	9.0	25.3	0.7	0.0	0.0	11.2	38.8	23.3	62.0
1988	1.2	0.0	2.3	4.5	(s)	(s)	0.1	0.6	11.1	11.7	30.3	0.7	0.0	0.0	11.9	44.2	25.2	69.4
1989	0.8	0.0	2.0	3.0	(s)	(s)	0.1	0.7	9.0	12.1	26.9	0.7	0.0	0.0	12.2	40.6	26.3	66.9
1990	0.7	0.0	2.5	4.7	(s)	0.1	0.1	0.7	11.1	13.0	32.2	R f 0.4	f 7.8	f 0.2	12.7	R f 54.1	25.9	R f 80.0
1991	0.9	0.0	2.5	4.0	(s)	0.2	0.1	0.8	11.3	R 11.0	R 30.0	R 0.5	7.7	0.3	12.9	R 52.2	22.2	R 74.4
1992	1.2	0.0	2.9	3.5	(s)	0.5	0.1	0.8	8.6	R 13.4	29.7	R 0.5	8.1	0.3	13.0	R 52.9	19.8	R 72.7
1993	1.8	0.0	2.9	2.6	(s)	2.8	0.1	1.3	6.7	R 12.3	28.7	R 0.4	8.0	3.5	12.9	R 55.3	15.9	R 71.3
1994	1.8	0.0	2.7	2.0	(s)	5.5	0.1	1.3	7.6	13.4	32.5	1.3	7.9	4.2	12.9	60.7	14.5	75.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Hawaii

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	0	0	2,640	247	4,321	2	19	3,290	968	11,487	0	0	–	0	–
1965	0	0	613	844	7,618	4	73	3,947	1,195	14,294	0	0	–	0	–
1970	0	0	133	722	14,273	26	68	5,508	1,744	22,473	0	0	–	0	–
1971	0	0	141	821	16,302	20	60	5,732	1,791	24,867	0	0	–	0	–
1972	0	0	143	723	16,244	21	64	6,043	1,284	24,522	0	0	–	0	–
1973	0	0	132	743	16,511	20	64	6,451	1,376	25,296	0	0	–	0	–
1974	0	0	123	925	14,887	23	61	6,412	775	23,206	0	0	–	0	–
1975	0	0	116	831	14,849	22	74	6,615	1,013	23,520	0	0	–	0	–
1976	0	0	130	1,248	14,202	20	83	6,883	1,144	23,710	0	0	–	0	–
1977	0	0	147	1,552	14,875	22	74	7,257	1,477	25,405	0	0	–	0	–
1978	0	0	141	1,801	14,861	39	80	7,479	1,580	25,980	0	0	–	0	–
1979	0	0	152	3,887	15,276	9	84	7,358	1,248	28,013	0	0	–	0	–
1980	0	0	199	3,331	14,116	26	74	7,129	1,441	26,317	0	0	–	0	–
1981	0	0	183	3,683	10,028	56	71	7,075	1,231	22,326	0	0	–	0	–
1982	0	0	137	2,589	7,472	41	65	7,151	1,060	18,516	0	0	–	0	–
1983	0	0	156	1,248	11,271	47	68	7,153	1,461	21,403	0	0	–	0	–
1984	0	0	146	1,388	12,946	8	73	7,433	1,320	23,312	0	0	–	0	–
1985	0	0	155	3,253	13,260	6	68	7,441	1,526	25,709	0	0	–	0	–
1986	0	0	279	3,038	10,176	5	66	7,730	1,557	22,851	0	0	–	0	–
1987	0	0	249	1,729	11,481	6	75	8,015	1,082	22,636	0	0	–	0	–
1988	0	0	281	3,267	11,972	9	72	8,324	1,634	25,559	0	0	–	0	–
1989	0	0	287	3,279	13,239	9	74	8,569	2,235	27,693	0	0	–	0	–
1990	0	0	272	3,870	12,646	13	76	8,429	2,694	28,000	[e]0	0	–	0	–
1991	0	0	261	4,224	11,123	14	68	8,769	2,609	27,069	0	0	–	0	–
1992	0	0	243	2,597	9,993	36	69	8,676	3,799	25,412	0	0	–	0	–
1993	0	0	198	2,017	8,891	9	71	8,805	2,689	22,680	0	0	–	0	–
1994	0	0	210	2,362	9,472	14	74	9,091	2,980	24,204	0	0	–	0	–
			Trillion Btu												
1960	0.0	0.0	13.3	1.4	23.5	(s)	0.1	17.3	6.1	61.8	0.0	0.0	61.8	0.0	61.8
1965	0.0	0.0	3.1	4.9	42.3	(s)	0.4	20.7	7.5	79.0	0.0	0.0	79.0	0.0	79.0
1970	0.0	0.0	0.7	4.2	80.1	0.1	0.4	28.9	11.0	125.3	0.0	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	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	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	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	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	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	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	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	0.0	144.6	0.0	144.6
1979	0.0	0.0	0.8	22.6	85.9	(s)	0.5	38.6	7.8	156.4	0.0	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	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	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	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	0.0	117.9	0.0	117.9
1984	0.0	0.0	0.7	8.1	72.6	(s)	0.4	39.0	8.3	129.3	0.0	0.0	129.3	0.0	129.3
1985	0.0	0.0	0.8	18.9	74.4	(s)	0.4	39.1	9.6	143.3	0.0	0.0	143.3	0.0	143.3
1986	0.0	0.0	1.4	17.7	57.0	(s)	0.4	40.6	9.8	126.9	0.0	0.0	126.9	0.0	126.9
1987	0.0	0.0	1.3	10.1	64.4	(s)	0.5	42.1	6.8	125.1	0.0	0.0	125.1	0.0	125.1
1988	0.0	0.0	1.4	19.0	67.2	(s)	0.4	43.7	10.3	142.1	0.0	0.0	142.1	0.0	142.1
1989	0.0	0.0	1.4	19.1	74.4	(s)	0.4	45.0	14.1	154.5	0.0	0.0	154.5	0.0	154.5
1990	0.0	0.0	1.4	22.5	71.1	(s)	0.5	44.3	16.9	156.7	[e]0.0	0.0	[e]156.7	0.0	[e]156.7
1991	0.0	0.0	1.3	24.6	62.6	(s)	0.4	46.1	16.4	151.4	0.0	0.0	151.4	0.0	151.4
1992	0.0	0.0	1.2	15.1	56.5	0.1	0.4	45.6	23.9	142.9	0.0	0.0	142.9	0.0	142.9
1993	0.0	0.0	1.0	11.7	50.4	(s)	0.4	46.3	16.9	126.8	0.0	0.0	126.8	0.0	126.8
1994	0.0	0.0	1.1	13.8	53.7	0.1	0.4	47.8	18.7	135.5	0.0	0.0	135.5	0.0	135.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Hawaii

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	0	0	0	0	4,292	61	0	4,353	0	22	0	0	0	–
1970	0	0	0	0	6,702	96	0	6,798	0	22	24	0	0	–
1971	0	0	0	0	7,438	101	0	7,540	0	21	15	0	0	–
1972	0	0	0	0	8,289	267	0	8,556	0	22	18	0	0	–
1973	0	0	0	0	8,539	246	0	8,786	0	20	22	0	0	–
1974	0	0	0	0	8,733	352	0	9,085	0	18	30	0	0	–
1975	0	0	0	0	8,880	429	0	9,309	0	18	25	0	0	–
1976	0	0	0	0	9,440	447	0	9,887	0	22	29	0	0	–
1977	0	0	0	0	9,791	549	0	10,340	0	20	26	0	0	–
1978	0	0	0	0	9,867	776	0	10,643	0	20	0	0	0	–
1979	0	0	0	0	9,999	795	0	10,795	0	21	0	0	0	–
1980	0	0	0	0	10,239	888	0	11,127	0	20	0	0	0	–
1981	0	0	0	0	10,348	779	0	11,127	0	14	15	0	0	–
1982	0	0	0	0	9,990	605	0	10,595	0	23	26	0	0	–
1983	0	0	0	0	10,229	647	0	10,876	0	17	28	0	0	–
1984	0	0	0	0	10,320	826	0	11,147	0	15	28	21	0	–
1985	0	0	0	0	10,295	752	0	11,047	0	19	25	19	0	–
1986	0	0	0	0	10,751	824	0	11,575	0	12	0	18	0	–
1987	0	0	0	0	11,127	1,069	0	12,196	0	15	0	13	0	–
1988	0	0	0	0	11,771	1,274	0	13,044	0	14	0	16	0	–
1989	0	0	0	0	12,255	1,396	0	13,651	0	22	11	14	0	–
1990	0	0	0	0	12,138	1,632	0	13,769	0	23	6	0	0	–
1991	0	0	0	0	10,986	1,710	0	12,696	0	20	0	0	0	–
1992	0	0	0	0	10,037	1,952	0	11,989	0	10	0	0	0	–
1993	0	0	0	0	8,568	2,088	0	10,656	0	14	0	0	0	–
1994	0	0	0	0	8,310	2,100	0	10,409	0	19	0	0	0	–
	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	0.0	17.6
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	0.0	27.6
1970	0.0	0.0	0.0	0.0	42.1	0.6	0.0	42.7	0.0	0.2	0.3	0.0	0.0	43.2
1971	0.0	0.0	0.0	0.0	46.8	0.6	0.0	47.4	0.0	0.2	0.2	0.0	0.0	47.7
1972	0.0	0.0	0.0	0.0	52.1	1.6	0.0	53.7	0.0	0.2	0.2	0.0	0.0	54.1
1973	0.0	0.0	0.0	0.0	53.7	1.4	0.0	55.1	0.0	0.2	0.2	0.0	0.0	55.6
1974	0.0	0.0	0.0	0.0	54.9	2.1	0.0	57.0	0.0	0.2	0.3	0.0	0.0	57.5
1975	0.0	0.0	0.0	0.0	55.8	2.5	0.0	58.3	0.0	0.2	0.3	0.0	0.0	58.8
1976	0.0	0.0	0.0	0.0	59.3	2.6	0.0	62.0	0.0	0.2	0.3	0.0	0.0	62.5
1977	0.0	0.0	0.0	0.0	61.6	3.2	0.0	64.8	0.0	0.2	0.3	0.0	0.0	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	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	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	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	0.2	0.0	0.0	69.9
1982	0.0	0.0	0.0	0.0	62.8	3.5	0.0	66.3	0.0	0.2	0.3	0.0	0.0	66.9
1983	0.0	0.0	0.0	0.0	64.3	3.8	0.0	68.1	0.0	0.2	0.3	0.0	0.0	68.6
1984	0.0	0.0	0.0	0.0	64.9	4.8	0.0	69.7	0.0	0.2	0.3	0.4	0.0	70.6
1985	0.0	0.0	0.0	0.0	64.7	4.4	0.0	69.1	0.0	0.2	0.3	0.4	0.0	70.0
1986	0.0	0.0	0.0	0.0	67.6	4.8	0.0	72.4	0.0	0.1	0.0	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	0.0	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	0.0	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	0.3	0.0	85.8
1990	0.0	0.0	0.0	0.0	76.3	9.5	0.0	85.8	0.0	0.2	0.1	0.0	0.0	86.1
1991	0.0	0.0	0.0	0.0	69.1	10.0	0.0	79.0	0.0	0.2	0.0	0.0	0.0	79.2
1992	0.0	0.0	0.0	0.0	63.1	11.4	0.0	74.5	0.0	0.1	0.0	0.0	0.0	74.6
1993	0.0	0.0	0.0	0.0	53.9	12.2	0.0	66.0	0.0	0.1	0.0	0.0	0.0	66.2
1994	0.0	0.0	0.0	0.0	52.2	12.2	0.0	64.5	0.0	0.2	0.0	0.0	0.0	64.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Idaho

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	699	22	491	133	4,072	899	107	455	147	6,965	205	9	13,484	0	6,165	0	0	-5	–
1965	673	34	710	177	4,803	870	521	560	160	7,654	356	8	15,819	0	6,640	0	0	4,753	–
1970	353	47	1,147	154	5,600	960	230	1,057	151	9,684	277	17	19,278	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	673	178	10,528	63	0	18,976	0	13,195	0	0	13,227	–
1985	486	39	632	80	5,584	1,122	7	778	166	10,669	86	0	19,123	0	10,919	0	0	21,495	–
1986	466	35	544	87	5,907	1,117	8	735	162	10,894	20	0	19,473	0	12,153	0	0	14,906	–
1987	494	37	499	76	6,385	1,154	9	621	183	10,702	64	0	19,695	0	8,146	0	0	28,030	–
1988	524	41	402	52	6,507	1,178	10	747	177	11,219	56	0	20,348	0	6,846	0	0	35,257	–
1989	533	46	831	55	6,865	1,239	4	839	181	11,297	45	0	21,355	0	8,955	0	0	30,702	–
1990	549	46	1,281	39	7,173	1,143	9	610	186	11,387	47	0	21,876	0	R [i] NA	[i] NA	[i] NA	R 30,964	–
1991	673	51	988	39	8,508	957	4	814	167	11,606	44	R 18	R 23,145	0	R NA	NA	NA	R 31,748	–
1992	535	49	1,465	1	7,187	973	2	669	170	11,949	22	R 19	R 22,458	0	R NA	NA	NA	R 39,900	–
1993	528	56	1,533	63	7,749	1,076	2	682	173	12,767	38	R 21	R 24,104	0	R NA	NA	NA	R 30,674	–
1994	534	57	1,798	54	8,086	1,201	6	645	181	12,932	21	21	24,945	0	NA	NA	NA	38,782	–
			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	0.1	73.7	0.0	66.3	0.0	0.0	(s)	179.7
1965	15.9	36.1	4.7	0.9	28.0	4.7	3.0	2.2	1.0	40.2	2.2	(s)	86.9	0.0	69.4	0.0	0.0	16.2	224.5
1970	7.9	49.4	7.6	0.8	32.6	5.2	1.3	4.0	0.9	50.9	1.7	0.1	105.1	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	2.4	1.1	55.3	0.4	0.0	103.0	0.0	137.8	0.0	0.0	45.1	335.2
1985	8.9	41.1	4.2	0.4	32.5	6.1	(s)	2.8	1.0	56.0	0.5	0.0	103.6	0.0	114.1	0.0	0.0	73.3	341.0
1986	8.6	35.5	3.6	0.4	34.4	6.1	(s)	2.7	1.0	57.2	0.1	0.0	105.6	0.0	126.9	0.0	0.0	50.9	327.5
1987	8.9	37.8	3.3	0.4	37.2	6.3	0.1	2.3	1.1	58.2	0.4	0.0	107.3	0.0	84.9	0.0	0.0	95.6	334.4
1988	9.7	41.6	2.7	0.3	37.9	6.4	0.1	2.7	1.1	58.9	0.4	0.0	110.4	0.0	70.7	0.0	0.0	120.3	352.6
1989	9.8	46.9	5.5	0.3	40.0	6.8	(s)	3.1	1.1	59.3	0.3	0.0	116.4	0.0	92.4	0.0	0.0	104.8	370.2
1990	10.1	46.8	8.5	0.2	41.8	6.3	0.1	2.2	1.1	59.8	0.3	0.0	120.3	0.0	R [i] 93.3	[i] 18.2	[i] (s)	105.6	R [i] 394.4
1991	12.3	52.7	6.6	0.2	49.6	5.3	(s)	2.9	1.0	61.0	0.3	R 0.1	R 126.9	0.0	R 90.3	18.2	(s)	108.3	R 409.1
1992	9.6	50.4	9.7	(s)	41.9	5.3	(s)	2.4	1.0	62.8	0.1	R 0.1	R 123.4	0.0	R 70.6	19.2	(s)	136.1	R 410.0
1993	9.8	58.3	10.2	0.3	45.1	5.9	(s)	2.5	1.0	67.1	0.2	R 0.1	R 132.5	0.0	R 101.0	19.2	(s)	R 104.7	R 425.7
1994	9.7	59.1	11.9	0.3	47.1	6.6	(s)	2.3	1.1	67.9	0.1	0.1	137.6	0.0	82.6	19.3	(s)	132.3	441.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[i] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Idaho

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	166	0	166	2	663	0	314	977	0	0	1,463	–	3,639	–
1965	123	0	123	5	708	0	348	1,056	0	0	1,779	–	4,247	–
1970	63	0	63	8	837	0	711	1,548	0	0	2,354	–	5,706	–
1971	104	0	104	8	839	0	789	1,628	0	0	2,602	–	6,290	–
1972	66	0	66	11	834	0	919	1,753	0	0	2,845	–	6,848	–
1973	74	0	74	10	871	0	813	1,684	0	0	3,100	–	7,423	–
1974	65	0	65	10	881	0	786	1,667	0	0	3,346	–	8,159	–
1975	66	0	66	14	972	0	712	1,684	0	0	3,870	–	9,336	–
1976	73	0	73	13	944	0	745	1,689	0	0	4,169	–	10,042	–
1977	78	0	78	12	966	0	698	1,664	0	0	4,456	–	10,761	–
1978	77	0	77	8	1,080	0	724	1,804	0	0	4,502	–	11,014	–
1979	55	0	55	9	895	0	371	1,266	0	0	5,048	–	12,182	–
1980	40	0	40	7	485	0	316	801	0	0	4,936	–	12,003	–
1981	29	0	29	7	423	0	292	715	0	0	5,148	–	12,269	–
1982	25	0	25	7	276	0	325	601	0	0	5,499	–	13,208	–
1983	29	0	29	7	587	3	398	988	0	0	5,212	–	12,487	–
1984	30	0	30	7	599	4	257	860	0	0	5,710	–	13,291	–
1985	16	0	16	8	635	1	328	964	0	0	5,780	–	13,580	–
1986	13	0	13	7	634	5	288	927	0	0	5,433	–	12,497	–
1987	8	0	8	7	575	7	251	832	0	0	5,209	–	11,901	–
1988	27	0	27	8	615	7	326	948	0	0	5,449	–	12,319	–
1989	28	(s)	28	9	558	2	399	960	0	0	5,713	–	12,812	–
1990	21	0	21	9	530	5	318	853	[e] 102	[e] (s)	5,626	–	R 12,295	–
1991	24	0	24	10	704	2	373	1,078	108	(s)	5,971	–	R 12,982	–
1992	18	0	18	10	570	2	297	869	113	(s)	5,739	–	R 12,251	–
1993	15	0	15	13	619	2	328	948	109	(s)	6,245	–	R 13,189	–
1994	14	(s)	14	12	524	2	307	833	107	(s)	6,222	–	12,975	–
	Trillion Btu													
1960	4.1	0.0	4.1	2.3	3.9	0.0	1.3	5.1	0.0	0.0	5.0	16.5	12.4	28.9
1965	3.0	0.0	3.0	5.2	4.1	0.0	1.4	5.5	0.0	0.0	6.1	19.8	14.5	34.3
1970	1.5	0.0	1.5	8.2	4.9	0.0	2.7	7.6	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	18.8	29.5	45.1	74.5
1983	0.6	0.0	0.6	6.8	3.4	(s)	1.4	4.9	0.0	0.0	17.8	30.1	42.6	72.7
1984	0.7	0.0	0.7	7.7	3.5	(s)	0.9	4.4	0.0	0.0	19.5	32.2	45.3	77.6
1985	0.4	0.0	0.4	8.1	3.7	(s)	1.2	4.9	0.0	0.0	19.7	33.1	46.3	79.5
1986	0.3	0.0	0.3	7.4	3.7	(s)	1.0	4.8	0.0	0.0	18.5	31.0	42.6	73.7
1987	0.2	0.0	0.2	7.1	3.3	(s)	0.9	4.3	0.0	0.0	17.8	29.4	40.6	70.0
1988	0.6	0.0	0.6	7.8	3.6	(s)	1.2	4.8	0.0	0.0	18.6	31.8	42.0	73.9
1989	0.6	(s)	0.6	9.0	3.3	(s)	1.5	4.7	0.0	0.0	19.5	33.9	43.7	77.6
1990	0.5	0.0	0.5	8.8	3.1	(s)	1.2	4.3	[e] 2.0	[e] (s)	19.2	R [e] 34.8	41.9	R [e] 76.7
1991	0.5	0.0	0.5	10.6	4.1	(s)	1.3	5.5	2.2	(s)	20.4	R 39.1	44.3	R 83.4
1992	0.4	0.0	0.4	9.9	3.3	(s)	1.1	4.4	2.3	(s)	19.6	R 36.6	41.8	R 78.4
1993	0.3	0.0	0.3	13.0	3.6	(s)	1.2	4.8	2.2	(s)	21.3	R 41.7	45.0	R 86.7
1994	0.3	(s)	0.3	12.8	3.1	(s)	1.1	4.2	2.1	(s)	21.2	40.6	44.3	84.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Idaho

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	228	0	228	5	248	500	61	52	0	862	1,290	–	3,079	–
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	45	264	12	731	4,204	–	9,785	–
1985	30	0	30	9	366	3	58	134	25	586	4,592	–	10,789	–
1986	24	0	24	9	285	2	51	136	3	476	4,435	–	10,202	–
1987	15	0	15	8	422	2	44	140	10	619	4,611	–	10,535	–
1988	49	0	49	8	431	1	57	377	7	873	4,909	–	11,098	–
1989	52	(s)	52	9	348	(s)	70	356	26	802	4,965	–	11,134	–
1990	39	0	39	9	340	1	56	147	19	564	5,212	–	R 11,389	–
1991	44	0	44	10	434	(s)	66	345	1	846	5,166	–	R 11,231	–
1992	33	0	33	9	414	(s)	52	312	14	793	5,718	–	R 12,208	–
1993	28	0	28	11	339	(s)	58	38	30	464	5,253	–	R 11,093	–
1994	26	(s)	26	10	441	2	54	38	7	542	6,010	–	12,534	–
	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
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
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	(s)	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	(s)	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	(s)	0.2	1.4	0.1	4.0	14.3	28.4	33.4	61.8
1985	0.7	0.0	0.7	9.4	2.1	(s)	0.2	0.7	0.2	3.2	15.7	29.0	36.8	65.8
1986	0.5	0.0	0.5	8.7	1.7	(s)	0.2	0.7	(s)	2.6	15.1	27.0	34.8	61.8
1987	0.3	0.0	0.3	7.7	2.5	(s)	0.2	0.7	0.1	3.4	15.7	27.3	35.9	63.2
1988	1.1	0.0	1.1	8.4	2.5	(s)	0.2	2.0	(s)	4.8	16.7	31.0	37.9	68.9
1989	1.1	(s)	1.1	9.3	2.0	(s)	0.3	1.9	0.2	4.3	16.9	31.7	38.0	69.7
1990	0.9	0.0	0.9	8.8	2.0	(s)	0.2	0.8	0.1	3.1	17.6	30.5	R 38.9	69.4
1991	1.0	0.0	1.0	9.9	2.5	(s)	0.2	1.8	(s)	4.6	17.6	33.1	38.3	71.4
1992	0.7	0.0	0.7	9.2	2.4	(s)	0.2	1.6	0.1	4.3	19.5	33.8	R 41.7	75.4
1993	0.6	0.0	0.6	11.1	2.0	(s)	0.2	0.2	0.2	2.6	17.9	32.2	R 37.9	70.0
1994	0.6	(s)	0.6	10.5	2.6	(s)	0.2	0.2	(s)	3.0	20.5	34.6	42.8	77.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Idaho

Year	Coal	Natural Gas [a]	Petroleum									Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	222	17	491	2,529	5	79	19	930	153	9	4,217	(s)	0	0	2,849	–	7,087	–
1965	321	23	710	2,768	21	146	32	859	301	8	4,846	(s)	0	0	4,340	–	10,361	–
1970	171	29	1,147	3,206	114	212	32	626	275	17	5,630	0	0	0	6,052	–	14,665	–
1971	248	28	1,038	3,212	113	230	32	822	282	0	5,729	0	0	0	6,110	–	14,771	–
1972	294	30	1,228	3,274	125	304	34	542	244	0	5,751	0	0	0	6,654	–	16,016	–
1973	273	32	1,112	3,463	92	222	38	940	241	0	6,108	0	0	0	6,246	–	14,953	–
1974	344	31	936	3,604	92	292	37	678	587	0	6,226	0	0	0	6,643	–	16,196	–
1975	459	30	880	3,935	64	325	44	801	684	0	6,734	0	0	0	5,112	–	12,331	–
1976	562	21	867	4,024	85	376	49	541	771	0	6,713	0	0	0	5,303	–	12,773	–
1977	386	20	890	4,143	97	359	44	661	690	0	6,884	0	0	0	4,916	–	11,871	–
1978	379	26	955	4,271	96	462	47	585	906	0	7,322	0	0	0	4,683	–	11,457	–
1979	471	34	833	3,055	108	677	49	454	323	0	5,501	0	0	0	4,603	–	11,109	–
1980	401	32	797	2,209	0	598	44	639	126	0	4,413	0	0	0	4,798	–	11,667	–
1981	452	29	537	2,198	17	492	42	405	26	0	3,717	0	0	0	6,567	–	15,650	–
1982	502	24	540	1,438	23	572	38	391	198	0	3,200	0	0	0	5,979	–	14,362	–
1983	434	20	662	2,108	3	526	40	298	84	0	3,721	0	0	0	6,270	–	15,023	–
1984	406	19	474	2,153	3	286	43	443	52	0	3,453	0	0	0	6,195	–	14,419	–
1985	439	19	632	1,751	2	333	40	511	61	0	3,330	0	0	0	6,029	–	14,165	–
1986	429	16	544	2,133	1	331	39	488	17	0	3,554	0	0	0	5,923	–	13,625	–
1987	470	19	499	2,394	1	291	44	432	54	0	3,715	0	0	0	6,286	–	14,364	–
1988	448	21	402	2,458	1	324	43	408	50	0	3,684	0	0	0	6,807	–	15,389	–
1989	452	23	831	2,673	1	328	44	433	19	0	4,328	0	0	0	7,143	–	16,020	–
1990	489	23	1,281	2,726	3	187	45	350	28	0	4,621	[f]NA	[f]NA	[f]NA	7,165	–	[R]15,657	–
1991	604	27	988	3,744	2	336	40	439	43	[R]18	[R]5,611	[R]NA	NA	NA	6,909	–	[R]15,021	–
1992	484	27	1,465	2,458	1	284	41	388	8	[R]19	[R]4,664	[R]NA	NA	NA	7,551	–	[R]16,120	–
1993	486	29	1,533	2,289	1	262	42	338	8	[R]21	[R]4,494	[R]NA	NA	NA	7,222	–	[R]15,252	–
1994	494	30	1,798	2,522	1	234	44	379	14	21	5,013	NA	NA	NA	7,647	–	15,947	–
			Trillion Btu															
1960	5.0	17.1	3.3	14.7	(s)	0.3	0.1	4.9	1.0	0.1	24.4	(s)	0.0	0.0	9.7	56.2	24.2	80.4
1965	7.2	24.4	4.7	16.1	0.1	0.6	0.2	4.5	1.9	(s)	28.2	(s)	0.0	0.0	14.8	74.5	35.4	109.9
1970	3.6	30.6	7.6	18.7	0.6	0.8	0.2	3.3	1.7	0.1	33.0	0.0	0.0	0.0	20.6	87.9	50.0	137.9
1971	5.1	30.0	6.9	18.7	0.6	0.9	0.2	4.3	1.8	0.0	33.4	0.0	0.0	0.0	20.8	89.4	50.4	139.8
1972	6.1	32.2	8.1	19.1	0.7	1.1	0.2	2.8	1.5	0.0	33.7	0.0	0.0	0.0	22.7	94.6	54.6	149.2
1973	5.7	33.9	7.4	20.2	0.5	0.8	0.2	4.9	1.5	0.0	35.6	0.0	0.0	0.0	21.3	96.5	51.0	147.5
1974	7.1	32.6	6.2	21.0	0.5	1.1	0.2	3.6	3.7	0.0	36.3	0.0	0.0	0.0	22.7	98.7	55.3	153.9
1975	9.1	31.6	5.8	22.9	0.4	1.2	0.3	4.2	4.3	0.0	39.1	0.0	0.0	0.0	17.4	97.3	42.1	139.4
1976	10.7	22.4	5.8	23.4	0.5	1.4	0.3	2.8	4.8	0.0	39.1	0.0	0.0	0.0	18.1	90.2	43.6	133.8
1977	7.3	21.2	5.9	24.1	0.6	1.3	0.3	3.5	4.3	0.0	40.0	0.0	0.0	0.0	16.8	85.3	40.5	125.8
1978	7.0	27.9	6.3	24.9	0.5	1.7	0.3	3.1	5.7	0.0	42.5	0.0	0.0	0.0	16.0	93.3	39.1	132.4
1979	8.9	35.2	5.5	17.8	0.6	2.5	0.3	2.4	2.0	0.0	31.1	0.0	0.0	0.0	15.7	90.9	37.9	128.8
1980	7.1	33.3	5.3	12.9	0.0	2.2	0.3	3.4	0.8	0.0	24.8	0.0	0.0	0.0	16.4	81.6	39.8	121.4
1981	8.0	30.9	3.6	12.8	0.1	1.8	0.3	2.1	0.2	0.0	20.8	0.0	0.0	0.0	22.4	82.1	53.4	135.5
1982	8.8	26.0	3.6	8.4	0.1	2.1	0.2	2.1	1.2	0.0	17.7	0.0	0.0	0.0	20.4	72.9	49.0	121.9
1983	7.6	21.1	4.4	12.3	(s)	1.9	0.2	1.6	0.5	0.0	20.9	0.0	0.0	0.0	21.4	71.0	51.3	122.3
1984	7.1	20.0	3.1	12.5	(s)	1.0	0.3	2.3	0.3	0.0	19.6	0.0	0.0	0.0	21.1	67.9	49.2	117.1
1985	7.8	20.4	4.2	10.2	(s)	1.2	0.2	2.7	0.4	0.0	18.9	0.0	0.0	0.0	20.6	67.7	48.3	116.0
1986	7.8	16.6	3.6	12.4	(s)	1.2	0.2	2.6	0.1	0.0	20.2	0.0	0.0	0.0	20.2	64.8	46.5	111.2
1987	8.3	19.3	3.3	13.9	(s)	1.1	0.3	2.3	0.3	0.0	21.2	0.0	0.0	0.0	21.4	70.3	49.0	119.3
1988	8.0	21.1	2.7	14.3	(s)	1.2	0.3	2.1	0.3	0.0	20.9	0.0	0.0	0.0	23.2	73.2	52.5	125.7
1989	8.0	23.5	5.5	15.6	(s)	1.2	0.3	2.3	0.1	0.0	25.0	0.0	0.0	0.0	24.4	80.9	54.7	135.5
1990	8.7	24.0	8.5	15.9	(s)	0.7	0.3	1.8	0.2	0.0	27.4	[f]3.5	[f]16.1	[f]0.0	24.4	[f]104.1	53.4	[f]157.5
1991	10.7	27.5	6.6	21.8	(s)	1.2	0.2	2.3	0.3	[R]0.1	[R]32.5	[R]3.5	16.1	0.0	23.6	[R]113.9	[R]51.3	[R]165.2
1992	8.5	27.9	9.7	14.3	(s)	1.0	0.2	2.0	(s)	[R]0.1	[R]27.5	[R]4.1	16.9	0.0	25.8	[R]110.6	55.0	[R]165.6
1993	8.8	30.3	10.2	13.3	(s)	0.9	0.3	1.8	0.1	[R]0.1	[R]26.7	[R]7.2	17.0	0.0	24.6	[R]114.5	52.0	[R]166.6
1994	8.8	30.9	11.9	14.7	(s)	0.9	0.3	2.0	0.1	0.1	29.9	6.4	17.1	0.0	26.1	119.2	54.4	173.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Idaho

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	4	(s)	133	648	899	7	127	5,990	52	7,856	0	0	–	0	–
1965	1	1	177	1,079	870	4	128	6,743	55	9,055	0	0	–	0	–
1970	(s)	4	154	1,263	960	9	119	8,993	2	11,500	0	0	–	0	–
1971	(s)	5	143	1,362	1,007	13	121	9,130	0	11,775	0	0	–	0	–
1972	(s)	5	152	1,551	985	21	129	9,956	0	12,793	0	0	–	0	–
1973	(s)	5	161	1,840	943	17	142	10,029	0	13,131	0	0	–	0	–
1974	(s)	4	152	2,248	985	19	136	9,932	0	13,470	0	0	–	0	–
1975	(s)	4	120	2,306	950	21	119	10,396	0	13,912	0	0	–	0	–
1976	(s)	5	131	2,172	978	21	132	11,402	0	14,835	0	0	–	0	–
1977	(s)	5	133	2,721	980	28	138	11,493	0	15,493	0	0	–	0	–
1978	0	4	163	2,841	1,013	33	148	12,259	0	16,457	0	0	–	0	–
1979	0	4	155	3,492	1,135	28	155	11,604	898	17,468	0	0	–	0	–
1980	0	4	162	2,750	1,243	23	138	10,339	0	14,655	0	0	–	0	–
1981	0	4	121	2,021	1,223	43	132	9,988	0	13,529	0	0	–	0	–
1982	0	3	83	2,300	1,044	75	121	9,753	0	13,377	0	0	–	0	–
1983	0	3	73	2,144	959	73	126	9,969	0	13,345	0	0	–	0	–
1984	0	4	55	2,745	1,089	85	135	9,821	0	13,931	0	0	–	0	–
1985	0	3	80	2,830	1,122	59	126	10,024	0	14,241	0	0	–	0	–
1986	0	3	87	2,854	1,117	65	123	10,270	0	14,515	0	0	–	0	–
1987	0	4	76	2,994	1,154	35	139	10,131	0	14,529	0	0	–	0	–
1988	0	4	52	3,001	1,178	41	134	10,434	0	14,841	0	0	–	0	–
1989	0	5	55	3,281	1,239	41	137	10,508	0	15,261	0	0	–	0	–
1990	0	5	39	3,575	1,143	48	141	10,889	0	15,836	[e]462	0	–	0	–
1991	0	5	39	3,626	957	40	126	10,822	0	15,610	366	0	–	0	–
1992	0	3	1	3,743	973	36	129	11,249	0	16,131	445	0	–	0	–
1993	0	4	63	4,503	1,076	34	131	12,390	0	18,197	497	0	–	0	–
1994	0	5	54	4,598	1,201	50	137	12,516	0	18,557	551	0	–	0	–
			Trillion Btu												
1960	0.1	0.5	0.7	3.8	4.8	(s)	0.8	31.5	0.3	41.9	0.0	0.0	42.5	0.0	42.5
1965	(s)	1.1	0.9	6.3	4.7	(s)	0.8	35.4	0.3	48.4	0.0	0.0	49.6	0.0	49.6
1970	(s)	4.5	0.8	7.4	5.2	(s)	0.7	47.2	(s)	61.3	0.0	0.0	65.8	0.0	65.8
1971	(s)	5.4	0.7	7.9	5.5	(s)	0.7	48.0	0.0	62.8	0.0	0.0	68.3	0.0	68.3
1972	(s)	5.0	0.8	9.0	5.3	0.1	0.8	52.3	0.0	68.3	0.0	0.0	73.3	0.0	73.3
1973	(s)	4.9	0.8	10.7	5.1	0.1	0.9	52.7	0.0	70.3	0.0	0.0	75.2	0.0	75.2
1974	(s)	4.1	0.8	13.1	5.4	0.1	0.8	52.2	0.0	72.3	0.0	0.0	76.4	0.0	76.4
1975	(s)	4.5	0.6	13.4	5.2	0.1	0.7	54.6	0.0	74.6	0.0	0.0	79.1	0.0	79.1
1976	(s)	4.9	0.7	12.6	5.3	0.1	0.8	59.9	0.0	79.4	0.0	0.0	84.3	0.0	84.3
1977	(s)	4.9	0.7	15.8	5.4	0.1	0.8	60.4	0.0	83.2	0.0	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	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	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	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	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	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	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	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	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	78.1	0.0	0.0	80.8	0.0	80.8
1987	0.0	3.6	0.4	17.4	6.3	0.1	0.8	53.2	0.0	78.3	0.0	0.0	82.0	0.0	82.0
1988	0.0	4.2	0.3	17.5	6.4	0.1	0.8	54.8	0.0	80.0	0.0	0.0	84.1	0.0	84.1
1989	0.0	5.1	0.3	19.1	6.8	0.2	0.8	55.2	0.0	82.4	0.0	0.0	87.4	0.0	87.4
1990	0.0	5.2	0.2	20.8	6.3	0.2	0.9	57.2	0.0	85.5	[e](s)	0.0	[e]90.8	0.0	[e]90.8
1991	0.0	4.7	0.2	21.1	5.3	0.1	0.8	56.8	0.0	84.3	(s)	0.0	89.1	0.0	89.1
1992	0.0	3.4	(s)	21.8	5.3	0.1	0.8	59.1	0.0	87.2	(s)	0.0	90.5	0.0	90.5
1993	0.0	3.9	0.3	26.2	5.9	0.1	0.8	65.1	0.0	98.5	(s)	0.0	102.4	0.0	102.4
1994	0.0	4.9	0.3	26.8	6.6	0.2	0.8	65.7	0.0	100.4	(s)	0.0	105.4	0.0	105.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Idaho

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	0	0	0	0	0	(s)	0	(s)	0	6,165	0	0	0	–
1965	0	0	0	0	0	(s)	0	(s)	0	6,640	0	0	0	–
1970	0	0	0	0	0	1	0	1	0	7,075	0	0	0	–
1971	0	0	0	0	0	2	0	2	0	7,468	0	0	0	–
1972	0	0	0	0	0	1	0	1	0	7,842	0	0	0	–
1973	0	0	0	0	0	1	0	1	0	8,277	0	0	0	–
1974	0	0	0	(s)	0	7	0	7	0	9,685	0	0	0	–
1975	0	0	0	(s)	0	5	0	5	0	10,274	0	0	0	–
1976	0	0	0	(s)	0	3	0	3	0	10,372	0	0	0	–
1977	0	0	0	1	0	1	0	1	0	6,749	0	0	0	–
1978	0	0	0	(s)	0	5	0	5	0	9,871	0	0	0	–
1979	0	0	0	(s)	0	1	0	1	0	9,165	0	0	0	–
1980	0	0	0	(s)	0	(s)	0	(s)	0	9,507	0	0	0	–
1981	0	0	0	(s)	0	(s)	0	(s)	0	9,507	0	0	0	–
1982	0	0	0	(s)	0	(s)	0	(s)	0	11,591	0	0	0	–
1983	0	0	0	(s)	0	(s)	0	(s)	0	12,771	0	0	0	–
1984	0	0	0	(s)	0	1	0	1	0	13,195	0	0	0	–
1985	0	0	0	(s)	0	1	0	1	0	10,919	0	0	0	–
1986	0	0	0	(s)	0	1	0	1	0	12,153	0	0	0	–
1987	0	0	0	(s)	0	(s)	0	(s)	0	8,146	0	0	0	–
1988	0	0	0	0	0	1	0	1	0	6,846	0	0	0	–
1989	0	0	0	0	0	4	0	4	0	8,955	0	0	0	–
1990	0	0	0	0	0	2	0	2	0	R 8,689	0	0	0	–
1991	0	0	0	0	0	1	0	1	0	R 8,385	0	0	0	–
1992	0	0	0	0	0	1	0	1	0	R 6,459	0	0	0	–
1993	0	0	0	0	0	(s)	0	(s)	0	R 9,124	0	0	0	–
1994	0	0	0	0	0	(s)	0	(s)	0	7,417	0	0	0	–
	Trillion Btu													
1960	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	66.3	0.0	0.0	0.0	66.3
1965	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	69.4	0.0	0.0	0.0	69.4
1970	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	74.2	0.0	0.0	0.0	74.3
1971	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	78.3	0.0	0.0	0.0	78.3
1972	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	81.4	0.0	0.0	0.0	81.4
1973	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	86.0	0.0	0.0	0.0	86.0
1974	0.0	0.0	0.0	0.1	0.0	(s)	0.0	(s)	0.0	101.1	0.0	0.0	0.0	101.2
1975	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	106.9	0.0	0.0	0.0	107.0
1976	0.0	0.0	0.0	0.1	0.0	(s)	0.0	(s)	0.0	107.6	0.0	0.0	0.0	107.7
1977	0.0	0.0	0.0	0.7	0.0	(s)	0.0	(s)	0.0	70.4	0.0	0.0	0.0	71.2
1978	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	102.3	0.0	0.0	0.0	102.3
1979	0.0	0.0	0.0	0.5	0.0	(s)	0.0	(s)	0.0	94.9	0.0	0.0	0.0	95.4
1980	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	98.8	0.0	0.0	0.0	98.8
1981	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	99.4	0.0	0.0	0.0	99.4
1982	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	121.2	0.0	0.0	0.0	121.2
1983	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	134.4	0.0	0.0	0.0	134.4
1984	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	137.8	0.0	0.0	0.0	137.8
1985	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	114.1	0.0	0.0	0.0	114.1
1986	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	126.9	0.0	0.0	0.0	127.0
1987	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	0.0	84.9	0.0	0.0	0.0	84.9
1988	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	70.7	0.0	0.0	0.0	70.7
1989	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	92.4	0.0	0.0	0.0	92.4
1990	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	R 89.8	0.0	0.0	0.0	90.0
1991	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	R 86.8	0.0	0.0	0.0	87.1
1992	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	R 66.5	0.0	0.0	0.0	67.2
1993	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	R 93.8	0.0	0.0	0.0	94.1
1994	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	76.2	0.0	0.0	0.0	77.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine-engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Illinois

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	12,578	198,061	254	185	0	0	-18,487	–
1965	44,715	757	9,751	383	41,011	12,176	5,337	18,763	2,616	88,769	23,091	18,923	220,821	965	175	3	0	-8,786	–
1970	42,136	1,174	12,651	264	44,495	22,644	3,583	28,481	3,255	107,084	27,949	22,957	273,365	2,514	166	(s)	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	21,933	274,769	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	26,191	303,683	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	28,531	314,822	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	28,283	304,621	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	27,915	301,883	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	28,256	313,216	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	29,000	320,753	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	30,692	333,904	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	30,836	319,536	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	29,427	274,245	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	20,959	244,990	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	19,225	224,496	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	20,991	228,832	28,021	134	0	0	15,602	–
1984	38,394	1,033	5,727	201	36,415	2,687	642	26,069	3,391	105,079	9,845	21,312	211,366	34,976	141	0	0	7,728	–
1985	37,706	962	7,502	212	32,189	2,748	755	27,168	3,160	111,087	6,508	20,048	211,377	39,106	136	0	0	6,167	–
1986	37,176	924	6,185	209	35,132	2,054	405	32,529	3,090	108,643	8,316	R23,855	R220,418	42,614	141	0	0	-223	–
1987	35,648	873	6,315	159	34,129	1,997	303	41,884	3,493	110,253	6,964	R25,707	R231,204	50,194	107	0	0	-3,412	–
1988	34,006	965	5,604	187	33,662	3,956	350	45,341	3,369	116,201	5,908	R28,476	R243,053	69,166	65	0	0	-31,788	–
1989	32,457	996	8,052	192	34,565	4,497	367	12,389	3,455	115,487	4,048	R28,341	R211,395	74,820	67	0	0	-48,202	–
1990	33,904	939	8,339	164	42,529	3,952	174	12,471	3,556	120,422	3,622	R30,916	R226,143	71,887	RNA	NA	NA	R-49,609	–
1991	34,677	988	7,917	176	36,149	6,437	203	14,539	3,181	104,347	3,454	R32,315	R208,718	71,866	RNA	NA	NA	R-43,095	–
1992	31,599	993	9,293	176	36,377	7,399	142	12,482	3,243	106,320	2,354	R36,324	R214,110	73,742	RNA	NA	NA	R-60,361	–
1993	38,135	1,031	6,310	231	38,385	9,170	176	R21,649	3,302	109,553	2,282	R35,075	R226,134	78,373	RNA	NA	NA	-62,215	–
1994	39,077	1,025	7,798	204	33,949	9,619	201	24,708	3,452	111,294	2,712	36,703	230,639	72,654	NA	NA	NA		–
			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	75.3	1,098.1	3.0	2.0	0.0	0.0	-63.1	2,490.8
1965	1,014.5	778.7	64.7	1.9	238.9	68.8	30.3	75.3	15.9	466.3	145.2	109.8	1,217.0	11.4	1.8	(s)	0.0	-30.0	2,993.4
1970	920.3	1,203.2	84.0	1.3	259.2	128.2	20.3	107.6	19.7	562.5	175.7	133.2	1,491.7	27.6	1.7	(s)	0.0	18.4	3,663.0
1971	843.8	1,260.0	75.6	1.2	288.4	136.0	18.3	109.4	19.5	568.9	150.3	127.5	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	152.8	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	166.7	1,714.4	218.6	1.3	0.0	0.0	-5.5	3,990.2
1974	874.9	1,175.8	71.2	0.6	306.9	142.5	18.6	132.1	22.2	608.4	185.1	165.1	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	165.1	1,686.8	292.2	1.3	0.0	0.0	-53.5	3,993.7
1977	860.6	1,199.8	73.5	0.5	332.1	153.6	8.1	145.0	21.0	655.3	172.1	169.4	1,730.6	307.4	1.4	0.0	0.0	-23.5	4,076.1
1978	841.6	1,196.4	76.9	0.1	345.3	153.7	10.4	144.8	22.6	685.7	186.3	178.9	1,804.6	360.2	1.3	0.0	0.0	-33.4	4,170.7
1979	845.4	1,170.6	71.6	0.1	283.5	137.8	5.2	190.6	23.7	625.7	183.4	178.9	1,700.4	298.8	1.3	0.0	0.0	-0.6	4,015.9
1980	844.5	1,113.7	53.7	0.7	213.8	111.3	3.4	142.6	21.1	572.9	177.7	170.1	1,467.3	302.6	1.4	0.0	0.0	13.8	3,743.3
1981	796.6	1,083.2	40.4	1.4	201.0	95.8	3.8	124.4	20.2	563.6	130.7	122.1	1,303.4	325.2	1.4	0.0	0.0	21.0	3,530.9
1982	778.5	1,016.1	32.3	1.1	189.7	94.2	2.5	97.1	18.4	552.5	97.2	112.5	1,197.5	305.9	1.3	0.0	0.0	48.9	3,348.1
1983	848.2	976.8	35.6	1.2	202.6	90.2	3.6	97.7	19.3	561.8	86.1	123.0	1,221.2	305.6	1.4	0.0	0.0	53.2	3,406.5
1984	833.2	1,074.1	38.0	1.0	212.1	15.0	3.6	93.8	20.6	552.0	61.9	122.4	1,120.5	379.2	1.5	0.0	0.0	26.4	3,434.8
1985	811.1	1,000.5	49.8	1.1	187.5	15.4	4.3	97.9	19.2	583.5	40.9	116.9	1,116.4	422.9	1.4	0.0	0.0	21.0	3,373.4
1986	804.2	943.7	41.0	1.1	204.6	11.5	2.3	118.4	18.7	570.7	52.3	R138.8	R1,159.5	460.2	1.5	0.0	0.0	-0.8	R3,368.3
1987	783.2	886.5	41.9	0.8	198.8	11.1	1.7	153.3	21.2	579.2	43.8	R148.1	R1,199.8	540.9	1.1	0.0	0.0	-11.6	R3,399.9
1988	745.2	982.8	37.2	0.9	196.1	22.2	2.0	165.6	20.4	610.4	37.1	R164.6	R1,256.6	743.1	0.7	0.0	0.0	-108.5	R3,619.8
1989	714.2	1,017.4	53.4	1.0	201.3	25.3	2.1	45.6	21.0	606.7	25.5	R163.0	R1,144.8	802.4	0.7	0.0	0.0	-164.5	R3,515.1
1990	747.9	960.1	55.3	0.8	247.7	22.3	1.0	45.2	21.6	632.6	22.8	R178.0	R1,227.2	767.8	R1.4	I59.5	I(s)	R-169.3	R3,583.4
1991	757.7	1,006.4	52.5	0.9	210.6	36.3	1.2	52.5	19.3	548.1	21.7	R185.3	R1,128.4	771.8	R1.3	58.8	(s)	R-133.8	R3,581.9
1992	692.5	1,011.3	61.7	0.9	211.9	41.8	0.8	45.2	19.7	558.5	14.8	R207.1	R1,162.3	787.4	R1.4	63.4	0.1	R-147.0	R3,560.6
1993	812.4	1,052.9	41.9	1.2	223.6	51.9	1.0	R78.1	20.0	575.5	14.3	R200.3	R1,207.8	837.2	R1.3	47.8	0.1	R-274.2	R3,673.3
1994	818.9	1,046.4	51.7	1.0	197.8	54.4	1.1	89.8	20.9	584.6	17.1	209.7	1,228.3	775.7	1.3	49.8	0.1	-212.3	3,694.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Illinois

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	2,229	4	2,233	232	15,330	2,052	5,192	22,574	0	0	9,969	–	24,797	–
1965	1,380	3	1,383	342	13,154	2,518	5,989	21,661	0	0	14,173	–	33,839	–
1970	768	2	770	439	11,980	1,336	8,616	21,932	0	0	22,533	–	54,604	–
1971	690	2	691	463	12,208	1,214	8,732	22,155	0	0	23,977	–	57,969	–
1972	473	1	475	488	12,769	1,716	9,675	24,159	0	0	25,462	–	61,287	–
1973	348	1	349	446	12,340	1,809	9,346	23,495	0	0	27,179	–	65,067	–
1974	364	1	365	462	12,006	1,419	8,933	22,358	0	0	26,880	–	65,540	–
1975	268	1	268	479	12,384	1,225	9,145	22,754	0	0	26,366	–	63,599	–
1976	323	1	324	508	14,727	571	9,828	25,126	0	0	26,308	–	63,372	–
1977	278	1	279	520	14,315	464	9,330	24,109	0	0	28,157	–	67,990	–
1978	291	1	291	521	15,171	740	9,153	25,064	0	0	29,096	–	71,183	–
1979	115	(s)	116	496	8,361	419	5,151	13,931	0	0	29,288	–	70,682	–
1980	65	1	65	478	3,512	161	4,051	7,724	0	0	29,930	–	72,780	–
1981	89	2	91	467	2,618	149	4,050	6,817	0	0	28,380	–	67,636	–
1982	122	1	122	459	2,667	335	3,992	6,994	0	0	28,600	–	68,693	–
1983	161	2	163	431	1,927	183	4,749	6,858	0	0	30,740	–	73,646	–
1984	158	1	159	480	2,081	328	3,304	5,712	0	0	30,431	–	70,832	–
1985	94	1	94	447	2,258	568	3,518	6,343	0	0	29,976	–	70,425	–
1986	94	0	94	437	2,196	202	3,027	5,425	0	0	30,965	–	71,228	–
1987	100	1	101	408	1,907	150	3,279	5,335	0	0	31,995	–	73,106	–
1988	94	1	94	462	2,122	217	3,049	5,387	0	0	33,980	–	76,821	–
1989	107	1	108	500	1,581	208	3,506	5,294	0	0	32,378	–	72,613	–
1990	92	1	93	442	1,200	101	3,209	4,510	[e] 1,608	[e] 13	32,871	–	R 71,830	–
1991	89	2	91	467	1,228	117	3,797	5,141	1,694	14	35,964	–	R 78,192	–
1992	98	1	99	475	999	61	3,661	4,720	1,782	15	32,367	–	R 69,097	–
1993	91	(s)	91	495	741	81	3,883	4,705	905	17	35,226	–	R 74,394	–
1994	90	(s)	90	474	807	72	3,771	4,650	887	22	35,706	–	74,463	–
					Trillion Btu									
1960	53.6	0.1	53.7	240.2	89.3	11.6	20.8	121.8	0.0	0.0	34.0	449.7	84.6	534.3
1965	33.0	0.1	33.1	351.9	76.6	14.3	24.0	114.9	0.0	0.0	48.4	548.2	115.5	663.7
1970	17.7	(s)	17.8	450.1	69.8	7.6	32.6	109.9	0.0	0.0	76.9	654.7	186.3	841.0
1971	15.8	(s)	15.8	474.2	71.1	6.9	32.9	110.9	0.0	0.0	81.8	682.8	197.8	880.6
1972	10.8	(s)	10.8	499.9	74.4	9.7	36.4	120.5	0.0	0.0	86.9	718.2	209.1	927.3
1973	8.0	(s)	8.0	455.9	71.9	10.3	35.0	117.1	0.0	0.0	92.7	673.8	222.0	895.8
1974	8.2	(s)	8.2	472.2	69.9	8.0	33.3	111.3	0.0	0.0	91.7	683.5	223.6	907.1
1975	6.0	(s)	6.0	491.0	72.1	6.9	34.0	113.1	0.0	0.0	90.0	700.1	217.0	917.1
1976	7.2	(s)	7.3	520.6	85.8	3.2	36.5	125.5	0.0	0.0	89.8	743.1	216.2	959.3
1977	6.2	(s)	6.2	534.5	83.4	2.6	34.3	120.3	0.0	0.0	96.1	757.1	232.0	989.1
1978	6.5	(s)	6.5	530.0	88.4	4.2	33.6	126.1	0.0	0.0	99.3	761.9	242.9	1,004.7
1979	2.6	(s)	2.6	507.7	48.7	2.4	19.0	70.0	0.0	0.0	99.9	680.3	241.2	921.4
1980	1.4	(s)	1.4	489.0	20.5	0.9	14.9	36.3	0.0	0.0	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	0.0	0.0	96.8	606.4	230.8	837.2
1982	2.7	(s)	2.7	468.7	15.5	1.9	14.4	31.9	0.0	0.0	97.6	600.8	234.4	835.2
1983	3.6	(s)	3.6	448.3	11.2	1.0	17.2	29.4	0.0	0.0	104.9	586.3	251.3	837.5
1984	3.5	(s)	3.5	498.8	12.1	1.9	11.9	25.9	0.0	0.0	103.8	632.0	241.7	873.7
1985	2.1	(s)	2.1	464.5	13.2	3.2	12.7	29.0	0.0	0.0	102.3	597.9	240.3	838.2
1986	2.1	0.0	2.1	446.2	12.8	1.1	11.0	25.0	0.0	0.0	105.7	578.9	243.0	822.0
1987	2.3	(s)	2.3	414.0	11.1	0.8	12.0	24.0	0.0	0.0	109.2	549.4	249.4	798.8
1988	2.1	(s)	2.1	470.7	12.4	1.2	11.1	24.7	0.0	0.0	115.9	613.4	262.1	875.5
1989	2.4	(s)	2.4	511.0	9.2	1.2	12.9	23.3	0.0	0.0	110.5	647.2	247.8	895.0
1990	2.1	(s)	2.1	451.9	7.0	0.6	11.6	19.2	[e] 32.2	[e] (s)	112.2	R [e] 617.5	R 245.1	R [e] 862.6
1991	2.0	(s)	2.1	475.8	7.2	0.7	13.7	21.5	33.9	(s)	122.7	R 656.1	R 266.8	R 922.9
1992	2.2	(s)	2.3	483.9	5.8	0.3	13.3	19.4	35.6	0.1	110.4	R 651.8	R 235.8	R 887.5
1993	2.1	(s)	2.1	505.8	4.3	0.5	14.0	18.8	18.1	0.1	120.2	R 664.9	R 253.8	R 918.8
1994	2.0	(s)	2.0	483.7	4.7	0.4	13.7	18.8	17.7	0.1	121.8	644.2	254.1	898.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Illinois

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	2,563	2	2,565	129	4,148	96	1,057	469	7,453	13,223	15,072	–	35,986	–
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	(s)	540	252	4,784	28	1,615	788	3,978	11,193	32,286	–	78,988	–
1979	214	(s)	214	237	2,637	16	909	823	4,144	8,528	32,242	–	77,812	–
1980	120	(s)	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	(s)	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	(s)	294	232	5,099	15	583	451	699	6,848	34,136	–	79,454	–
1985	174	(s)	175	214	3,975	96	621	549	343	5,583	32,609	–	76,612	–
1986	174	0	174	205	1,985	98	534	575	890	4,082	33,657	–	77,421	–
1987	186	(s)	187	191	1,648	42	579	552	911	3,731	35,883	–	81,990	–
1988	174	(s)	175	215	1,956	59	538	546	579	3,679	37,759	–	85,364	–
1989	199	(s)	199	196	1,409	63	619	469	228	2,788	38,088	–	85,418	–
1990	171	(s)	172	200	1,548	26	566	557	207	2,904	39,053	–	R 85,337	–
1991	165	1	166	194	1,689	40	670	399	39	2,838	40,831	–	R 88,774	–
1992	183	1	184	197	1,801	34	646	374	43	2,900	38,905	–	R 83,054	–
1993	169	(s)	170	203	1,994	32	685	132	56	2,898	R 41,980	–	R 88,658	–
1994	166	(s)	167	198	2,214	50	665	161	67	3,158	43,698	–	91,131	–
	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
1965	61.3	(s)	61.3	132.7	24.2	0.5	4.2	2.5	46.9	78.3	51.4	323.8	122.8	446.5
1970	33.0	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	5.0	223.6	18.2	(s)	2.5	5.7	6.5	33.0	112.8	374.3	270.9	645.3
1983	6.6	(s)	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	(s)	6.5	241.5	29.7	0.1	2.1	2.4	4.4	38.7	116.5	403.1	271.1	674.2
1985	3.9	(s)	3.9	222.1	23.2	0.5	2.2	2.9	2.2	31.0	111.3	368.2	261.4	629.6
1986	3.9	0.0	3.9	209.3	11.6	0.6	1.9	3.0	5.6	22.7	114.8	350.7	264.2	614.8
1987	4.2	(s)	4.2	193.9	9.6	0.2	2.1	2.9	5.7	20.6	122.4	341.1	279.7	620.9
1988	3.9	(s)	3.9	219.1	11.4	0.3	2.0	2.9	3.6	20.2	128.8	372.1	291.3	663.3
1989	4.5	(s)	4.5	200.5	8.2	0.4	2.3	2.5	1.4	14.7	130.0	349.7	291.4	641.2
1990	3.8	(s)	3.9	204.7	9.0	0.1	2.1	2.9	1.3	15.4	133.2	357.2	R 291.2	R 648.4
1991	3.7	(s)	3.8	197.5	9.8	0.2	2.4	2.1	0.2	14.8	139.3	355.4	R 302.9	R 658.3
1992	4.2	(s)	4.2	200.5	10.5	0.2	2.3	2.0	0.3	15.3	132.7	352.7	R 283.4	R 636.1
1993	3.8	(s)	3.8	R 207.4	11.6	0.2	2.5	0.7	0.4	15.3	143.2	369.8	R 302.5	R 672.3
1994	3.7	(s)	3.7	201.7	12.9	0.3	2.4	0.8	0.4	16.9	149.1	371.4	310.9	682.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Illinois

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	13,842	186	7,244	13,545	3,239	8,534	1,340	6,476	16,835	12,578	69,790	19	0	0	13,722	–	34,131	–
1965	15,669	238	9,751	12,074	2,723	11,399	1,321	6,512	15,064	18,923	77,766	17	0	0	18,708	–	44,668	–
1970	10,928	381	12,651	10,836	2,196	17,818	2,015	6,017	16,694	22,957	91,186	20	0	0	25,647	–	62,151	–
1971	9,077	407	11,392	11,698	1,973	18,151	1,968	6,416	11,681	21,933	85,213	19	0	0	26,854	–	64,923	–
1972	8,755	399	10,933	11,818	2,536	21,048	2,108	4,038	16,701	26,191	95,371	17	0	0	29,820	–	71,777	–
1973	7,729	425	12,456	11,472	2,607	22,767	2,152	5,302	16,627	28,531	101,914	16	0	0	32,568	–	77,969	–
1974	7,736	410	10,735	10,725	1,801	24,406	2,061	5,179	16,679	28,283	99,868	18	0	0	32,272	–	78,687	–
1975	7,257	352	10,213	11,138	1,351	23,889	1,668	4,290	15,728	27,915	96,192	19	0	0	30,330	–	73,160	–
1976	6,457	374	9,893	12,641	863	27,590	1,853	4,583	13,635	28,256	99,314	18	0	0	32,183	–	77,522	–
1977	6,032	370	11,070	12,522	943	27,839	1,957	4,033	13,749	29,000	101,112	21	0	0	33,796	–	81,607	–
1978	5,645	367	11,584	13,412	1,073	27,976	2,102	3,163	12,467	30,692	102,470	17	0	0	35,802	–	87,590	–
1979	5,387	360	10,792	8,978	485	45,463	2,200	2,846	11,704	30,836	113,304	18	0	0	36,003	–	86,887	–
1980	5,350	349	8,094	7,842	429	33,867	1,959	3,505	12,598	29,427	97,720	17	0	0	35,158	–	85,492	–
1981	4,854	346	6,089	6,893	503	29,017	1,878	3,008	9,950	20,959	78,297	17	0	0	33,700	–	80,316	–
1982	4,703	292	4,860	7,684	97	21,694	1,713	2,287	7,240	19,225	64,800	17	0	0	30,434	–	73,098	–
1983	5,153	281	5,365	6,638	437	20,878	1,793	2,054	6,771	20,991	64,928	17	0	0	32,349	–	77,500	–
1984	5,887	304	5,727	7,169	299	21,481	1,912	1,935	4,519	21,312	64,355	17	0	0	34,032	–	79,213	–
1985	5,829	285	7,502	6,373	91	22,607	1,782	1,738	3,410	20,048	63,551	17	0	0	36,178	–	84,997	–
1986	6,064	268	6,185	9,259	105	28,590	1,743	1,572	3,175	R23,855	R74,484	17	0	0	36,786	–	84,617	–
1987	6,467	265	6,315	9,600	112	37,718	1,970	1,566	2,716	R25,707	R85,704	17	0	0	36,575	–	83,571	–
1988	7,056	269	5,604	7,841	75	41,418	1,900	1,499	2,973	R28,476	R89,785	17	0	0	37,942	–	85,779	–
1989	6,393	279	8,052	6,907	96	7,999	1,949	1,418	2,228	R28,341	R56,989	17	0	0	38,481	–	86,300	–
1990	6,243	276	8,339	7,616	47	8,365	2,006	1,257	1,741	R30,916	R60,286	R[f]NA	[f]NA	[f]NA	39,299	–	R85,874	–
1991	6,666	303	7,917	7,678	47	9,761	1,794	1,342	851	R32,315	R61,705	RNA	NA	NA	39,712	–	R86,342	–
1992	6,052	300	9,293	8,493	47	7,856	1,829	1,213	373	R36,324	R65,427	RNA	NA	NA	40,898	–	R87,309	–
1993	6,130	305	6,310	7,089	64	R16,801	1,863	1,590	536	R35,075	R69,328	RNA	NA	NA	40,249	–	R85,004	–
1994	6,222	305	7,798	7,663	78	19,741	1,947	1,515	608	36,703	76,054	NA	NA	NA	41,765	–	87,100	–
			Trillion Btu															
1960	338.8	192.7	48.1	78.9	18.4	34.2	8.1	34.0	105.8	75.3	402.9	0.2	0.0	0.0	46.8	981.4	116.5	1,097.9
1965	381.7	244.6	64.7	70.3	15.4	45.7	8.0	34.2	94.7	109.8	442.9	0.2	0.0	0.0	63.8	1,133.2	152.4	1,285.7
1970	260.2	390.5	84.0	63.1	12.5	67.3	12.2	31.6	105.0	133.2	508.8	0.2	0.0	0.0	87.5	1,247.2	212.1	1,459.3
1971	216.0	417.3	75.6	68.1	11.2	68.5	11.9	33.7	73.4	127.5	470.0	0.2	0.0	0.0	91.6	1,195.2	221.5	1,416.7
1972	207.2	408.8	72.5	68.8	14.4	79.1	12.8	21.2	105.0	152.8	526.7	0.2	0.0	0.0	101.7	1,244.7	244.9	1,489.6
1973	184.3	434.8	82.7	66.8	14.8	85.3	13.1	27.9	104.5	166.7	561.7	0.2	0.0	0.0	111.1	1,292.1	266.0	1,558.1
1974	184.4	419.0	71.2	62.5	10.2	91.0	12.5	27.2	104.9	165.1	544.6	0.2	0.0	0.0	110.1	1,258.3	268.5	1,526.8
1975	172.9	361.4	67.8	64.9	7.7	88.7	10.1	22.5	98.9	163.5	524.1	0.2	0.0	0.0	103.5	1,162.1	249.6	1,411.7
1976	154.6	382.8	65.7	73.6	4.9	102.4	11.2	24.1	85.7	165.1	532.7	0.2	0.0	0.0	109.8	1,180.1	264.5	1,444.6
1977	143.8	380.2	73.5	72.9	5.3	102.4	11.9	21.2	86.4	169.4	543.0	0.2	0.0	0.0	115.3	1,182.5	278.4	1,460.9
1978	134.3	373.3	76.9	78.1	6.1	102.6	12.7	16.6	78.4	178.9	550.3	0.2	0.0	0.0	122.2	1,180.3	298.9	1,479.1
1979	129.0	368.7	71.6	52.3	2.7	167.3	13.3	14.9	73.6	178.9	574.7	0.2	0.0	0.0	122.8	1,195.4	296.5	1,491.9
1980	127.7	357.0	53.7	45.7	2.4	124.4	11.9	18.4	79.2	170.1	505.8	0.2	0.0	0.0	120.0	1,110.6	291.7	1,402.3
1981	116.3	352.7	40.4	40.1	2.9	105.7	11.4	15.8	62.6	122.1	401.0	0.2	0.0	0.0	115.0	985.1	274.0	1,259.2
1982	113.4	298.8	32.3	44.8	0.6	78.4	10.4	12.0	45.5	112.5	336.4	0.2	0.0	0.0	103.8	852.6	249.4	1,102.0
1983	124.9	293.0	35.6	38.7	2.5	75.5	10.9	10.8	42.6	123.0	339.5	0.2	0.0	0.0	110.4	867.9	264.4	1,132.3
1984	144.0	316.1	38.0	41.8	1.7	77.3	11.6	10.2	28.4	122.4	331.4	0.2	0.0	0.0	116.1	907.7	270.3	1,178.0
1985	142.3	296.3	49.8	37.1	0.5	81.5	10.8	9.1	21.4	116.9	327.2	0.2	0.0	0.0	123.4	889.4	290.0	1,179.4
1986	148.2	273.5	41.0	53.9	0.6	104.1	10.6	8.3	20.0	R138.8	R377.3	0.2	0.0	0.0	125.5	R924.6	288.7	R1,213.3
1987	158.5	268.6	41.9	55.9	0.6	138.0	11.9	8.2	17.1	R148.1	R421.8	0.2	0.0	0.0	124.8	R973.8	285.1	R1,259.0
1988	171.6	274.1	37.2	45.7	0.4	151.3	11.5	7.9	18.7	R164.6	R437.3	0.2	0.0	0.0	129.5	R1,012.6	292.7	R1,305.3
1989	155.8	285.0	53.4	40.2	0.5	29.5	11.8	7.4	14.0	R163.0	R320.0	0.2	0.0	0.0	131.3	R892.3	294.5	R1,186.7
1990	150.8	281.8	55.3	44.4	0.3	30.3	12.2	6.6	10.9	R178.0	R338.0	R[f]0.8	[f]16.1	[f]0.0	134.1	R[f]921.6	R293.0	R[f]1,214.6
1991	156.8	308.6	52.5	44.7	0.3	35.3	10.9	7.0	5.4	R185.3	R341.4	R0.8	16.1	0.0	135.5	R959.1	R294.6	R1,253.7
1992	147.1	305.9	61.7	49.5	0.3	28.5	11.1	6.4	2.3	R207.1	R366.7	R0.9	16.9	0.0	139.5	R977.1	R297.9	R1,275.0
1993	148.6	311.6	41.9	41.3	0.4	R60.6	11.3	8.4	3.4	R200.3	R367.5	R0.9	17.7	0.0	137.3	R983.7	R290.0	R1,273.7
1994	149.4	311.6	51.7	44.6	0.4	71.8	11.8	8.0	3.8	209.7	401.9	0.8	18.7	0.0	142.5	1,024.9	297.2	1,322.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Illinois

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	239	10	3,733	8,721	4,356	316	1,333	71,193	1,168	90,819	0	316	–	785	–
1965	51	13	383	11,509	12,176	318	1,295	81,788	423	107,891	0	290	–	692	–
1970	17	28	264	15,234	22,644	526	1,239	100,534	408	140,850	0	238	–	577	–
1971	12	23	232	17,351	24,037	589	1,253	101,340	356	145,159	0	233	–	564	–
1972	9	23	174	20,788	26,460	542	1,342	109,280	227	158,812	0	242	–	583	–
1973	6	21	138	22,397	28,103	491	1,661	113,119	271	166,180	0	229	–	547	–
1974	4	19	119	22,121	24,366	513	1,591	110,050	323	159,082	0	226	–	551	–
1975	1	14	82	20,488	24,271	486	1,452	113,669	215	160,662	0	265	–	639	–
1976	1	17	69	21,875	24,985	564	1,612	117,420	261	166,787	0	275	–	663	–
1977	(s)	19	90	22,167	26,571	616	1,513	119,971	140	171,069	0	284	–	687	–
1978	0	13	21	22,443	26,464	723	1,625	126,582	126	177,983	0	270	–	660	–
1979	0	19	13	26,321	23,770	261	1,700	115,445	299	167,808	0	313	–	754	–
1980	0	15	132	22,560	19,508	178	1,514	104,550	279	148,721	0	270	–	658	–
1981	0	12	272	20,388	16,899	365	1,452	103,216	7	142,600	0	299	–	712	–
1982	0	14	216	18,560	16,596	481	1,324	101,805	26	139,009	0	293	–	705	–
1983	0	10	234	20,954	15,944	572	1,386	104,312	79	143,481	0	256	–	612	–
1984	0	11	201	21,653	2,687	701	1,478	102,692	138	129,550	0	294	–	685	–
1985	0	11	212	19,147	2,748	423	1,378	108,800	187	132,895	0	348	–	818	–
1986	0	8	209	21,233	2,054	377	1,347	106,495	86	131,801	0	350	–	805	–
1987	0	7	159	20,549	1,997	309	1,523	108,134	102	132,773	0	336	–	767	–
1988	0	13	187	21,191	3,956	336	1,469	114,156	350	141,644	0	359	–	812	–
1989	0	14	192	24,213	4,497	266	1,506	113,601	57	144,334	0	353	–	793	–
1990	0	12	164	31,675	3,952	330	1,550	118,607	52	156,330	[e] 146,523	354	–	774	–
1991	0	11	176	25,059	6,437	312	1,387	102,606	13	135,991	116,146	362	–	[R] 787	–
1992	0	11	176	24,718	7,399	320	1,414	104,733	32	138,791	141,162	350	–	[R] 748	–
1993	0	12	231	28,093	9,170	279	1,440	107,832	37	147,082	157,540	[R] 331	–	[R] 700	–
1994	0	14	204	22,640	9,619	530	1,505	109,618	51	144,166	174,741	321	–	669	–
			Trillion Btu												
1960	5.7	10.4	18.8	50.8	24.4	1.3	8.1	374.0	7.3	484.7	0.0	1.1	501.9	2.7	504.6
1965	1.2	13.8	1.9	67.0	68.8	1.3	7.9	429.6	2.7	579.2	0.0	1.0	595.1	2.4	597.5
1970	0.4	28.7	1.3	88.7	128.2	2.0	7.5	528.1	2.6	758.4	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.8	879.4	1.9	881.3
1975	(s)	14.6	0.4	119.3	137.4	1.8	8.8	597.1	1.4	866.2	0.0	0.9	881.8	2.2	883.9
1976	(s)	17.0	0.3	127.4	141.5	2.1	9.8	616.8	1.6	899.6	0.0	0.9	917.5	2.3	919.8
1977	(s)	19.7	0.5	129.1	150.5	2.3	9.2	630.2	0.9	922.6	0.0	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	0.0	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	0.0	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	0.0	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	(s)	768.1	0.0	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	0.0	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	0.0	0.9	783.2	2.1	785.3
1984	0.0	11.6	1.0	126.1	15.0	2.5	9.0	539.4	0.9	694.0	0.0	1.0	706.6	2.3	708.9
1985	0.0	11.6	1.1	111.5	15.4	1.5	8.4	571.5	1.2	710.6	0.0	1.2	723.4	2.8	726.2
1986	0.0	8.5	1.1	123.7	11.5	1.4	8.2	559.4	0.5	705.7	0.0	1.2	715.4	2.7	718.1
1987	0.0	6.9	0.8	119.7	11.1	1.1	9.2	568.0	0.6	710.7	0.0	1.1	718.7	2.6	721.3
1988	0.0	13.0	0.9	123.4	22.2	1.2	8.9	599.7	2.2	758.6	0.0	1.2	772.9	2.8	775.6
1989	0.0	13.8	1.0	141.0	25.3	1.0	9.1	596.7	0.4	774.5	0.0	1.2	789.6	2.7	792.3
1990	0.0	12.4	0.8	184.5	22.3	1.2	9.4	623.0	0.3	841.6	[e] 11.2	1.2	[R e] 855.2	2.6	[e] 857.8
1991	0.0	11.3	0.9	146.0	36.3	1.1	8.4	539.0	0.1	731.8	8.9	1.2	744.3	2.7	747.0
1992	0.0	11.5	0.9	144.0	41.8	1.2	8.6	550.2	0.2	746.8	10.8	1.2	759.5	[R] 2.6	762.1
1993	0.0	11.9	1.2	163.6	51.9	1.0	8.7	566.4	0.2	793.1	12.0	[R] 1.1	806.1	2.4	808.5
1994	0.0	14.1	1.0	131.9	54.4	1.9	9.1	575.8	0.3	774.5	13.4	1.1	789.8	2.3	792.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Illinois

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	25,047	0	25,047	35	152	126	0	278	965	158	3	0	0	–
1970	28,993	0	28,993	132	3,221	2,667	0	5,888	2,514	146	(s)	0	0	–
1971	28,113	0	28,113	126	6,871	4,394	0	11,265	4,374	118	0	0	0	–
1972	29,679	0	29,679	73	7,791	5,919	0	13,711	13,067	133	0	0	0	–
1973	32,755	0	32,755	40	7,911	3,880	0	11,791	20,051	113	0	0	0	–
1974	32,475	0	32,475	43	6,984	4,857	0	11,841	19,592	106	0	0	0	–
1975	32,350	0	32,350	34	7,239	3,833	0	11,072	22,315	104	0	0	0	–
1976	33,521	0	33,521	31	6,880	3,911	0	10,791	26,455	112	0	0	0	–
1977	33,943	0	33,943	14	9,533	4,061	0	13,594	28,547	109	0	0	0	–
1978	33,492	0	33,492	23	13,055	4,139	0	17,194	32,926	111	0	0	0	–
1979	34,487	0	34,487	32	13,028	2,936	0	15,964	27,463	112	0	0	0	–
1980	34,611	0	34,611	19	12,762	847	0	13,608	27,742	121	0	0	0	–
1981	32,411	0	32,411	13	9,587	580	0	10,167	29,483	117	0	0	0	–
1982	31,519	0	31,519	10	7,168	573	0	7,742	27,625	107	0	0	0	–
1983	34,265	0	34,265	12	5,802	547	0	6,349	28,021	117	0	0	0	–
1984	32,054	0	32,054	6	4,489	413	0	4,902	34,976	124	0	0	0	–
1985	31,608	0	31,608	6	2,569	436	0	3,005	39,106	119	0	0	0	–
1986	30,844	0	30,844	6	4,165	459	0	4,624	42,614	124	0	0	0	–
1987	28,894	0	28,894	3	3,235	425	0	3,660	50,194	90	0	0	0	–
1988	26,681	0	26,681	6	2,007	552	0	2,559	69,166	48	0	0	0	–
1989	25,758	0	25,758	7	1,535	455	0	1,990	74,820	50	0	0	0	–
1990	27,396	0	27,396	9	1,622	491	0	2,113	71,887	61	0	0	0	–
1991	27,754	0	27,754	13	2,550	495	0	3,044	71,866	53	0	0	0	–
1992	25,264	0	25,264	9	1,906	365	0	2,271	73,742	52	8	0	0	–
1993	31,744	0	31,744	16	1,653	469	0	2,122	78,373	40	0	0	0	–
1994	32,599	0	32,599	35	1,986	624	0	2,611	72,654	45	0	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	0.0	467.6
1965	537.2	0.0	537.2	35.6	1.0	0.7	0.0	1.7	11.4	1.7	(s)	0.0	0.0	587.6
1970	608.9	0.0	608.9	135.7	20.3	15.5	0.0	35.8	27.6	1.5	(s)	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	1,373.8
1990	591.1	0.0	591.1	9.3	10.2	2.9	0.0	13.1	767.8	0.6	0.0	0.0	0.0	1,381.9
1991	595.1	0.0	595.1	13.1	16.0	2.9	0.0	18.9	771.8	0.5	0.0	0.0	0.0	1,399.5
1992	539.0	0.0	539.0	9.4	12.0	2.1	0.0	14.1	787.4	0.5	0.1	0.0	0.0	1,350.5
1993	657.8	0.0	657.8	16.3	10.4	2.7	0.0	13.1	837.2	0.4	0.0	0.0	0.0	1,524.8
1994	663.8	0.0	663.8	35.3	12.5	3.6	0.0	16.1	775.7	0.5	0.0	0.0	0.0	1,491.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Indiana

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Petroleum: Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	9,955	108,209	0	100	0	0	-31,833	–
1965	37,350	358	4,283	1,110	25,948	1,848	3,444	6,654	1,458	48,051	13,033	11,840	117,670	0	94	0	0	-38,137	–
1970	42,776	545	6,101	367	29,379	2,558	2,130	8,978	1,583	58,905	9,769	14,363	134,133	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	151,315	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	14,369	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	13,095	161,550	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	14,192	168,232	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	13,969	170,631	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	13,501	155,895	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	12,920	136,505	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	12,719	128,895	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	10,985	119,864	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	10,919	118,927	0	418	0	0	-8,114	–
1984	53,571	452	6,001	250	31,145	15,451	1,014	5,334	1,746	58,057	2,108	11,745	132,852	0	436	0	0	-47,021	–
1985	53,291	433	5,336	393	30,776	15,445	731	4,947	1,627	57,923	3,768	11,055	132,001	0	426	0	0	-27,809	–
1986	50,643	395	6,063	434	31,807	18,611	731	6,143	1,591	59,994	4,308	R 10,135	R 139,816	0	506	0	0	-23,880	–
1987	51,385	413	7,600	378	31,649	19,141	601	6,094	1,799	63,170	3,594	R 11,714	R 145,738	0	507	0	0	-16,737	–
1988	55,830	457	6,941	432	28,745	16,546	712	6,753	1,735	64,225	3,130	R 13,295	R 142,514	0	441	0	0	-24,254	–
1989	57,388	462	6,396	288	33,122	17,557	650	8,113	1,779	61,672	3,256	R 13,264	R 146,096	0	450	0	0	-33,361	–
1990	61,701	451	8,552	302	32,718	17,889	368	9,563	1,831	61,574	3,881	R 14,787	R 151,465	0	R NA	NA	NA	R -65,076	–
1991	60,790	457	7,058	302	32,418	17,228	406	9,508	1,638	61,284	3,239	R 15,563	R 148,644	0	R NA	NA	NA	R -56,497	–
1992	58,765	483	6,210	252	31,959	16,001	298	7,045	1,670	61,988	4,112	R 18,531	R 148,066	0	R NA	NA	NA	R -56,073	–
1993	60,353	518	9,501	201	33,109	16,366	347	7,778	1,701	65,510	2,925	R 16,130	R 153,568	0	R NA	NA	NA	R -50,434	–
1994	59,996	519	10,219	149	35,828	17,299	429	7,134	1,778	65,871	3,045	17,045	158,796	0	NA	NA	NA	-58,215	–
			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	59.7	604.1	0.0	1.1	0.0	0.0	-108.6	1,511.5
1965	900.6	357.5	28.4	5.6	151.1	10.2	19.5	26.7	8.8	252.4	81.9	70.2	655.0	0.0	1.0	0.0	0.0	-130.1	1,783.9
1970	1,006.8	548.6	40.5	1.9	171.1	14.2	12.1	33.9	9.6	309.4	61.4	85.0	739.1	0.0	5.2	0.0	0.0	-94.7	2,205.1
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	77.8	886.1	0.0	5.0	0.0	0.0	15.9	2,391.0
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	2,466.6
1978	1,074.6	436.1	55.9	1.6	215.4	14.0	7.7	51.9	11.6	370.8	128.3	82.9	940.3	0.0	3.7	0.0	0.0	54.5	2,509.2
1979	1,171.6	499.3	51.0	1.3	210.3	14.5	4.5	34.9	12.2	343.4	113.9	79.8	865.7	0.0	4.5	0.0	0.0	17.7	2,558.9
1980	1,157.0	483.9	34.3	1.3	179.4	12.0	3.7	29.2	10.8	316.2	91.9	76.2	755.1	0.0	4.9	0.0	0.0	-31.9	2,368.9
1981	1,150.6	492.9	38.5	0.9	168.6	15.9	4.0	26.4	10.4	321.2	47.5	74.7	708.3	0.0	5.3	0.0	0.0	-13.3	2,343.8
1982	1,007.2	475.3	35.8	0.6	168.1	24.5	3.4	24.7	9.5	296.7	29.4	64.8	657.4	0.0	4.5	0.0	0.0	8.3	2,152.7
1983	1,105.1	429.3	38.4	0.8	161.4	24.7	5.7	24.8	9.9	301.7	18.9	64.7	651.1	0.0	4.4	0.0	0.0	-27.7	2,162.3
1984	1,209.5	455.5	39.8	1.3	181.4	87.4	5.8	19.2	10.6	305.0	13.3	68.5	732.1	0.0	4.5	0.0	0.0	-160.4	2,241.2
1985	1,193.3	436.4	35.4	2.0	179.3	87.4	4.1	17.8	9.9	304.3	23.7	65.1	728.9	0.0	4.5	0.0	0.0	-94.9	2,268.2
1986	1,130.1	398.7	40.2	2.2	185.3	105.3	4.1	22.4	9.7	315.1	27.1	R 60.5	R 771.9	0.0	5.3	0.0	0.0	-81.5	R 2,224.6
1987	1,166.6	416.3	50.4	1.9	184.4	108.3	3.4	22.3	10.9	331.8	22.6	R 69.2	R 805.3	0.0	5.3	0.0	0.0	-57.1	R 2,336.3
1988	1,267.2	463.7	46.1	2.2	167.4	93.6	4.0	24.7	10.5	337.4	19.7	R 78.5	R 784.1	0.0	4.6	0.0	0.0	-82.8	R 2,436.8
1989	1,286.4	469.4	42.4	1.5	192.9	99.3	3.7	29.9	10.8	324.0	20.5	R 77.9	R 802.9	0.0	4.6	0.0	0.0	-113.8	R 2,449.6
1990	1,361.8	459.1	56.7	1.5	190.6	101.3	2.1	34.7	11.1	323.4	24.4	R 86.9	R 832.8	0.0	I 4.6	I 24.9	I (s)	R -222.0	R I 2,457.2
1991	1,340.1	463.7	46.8	1.5	188.8	97.5	2.3	34.4	9.9	321.9	20.4	R 90.7	R 814.3	0.0	4.1	24.9	(s)	R -192.8	R 2,451.3
1992	1,296.5	488.8	41.2	1.3	186.2	90.5	1.7	25.5	10.1	325.6	25.9	R 107.6	R 815.6	0.0	5.8	26.7	(s)	R -191.3	R 2,438.5
1993	1,318.5	524.5	63.1	1.0	192.9	92.7	2.0	28.0	10.3	344.1	18.4	R 93.5	R 846.0	0.0	4.6	18.6	(s)	R -172.1	R 2,536.0
1994	1,299.0	526.1	67.8	0.8	208.7	98.0	2.4	25.9	10.8	346.0	19.1	98.8	878.4	0.0	4.2	19.1	(s)	-198.6	2,523.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Indiana

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	740	4	744	76	8,536	3,370	3,389	15,296	0	0	6,371	–	15,847	–
1965	378	3	380	114	8,146	2,498	3,993	14,637	0	0	8,651	–	20,656	–
1970	245	2	247	159	8,027	1,837	6,312	16,175	0	0	13,488	–	32,686	–
1971	236	2	237	163	8,544	1,800	6,391	16,735	0	0	14,372	–	34,746	–
1972	283	1	285	169	9,231	1,928	7,257	18,415	0	0	15,335	–	36,911	–
1973	168	1	169	155	9,295	1,321	7,021	17,637	0	0	16,351	–	39,144	–
1974	187	1	188	158	8,773	901	6,719	16,393	0	0	16,543	–	40,336	–
1975	315	1	315	163	8,647	717	6,665	16,029	0	0	16,375	–	39,499	–
1976	218	1	219	153	9,732	1,123	6,881	17,736	0	0	16,673	–	40,163	–
1977	141	1	142	152	9,807	1,054	6,856	17,717	0	0	18,048	–	43,580	–
1978	62	1	63	168	10,022	1,166	6,463	17,651	0	0	18,262	–	44,678	–
1979	54	(s)	54	173	7,738	535	3,887	12,160	0	0	18,316	–	44,203	–
1980	77	1	78	164	5,398	492	3,351	9,241	0	0	19,262	–	46,839	–
1981	114	1	115	159	4,100	537	3,296	7,933	0	0	19,118	–	45,563	–
1982	204	1	205	160	4,222	343	2,873	7,437	0	0	19,307	–	46,371	–
1983	246	1	247	145	2,417	406	3,417	6,241	0	0	19,931	–	47,749	–
1984	230	1	230	152	2,611	537	2,743	5,891	0	0	20,193	–	47,002	–
1985	183	1	184	146	2,558	466	2,340	5,364	0	0	19,803	–	46,526	–
1986	190	1	192	140	2,882	393	2,602	5,878	0	0	20,508	–	47,174	–
1987	189	1	190	139	2,762	403	2,973	6,138	0	0	21,171	–	48,373	–
1988	220	1	221	154	2,794	519	3,386	6,699	0	0	22,486	–	50,836	–
1989	181	1	182	156	2,314	532	4,083	6,929	0	0	22,281	–	49,969	–
1990	192	1	193	140	1,719	278	3,494	5,492	[e] 802	[e] 3	22,111	–	R 48,316	–
1991	150	3	152	146	1,937	316	3,490	5,743	844	3	24,220	–	R 52,659	–
1992	143	2	145	153	1,897	186	3,422	5,505	888	4	22,837	–	R 48,752	–
1993	117	3	120	164	2,110	253	3,769	6,132	459	5	24,978	–	R 52,753	–
1994	123	2	125	157	1,827	275	3,698	5,801	450	6	25,048	–	52,237	–
	Trillion Btu													
1960	17.8	0.1	17.9	78.7	49.7	19.1	13.6	82.4	0.0	0.0	21.7	200.7	54.1	254.8
1965	9.0	0.1	9.1	114.2	47.5	14.2	16.0	77.6	0.0	0.0	29.5	230.5	70.5	301.0
1970	5.7	(s)	5.7	159.7	46.8	10.4	23.9	81.0	0.0	0.0	46.0	292.4	111.5	403.9
1971	5.4	(s)	5.4	163.7	49.8	10.2	24.1	84.1	0.0	0.0	49.0	302.3	118.6	420.8
1972	6.5	(s)	6.5	170.2	53.8	10.9	27.3	92.0	0.0	0.0	52.3	321.0	125.9	447.0
1973	3.8	(s)	3.9	154.7	54.1	7.5	26.3	87.9	0.0	0.0	55.8	302.3	133.6	435.9
1974	4.2	(s)	4.2	157.6	51.1	5.1	25.1	81.3	0.0	0.0	56.4	299.6	137.6	437.2
1975	7.0	(s)	7.0	161.2	50.4	4.1	24.8	79.2	0.0	0.0	55.9	303.2	134.8	438.0
1976	4.9	(s)	4.9	151.3	56.7	6.4	25.5	88.6	0.0	0.0	56.9	301.7	137.0	438.8
1977	3.2	(s)	3.2	150.1	57.1	6.0	25.2	88.3	0.0	0.0	61.6	303.2	148.7	451.9
1978	1.4	(s)	1.4	166.6	58.4	6.6	23.7	88.7	0.0	0.0	62.3	319.0	152.4	471.5
1979	1.2	(s)	1.2	171.5	45.1	3.0	14.3	62.4	0.0	0.0	62.5	297.6	150.8	448.4
1980	1.7	(s)	1.7	161.9	31.4	2.8	12.3	46.5	0.0	0.0	65.7	275.8	159.8	435.6
1981	2.5	(s)	2.5	157.9	23.9	3.0	12.0	38.9	0.0	0.0	65.2	264.6	155.5	420.0
1982	4.5	(s)	4.5	162.6	24.6	1.9	10.4	36.9	0.0	0.0	65.9	270.0	158.2	428.2
1983	5.4	(s)	5.4	146.1	14.1	2.3	12.3	28.7	0.0	0.0	68.0	248.3	162.9	411.2
1984	5.1	(s)	5.1	152.6	15.2	3.0	9.9	28.1	0.0	0.0	68.9	254.7	160.4	415.1
1985	4.1	(s)	4.1	147.4	14.9	2.6	8.4	26.0	0.0	0.0	67.6	245.0	158.7	403.8
1986	4.3	(s)	4.3	141.4	16.8	2.2	9.5	28.5	0.0	0.0	70.0	244.2	161.0	405.1
1987	4.3	(s)	4.3	140.3	16.1	2.3	10.9	29.3	0.0	0.0	72.2	246.1	165.0	411.2
1988	5.0	(s)	5.0	155.9	16.3	2.9	12.4	31.6	0.0	0.0	76.7	269.2	173.5	442.7
1989	4.0	(s)	4.1	158.4	13.5	3.0	15.0	31.5	0.0	0.0	76.0	270.1	170.5	440.6
1990	4.3	(s)	4.3	143.1	10.0	1.6	12.7	24.3	[e] 16.0	[e] (s)	75.4	R [e] 263.1	R 164.9	R [e] 428.0
1991	3.4	0.1	3.4	148.5	11.3	1.8	12.6	25.7	16.9	(s)	82.6	R 277.2	R 179.7	R 456.9
1992	3.2	(s)	3.3	154.4	11.1	1.1	12.4	24.5	17.8	(s)	77.9	R 277.9	166.3	R 444.2
1993	2.6	0.1	2.7	166.1	12.3	1.4	13.6	27.3	9.2	(s)	85.2	R 290.5	R 180.0	R 470.5
1994	2.8	0.1	2.8	159.5	10.6	1.6	13.4	25.6	9.0	(s)	85.5	282.5	178.2	460.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Indiana

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	702	2	703	42	2,832	243	705	171	1,520	5,472	4,243	–	10,132	–
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	(s)	116	70	3,485	113	1,141	144	2,562	7,444	9,555	–	23,376	–
1979	100	(s)	100	74	2,690	52	686	139	2,207	5,773	10,163	–	24,527	–
1980	144	(s)	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	(s)	458	65	3,093	374	603	358	1,074	5,501	11,401	–	27,313	–
1984	427	(s)	427	72	3,340	245	484	341	717	5,126	11,916	–	27,735	–
1985	340	(s)	340	70	2,637	133	413	351	388	3,923	12,257	–	28,797	–
1986	353	1	354	65	1,839	137	459	487	243	3,166	12,933	–	29,749	–
1987	351	1	351	65	1,396	50	525	464	278	2,712	13,455	–	30,743	–
1988	409	1	410	72	1,338	78	598	453	241	2,708	15,715	–	35,529	–
1989	336	1	336	74	1,155	40	721	429	353	2,697	15,863	–	35,575	–
1990	356	1	357	67	1,071	35	617	557	63	2,342	16,118	–	R 35,220	–
1991	278	2	280	68	1,176	43	616	353	205	2,393	17,016	–	R 36,996	–
1992	265	1	266	73	1,415	59	604	333	18	2,429	16,690	–	R 35,630	–
1993	217	2	219	78	1,619	48	665	289	38	2,660	R 17,526	–	R 37,014	–
1994	229	1	231	76	1,536	67	653	260	41	2,556	17,985	–	37,508	–
	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
1965	16.8	(s)	16.8	42.2	16.5	1.4	2.8	0.9	9.6	31.2	14.5	104.7	34.6	139.3
1970	10.5	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	9.4	72.3	19.5	1.4	1.7	1.8	4.5	28.9	40.7	151.3	94.6	245.9
1985	7.6	(s)	7.6	70.2	15.4	0.8	1.5	1.8	2.4	21.9	41.8	141.5	98.3	239.7
1986	7.9	(s)	7.9	65.4	10.7	0.8	1.7	2.6	1.5	17.2	44.1	134.7	101.5	236.2
1987	8.0	(s)	8.0	65.5	8.1	0.3	1.9	2.4	1.7	14.5	45.9	133.9	104.9	238.8
1988	9.2	(s)	9.3	72.8	7.8	0.4	2.2	2.4	1.5	14.3	53.6	150.0	121.2	271.2
1989	7.5	(s)	7.5	74.8	6.7	0.2	2.7	2.3	2.2	14.1	54.1	150.5	121.4	271.9
1990	8.0	(s)	8.0	R 68.4	6.2	0.2	2.2	2.9	0.4	12.0	55.0	143.5	R 120.2	263.6
1991	6.2	(s)	6.3	69.4	6.9	0.2	2.2	1.9	1.3	12.5	58.1	146.2	126.2	272.4
1992	5.9	(s)	6.0	R 73.5	8.2	0.3	2.2	1.8	0.1	12.6	56.9	149.1	R 121.6	270.7
1993	4.9	(s)	5.0	79.1	9.4	0.3	2.4	1.5	0.2	13.9	59.8	157.7	R 126.3	284.0
1994	5.2	(s)	5.2	76.8	8.9	0.4	2.4	1.4	0.3	13.3	61.4	156.7	128.0	284.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Indiana

Year	Coal	Natural Gas [a]	Petroleum								Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	16,702	102	3,277	9,976	202	1,716	489	2,813	11,229	9,955	39,656	(s)	0	0	8,226	–	20,461	–
1965	18,093	180	4,283	9,766	703	1,904	843	2,686	10,866	11,840	42,893	0	0	0	12,360	–	29,510	–
1970	19,394	268	6,101	10,180	115	1,455	974	2,238	8,391	14,109	43,562	0	0	0	17,952	–	43,504	–
1971	16,896	282	7,908	10,433	115	1,453	1,019	1,681	10,222	13,594	46,425	0	0	0	18,782	–	45,408	–
1972	20,067	291	7,016	10,582	69	1,768	1,091	1,622	12,110	14,314	48,573	0	0	0	20,555	–	49,476	–
1973	19,824	287	8,613	10,605	57	2,284	1,339	1,470	13,080	14,765	52,213	0	0	0	23,112	–	55,332	–
1974	18,854	271	8,258	9,540	62	3,218	1,282	1,540	13,676	14,271	51,847	0	0	0	23,572	–	57,474	–
1975	18,006	223	6,067	9,324	55	4,369	842	1,263	11,688	14,369	47,976	0	0	0	26,675	–	64,343	–
1976	16,753	197	5,365	10,081	92	6,284	935	1,149	15,606	13,095	52,607	0	0	0	30,102	–	72,511	–
1977	18,035	178	6,159	10,021	76	8,235	1,096	835	16,317	14,192	56,930	0	0	0	31,751	–	76,668	–
1978	18,157	194	8,428	10,150	85	6,360	1,177	1,078	14,414	13,969	55,659	0	0	0	31,988	–	78,259	–
1979	19,251	244	7,679	7,589	212	4,768	1,231	1,048	14,873	13,501	50,901	0	0	0	33,153	–	80,009	–
1980	16,599	245	5,165	5,053	136	3,930	1,096	752	11,984	12,920	41,036	0	0	0	30,730	–	74,725	–
1981	17,491	252	5,803	5,827	163	3,195	1,051	810	7,295	12,719	36,863	0	0	0	30,601	–	72,932	–
1982	13,092	224	5,400	5,343	230	3,297	959	611	4,565	10,985	31,390	0	0	0	28,347	–	68,084	–
1983	14,110	208	5,786	4,308	231	2,686	1,004	508	1,840	10,919	27,282	0	0	0	30,447	–	72,944	–
1984	14,516	221	6,001	4,652	233	1,888	1,070	965	1,228	11,745	27,781	0	0	0	27,411	–	63,803	–
1985	14,457	211	5,336	4,502	131	2,046	998	901	3,348	11,055	28,318	0	0	0	31,784	–	74,674	–
1986	12,788	183	6,063	5,372	201	2,935	975	831	4,016	R 9,896	R 30,290	0	0	0	30,950	–	71,194	–
1987	13,857	201	7,600	5,688	148	2,466	1,103	836	3,203	R 11,434	R 32,477	0	0	0	32,999	–	75,400	–
1988	15,139	219	6,941	4,265	115	2,620	1,063	804	2,735	R 12,971	R 31,514	0	0	0	33,474	–	75,677	–
1989	14,492	220	6,396	4,817	78	3,158	1,091	757	2,691	R 12,824	R 31,812	0	0	0	34,747	–	77,924	–
1990	13,496	228	8,552	4,555	54	5,299	1,123	621	3,620	R 13,831	R 37,656	R [f] NA	[f] NA	[f] NA	35,743	–	R 78,105	–
1991	12,638	228	7,058	5,332	47	5,243	1,004	708	2,944	R 15,217	R 37,554	R NA	NA	NA	35,787	–	R 77,808	–
1992	11,416	246	6,210	5,489	54	2,857	1,024	639	3,886	R 18,230	R 38,388	R NA	NA	NA	37,439	–	R 79,924	–
1993	11,178	263	9,501	4,758	45	3,217	1,043	739	2,547	R 16,130	R 37,980	R NA	NA	NA	39,415	–	R 83,242	–
1994	9,085	270	10,219	5,158	87	2,549	1,090	836	2,778	17,045	39,762	NA	NA	NA	40,763	–	85,009	–
			Trillion Btu															
1960	431.8	106.1	21.7	58.1	1.1	6.9	3.0	14.8	70.6	59.7	235.9	(s)	0.0	0.0	28.1	801.8	69.8	871.7
1965	466.3	179.8	28.4	56.9	4.0	7.6	5.1	14.1	68.3	70.2	254.7	0.0	0.0	0.0	42.2	942.9	100.7	1,043.6
1970	490.9	270.1	40.5	59.3	0.6	5.5	5.9	11.8	52.8	83.5	259.8	0.0	0.0	0.0	61.3	1,082.1	148.4	1,230.5
1971	427.5	284.2	52.5	60.8	0.7	5.5	6.2	8.8	64.3	80.5	279.2	0.0	0.0	0.0	64.1	1,054.9	154.9	1,209.8
1972	507.3	292.8	46.6	61.6	0.4	6.6	6.6	8.5	76.1	84.8	291.3	0.0	0.0	0.0	70.1	1,161.6	168.8	1,330.4
1973	504.4	286.9	57.2	61.8	0.3	8.6	8.1	7.7	82.2	87.4	313.3	0.0	0.0	0.0	78.9	1,183.4	188.8	1,372.2
1974	482.0	270.5	54.8	55.6	0.4	12.0	7.8	8.1	86.0	84.4	308.9	0.0	0.0	0.0	80.4	1,141.9	196.1	1,338.0
1975	461.6	221.1	40.3	54.3	0.3	16.2	5.1	6.6	73.5	85.1	281.4	0.0	0.0	0.0	91.0	1,055.2	219.5	1,274.7
1976	427.5	194.7	35.6	58.7	0.5	23.3	5.7	6.0	98.1	77.8	305.8	0.0	0.0	0.0	102.7	1,030.7	247.4	1,278.2
1977	459.4	175.8	40.9	58.4	0.4	30.3	6.6	4.4	102.6	84.4	327.9	0.0	0.0	0.0	108.3	1,071.5	261.6	1,333.1
1978	453.9	192.3	55.9	59.1	0.5	23.3	7.1	5.7	90.6	82.9	325.2	0.0	0.0	0.0	109.1	1,080.5	267.0	1,347.6
1979	484.3	241.8	51.0	44.2	1.2	17.5	7.5	5.5	93.5	79.8	300.2	0.0	0.0	0.0	113.1	1,139.4	273.0	1,412.4
1980	423.9	242.0	34.3	29.4	0.8	14.4	6.6	3.9	75.3	76.2	241.0	0.0	0.0	0.0	104.9	1,011.8	255.0	1,266.8
1981	446.1	250.4	38.5	33.9	0.9	11.6	6.4	4.3	45.9	74.7	216.2	0.0	0.0	0.0	104.4	1,017.1	248.8	1,266.0
1982	328.7	228.1	35.8	31.1	1.3	11.9	5.8	3.2	28.7	64.8	182.7	0.0	0.0	0.0	96.7	836.1	232.3	1,068.4
1983	355.5	209.0	38.4	25.1	1.3	9.7	6.1	2.7	11.6	64.7	159.5	0.0	0.0	0.0	103.9	827.8	248.9	1,076.7
1984	366.6	222.9	39.8	27.1	1.3	6.8	6.5	5.1	7.7	68.5	162.8	0.0	0.0	0.0	93.5	845.8	217.7	1,063.5
1985	365.1	212.8	35.4	26.2	0.7	7.4	6.1	4.7	21.1	65.1	166.7	0.0	0.0	0.0	108.4	853.0	254.8	1,107.8
1986	321.1	184.9	40.2	31.3	1.1	10.7	5.9	4.4	25.2	R 59.1	R 178.0	0.0	0.0	0.0	105.6	R 789.6	242.9	R 1,032.5
1987	349.5	203.2	50.4	33.1	0.8	9.0	6.7	4.4	20.1	R 67.6	R 192.2	0.0	0.0	0.0	112.6	R 857.6	257.3	R 1,114.8
1988	385.0	222.1	46.1	24.8	0.7	9.6	6.5	4.2	17.2	R 76.6	R 185.6	0.0	0.0	0.0	114.2	R 906.8	258.2	R 1,165.0
1989	368.1	223.5	42.4	28.1	0.4	11.6	6.6	4.0	16.9	R 75.3	R 185.4	0.0	0.0	0.0	118.6	R 895.5	265.9	R 1,161.4
1990	342.8	232.3	56.7	26.5	0.3	19.2	6.8	3.3	22.8	R 81.2	R 216.8	[f] 0.0	[f] 5.0	[f] 0.0	122.0	R [f] 918.9	R 266.5	R [f] 1,185.4
1991	321.6	231.0	46.8	31.1	0.3	18.9	6.1	3.7	18.5	R 88.6	R 214.0	0.0	5.0	0.0	122.1	R 893.8	R 265.5	R 1,159.3
1992	289.5	248.3	41.2	32.0	0.3	10.4	6.2	3.4	24.4	R 105.8	R 223.6	0.0	5.3	0.0	127.7	R 894.4	R 272.7	R 1,167.1
1993	281.5	266.7	63.1	27.7	0.3	11.6	6.3	3.9	16.0	R 93.5	R 222.4	0.0	5.3	0.0	134.5	R 910.4	R 284.0	R 1,194.4
1994	225.8	273.6	67.8	30.0	0.5	9.3	6.6	4.4	17.5	98.8	234.9	0.0	5.5	0.0	139.1	878.9	290.1	1,169.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Indiana

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	294	5	453	4,097	1,316	47	692	40,615	350	47,570	0	1	–	2	–
1965	60	8	1,110	5,124	1,848	52	615	45,194	583	54,526	0	0	–	0	–
1970	31	11	367	8,123	2,558	97	610	56,417	330	68,501	0	0	–	0	–
1971	22	12	352	8,483	2,699	125	608	58,348	240	70,855	0	0	–	0	–
1972	21	13	287	11,065	2,818	125	651	61,615	177	76,738	0	0	–	0	–
1973	14	13	276	11,624	2,851	135	725	64,394	128	80,132	0	0	–	0	–
1974	10	13	302	11,442	2,585	127	694	62,613	290	78,053	0	0	–	0	–
1975	3	10	217	11,200	2,619	125	763	63,256	331	78,510	0	0	–	0	–
1976	1	5	254	12,046	2,623	147	847	66,051	312	82,281	0	0	–	0	–
1977	1	5	262	13,252	2,653	158	692	66,353	305	83,675	0	0	–	0	–
1978	0	5	322	12,492	2,498	184	743	69,366	191	85,796	0	0	–	0	–
1979	0	10	257	17,575	2,554	134	777	64,184	131	85,611	0	0	–	0	–
1980	0	9	260	17,629	2,151	88	692	59,217	200	80,236	0	0	–	0	–
1981	0	9	188	17,134	2,848	179	664	60,125	189	81,326	0	0	–	0	–
1982	0	9	129	17,320	4,361	151	605	55,652	26	78,244	0	0	–	0	–
1983	0	6	151	17,538	4,395	163	634	56,576	91	79,547	0	0	–	0	–
1984	0	6	250	20,236	15,451	219	676	56,751	164	93,747	0	0	–	0	–
1985	0	5	393	20,665	15,445	148	630	56,670	31	93,982	0	0	–	0	–
1986	0	6	434	21,390	18,611	146	616	58,676	49	99,922	0	0	–	0	–
1987	0	6	378	21,451	19,141	130	696	61,870	113	103,779	0	0	–	0	–
1988	0	9	432	19,970	16,546	149	671	62,968	154	100,890	0	0	–	0	–
1989	0	8	288	24,466	17,557	151	689	60,486	212	103,849	0	0	–	0	–
1990	0	8	302	24,950	17,889	154	709	60,395	197	104,596	[e]50,112	11	–	23	–
1991	0	5	302	23,622	17,228	159	634	60,222	90	102,257	39,723	11	–	23	–
1992	0	5	252	22,893	16,001	162	646	61,016	208	101,179	48,279	11	–	23	–
1993	0	7	201	24,229	16,366	127	658	64,482	340	106,403	53,880	R11	–	R24	–
1994	0	7	149	26,895	17,299	234	688	64,775	226	110,266	59,763	11	–	24	–
			Trillion Btu												
1960	7.1	5.2	2.3	23.9	7.1	0.2	4.2	213.3	2.2	253.2	0.0	(s)	265.5	(s)	265.5
1965	1.4	8.0	5.6	29.8	10.2	0.2	3.7	237.4	3.7	290.6	0.0	0.0	300.1	0.0	300.1
1970	0.7	11.2	1.9	47.3	14.2	0.4	3.7	296.4	2.1	365.9	0.0	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	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	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	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	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	0.0	430.0	0.0	430.0
1976	(s)	5.0	1.3	70.2	14.6	0.5	5.1	347.0	2.0	440.7	0.0	0.0	445.7	0.0	445.7
1977	(s)	4.7	1.3	77.2	14.8	0.6	4.2	348.6	1.9	448.6	0.0	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	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	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	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	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	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	0.0	435.4	0.0	435.4
1984	0.0	6.1	1.3	117.9	87.4	0.8	4.1	298.1	1.0	510.5	0.0	0.0	516.6	0.0	516.6
1985	0.0	4.9	2.0	120.4	87.4	0.5	3.8	297.7	0.2	512.0	0.0	0.0	516.8	0.0	516.8
1986	0.0	5.9	2.2	124.6	105.3	0.5	3.7	308.2	0.3	544.9	0.0	0.0	550.8	0.0	550.8
1987	0.0	6.0	1.9	125.0	108.3	0.5	4.2	325.0	0.7	565.6	0.0	0.0	571.5	0.0	571.5
1988	0.0	9.4	2.2	116.3	93.6	0.5	4.1	330.8	1.0	548.4	0.0	0.0	557.8	0.0	557.8
1989	0.0	8.6	1.5	142.5	99.3	0.6	4.2	317.7	1.3	567.1	0.0	0.0	575.7	0.0	575.7
1990	0.0	8.6	1.5	145.3	101.3	0.6	4.3	317.3	1.2	571.5	[e]3.8	(s)	[e]580.1	0.1	[e]580.2
1991	0.0	4.7	1.5	137.6	97.5	0.6	3.8	316.3	0.6	557.9	3.0	(s)	R562.7	0.1	R562.8
1992	0.0	4.8	1.3	133.4	90.5	0.6	3.9	320.5	1.3	551.5	3.7	(s)	R556.4	0.1	556.4
1993	0.0	R6.9	1.0	141.1	92.7	0.5	4.0	338.7	2.1	580.1	4.1	(s)	R587.1	0.1	587.1
1994	0.0	7.0	0.8	156.7	98.0	0.9	4.2	340.3	1.4	602.1	4.6	(s)	609.2	0.1	609.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Indiana

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	18,113	0	18,113	13	63	80	0	142	0	94	0	0	0	–
1970	22,648	0	22,648	30	204	257	255	716	0	495	0	0	0	–
1971	22,963	0	22,963	31	425	261	175	861	0	431	0	0	0	–
1972	24,222	0	24,222	18	670	311	200	1,182	0	385	0	0	0	–
1973	26,937	0	26,937	10	789	171	630	1,591	0	480	0	0	0	–
1974	25,470	0	25,470	14	2,478	265	615	3,358	0	445	0	0	0	–
1975	27,301	0	27,301	11	1,344	477	0	1,821	0	444	0	0	0	–
1976	28,937	0	28,937	3	1,167	418	0	1,585	0	479	0	0	0	–
1977	29,879	0	29,879	1	1,655	646	0	2,301	0	374	0	0	0	–
1978	28,869	0	28,869	3	3,244	836	0	4,080	0	361	0	0	0	–
1979	31,593	0	31,593	3	906	544	0	1,450	0	438	0	0	0	–
1980	33,664	0	33,664	2	0	730	0	730	0	474	0	0	0	–
1981	32,219	0	32,219	5	0	743	0	743	0	509	0	0	0	–
1982	30,566	0	30,566	3	0	525	0	525	0	428	0	0	0	–
1983	33,525	0	33,525	3	0	356	0	356	0	418	0	0	0	–
1984	38,398	0	38,398	1	0	306	0	306	0	436	0	0	0	–
1985	38,310	0	38,310	1	0	414	0	414	0	426	0	0	0	–
1986	37,309	0	37,309	1	0	323	239	562	0	506	0	0	0	–
1987	36,987	0	36,987	1	0	352	279	632	0	507	0	0	0	–
1988	40,060	0	40,060	3	0	379	324	703	0	441	0	0	0	–
1989	42,378	0	42,378	4	0	370	440	810	0	450	0	0	0	–
1990	47,654	0	47,654	7	0	423	956	1,379	0	441	0	0	0	–
1991	47,720	0	47,720	10	0	351	346	698	0	399	0	0	0	–
1992	46,937	0	46,937	8	0	264	301	565	0	562	0	0	0	–
1993	48,836	0	48,836	6	0	393	0	393	0	448	0	0	0	–
1994	50,554	0	50,554	9	0	412	0	412	0	407	0	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	0.0	316.8
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	0.0	422.0
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	836.2
1985	816.5	0.0	816.5	1.1	0.0	2.4	0.0	2.4	0.0	4.5	0.0	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	5.3	0.0	0.0	0.0	806.6
1987	804.7	0.0	804.7	1.3	0.0	2.1	1.7	3.7	0.0	5.3	0.0	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	4.6	0.0	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	4.6	0.0	0.0	0.0	920.3
1990	1,006.6	0.0	1,006.6	6.6	0.0	2.5	5.8	8.2	0.0	4.6	0.0	0.0	0.0	1,026.1
1991	1,008.8	0.0	1,008.8	10.1	0.0	2.0	2.1	4.1	0.0	4.1	0.0	0.0	0.0	1,027.1
1992	997.7	0.0	997.7	7.8	0.0	1.5	1.8	3.4	0.0	5.8	0.0	0.0	0.0	1,014.7
1993	1,029.4	0.0	1,029.4	5.7	0.0	2.3	0.0	2.3	0.0	4.6	0.0	0.0	0.0	1,042.0
1994	1,065.1	0.0	1,065.1	9.2	0.0	2.4	0.0	2.4	0.0	4.2	0.0	0.0	0.0	1,080.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Iowa

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	44	53,197	0	881	25	0	-2,370	–
1965	5,722	248	2,569	358	11,068	232	1,523	7,448	698	30,792	531	542	55,760	0	928	30	0	3,241	–
1970	6,166	349	2,914	256	13,677	725	490	11,038	700	35,701	401	627	66,528	0	935	38	0	1,618	–
1971	5,896	345	3,120	261	14,257	655	372	11,139	585	37,325	414	899	69,026	0	913	46	0	4,691	–
1972	6,945	345	2,970	239	14,941	730	506	12,506	626	38,404	509	984	72,416	0	993	45	0	6,282	–
1973	7,026	365	2,608	98	15,531	710	541	12,692	751	42,104	572	1,061	76,667	0	906	46	0	9,954	–
1974	6,173	368	2,567	232	14,825	749	357	13,369	719	38,847	697	1,090	73,453	1,330	891	34	0	12,414	–
1975	6,407	346	2,294	191	14,553	835	214	13,645	655	39,042	608	986	73,024	2,291	879	40	0	13,729	–
1976	8,311	311	2,439	206	15,088	964	215	18,586	728	40,738	931	3,121	83,016	2,479	645	35	0	12,874	–
1977	9,175	280	2,553	204	15,977	1,004	203	17,854	713	41,237	1,096	3,745	84,587	2,888	780	22	0	14,644	–
1978	10,110	238	2,843	214	16,915	1,127	202	15,698	766	40,927	921	4,069	83,681	1,209	930	8	0	22,524	–
1979	11,352	292	3,154	191	20,711	1,039	460	14,686	801	38,501	1,216	4,962	85,722	2,889	898	0	0	15,647	–
1980	12,340	270	1,699	184	15,930	813	171	11,167	714	35,394	415	5,236	71,721	2,563	946	29	0	13,041	–
1981	13,483	253	1,972	161	14,513	717	374	9,891	684	34,274	98	2,381	65,066	2,204	982	17	0	14,484	–
1982	13,033	237	1,915	111	16,235	635	450	11,953	624	33,030	334	1,850	67,137	2,269	918	23	0	17,193	–
1983	13,540	221	1,603	109	14,099	591	89	12,026	653	32,386	207	1,623	63,387	2,309	920	45	0	18,752	–
1984	13,624	235	1,841	89	15,360	615	180	7,336	697	32,223	140	1,890	60,371	2,700	918	45	0	9,868	–
1985	14,342	226	2,023	83	15,490	592	155	8,507	649	31,458	182	1,778	60,918	1,927	2,048	60	0	6,022	–
1986	13,862	207	2,038	151	15,962	595	115	8,774	635	31,356	508	R877	R51,010	2,993	953	70	0	8,942	–
1987	15,191	203	1,788	110	15,762	779	110	6,098	718	31,614	117	R905	R58,002	2,523	971	67	0	6,760	–
1988	16,114	239	2,213	145	15,946	713	107	6,612	692	32,552	258	R868	R60,106	3,163	699	57	0	4,806	–
1989	17,126	226	1,710	111	14,961	750	71	7,174	710	32,558	183	R847	R59,076	3,139	673	24	0	3,738	–
1990	17,929	218	1,537	99	15,223	891	81	6,355	731	31,502	126	R937	R57,481	3,012	R[i]NA	[i]NA	[i]NA	R550	–
1991	18,741	233	1,563	82	14,605	892	51	7,255	654	32,461	96	R676	R58,336	4,147	RNA	NA	NA	R-1,928	–
1992	17,992	231	1,406	75	16,370	803	42	8,978	666	31,720	107	R748	R60,915	3,405	RNA	NA	NA	R397	–
1993	19,188	248	1,354	70	16,970	720	71	R15,651	679	32,693	164	R756	R69,129	3,235	RNA	NA	NA	R1,638	–
1994	19,341	248	1,964	69	18,531	897	60	15,806	709	33,899	182	688	72,805	4,107	NA	NA	NA	-553	–
			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	285.9	0.0	9.5	0.3	0.0	-8.1	597.2
1965	126.6	250.0	17.0	1.8	64.5	1.3	8.6	29.9	4.2	161.7	3.3	2.9	295.3	0.0	9.7	0.3	0.0	11.1	693.0
1970	130.9	351.8	19.3	1.3	79.7	4.1	2.8	41.7	4.2	187.5	2.5	3.3	346.4	0.0	9.8	0.4	0.0	5.5	844.8
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	0.5	0.0	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	0.5	0.0	21.4	900.7
1973	148.7	369.0	17.3	0.5	90.5	4.0	3.1	47.5	4.6	221.2	3.6	5.8	397.9	0.0	9.4	0.5	0.0	34.0	959.5
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	379.4	14.8	9.3	0.4	0.0	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	5.4	375.8	25.2	9.1	0.4	0.0	46.8	937.6
1976	169.5	313.9	16.2	1.0	87.9	5.4	1.2	69.0	4.4	214.0	5.9	17.3	422.3	27.4	6.7	0.4	0.0	43.9	984.1
1977	185.1	281.4	16.9	1.0	93.1	5.6	1.2	65.6	4.3	216.6	6.9	21.0	432.3	31.1	8.1	0.2	0.0	50.0	988.2
1978	201.3	238.8	18.9	1.1	98.5	6.3	1.1	57.6	4.6	215.0	5.8	22.8	431.8	13.2	9.6	0.1	0.0	76.9	971.6
1979	219.4	292.2	20.9	1.0	120.6	5.9	2.6	54.0	4.9	202.2	7.6	27.4	447.2	31.4	9.3	0.0	0.0	53.4	1,053.0
1980	234.4	270.4	11.3	0.9	92.8	4.6	1.0	41.0	4.3	185.9	2.6	28.7	373.1	28.0	9.8	0.3	0.0	44.5	960.5
1981	252.1	254.0	13.1	0.8	84.5	4.0	2.1	36.0	4.2	180.0	0.6	13.0	338.4	24.3	10.3	0.2	0.0	49.4	928.7
1982	243.9	239.0	12.7	0.6	94.6	3.6	2.6	43.2	3.8	173.5	2.1	10.1	346.6	25.1	9.6	0.2	0.0	58.7	923.1
1983	253.7	223.6	10.6	0.6	82.1	3.3	0.5	43.5	4.0	170.1	1.3	9.0	324.9	25.2	9.7	0.5	0.0	64.0	901.5
1984	251.5	238.4	12.2	0.4	89.5	3.4	1.0	26.4	4.2	169.3	0.9	10.1	317.5	29.3	9.6	0.5	0.0	33.7	880.5
1985	268.8	228.4	13.4	0.4	90.2	3.3	0.9	30.7	3.9	165.2	1.1	9.6	318.9	20.8	21.4	0.6	0.0	20.5	879.5
1986	262.1	209.0	13.5	0.8	93.0	3.3	0.7	31.9	3.9	164.7	3.2	R4.7	R319.7	32.3	10.0	0.7	0.0	30.5	R864.3
1987	287.3	204.7	11.9	0.6	91.8	4.4	0.6	22.3	4.4	166.1	0.7	R4.9	R307.6	27.2	10.1	0.7	0.0	23.1	R860.7
1988	306.1	240.8	14.7	0.7	92.9	4.0	0.6	24.1	4.2	171.0	1.6	R4.7	R318.6	34.0	7.2	0.6	0.0	16.4	R923.7
1989	319.0	228.2	11.3	0.6	87.1	4.2	0.4	26.4	4.3	171.0	1.2	R4.6	R311.2	33.7	6.9	0.2	0.0	12.8	R911.9
1990	331.7	219.7	10.2	0.5	88.7	5.0	0.5	23.0	4.4	165.5	0.8	R5.1	R303.7	32.2	R[i]9.0	[i]12.4	[i](s)	R1.9	R[i]906.5
1991	346.4	235.0	10.4	0.4	85.1	5.0	0.3	26.2	4.0	170.5	0.6	R3.6	R306.1	44.5	R9.3	12.0	(s)	R-6.6	R943.6
1992	326.7	231.9	9.3	0.4	95.4	4.5	0.2	32.5	4.0	166.6	0.7	R4.0	R317.7	36.4	R10.3	13.1	(s)	R1.4	R933.5
1993	339.9	R248.8	9.0	0.4	98.9	4.1	0.4	R56.4	4.1	171.7	1.0	R4.0	R350.0	34.6	R7.7	12.3	(s)	R5.6	R994.5
1994	346.9	250.3	13.0	0.3	107.9	5.1	0.3	57.5	4.3	178.1	1.1	3.7	371.4	43.9	11.0	13.1	(s)	-1.9	1,030.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[i] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Iowa

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	319	0	319	58	2,610	2,301	3,312	8,223	0	0	3,720	–	9,253	–
1965	171	0	171	77	2,347	1,327	4,741	8,416	0	0	5,044	–	12,042	–
1970	62	0	62	96	2,232	325	6,826	9,383	0	0	6,480	–	15,703	–
1971	42	0	42	92	2,003	247	6,844	9,094	0	0	6,854	–	16,569	–
1972	26	0	26	96	2,300	344	7,568	10,211	0	0	7,276	–	17,515	–
1973	26	0	26	91	2,215	369	7,257	9,841	0	0	7,651	–	18,317	–
1974	40	0	40	92	1,965	213	6,774	8,953	0	0	7,798	–	19,013	–
1975	49	0	49	94	1,802	138	6,799	8,740	0	0	8,338	–	20,112	–
1976	21	0	21	90	1,843	124	7,129	9,096	0	0	8,422	–	20,288	–
1977	25	0	25	87	1,935	134	6,664	8,733	0	0	8,852	–	21,374	–
1978	86	0	86	81	2,160	135	6,078	8,372	0	0	9,634	–	23,570	–
1979	111	0	111	96	3,328	245	5,040	8,612	0	0	9,701	–	23,412	–
1980	32	0	32	85	2,388	47	3,890	6,325	0	0	10,038	–	24,409	–
1981	69	1	70	77	2,011	235	3,601	5,848	0	0	9,852	–	23,479	–
1982	61	3	64	85	2,110	299	3,768	6,177	0	0	10,198	–	24,494	–
1983	66	0	66	77	1,014	54	4,482	5,550	0	0	11,064	–	26,507	–
1984	74	1	76	80	1,095	133	2,945	4,173	0	0	9,870	–	22,974	–
1985	97	1	98	79	1,435	115	2,996	4,546	0	0	9,851	–	23,144	–
1986	89	1	89	74	1,388	75	3,267	4,730	0	0	10,008	–	23,021	–
1987	117	1	119	65	1,218	57	2,523	3,799	0	0	10,045	–	22,952	–
1988	130	9	138	76	1,116	78	3,073	4,266	0	0	10,677	–	24,138	–
1989	60	2	63	77	1,065	41	3,372	4,479	0	0	10,394	–	23,311	–
1990	85	1	86	71	797	24	2,742	3,563	[o]348	[o]2	10,513	–	R22,973	–
1991	78	(s)	78	79	887	34	3,359	4,279	366	2	11,159	–	R24,262	–
1992	22	1	23	75	779	20	3,401	4,199	386	2	10,290	–	R21,968	–
1993	23	3	26	83	821	33	3,955	4,809	319	2	11,103	–	R23,449	–
1994	13	2	15	78	973	19	3,925	4,917	313	2	11,062	–	23,069	–
							Trillion Btu							
1960	6.8	0.0	6.8	60.5	15.2	13.0	13.3	41.5	0.0	0.0	12.7	121.5	31.6	153.1
1965	3.6	0.0	3.6	78.0	13.7	7.5	19.0	40.2	0.0	0.0	17.2	139.1	41.1	180.2
1970	1.3	0.0	1.3	97.1	13.0	1.8	25.8	40.6	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	34.2	148.6	83.3	231.8
1981	1.4	(s)	1.4	77.2	11.7	1.3	13.1	26.2	0.0	0.0	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	0.0	0.0	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	0.0	0.0	37.8	140.0	90.4	230.4
1984	1.6	(s)	1.6	80.9	6.4	0.8	10.6	17.7	0.0	0.0	33.7	133.9	78.4	212.3
1985	2.1	(s)	2.1	79.6	8.4	0.7	10.8	19.8	0.0	0.0	33.6	135.1	79.0	214.1
1986	1.9	(s)	1.9	74.9	8.1	0.4	11.9	20.4	0.0	0.0	34.1	131.4	78.5	209.9
1987	2.4	(s)	2.5	65.8	7.1	0.3	9.2	16.7	0.0	0.0	34.3	119.1	78.3	197.5
1988	2.7	0.2	2.9	76.6	6.5	0.4	11.2	18.2	0.0	0.0	36.4	134.1	82.4	216.5
1989	1.4	0.1	1.4	78.3	6.2	0.2	12.4	18.9	0.0	0.0	35.5	134.0	79.5	213.6
1990	2.0	(s)	2.1	71.9	4.6	0.1	9.9	14.7	[o]7.0	[o](s)	35.9	R[o]131.5	78.4	R[o]209.9
1991	1.9	(s)	1.9	79.4	5.2	0.2	12.1	17.5	7.3	(s)	38.1	R144.2	82.8	R227.0
1992	0.5	(s)	0.5	75.2	4.5	0.1	12.3	17.0	7.7	(s)	35.1	R135.5	R75.0	R210.5
1993	0.5	0.1	0.6	R83.7	4.8	0.2	14.3	19.2	6.4	(s)	37.9	R147.8	80.0	R227.8
1994	0.3	0.1	0.4	78.9	5.7	0.1	14.3	20.0	6.3	(s)	37.7	143.3	78.7	222.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[o] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Iowa

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	318	0	318	39	941	54	837	194	135	2,161	2,797	–	6,679	–
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	520	204	3	2,052	6,285	–	14,628	–
1985	179	1	180	48	1,124	7	529	237	1	1,898	6,306	–	14,816	–
1986	165	(s)	165	44	681	2	577	273	39	1,571	6,551	–	15,068	–
1987	218	1	219	38	759	6	445	265	18	1,493	6,717	–	15,347	–
1988	241	6	247	45	685	5	542	340	20	1,592	7,136	–	16,133	–
1989	112	2	113	46	490	6	595	233	33	1,357	7,301	–	16,373	–
1990	158	1	159	44	495	38	484	141	31	1,189	7,532	–	R 16,458	–
1991	145	(s)	145	47	563	3	593	727	9	1,894	7,938	–	R 17,259	–
1992	40	1	41	46	488	4	600	645	37	1,775	7,783	–	R 16,616	–
1993	42	2	44	50	356	7	698	637	5	1,703	8,536	–	R 18,027	–
1994	24	1	25	48	391	13	693	35	1	1,132	8,753	–	18,255	–
					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
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
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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	2.5	1.8	0.5	9.3	18.8	79.9	45.6	125.6
1981	2.6	(s)	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	(s)	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	(s)	2.9	1.3	(s)	11.3	24.5	86.0	58.7	144.7
1984	2.9	(s)	2.9	48.8	7.7	(s)	1.9	1.1	(s)	10.7	21.4	83.8	49.9	133.8
1985	3.8	(s)	3.9	48.2	6.5	(s)	1.9	1.2	(s)	9.7	21.5	83.3	50.6	133.8
1986	3.5	(s)	3.5	44.1	4.0	(s)	2.1	1.4	0.2	7.8	22.4	77.7	51.4	129.2
1987	4.5	(s)	4.5	38.4	4.4	(s)	1.6	1.4	0.1	7.6	22.9	73.4	52.4	125.7
1988	4.9	0.2	5.1	45.3	4.0	(s)	2.0	1.8	0.1	7.9	24.3	82.6	55.0	137.7
1989	2.5	(s)	2.6	46.7	2.9	(s)	2.2	1.2	0.2	6.5	24.9	80.7	55.9	136.5
1990	3.8	(s)	3.8	44.3	2.9	0.2	1.8	0.7	0.2	5.8	25.7	79.6	R 56.2	135.7
1991	3.5	(s)	3.5	47.0	3.3	(s)	2.1	3.8	0.1	9.3	27.1	86.9	58.9	R 145.8
1992	0.9	(s)	1.0	46.3	2.8	(s)	2.2	3.4	0.2	8.7	26.6	82.5	56.7	R 139.2
1993	1.0	0.1	1.0	R 50.5	2.1	(s)	2.5	3.3	(s)	8.0	29.1	R 88.7	61.5	R 150.2
1994	0.6	(s)	0.6	48.3	2.3	0.1	2.5	0.2	(s)	5.1	29.9	83.8	62.3	146.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Iowa

Year	Coal	Natural Gas [a]	Petroleum: Asphalt and Road Oil [b]	Petroleum: Distillate Fuel [b]	Petroleum: Kerosene [b]	Petroleum: LPG [b]	Petroleum: Lubricants [b]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [b]	Petroleum: Other [b,c]	Petroleum: Total	Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	2,193	43	2,579	5,536	192	1,098	196	5,797	573	44	16,016	2	0	0	2,676	–	6,657	–
1965	2,464	68	2,569	5,607	142	1,815	218	5,373	354	542	16,620	2	0	0	3,719	–	8,879	–
1970	1,955	99	2,914	5,884	152	2,949	220	5,391	261	627	18,398	1	0	0	5,338	–	12,936	–
1971	1,460	102	3,120	5,790	115	3,020	188	4,401	220	899	17,753	1	0	0	5,658	–	13,679	–
1972	1,592	106	2,970	5,539	148	3,544	202	4,341	172	984	17,900	1	0	0	6,361	–	15,310	–
1973	1,598	132	2,608	5,632	157	4,088	245	4,889	300	1,061	18,979	1	0	0	7,034	–	16,840	–
1974	1,340	133	2,567	5,083	135	5,340	234	3,825	404	1,090	18,678	1	0	0	7,199	–	17,552	–
1975	1,333	121	2,294	4,670	70	5,593	155	3,791	279	986	17,837	1	0	0	6,626	–	15,984	–
1976	1,554	122	2,439	4,589	86	10,154	172	2,788	386	3,121	23,735	1	0	0	7,367	–	17,745	–
1977	1,510	112	2,553	4,768	64	9,966	192	2,423	541	3,745	24,252	1	0	0	8,029	–	19,388	–
1978	1,411	95	2,843	5,351	62	8,480	206	1,911	381	4,069	23,301	1	0	0	8,603	–	21,047	–
1979	1,687	118	3,154	6,738	205	8,719	215	1,739	650	4,932	26,352	1	0	0	8,855	–	21,370	–
1980	1,505	115	1,699	4,698	119	6,557	192	2,612	273	5,236	21,385	1	0	0	9,318	–	22,658	–
1981	1,476	115	1,972	4,310	125	5,551	184	2,902	57	2,381	17,482	1	0	0	9,750	–	23,238	–
1982	1,420	89	1,915	4,589	115	7,417	168	2,162	281	1,850	18,496	1	0	0	9,321	–	22,386	–
1983	1,430	85	1,603	3,816	31	6,630	176	928	185	1,623	14,991	1	0	0	9,507	–	22,777	–
1984	1,443	93	1,841	4,121	42	3,728	187	1,740	123	1,890	13,672	1	0	0	9,527	–	22,176	–
1985	1,572	87	2,023	4,788	33	4,893	175	1,703	179	1,778	15,571	1	0	0	9,520	–	22,367	–
1986	1,563	80	2,038	5,849	39	4,789	171	1,508	469	R877	R15,739	1	0	0	9,797	–	22,535	–
1987	1,857	88	1,788	4,957	47	3,082	193	1,486	92	R905	R12,550	1	0	0	10,264	–	23,453	–
1988	1,808	102	2,213	5,136	24	2,951	186	1,409	238	R868	R13,026	1	0	0	11,025	–	24,924	–
1989	2,351	89	1,710	4,110	24	3,156	191	1,303	150	R847	R11,491	1	0	0	11,017	–	24,707	–
1990	2,353	90	1,537	4,137	19	3,086	196	1,065	95	R937	R11,074	R[f]NA	[f]NA	[f]NA	11,392	–	R24,895	–
1991	2,672	97	1,563	4,604	15	3,255	176	1,159	87	R676	R11,536	RNA	NA	NA	11,684	–	R25,404	–
1992	2,571	101	1,406	6,221	18	4,932	179	1,052	70	R748	R14,625	RNA	NA	NA	12,134	–	R25,904	–
1993	2,494	103	1,354	6,150	31	R10,944	182	799	160	R756	R20,378	RNA	NA	NA	12,465	–	R26,325	–
1994	2,735	109	1,964	6,680	28	11,038	191	1,109	181	688	21,878	NA	NA	NA	13,224	–	27,578	–
			Trillion Btu															
1960	51.7	44.9	17.1	32.2	1.1	4.4	1.2	30.5	3.6	0.2	90.3	(s)	0.0	0.0	9.1	196.0	22.7	218.7
1965	57.5	68.9	17.0	32.7	0.8	7.3	1.3	28.2	2.2	2.9	92.4	(s)	0.0	0.0	12.7	231.6	30.3	261.8
1970	43.0	99.9	19.3	34.3	0.9	11.1	1.3	28.3	1.6	3.3	100.2	(s)	0.0	0.0	18.2	261.3	44.1	305.4
1971	31.7	103.0	20.7	33.7	0.7	11.4	1.1	23.1	1.4	4.8	97.0	(s)	0.0	0.0	19.3	251.0	46.7	297.7
1972	34.3	106.5	19.7	32.3	0.8	13.3	1.2	22.8	1.1	5.3	96.6	(s)	0.0	0.0	21.7	259.1	52.2	311.4
1973	34.5	133.4	17.3	32.8	0.9	15.3	1.5	25.7	1.9	5.8	101.1	(s)	0.0	0.0	24.0	293.1	57.5	350.5
1974	28.7	134.8	17.0	29.6	0.8	19.9	1.4	20.1	2.5	5.9	97.3	(s)	0.0	0.0	24.6	285.3	59.9	345.2
1975	28.4	122.5	15.2	27.2	0.4	20.8	0.9	19.9	1.8	5.4	91.6	(s)	0.0	0.0	22.6	265.1	54.5	319.6
1976	32.7	123.3	16.2	26.7	0.5	37.7	1.0	14.6	2.4	17.3	116.5	(s)	0.0	0.0	25.1	297.7	60.5	358.2
1977	31.7	112.6	16.9	27.8	0.4	36.6	1.2	12.7	3.4	21.0	120.0	(s)	0.0	0.0	27.4	291.7	66.2	357.8
1978	29.7	95.2	18.9	31.2	0.4	31.1	1.2	10.0	2.4	22.8	118.0	(s)	0.0	0.0	29.4	272.2	71.8	344.0
1979	36.1	118.4	20.9	39.2	1.2	32.1	1.3	9.1	4.1	27.3	135.2	(s)	0.0	0.0	30.2	319.9	72.9	392.8
1980	32.4	114.9	11.3	27.4	0.7	24.1	1.2	13.7	1.7	28.7	108.7	(s)	0.0	0.0	31.8	287.7	77.3	365.0
1981	32.1	115.5	13.1	25.1	0.7	20.2	1.1	15.2	0.4	13.0	88.8	(s)	0.0	0.0	33.3	269.7	79.3	349.0
1982	31.2	90.1	12.7	26.7	0.7	26.8	1.0	11.4	1.8	10.1	91.1	(s)	0.0	0.0	31.8	244.2	76.4	320.6
1983	31.6	86.3	10.6	22.2	0.2	24.0	1.1	4.9	1.2	9.0	73.1	(s)	0.0	0.0	32.4	223.4	77.7	301.1
1984	32.3	94.7	12.2	24.0	0.2	13.4	1.1	9.1	0.8	10.1	71.1	(s)	0.0	0.0	32.5	230.7	75.7	306.3
1985	35.6	88.0	13.4	27.9	0.2	17.6	1.1	8.9	1.1	9.6	79.9	(s)	0.0	0.0	32.5	235.9	76.3	312.2
1986	35.5	81.2	13.5	34.1	0.2	17.4	1.0	7.9	3.0	R4.7	R81.9	(s)	0.0	0.0	33.4	R232.0	76.9	R308.8
1987	42.5	89.1	11.9	28.9	0.3	11.3	1.2	7.8	0.6	R4.9	R66.7	(s)	0.0	0.0	35.0	R233.3	80.0	R313.3
1988	41.7	102.7	14.7	29.9	0.1	10.8	1.1	7.4	1.5	R4.7	R70.2	(s)	0.0	0.0	37.6	R252.3	85.0	R337.3
1989	54.0	90.3	11.3	23.9	0.1	11.6	1.2	6.8	0.9	R4.6	R60.6	(s)	0.0	0.0	37.6	R242.4	84.3	R326.7
1990	53.1	90.9	10.2	24.1	0.1	11.2	1.2	5.6	0.6	R5.1	R58.0	R[f]0.2	[f]1.3	[f]0.0	38.9	R[f]242.4	84.9	R[f]327.3
1991	59.3	98.2	10.4	26.8	0.1	11.8	1.1	6.1	0.5	R3.6	R60.4	R0.2	1.3	0.0	39.9	R259.2	R86.7	R345.9
1992	52.9	101.2	9.3	36.2	0.1	17.9	1.1	5.5	0.4	R4.0	R74.6	R0.2	1.3	0.0	41.4	R271.6	R88.4	R359.9
1993	50.3	102.9	9.0	35.8	0.2	R39.5	1.1	4.2	1.0	R4.0	R94.8	R0.1	1.4	0.0	42.5	R292.1	89.8	R381.9
1994	55.0	109.6	13.0	38.9	0.2	40.1	1.2	5.8	1.1	3.7	104.0	0.2	1.8	0.0	45.1	315.7	94.1	409.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Iowa

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	36	9	366	1,711	195	23	516	23,488	227	26,526	0	0	–	0	–
1965	8	11	358	1,991	232	55	480	25,224	15	28,354	0	0	–	0	–
1970	3	18	256	4,339	725	58	480	30,039	26	35,923	0	0	–	0	–
1971	2	20	261	5,285	655	67	397	32,649	6	39,318	0	0	–	0	–
1972	2	20	239	5,640	730	58	425	33,778	0	40,871	0	0	–	0	–
1973	1	16	98	6,532	710	66	506	36,911	0	44,824	0	0	–	0	–
1974	1	17	232	6,629	749	59	485	34,716	0	42,870	0	0	–	0	–
1975	(s)	16	191	6,851	835	53	501	34,929	0	43,359	0	0	–	0	–
1976	(s)	9	206	7,439	964	45	556	37,119	18	46,348	0	0	–	0	–
1977	(s)	7	204	7,945	1,004	48	521	37,633	13	47,369	0	0	–	0	–
1978	0	5	214	7,776	1,127	68	560	37,826	6	47,577	0	0	–	0	–
1979	0	11	191	8,816	1,039	39	586	35,494	0	46,165	0	0	–	0	–
1980	0	13	184	7,924	813	34	522	32,432	0	41,909	0	0	–	0	–
1981	0	11	161	7,394	717	103	500	30,991	7	39,874	0	0	–	0	–
1982	0	9	111	8,756	635	103	456	30,487	0	40,549	0	0	–	0	–
1983	0	8	109	7,907	591	123	478	31,217	3	40,428	0	0	–	0	–
1984	0	11	89	8,715	615	143	509	30,280	5	40,356	0	0	–	0	–
1985	0	10	83	8,042	592	90	475	29,518	0	38,800	0	0	–	0	–
1986	0	7	151	7,940	595	141	464	29,575	0	38,866	0	0	–	0	–
1987	0	8	110	8,713	779	48	525	29,863	8	40,045	0	0	–	0	–
1988	0	11	145	8,886	713	46	506	30,803	0	41,100	0	0	–	0	–
1989	0	10	111	9,184	750	51	519	31,021	(s)	41,637	0	0	–	0	–
1990	0	9	99	9,671	891	43	534	30,295	(s)	41,533	[e] 52,636	0	–	0	–
1991	0	7	82	8,442	892	49	478	30,575	0	40,518	41,724	0	–	0	–
1992	0	7	75	8,792	803	46	487	30,023	0	40,225	50,710	0	–	0	–
1993	0	7	70	9,521	720	54	496	31,257	0	42,118	56,594	0	–	0	–
1994	0	11	69	10,305	897	151	519	32,755	0	44,695	62,773	0	–	0	–
			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	0.0	151.0	0.0	151.0
1965	0.2	11.2	1.8	11.6	1.3	0.2	2.9	132.5	0.1	150.4	0.0	0.0	161.7	0.0	161.7
1970	0.1	18.5	1.3	25.3	4.1	0.2	2.9	157.8	0.2	191.7	0.0	0.0	210.2	0.0	210.2
1971	(s)	20.0	1.3	30.8	3.7	0.3	2.4	171.5	(s)	210.0	0.0	0.0	230.0	0.0	230.0
1972	(s)	20.5	1.2	32.9	4.1	0.2	2.6	177.4	0.0	218.4	0.0	0.0	238.9	0.0	238.9
1973	(s)	16.7	0.5	38.1	4.0	0.2	3.1	193.9	0.0	239.7	0.0	0.0	256.5	0.0	256.5
1974	(s)	17.4	1.2	38.6	4.2	0.2	2.9	182.4	0.0	229.5	0.0	0.0	246.9	0.0	246.9
1975	(s)	16.2	1.0	39.9	4.7	0.2	3.0	183.5	0.0	232.3	0.0	0.0	248.5	0.0	248.5
1976	(s)	8.9	1.0	43.3	5.4	0.2	3.4	195.0	0.1	248.4	0.0	0.0	257.4	0.0	257.4
1977	(s)	7.0	1.0	46.3	5.6	0.2	3.2	197.7	0.1	254.1	0.0	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	(s)	255.1	0.0	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	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	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	(s)	214.2	0.0	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	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	(s)	217.3	0.0	0.0	225.3	0.0	225.3
1984	0.0	10.7	0.4	50.8	3.4	0.5	3.1	159.1	(s)	217.4	0.0	0.0	228.0	0.0	228.0
1985	0.0	10.5	0.4	46.8	3.3	0.3	2.9	155.1	0.0	208.8	0.0	0.0	219.3	0.0	219.3
1986	0.0	7.3	0.8	46.2	3.3	0.5	2.8	155.4	0.0	209.0	0.0	0.0	216.4	0.0	216.4
1987	0.0	8.2	0.6	50.8	4.4	0.2	3.2	156.9	0.1	216.0	0.0	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	221.5	0.0	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	(s)	224.6	0.0	0.0	235.1	0.0	235.1
1990	0.0	9.2	0.5	56.3	5.0	0.2	3.2	159.1	(s)	224.4	[e] 4.0	0.0	[e] 233.6	0.0	[e] 233.6
1991	0.0	6.7	0.4	49.2	5.0	0.2	2.9	160.6	0.0	218.3	3.2	0.0	225.0	0.0	225.0
1992	0.0	7.0	0.4	51.2	4.5	0.2	3.0	157.7	0.0	216.9	3.9	0.0	223.9	0.0	223.9
1993	0.0	7.4	0.4	55.5	4.1	0.2	3.0	164.2	0.0	227.3	4.3	0.0	234.6	0.0	234.6
1994	0.0	10.8	0.3	60.0	5.1	0.5	3.1	172.1	0.0	241.2	4.8	0.0	252.0	0.0	252.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Iowa

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	2,118	0	2,118	49	39	259	0	298	0	879	25	0	0	–
1965	2,760	0	2,760	52	27	183	0	210	0	926	30	0	0	–
1970	4,030	0	4,030	78	49	327	0	375	0	934	38	0	0	–
1971	4,316	0	4,316	71	116	376	0	492	0	911	46	0	0	–
1972	5,277	0	5,277	61	264	540	0	804	0	992	45	0	0	–
1973	5,351	0	5,351	62	147	265	0	411	0	905	46	0	0	–
1974	4,720	0	4,720	61	125	360	0	484	1,330	890	34	0	0	–
1975	4,936	0	4,936	47	214	507	0	722	2,291	877	40	0	0	–
1976	6,697	0	6,697	26	366	478	0	845	2,479	644	35	0	0	–
1977	7,593	0	7,593	14	339	554	0	893	2,888	779	22	0	0	–
1978	8,454	0	8,454	8	380	763	0	1,143	1,209	929	8	0	0	–
1979	9,347	0	9,347	8	330	496	30	856	2,889	897	0	0	0	–
1980	10,745	0	10,745	7	63	168	0	231	2,563	945	29	0	0	–
1981	11,808	0	11,808	3	6	175	0	181	2,204	980	17	0	0	–
1982	11,435	0	11,435	3	25	133	0	158	2,269	917	23	0	0	–
1983	11,921	0	11,921	3	16	139	0	155	2,309	918	45	0	0	–
1984	11,966	0	11,966	3	9	108	0	117	2,700	917	45	0	0	–
1985	12,491	0	12,491	2	2	101	0	103	1,927	2,047	60	0	0	–
1986	12,044	0	12,044	1	0	105	0	105	2,993	952	70	0	0	–
1987	12,997	0	12,997	3	0	115	0	115	2,523	970	67	0	0	–
1988	13,921	0	13,921	5	0	123	0	123	3,163	698	57	0	0	–
1989	14,598	0	14,598	2	0	112	0	112	3,139	672	24	0	0	–
1990	15,331	0	15,331	3	0	123	0	123	3,012	857	17	0	0	–
1991	15,846	0	15,846	4	0	109	0	109	4,147	883	20	0	0	–
1992	15,357	0	15,357	2	0	90	0	90	3,405	981	14	0	0	–
1993	16,623	0	16,623	4	0	122	0	122	3,235	737	20	0	0	–
1994	16,565	0	16,565	3	0	183	0	183	4,107	1,053	28	0	(s)	–
					Trillion Btu									
1960	44.0	0.0	44.0	50.3	0.2	1.5	0.0	1.8	0.0	9.5	0.3	0.0	0.0	105.8
1965	58.6	0.0	58.6	52.8	0.2	1.1	0.0	1.2	0.0	9.7	0.3	0.0	0.0	122.6
1970	84.2	0.0	84.2	78.6	0.3	1.9	0.0	2.2	0.0	9.8	0.4	0.0	0.0	175.2
1971	90.6	0.0	90.6	72.0	0.7	2.2	0.0	2.9	0.0	9.5	0.5	0.0	0.0	175.5
1972	109.0	0.0	109.0	61.1	1.7	3.1	0.0	4.8	0.0	10.3	0.5	0.0	0.0	185.6
1973	112.6	0.0	112.6	62.1	0.9	1.5	0.0	2.5	0.0	9.4	0.5	0.0	0.0	187.1
1974	97.2	0.0	97.2	61.7	0.8	2.1	0.0	2.9	14.8	9.3	0.4	0.0	0.0	186.2
1975	100.6	0.0	100.6	47.3	1.3	3.0	0.0	4.3	25.2	9.1	0.4	0.0	0.0	187.0
1976	135.6	0.0	135.6	26.1	2.3	2.8	0.0	5.1	27.4	6.7	0.4	0.0	0.0	201.3
1977	151.9	0.0	151.9	13.8	2.1	3.2	0.0	5.4	31.1	8.1	0.2	0.0	0.0	210.4
1978	166.7	0.0	166.7	8.3	2.4	4.4	0.0	6.8	13.2	9.6	0.1	0.0	0.0	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	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	0.3	0.0	0.0	246.6
1981	215.9	0.0	215.9	3.4	(s)	1.0	0.0	1.1	24.3	10.2	0.2	0.0	0.0	255.1
1982	209.0	0.0	209.0	2.5	0.2	0.8	0.0	0.9	25.1	9.6	0.2	0.0	0.0	247.4
1983	218.0	0.0	218.0	3.3	0.1	0.8	0.0	0.9	25.2	9.7	0.5	0.0	0.0	257.6
1984	214.7	0.0	214.7	3.2	0.1	0.6	0.0	0.7	29.3	9.6	0.5	0.0	0.0	257.9
1985	227.3	0.0	227.3	2.1	(s)	0.6	0.0	0.6	20.8	21.4	0.6	0.0	0.0	272.9
1986	221.3	0.0	221.3	1.4	0.0	0.6	0.0	0.6	32.3	9.9	0.7	0.0	0.0	266.3
1987	237.9	0.0	237.9	3.3	0.0	0.7	0.0	0.7	27.2	10.1	0.7	0.0	0.0	279.8
1988	256.5	0.0	256.5	5.5	0.0	0.7	0.0	0.7	34.0	7.2	0.6	0.0	0.0	304.4
1989	261.0	0.0	261.0	2.4	0.0	0.7	0.0	0.7	33.7	6.9	0.2	0.0	0.0	304.9
1990	272.6	0.0	272.6	3.5	0.0	0.7	0.0	0.7	32.2	8.9	0.2	0.0	0.0	318.0
1991	281.8	0.0	281.8	3.7	0.0	0.6	0.0	0.6	44.5	9.1	0.2	0.0	0.0	340.0
1992	272.3	0.0	272.3	2.3	0.0	0.5	0.0	0.5	36.4	10.1	0.1	0.0	0.0	321.7
1993	287.9	0.0	287.9	4.3	0.0	0.7	0.0	0.7	34.6	7.6	0.2	0.0	0.0	335.3
1994	291.0	0.0	291.0	2.7	0.0	1.1	0.0	1.1	43.9	10.8	0.3	0.0	(s)	349.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Kansas

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	6,577	47,774	0	20	0	0	-4,181	–
1965	644	443	3,061	493	5,257	1,053	1,813	6,521	770	25,525	1,066	7,119	52,677	0	13	0	0	-3,746	–
1970	458	576	2,188	326	7,550	1,561	306	8,009	655	28,849	1,127	7,355	57,926	0	7	0	0	-5,106	–
1971	459	607	2,554	299	8,385	1,525	183	7,769	738	29,136	811	7,189	58,589	0	7	0	0	-5,347	–
1972	531	628	2,385	262	9,010	1,452	150	8,293	790	31,075	2,256	7,617	63,289	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	8,271	66,170	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	8,487	66,884	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	8,539	71,560	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	8,210	75,212	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	8,606	76,322	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	8,704	78,657	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	8,963	82,247	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	8,734	70,194	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	7,259	64,154	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	5,678	66,078	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	6,236	67,051	0	6	0	0	-3,404	–
1984	15,565	364	1,928	154	15,150	3,338	142	26,692	987	28,499	1,154	6,573	84,616	0	7	0	(s)	-10,938	–
1985	14,715	355	1,700	137	15,040	4,424	57	24,510	920	28,203	86	5,908	80,985	3,856	9	0	(s)	-13,553	–
1986	14,359	313	2,657	162	14,319	7,038	75	16,615	900	28,453	487	R6,075	R76,781	6,959	8	0	(s)	-20,105	–
1987	15,194	328	2,614	121	16,713	4,285	72	16,113	1,017	29,085	353	R6,524	R76,895	6,471	9	0	(s)	-21,902	–
1988	14,951	353	4,378	148	16,591	4,176	42	19,029	981	30,859	811	R7,687	R84,701	6,650	12	0	(s)	-20,333	–
1989	14,963	341	3,109	156	15,785	3,833	56	18,889	1,006	29,838	370	R7,763	R80,805	9,709	10	0	(s)	-29,556	–
1990	15,175	353	3,875	136	16,561	3,701	27	15,565	1,035	28,462	232	R7,870	R77,465	7,874	RINA	INA	INA	R-25,135	–
1991	14,881	371	3,721	124	15,714	3,296	24	13,293	926	28,032	128	R6,069	R71,327	5,859	RNA	NA	NA	R-17,323	–
1992	14,227	343	3,715	142	15,154	4,164	33	16,816	944	27,827	180	R6,695	R75,670	8,491	RNA	NA	NA	R-19,259	–
1993	17,386	392	3,635	151	16,268	3,617	36	R8,269	962	28,471	373	R5,658	R67,439	7,900	RNA	NA	NA	R-28,930	–
1994	17,158	418	4,741	142	15,770	1,981	17	7,611	1,005	29,083	190	6,218	66,758	8,529	NA	NA	NA	-30,139	–
			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	39.5	258.1	0.0	0.2	0.0	0.0	-14.3	633.5
1965	15.3	440.8	20.3	2.5	30.6	5.7	10.3	26.2	4.7	134.1	6.7	42.7	283.7	0.0	0.1	0.0	0.0	-12.8	727.1
1970	10.7	574.5	14.5	1.6	44.0	8.6	1.7	30.3	4.0	151.5	7.1	43.9	307.2	0.0	0.1	0.0	0.0	-17.4	875.1
1971	10.8	605.8	16.9	1.5	48.8	8.4	1.0	29.3	4.5	153.1	5.1	42.9	311.6	0.0	0.1	0.0	0.0	-18.2	910.0
1972	12.4	626.9	15.8	1.3	52.5	8.0	0.9	31.2	4.8	163.2	14.2	45.5	337.3	0.0	(s)	0.0	0.0	-16.2	960.4
1973	24.6	597.2	17.4	1.1	60.0	7.7	0.8	31.7	5.7	164.3	16.0	49.4	354.0	0.0	(s)	0.0	0.0	-13.2	962.7
1974	39.1	578.8	18.2	1.2	62.8	7.7	0.6	31.5	5.4	162.8	17.5	50.7	358.5	0.0	0.1	0.0	0.0	-17.4	959.1
1975	62.3	490.7	14.3	0.9	65.7	7.2	0.6	32.9	4.7	168.1	40.0	51.0	385.4	0.0	(s)	0.0	0.0	-17.2	921.3
1976	73.4	505.4	15.5	1.2	70.3	6.8	1.4	36.9	5.2	177.8	39.1	49.0	403.2	0.0	0.1	0.0	0.0	-14.3	967.8
1977	89.5	497.3	17.2	1.3	72.6	7.9	1.9	37.1	6.1	174.8	39.5	51.3	409.7	0.0	(s)	0.0	0.0	-19.9	976.5
1978	136.8	508.0	22.4	1.1	83.0	8.4	1.2	33.2	6.6	176.0	42.6	51.9	426.2	0.0	(s)	0.0	0.0	-36.9	1,034.2
1979	147.5	571.3	21.0	1.2	113.9	10.7	4.5	36.3	6.9	167.5	29.7	53.4	445.1	0.0	(s)	0.0	0.0	-31.9	1,132.0
1980	191.6	482.0	20.0	1.1	86.0	13.8	2.8	30.9	6.1	155.4	9.4	52.0	377.5	0.0	0.1	0.0	0.0	-31.0	1,020.2
1981	212.9	422.6	12.4	1.1	78.1	13.6	1.4	27.1	5.9	153.8	6.5	43.7	343.6	0.0	0.1	0.0	0.0	-28.6	950.5
1982	212.5	400.5	12.5	1.0	80.5	10.2	1.3	43.2	5.4	150.2	6.5	34.0	344.6	0.0	0.1	0.0	0.0	-12.8	945.0
1983	231.2	345.9	9.6	0.9	81.6	8.2	1.0	43.4	5.6	150.3	12.3	37.3	350.3	0.0	0.1	0.0	0.0	-11.6	915.7
1984	274.8	360.8	12.8	0.8	88.3	18.7	0.8	96.1	6.0	149.7	7.3	38.8	419.2	0.0	0.1	0.0	(s)	-37.3	1,017.5
1985	259.5	354.8	11.3	0.7	87.6	24.8	0.3	88.3	5.6	148.1	0.5	35.3	402.7	41.7	0.1	0.0	(s)	-46.2	1,012.5
1986	251.7	308.0	17.6	0.8	83.4	39.7	0.4	60.5	5.5	149.5	3.1	R36.7	R397.2	75.1	0.1	0.0	(s)	-68.6	R963.5
1987	267.4	343.2	17.3	0.6	97.4	24.1	0.4	59.0	6.2	152.8	2.2	R38.8	R398.7	69.7	0.1	0.0	(s)	-74.7	R1,004.4
1988	269.3	348.0	29.1	0.7	96.6	23.4	0.2	69.5	5.9	162.1	5.1	R45.7	R438.4	71.4	0.1	0.0	(s)	-69.4	R1,057.9
1989	266.5	338.6	20.6	0.8	91.9	21.5	0.3	69.6	6.1	156.7	2.3	R45.8	R415.7	104.1	0.1	0.0	(s)	-100.8	R1,024.1
1990	272.6	352.6	25.7	0.7	96.5	20.7	0.2	56.4	6.3	149.5	1.5	R46.4	R403.8	84.1	RI0.2	I7.1	I(s)	-85.8	RI1,034.4
1991	268.7	373.2	24.7	0.6	91.5	18.3	0.1	48.0	5.6	147.3	0.8	R36.3	R373.4	62.9	R0.2	7.4	(s)	R-59.1	R1,026.4
1992	254.3	338.8	24.7	0.7	88.3	23.2	0.2	60.9	5.7	146.2	1.1	R39.7	R390.7	90.7	R0.1	7.8	(s)	R-65.7	R1,016.3
1993	301.9	386.5	24.1	0.8	94.8	20.2	0.2	R29.8	5.8	149.6	2.3	R33.6	R361.3	84.4	R0.1	6.7	(s)	R-98.7	R1,041.8
1994	300.0	417.2	31.5	0.7	91.9	11.0	0.1	27.7	6.1	152.8	1.2	36.9	359.8	91.1	0.1	6.6	(s)	-102.8	1,071.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[i] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Kansas

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	22	0	22	73	53	303	3,447	3,804	0	0	2,360	–	5,869	–
1965	6	0	6	87	50	1,285	3,991	5,327	0	0	3,251	–	7,762	–
1970	4	0	4	97	53	116	4,825	4,994	0	0	5,348	–	12,960	–
1971	3	0	3	99	51	64	4,632	4,747	0	0	5,554	–	13,427	–
1972	4	0	4	101	77	76	4,835	4,989	0	0	5,966	–	14,360	–
1973	2	0	2	96	88	77	4,758	4,922	0	0	6,469	–	15,486	–
1974	1	0	1	93	88	64	4,423	4,575	0	0	6,629	–	16,164	–
1975	0	0	0	98	96	60	4,563	4,719	0	0	5,695	–	13,736	–
1976	0	0	0	101	161	161	4,695	5,017	0	0	5,758	–	13,870	–
1977	0	0	0	95	160	218	4,641	5,018	0	0	5,964	–	14,401	–
1978	6	0	6	99	183	119	4,253	4,555	0	0	6,571	–	16,076	–
1979	10	0	10	102	379	329	2,461	3,169	0	0	6,290	–	15,180	–
1980	2	0	2	85	150	5	2,083	2,237	0	0	7,189	–	17,481	–
1981	1	0	1	75	19	10	1,631	1,660	0	0	7,600	–	18,113	–
1982	4	0	4	82	173	18	1,609	1,800	0	0	7,746	–	18,604	–
1983	1	0	1	81	43	29	1,913	1,985	0	0	8,368	–	20,048	–
1984	1	0	1	79	46	41	1,009	1,096	0	0	8,269	–	19,248	–
1985	(s)	0	(s)	78	65	27	1,469	1,561	0	0	8,195	–	19,252	–
1986	(s)	0	(s)	71	24	18	1,208	1,251	0	0	8,346	–	19,198	–
1987	(s)	0	(s)	70	21	19	1,285	1,325	0	0	8,617	–	19,689	–
1988	(s)	(s)	(s)	76	30	20	1,435	1,485	0	0	9,121	–	20,620	–
1989	2	0	2	76	32	18	1,453	1,502	0	0	8,898	–	19,955	–
1990	(s)	0	(s)	71	24	11	1,182	1,218	[e] 317	[e] 9	9,515	–	R 20,791	–
1991	(s)	(s)	(s)	75	23	10	1,305	1,338	334	9	9,933	–	R 21,597	–
1992	(s)	0	(s)	72	29	13	1,079	1,121	352	10	8,873	–	R 18,942	–
1993	8	0	8	85	27	20	1,092	1,139	292	10	9,986	–	R 21,090	–
1994	11	0	11	74	27	8	1,054	1,089	287	10	10,131	–	21,127	–
	Trillion Btu													
1960	0.5	0.0	0.5	76.1	0.3	1.7	13.8	15.9	0.0	0.0	8.1	100.4	20.0	120.5
1965	0.1	0.0	0.1	86.4	0.3	7.3	16.0	23.6	0.0	0.0	11.1	121.2	26.5	147.7
1970	0.1	0.0	0.1	97.1	0.3	0.7	18.2	19.2	0.0	0.0	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	0.0	0.0	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	0.0	0.0	20.4	140.1	49.0	189.1
1973	(s)	0.0	(s)	95.0	0.5	0.4	17.8	18.8	0.0	0.0	22.1	135.9	52.8	188.7
1974	(s)	0.0	(s)	91.7	0.5	0.4	16.5	17.4	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	21.5	135.4	51.8	187.1
1980	(s)	0.0	(s)	84.8	0.9	(s)	7.7	8.6	0.0	0.0	24.5	117.9	59.6	177.5
1981	(s)	0.0	(s)	74.2	0.1	0.1	5.9	6.1	0.0	0.0	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	0.0	0.0	26.4	115.8	63.5	179.3
1983	(s)	0.0	(s)	81.0	0.2	0.2	6.9	7.3	0.0	0.0	28.6	116.9	68.4	185.4
1984	(s)	0.0	(s)	78.8	0.3	0.2	3.6	4.1	0.0	0.0	28.2	111.2	65.7	176.9
1985	(s)	0.0	(s)	78.3	0.4	0.2	5.3	5.8	0.0	0.0	28.0	112.1	65.7	177.8
1986	(s)	0.0	(s)	69.6	0.1	0.1	4.4	4.6	0.0	0.0	28.5	102.7	65.5	168.2
1987	(s)	0.0	(s)	73.1	0.1	0.1	4.7	4.9	0.0	0.0	29.4	107.4	67.2	174.6
1988	(s)	(s)	(s)	75.3	0.2	0.1	5.2	5.5	0.0	0.0	31.1	112.0	70.4	182.3
1989	(s)	0.0	(s)	75.5	0.2	0.1	5.3	5.6	0.0	0.0	30.4	111.6	68.1	179.6
1990	(s)	0.0	(s)	71.3	0.1	0.1	4.3	4.5	[e] 6.3	[e] (s)	32.5	Re 114.6	70.9	Re 185.6
1991	(s)	(s)	(s)	75.7	0.1	0.1	4.7	4.9	6.7	(s)	33.9	R 121.2	73.7	R 194.9
1992	(s)	0.0	(s)	70.6	0.2	0.1	3.9	4.2	7.0	(s)	30.3	R 112.1	64.6	R 176.8
1993	0.2	0.0	0.2	83.9	0.2	0.1	3.9	4.2	5.8	(s)	34.1	R 128.2	R 72.0	R 200.2
1994	0.3	0.0	0.3	74.1	0.2	(s)	3.8	4.0	5.7	(s)	34.6	118.7	72.1	190.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Kansas

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	11	0	11	38	109	367	704	204	19	1,403	2,597	–	6,200	–
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	178	164	3	1,348	7,928	–	18,454	–
1985	1	0	1	57	698	10	259	177	0	1,145	8,174	–	19,205	–
1986	1	0	1	56	342	9	213	174	9	747	8,361	–	19,232	–
1987	1	0	1	54	271	15	227	189	(s)	703	8,547	–	19,529	–
1988	(s)	(s)	(s)	61	385	10	253	167	1	816	9,000	–	20,347	–
1989	4	0	4	59	333	16	256	153	10	769	9,127	–	20,468	–
1990	(s)	0	(s)	56	283	6	209	161	27	686	9,547	–	R 20,862	–
1991	(s)	(s)	(s)	59	363	4	230	124	7	728	9,935	–	R 21,601	–
1992	(s)	0	(s)	54	502	4	190	109	22	827	9,746	–	R 20,805	–
1993	15	0	15	56	645	7	193	55	30	929	10,120	–	R 21,372	–
1994	21	0	21	52	499	4	186	76	2	766	10,482	–	21,859	–
					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
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
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	(s)	0.0	(s)	51.7	1.7	(s)	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	(s)	1.0	1.4	(s)	3.3	24.6	83.9	59.1	143.0
1983	(s)	0.0	(s)	52.9	5.4	0.1	1.2	1.0	(s)	7.6	25.4	85.9	60.8	146.6
1984	(s)	0.0	(s)	57.2	5.8	0.1	0.6	0.9	(s)	7.4	27.1	91.6	63.0	154.6
1985	(s)	0.0	(s)	56.5	4.1	0.1	0.9	0.9	0.0	6.0	27.9	90.4	65.5	155.9
1986	(s)	0.0	(s)	54.9	2.0	0.1	0.8	0.9	0.1	3.8	28.5	87.3	65.6	152.9
1987	(s)	0.0	(s)	56.2	1.6	0.1	0.8	1.0	(s)	3.5	29.2	88.9	66.6	155.5
1988	(s)	(s)	(s)	60.2	2.2	0.1	0.9	0.9	(s)	4.1	30.7	95.1	69.4	164.5
1989	0.1	0.0	0.1	58.2	1.9	0.1	0.9	0.8	0.1	3.8	31.1	93.2	69.8	163.1
1990	(s)	0.0	(s)	56.0	1.6	(s)	0.8	0.8	0.2	3.5	32.6	92.1	71.2	163.2
1991	(s)	(s)	(s)	59.2	2.1	(s)	0.8	0.7	(s)	3.7	33.9	96.8	73.7	170.5
1992	(s)	0.0	(s)	53.3	2.9	(s)	0.7	0.6	0.1	4.3	33.3	90.9	71.0	161.9
1993	0.3	0.0	0.3	55.3	3.8	(s)	0.7	0.3	0.2	5.0	34.5	95.2	72.9	168.1
1994	0.5	0.0	0.5	52.2	2.9	(s)	0.7	0.4	(s)	4.0	35.8	92.5	74.6	167.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Kansas

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	175	121	2,198	1,405	306	1,321	230	4,557	1,924	6,577	18,518	0	0	0	2,932	–	7,293	–
1965	148	155	3,061	1,553	160	1,530	303	3,535	755	7,119	18,017	0	0	0	3,902	–	9,318	–
1970	103	184	2,188	2,515	157	1,985	207	2,777	701	7,355	17,886	0	0	0	4,548	–	11,022	–
1971	83	203	2,554	2,855	101	1,923	230	2,797	471	7,189	18,120	0	0	0	4,661	–	11,269	–
1972	94	206	2,385	3,297	52	2,219	246	2,649	1,562	7,617	20,026	0	0	0	4,886	–	11,760	–
1973	133	206	2,628	3,806	38	2,496	321	2,753	1,640	8,271	21,954	0	0	0	5,254	–	12,579	–
1974	143	200	2,743	3,810	32	2,845	307	2,507	1,342	8,487	22,073	0	0	0	5,328	–	12,991	–
1975	134	152	2,162	3,532	23	3,125	253	2,406	2,178	8,535	22,214	0	0	0	6,214	–	14,990	–
1976	90	171	2,343	4,749	32	4,013	282	2,110	2,050	8,210	23,788	0	0	0	6,488	–	15,629	–
1977	169	175	2,597	4,720	53	4,229	408	2,248	2,437	8,606	25,297	0	0	0	6,862	–	16,571	–
1978	104	174	3,378	5,316	57	3,590	438	1,762	2,750	8,700	25,991	0	0	0	7,418	–	18,148	–
1979	218	250	3,164	7,132	375	6,801	458	1,686	2,574	8,963	31,154	0	0	0	7,778	–	18,771	–
1980	331	191	3,019	3,476	477	5,844	408	1,198	1,004	8,734	24,159	0	0	0	7,845	–	19,076	–
1981	354	175	1,869	3,538	225	5,280	391	1,351	675	7,259	20,587	0	0	0	7,484	–	17,836	–
1982	372	160	1,890	3,934	201	9,817	357	1,073	730	5,678	23,679	0	0	0	6,872	–	16,506	–
1983	286	134	1,450	3,428	142	9,486	373	842	1,601	6,236	23,559	0	0	0	6,780	–	16,243	–
1984	310	158	1,928	3,702	91	25,402	398	1,305	1,068	6,573	40,466	0	0	0	7,038	–	16,381	–
1985	363	161	1,700	3,908	20	22,687	371	1,063	66	5,908	35,724	0	0	0	7,167	–	16,839	–
1986	261	139	2,657	4,575	47	15,093	363	929	464	R6,075	R30,202	0	0	0	7,128	–	16,396	–
1987	252	158	2,614	4,297	38	14,490	410	976	327	R6,524	R29,676	0	0	0	7,266	–	16,603	–
1988	208	154	4,378	4,459	12	17,201	396	847	689	R7,687	R35,668	0	0	0	7,708	–	17,425	–
1989	183	144	3,109	3,924	22	16,996	406	837	306	R7,763	R33,362	0	0	0	7,797	–	17,487	–
1990	157	158	3,875	3,912	10	14,031	418	760	184	R7,870	R31,059	R[f]NA	[f]NA	[f]NA	8,087	–	R17,672	–
1991	148	168	3,721	4,580	11	11,649	374	755	118	R6,069	R27,276	RNA	NA	NA	8,284	–	R18,011	–
1992	158	175	3,715	4,546	15	15,447	381	675	157	R6,695	R31,631	RNA	NA	NA	8,451	–	R18,040	–
1993	137	196	3,635	5,103	10	R6,885	388	892	303	R5,658	R22,873	RNA	NA	NA	8,702	–	R18,379	–
1994	137	233	4,741	5,387	6	6,220	405	944	175	6,218	24,097	NA	NA	NA	9,001	–	18,772	–
			Trillion Btu															
1960	4.0	125.7	14.6	8.2	1.7	5.3	1.4	23.9	12.1	39.5	106.7	0.0	0.0	0.0	10.0	246.3	24.9	271.2
1965	3.3	154.3	20.3	9.0	0.9	6.1	1.8	18.6	4.7	42.7	104.2	0.0	0.0	0.0	13.3	275.2	31.8	307.0
1970	2.2	184.1	14.5	14.7	0.9	7.5	1.3	14.6	4.4	43.9	101.7	0.0	0.0	0.0	15.5	303.5	37.6	341.2
1971	1.7	202.2	16.9	16.6	0.6	7.3	1.4	14.7	3.0	42.9	103.4	0.0	0.0	0.0	15.9	323.2	38.4	361.6
1972	1.9	205.4	15.8	19.2	0.3	8.3	1.5	13.9	9.8	45.5	114.4	0.0	0.0	0.0	16.7	338.4	40.1	378.6
1973	2.8	203.1	17.4	22.2	0.2	9.4	1.9	14.5	10.3	49.4	125.3	0.0	0.0	0.0	17.9	349.1	42.9	392.0
1974	2.9	196.5	18.2	22.2	0.2	10.6	1.9	13.2	8.4	50.7	125.3	0.0	0.0	0.0	18.2	343.0	44.3	387.3
1975	2.7	148.8	14.3	20.6	0.1	11.6	1.5	12.6	13.7	51.0	125.5	0.0	0.0	0.0	21.2	298.3	51.1	349.4
1976	1.9	167.3	15.5	27.7	0.2	14.9	1.7	11.1	12.9	49.0	132.9	0.0	0.0	0.0	22.1	324.3	53.3	377.6
1977	3.6	171.9	17.2	27.5	0.3	15.5	2.5	11.8	15.3	51.3	141.5	0.0	0.0	0.0	23.4	340.4	56.5	396.9
1978	2.2	170.9	22.4	31.0	0.3	13.2	2.7	9.3	17.3	51.9	148.0	0.0	0.0	0.0	25.3	346.3	61.9	408.3
1979	4.6	245.9	21.0	41.5	2.1	25.0	2.8	8.9	16.2	53.4	170.9	0.0	0.0	0.0	26.5	447.9	64.0	512.0
1980	7.1	189.7	20.0	20.2	2.7	21.5	2.5	6.3	6.3	52.0	131.5	0.0	0.0	0.0	26.8	355.1	65.1	420.2
1981	7.6	173.4	12.4	20.6	1.3	19.2	2.4	7.1	4.2	43.7	110.9	0.0	0.0	0.0	25.5	317.4	60.9	378.3
1982	8.0	161.4	12.5	22.9	1.1	35.5	2.2	5.6	4.6	34.0	118.5	0.0	0.0	0.0	23.4	311.3	56.3	367.6
1983	6.1	134.7	9.6	20.0	0.8	34.3	2.3	4.4	10.1	37.3	118.7	0.0	0.0	0.0	23.1	282.7	55.4	338.1
1984	6.7	157.3	12.8	21.6	0.5	91.4	2.4	6.9	6.7	38.8	181.1	0.0	0.0	0.0	24.0	369.1	55.9	425.0
1985	7.8	161.3	11.3	22.8	0.1	81.7	2.3	5.6	0.4	35.3	159.5	0.0	0.0	0.0	24.5	353.0	57.5	410.5
1986	5.6	136.9	17.6	26.6	0.3	54.9	2.2	4.9	2.9	R36.7	R146.2	0.0	0.0	0.0	24.3	R313.0	55.9	R369.0
1987	5.5	165.6	17.3	25.0	0.2	53.0	2.5	5.1	2.1	R38.8	R144.1	0.0	0.0	0.0	24.8	R340.0	56.6	R396.6
1988	4.6	151.8	29.1	26.0	0.1	62.8	2.4	4.4	4.3	R45.7	R174.7	0.0	0.0	0.0	26.3	R357.4	59.5	R416.9
1989	4.1	143.3	20.6	22.9	0.1	62.6	2.5	4.4	1.9	R45.8	R160.8	0.0	0.0	0.0	26.6	R334.8	59.7	R394.4
1990	3.8	157.8	25.7	22.8	0.1	50.9	2.5	4.0	1.2	R46.4	R153.5	R[f]0.1	[f]0.5	[f]0.0	27.6	R[f]343.2	60.3	R[f]403.5
1991	3.6	170.0	24.7	26.7	0.1	42.1	2.3	4.0	0.7	R36.3	R136.8	R0.1	0.5	0.0	28.3	R339.3	R61.5	R400.7
1992	3.9	172.4	24.7	26.5	0.1	56.0	2.3	3.5	1.0	R39.7	R153.7	R0.1	0.5	0.0	28.8	R359.4	R61.6	R420.9
1993	3.2	193.3	24.1	29.7	0.1	R24.8	2.4	4.7	1.9	R33.6	R121.3	R0.1	0.5	0.0	29.7	R348.1	62.7	R410.8
1994	3.3	232.4	31.5	31.4	(s)	22.6	2.5	5.0	1.1	36.9	130.9	0.1	0.5	0.0	30.7	397.9	64.1	461.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Kansas

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	3	43	170	3,056	952	215	507	18,976	190	24,065	0	0	–	0	–
1965	(s)	50	493	3,473	1,053	295	457	21,786	137	27,704	0	0	–	0	–
1970	(s)	73	326	4,691	1,561	348	448	25,857	8	33,238	0	0	–	0	–
1971	(s)	75	299	5,191	1,525	396	508	26,118	13	34,051	0	0	–	0	–
1972	(s)	80	262	5,247	1,452	386	544	28,191	62	36,143	0	0	–	0	–
1973	(s)	73	212	5,925	1,399	378	612	28,265	66	36,858	0	0	–	0	–
1974	(s)	75	236	6,087	1,404	391	586	28,238	50	36,991	0	0	–	0	–
1975	(s)	69	177	5,898	1,310	364	520	29,331	17	37,615	0	0	–	0	–
1976	(s)	63	231	5,710	1,239	416	578	31,471	20	39,664	0	0	–	0	–
1977	(s)	56	253	6,434	1,426	398	603	30,746	40	39,899	0	0	–	0	–
1978	0	63	211	7,593	1,506	453	647	31,452	24	41,887	0	0	–	0	–
1979	0	54	244	10,649	1,922	165	677	29,956	26	43,639	0	0	–	0	–
1980	0	52	221	10,397	2,466	110	603	28,107	2	41,906	0	0	–	0	–
1981	0	48	214	9,293	2,442	239	579	27,666	1	40,433	0	0	–	0	–
1982	0	42	190	9,296	1,834	239	528	27,248	0	39,334	0	0	–	0	–
1983	0	32	176	9,358	1,492	284	552	27,578	82	39,521	0	0	–	0	–
1984	0	36	154	10,197	3,338	103	589	27,030	43	41,453	0	0	–	0	–
1985	0	38	137	10,173	4,424	95	549	26,962	0	42,341	0	0	–	0	–
1986	0	32	162	9,204	7,038	101	537	27,350	(s)	44,392	0	0	–	0	–
1987	0	31	121	11,992	4,285	111	607	27,920	0	45,035	0	0	–	0	–
1988	0	42	148	11,556	4,176	140	585	29,846	0	46,451	0	0	–	0	–
1989	0	43	156	11,304	3,833	184	600	28,848	0	44,925	0	0	–	0	–
1990	0	41	136	12,213	3,701	143	618	27,540	0	44,351	[e]3,903	0	–	0	–
1991	0	33	124	10,595	3,296	108	553	27,153	0	41,829	3,094	0	–	0	–
1992	0	29	142	9,975	4,164	99	563	27,043	0	41,987	3,760	0	–	0	–
1993	0	33	151	10,367	3,617	99	574	27,524	0	42,332	4,197	0	–	0	–
1994	0	32	142	9,727	1,981	150	600	28,064	0	40,664	4,655	0	–	0	–
			Trillion Btu												
1960	0.1	44.3	0.9	17.8	5.1	0.9	3.1	99.7	1.2	128.6	0.0	0.0	172.9	0.0	172.9
1965	(s)	49.5	2.5	20.2	5.7	1.2	2.8	114.4	0.9	147.7	0.0	0.0	197.2	0.0	197.2
1970	(s)	73.2	1.6	27.3	8.6	1.3	2.7	135.8	0.1	177.5	0.0	0.0	250.7	0.0	250.7
1971	(s)	74.5	1.5	30.2	8.4	1.5	3.1	137.2	0.1	182.0	0.0	0.0	256.5	0.0	256.5
1972	(s)	80.0	1.3	30.6	8.0	1.4	3.3	148.1	0.4	193.1	0.0	0.0	273.1	0.0	273.1
1973	(s)	71.8	1.1	34.5	7.7	1.4	3.7	148.5	0.4	197.3	0.0	0.0	269.1	0.0	269.1
1974	(s)	73.3	1.2	35.5	7.7	1.5	3.6	148.3	0.3	198.0	0.0	0.0	271.3	0.0	271.3
1975	(s)	68.0	0.9	34.4	7.2	1.4	3.2	154.1	0.1	201.1	0.0	0.0	269.1	0.0	269.1
1976	(s)	61.8	1.2	33.3	6.8	1.5	3.5	165.3	0.1	211.7	0.0	0.0	273.5	0.0	273.5
1977	(s)	55.3	1.3	37.5	7.9	1.5	3.7	161.5	0.2	213.5	0.0	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	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	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	(s)	227.2	0.0	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	(s)	218.6	0.0	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	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	0.0	245.6	0.0	245.6
1984	0.0	36.0	0.8	59.4	18.7	0.4	3.6	142.0	0.3	225.1	0.0	0.0	261.1	0.0	261.1
1985	0.0	38.1	0.7	59.3	24.8	0.3	3.3	141.6	0.0	230.1	0.0	0.0	268.2	0.0	268.2
1986	0.0	32.0	0.8	53.6	39.7	0.4	3.3	143.7	(s)	241.4	0.0	0.0	273.4	0.0	273.4
1987	0.0	32.3	0.6	69.9	24.1	0.4	3.7	146.7	0.0	245.3	0.0	0.0	277.6	0.0	277.6
1988	0.0	41.8	0.7	67.3	23.4	0.5	3.5	156.8	0.0	252.3	0.0	0.0	294.2	0.0	294.2
1989	0.0	43.0	0.8	65.8	21.5	0.7	3.6	151.5	0.0	243.9	0.0	0.0	287.0	0.0	287.0
1990	0.0	40.6	0.7	71.1	20.7	0.5	3.7	144.7	0.0	241.5	[e]0.3	0.0	[e]282.1	0.0	[e]282.1
1991	0.0	33.3	0.6	61.7	18.3	0.4	3.4	142.6	0.0	227.0	0.2	0.0	260.3	0.0	260.3
1992	0.0	28.8	0.7	58.1	23.2	0.4	3.4	142.1	0.0	227.9	0.3	0.0	256.7	0.0	256.7
1993	0.0	33.0	0.8	60.4	20.2	0.4	3.5	144.6	0.0	229.8	0.3	0.0	262.7	0.0	262.7
1994	0.0	31.7	0.7	56.7	11.0	0.5	3.6	147.4	0.0	220.0	0.4	0.0	251.7	0.0	251.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Kansas

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	435	0	435	82	241	110	0	351	0	20	0	0	0	–
1965	478	0	478	113	156	71	0	226	0	13	0	0	0	–
1970	344	0	344	168	385	175	0	560	0	7	0	0	0	–
1971	367	0	367	175	305	178	0	483	0	7	0	0	0	–
1972	425	0	425	180	603	222	0	825	0	5	0	0	0	–
1973	1,045	0	1,045	176	804	295	0	1,099	0	3	0	0	0	–
1974	1,805	0	1,805	165	1,376	603	0	1,979	0	7	0	0	0	–
1975	2,983	0	2,983	128	4,134	1,539	4	5,676	0	5	0	0	0	–
1976	3,507	0	3,507	123	4,118	1,100	0	5,218	0	5	0	0	0	–
1977	4,513	0	4,513	129	3,748	797	0	4,545	0	3	0	0	0	–
1978	7,349	0	7,349	118	3,927	761	4	4,692	0	5	0	0	0	–
1979	7,630	0	7,630	117	2,068	575	0	2,643	0	4	0	0	0	–
1980	10,034	0	10,034	101	492	382	0	875	0	8	0	0	0	–
1981	11,327	0	11,327	79	360	268	0	628	0	8	0	0	0	–
1982	11,512	0	11,512	61	295	264	0	559	0	7	0	0	0	–
1983	12,814	0	12,814	47	268	262	0	530	0	6	0	0	0	–
1984	15,252	0	15,252	32	39	213	0	253	0	7	0	0	(s)	–
1985	14,351	0	14,351	21	20	195	0	215	3,856	9	0	0	(s)	–
1986	14,097	0	14,097	15	15	174	0	188	6,959	8	0	0	(s)	–
1987	14,942	0	14,942	16	25	131	0	156	6,471	9	0	0	(s)	–
1988	14,742	0	14,742	19	121	161	0	283	6,650	12	0	0	(s)	–
1989	14,774	0	14,774	19	54	191	0	246	9,709	10	0	0	(s)	–
1990	15,018	0	15,018	27	22	130	0	152	7,874	12	0	0	(s)	–
1991	14,732	0	14,732	36	4	153	0	156	5,859	9	0	0	(s)	–
1992	14,068	0	14,068	14	2	103	0	104	8,491	0	0	0	(s)	–
1993	17,226	0	17,226	22	40	126	0	166	7,900	0	0	0	(s)	–
1994	16,989	0	16,989	27	12	129	0	142	8,529	0	0	0	(s)	–
	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	0.0	97.8
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	0.0	125.5
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	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	0.0	186.4
1972	10.2	0.0	10.2	179.5	3.8	1.3	0.0	5.1	0.0	(s)	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	(s)	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	0.0	213.1
1975	59.5	0.0	59.5	126.7	26.0	9.0	(s)	35.0	0.0	(s)	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	0.0	224.6
1977	85.9	0.0	85.9	126.5	23.6	4.6	0.0	28.2	0.0	(s)	0.0	0.0	0.0	240.6
1978	134.3	0.0	134.3	114.3	24.7	4.4	(s)	29.1	0.0	(s)	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	(s)	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	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	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	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	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	0.0	(s)	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	0.0	(s)	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	0.0	(s)	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	0.0	(s)	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	0.0	(s)	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	0.0	(s)	386.5
1990	268.8	0.0	268.8	26.9	0.1	0.8	0.0	0.9	84.1	0.1	0.0	0.0	(s)	380.8
1991	265.1	0.0	265.1	35.0	(s)	0.9	0.0	0.9	62.9	0.1	0.0	0.0	(s)	364.0
1992	250.4	0.0	250.4	13.6	(s)	0.6	0.0	0.6	90.7	0.0	0.0	0.0	(s)	355.2
1993	298.1	0.0	298.1	21.1	0.3	0.7	0.0	1.0	84.4	0.0	0.0	0.0	(s)	404.6
1994	295.9	0.0	295.9	26.8	0.1	0.8	0.0	0.8	91.1	0.0	0.0	0.0	(s)	414.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Kentucky

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	2,556	38,188	0	2,633	0	0	38,952	–
1965	17,584	172	2,112	1,052	5,567	1,284	2,375	5,869	755	25,780	600	4,382	49,776	0	2,464	0	0	1,224	–
1970	23,558	248	3,090	330	8,211	3,089	3,094	9,564	842	33,581	1,063	7,672	70,536	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	7,868	71,550	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	8,558	76,916	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	9,589	82,527	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	9,393	81,088	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	9,178	81,589	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	9,891	87,811	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	11,296	94,331	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	11,695	98,548	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	13,694	100,073	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	13,775	96,744	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	7,966	82,833	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	6,897	81,463	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	6,985	84,743	0	3,244	0	0	-13,810	–
1984	28,933	189	2,170	73	22,171	3,261	1,378	5,782	1,032	40,786	782	8,040	85,475	0	3,514	0	0	-4,586	–
1985	31,066	173	1,872	66	21,768	3,434	1,507	5,539	962	39,915	622	7,509	83,193	0	2,941	0	0	-21,176	–
1986	32,185	167	2,285	85	20,417	3,549	1,088	5,118	940	42,519	739	R 6,992	R 83,733	0	2,734	0	0	-37,637	–
1987	32,085	172	2,701	62	20,534	4,827	649	6,750	1,063	42,886	852	R 8,555	R 88,879	0	2,948	0	0	-35,172	–
1988	35,263	184	2,616	62	24,693	4,985	977	6,719	1,025	44,191	569	R 8,988	R 94,823	0	2,423	0	0	-46,481	–
1989	32,889	189	2,764	53	28,135	5,071	943	6,329	1,052	43,408	474	R 8,816	R 97,045	0	4,404	0	0	-20,259	–
1990	34,449	184	3,032	51	23,408	5,713	567	6,154	1,082	42,793	545	R 9,749	R 93,094	0	R I NA	I NA	I NA	R -24,542	–
1991	34,517	187	2,801	51	22,666	6,368	551	6,709	968	43,753	458	R 18,234	R 102,559	0	R NA	NA	NA	R -20,619	–
1992	34,704	190	2,537	55	25,603	6,882	505	6,427	987	44,305	422	R 20,910	R 108,632	0	R NA	NA	NA	R -17,563	–
1993	39,095	203	2,550	40	27,952	5,705	612	5,815	1,005	45,742	336	R 19,702	R 109,459	0	R NA	NA	NA	R -39,656	–
1994	38,090	208	2,843	46	28,041	6,343	562	5,673	1,050	46,197	329	20,458	111,542	0	NA	NA	NA	-25,773	–
			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	15.2	203.4	0.0	28.3	0.0	0.0	132.9	805.1
1965	415.5	176.7	14.0	5.3	32.4	7.2	13.5	23.5	4.6	135.4	3.8	25.1	264.8	0.0	25.8	0.0	0.0	4.2	886.9
1970	527.0	252.3	20.5	1.7	47.8	17.4	17.5	36.1	5.1	176.4	6.7	43.9	373.1	0.0	33.3	0.0	0.0	-88.8	1,097.0
1971	550.4	248.5	20.7	0.9	45.3	15.0	15.8	37.2	5.5	187.6	4.1	45.0	377.2	0.0	37.1	0.0	0.0	-103.4	1,109.7
1972	583.8	259.5	20.0	0.8	55.7	12.4	12.8	42.9	5.9	197.3	7.5	49.0	404.4	0.0	39.1	0.0	0.0	-93.1	1,193.7
1973	573.4	250.1	24.1	0.7	62.6	13.3	12.2	46.0	7.0	206.8	7.0	55.1	434.7	0.0	39.7	0.0	0.0	-68.7	1,229.2
1974	593.8	231.4	17.1	0.7	60.7	11.4	10.6	44.5	6.7	207.7	13.0	53.7	426.2	0.0	35.5	0.0	0.0	-69.6	1,217.4
1975	558.3	209.2	17.4	0.6	63.6	12.1	8.9	40.8	6.4	214.4	13.6	52.7	430.6	0.0	36.0	0.0	0.0	30.7	1,264.9
1976	617.5	248.7	17.7	0.6	79.5	12.2	8.7	42.0	7.1	225.0	15.4	56.6	464.9	0.0	32.8	0.0	0.0	22.9	1,386.7
1977	613.5	221.9	18.6	0.6	99.3	12.5	8.0	42.7	6.4	230.8	17.8	64.9	501.6	0.0	34.6	0.0	0.0	40.9	1,412.4
1978	617.2	215.0	19.6	0.5	111.3	14.4	7.8	45.0	6.9	236.0	15.3	67.0	523.8	0.0	33.0	0.0	0.0	3.9	1,392.8
1979	609.3	220.9	19.6	0.7	124.0	14.5	20.1	39.6	7.2	223.6	8.6	77.9	535.8	0.0	40.8	0.0	0.0	22.3	1,429.0
1980	641.7	204.1	13.4	0.6	133.4	16.3	16.5	37.6	6.4	209.2	6.4	77.8	517.6	0.0	30.5	0.0	0.0	-9.6	1,384.2
1981	663.9	202.2	12.8	0.5	106.0	18.2	6.6	28.9	6.1	211.1	7.2	46.5	443.8	0.0	27.2	0.0	0.0	-49.8	1,287.3
1982	627.0	191.2	19.2	0.4	101.8	20.9	6.5	25.7	5.6	210.5	7.3	40.3	438.2	0.0	34.9	0.0	0.0	-49.3	1,242.0
1983	637.8	177.8	13.9	0.5	119.0	22.6	8.8	25.9	5.9	211.5	7.4	40.8	456.3	0.0	34.1	0.0	0.0	-47.1	1,259.0
1984	671.0	193.4	14.4	0.4	129.1	18.4	7.8	20.8	6.3	214.2	4.9	46.4	462.7	0.0	36.7	0.0	0.0	-15.6	1,348.2
1985	716.9	177.7	12.4	0.3	126.8	19.3	8.5	20.0	5.8	209.7	3.9	43.8	450.6	0.0	30.7	0.0	0.0	-72.3	1,303.7
1986	749.9	173.5	15.2	0.4	118.9	20.0	6.2	18.6	5.7	223.4	4.6	R 41.3	R 454.4	0.0	28.6	0.0	0.0	-128.4	R 1,277.9
1987	746.7	178.3	17.9	0.3	119.6	27.3	3.7	24.7	6.4	225.3	5.4	R 50.3	R 480.8	0.0	30.7	0.0	0.0	-120.0	R 1,316.5
1988	821.8	190.9	17.4	0.3	143.8	28.2	5.5	24.5	6.2	232.1	3.6	R 52.9	R 514.6	0.0	25.0	0.0	0.0	-158.6	R 1,393.7
1989	765.0	195.9	18.3	0.3	163.9	28.7	5.3	23.3	6.4	228.0	3.0	R 51.7	R 528.9	0.0	45.4	0.0	0.0	-69.1	R 1,466.1
1990	804.3	191.7	20.1	0.3	136.4	32.3	3.2	22.3	6.6	224.8	3.4	R 57.3	R 506.6	0.0	I 32.7	I 25.7	I (s)	R -83.7	R I 1,476.7
1991	804.6	196.3	18.6	0.3	132.0	36.0	3.1	24.2	5.9	229.8	2.9	R 103.2	R 556.0	0.0	37.9	26.3	(s)	R -70.4	R 1,550.2
1992	813.6	200.9	16.8	0.3	149.1	38.9	2.9	23.3	6.0	232.7	2.7	R 118.2	R 590.9	0.0	38.8	27.7	(s)	R -59.9	R 1,611.5
1993	922.4	213.1	16.9	0.2	162.8	32.3	3.5	21.0	6.1	240.3	2.1	R 111.1	R 596.3	0.0	32.4	24.2	(s)	-135.3	R 1,652.5
1994	897.5	221.3	18.9	0.2	163.3	35.9	3.2	20.6	6.4	242.7	2.1	115.5	608.7	0.0	41.2	24.5	(s)	-87.9	1,704.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Kentucky

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	237	29	266	63	242	897	1,396	2,534	0	0	2,760	–	6,866	–
1965	157	18	176	64	278	1,653	1,594	3,526	0	0	3,763	–	8,984	–
1970	179	11	190	86	403	2,077	3,356	5,836	0	0	6,987	–	16,932	–
1971	126	11	136	84	356	1,884	3,432	5,672	0	0	7,547	–	18,246	–
1972	107	8	115	86	338	1,387	3,719	5,444	0	0	7,079	–	17,040	–
1973	117	8	125	80	389	1,314	4,085	5,787	0	0	7,982	–	19,110	–
1974	126	7	133	76	394	1,279	3,767	5,440	0	0	8,109	–	19,771	–
1975	99	6	105	79	442	1,073	3,740	5,255	0	0	9,586	–	23,122	–
1976	102	6	107	96	669	836	3,890	5,396	0	0	10,034	–	24,171	–
1977	175	5	180	95	949	797	3,918	5,663	0	0	11,479	–	27,718	–
1978	185	4	190	84	873	733	3,921	5,527	0	0	12,027	–	29,424	–
1979	259	3	262	77	830	2,075	2,316	5,221	0	0	11,974	–	28,897	–
1980	98	4	102	74	820	1,751	2,063	4,633	0	0	13,075	–	31,794	–
1981	172	5	178	71	572	474	1,871	2,917	0	0	13,700	–	32,651	–
1982	143	1	144	68	647	527	1,522	2,696	0	0	13,697	–	32,897	–
1983	127	3	130	63	679	911	1,810	3,400	0	0	14,461	–	34,645	–
1984	125	5	130	67	733	852	1,347	2,933	0	0	14,675	–	34,157	–
1985	87	0	87	60	824	833	1,586	3,244	0	0	14,539	–	34,159	–
1986	102	0	102	59	682	672	1,649	3,003	0	0	15,307	–	35,210	–
1987	100	2	101	59	760	446	2,358	3,564	0	0	16,080	–	36,742	–
1988	127	(s)	127	64	887	645	2,146	3,678	0	0	16,811	–	38,006	–
1989	83	(s)	83	65	745	583	2,223	3,551	0	0	16,922	–	37,950	–
1990	53	(s)	53	56	644	321	1,825	2,791	[e] 683	[e] 1	16,814	–	R 36,741	–
1991	65	(s)	65	59	703	378	2,152	3,233	719	1	18,644	–	R 40,537	–
1992	74	(s)	74	62	769	365	2,027	3,160	757	1	17,787	–	R 37,971	–
1993	92	2	94	67	779	396	2,347	3,522	573	1	R 19,223	–	R 40,598	–
1994	99	1	100	63	816	390	2,270	3,477	561	1	19,481	–	40,627	–
	Trillion Btu													
1960	5.8	0.7	6.5	65.2	1.4	5.1	5.6	12.1	0.0	0.0	9.4	93.2	23.4	116.7
1965	3.8	0.4	4.3	65.9	1.6	9.4	6.4	17.4	0.0	0.0	12.8	100.4	30.7	131.0
1970	4.2	0.3	4.4	87.9	2.3	11.8	12.7	26.8	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	32.7	137.5	78.9	216.4
1976	2.4	0.1	2.5	97.4	3.9	4.7	14.4	23.1	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	46.7	135.3	111.4	246.8
1982	3.4	(s)	3.5	68.5	3.8	3.0	5.5	12.3	0.0	0.0	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	0.0	0.0	49.3	132.4	118.2	250.6
1984	3.0	0.1	3.2	68.4	4.3	4.8	4.8	14.0	0.0	0.0	50.1	135.6	116.5	252.1
1985	2.1	0.0	2.1	61.9	4.8	4.7	5.7	15.2	0.0	0.0	49.6	128.9	116.6	245.4
1986	2.5	0.0	2.5	61.6	4.0	3.8	6.0	13.8	0.0	0.0	52.2	130.1	120.1	250.3
1987	2.4	(s)	2.5	61.3	4.4	2.5	8.6	15.6	0.0	0.0	54.9	134.2	125.4	259.6
1988	3.1	(s)	3.1	66.4	5.2	3.7	7.8	16.7	0.0	0.0	57.4	143.5	129.7	273.2
1989	2.0	(s)	2.0	67.6	4.3	3.3	8.2	15.8	0.0	0.0	57.7	143.2	129.5	272.6
1990	1.3	(s)	1.3	58.3	3.8	1.8	6.6	12.2	[e] 13.7	[e] (s)	57.4	R [e] 142.8	R 125.4	R [e] 268.2
1991	1.6	(s)	1.6	62.3	4.1	2.1	7.8	14.0	14.4	(s)	63.6	R 155.9	138.3	R 294.2
1992	1.8	(s)	1.8	65.5	4.5	2.1	7.3	13.9	15.1	(s)	60.7	R 157.1	R 129.6	R 286.6
1993	2.3	(s)	2.3	70.1	4.5	2.2	8.5	15.2	11.5	(s)	65.6	R 164.8	138.5	R 303.3
1994	2.5	(s)	2.5	66.4	4.8	2.2	8.3	15.2	11.2	(s)	66.5	161.8	138.6	300.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Kentucky

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	292	12	305	21	576	325	281	268	8	1,459	2,166	–	5,171	–
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	(s)	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	238	295	30	2,446	9,288	–	21,618	–
1985	162	0	162	34	1,521	92	280	377	1	2,271	9,465	–	22,237	–
1986	190	0	190	33	1,024	149	291	404	32	1,900	9,913	–	22,803	–
1987	185	1	186	33	533	67	416	418	1	1,435	10,248	–	23,415	–
1988	235	(s)	235	36	976	143	379	404	39	1,941	10,821	–	24,464	–
1989	154	(s)	154	36	649	164	392	393	(s)	1,598	11,392	–	25,549	–
1990	98	(s)	98	32	656	94	322	442	(s)	1,515	11,740	–	R 25,654	–
1991	121	(s)	122	34	716	102	380	319	0	1,516	12,610	–	R 27,418	–
1992	138	(s)	138	35	878	58	358	277	0	1,571	12,198	–	R 26,039	–
1993	171	1	172	38	662	78	414	40	2	1,197	R 12,606	–	R 26,623	–
1994	184	1	185	37	988	73	401	40	2	1,503	12,956	–	27,019	–
	Trillion Btu													
1960	10.7	0.5	11.2	18.9	2.9	1.0	1.0	1.8	(s)	6.7	5.4	42.2	13.5	55.7
1965	7.1	0.3	7.4	21.9	3.4	1.8	1.1	1.4	(s)	7.8	7.4	44.5	17.6	62.2
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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	6.4	35.8	2.9	0.5	1.0	1.4	(s)	5.7	30.8	78.6	73.9	152.5
1983	5.6	(s)	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	0.9	1.6	0.2	13.5	31.7	87.9	73.8	161.6
1985	3.9	0.0	3.9	34.8	8.9	0.5	1.0	2.0	(s)	12.4	32.3	83.4	75.9	159.3
1986	4.7	0.0	4.7	33.9	6.0	0.8	1.1	2.1	0.2	10.2	33.8	82.6	77.8	160.4
1987	4.5	(s)	4.6	34.5	3.1	0.4	1.5	2.2	(s)	7.2	35.0	81.3	79.9	161.2
1988	5.7	(s)	5.7	37.0	5.7	0.8	1.4	2.1	0.2	10.2	36.9	90.0	83.5	173.4
1989	3.6	(s)	3.6	37.6	3.8	0.9	1.4	2.1	(s)	8.2	38.9	88.3	87.2	175.4
1990	2.4	(s)	2.4	33.1	3.8	0.5	1.2	2.3	(s)	7.8	40.1	83.4	87.5	170.9
1991	3.0	(s)	3.0	35.3	4.2	0.6	1.4	1.7	0.0	7.8	43.0	89.1	93.5	R 182.7
1992	3.4	(s)	3.4	37.5	5.1	0.3	1.3	1.5	0.0	8.2	41.6	90.7	88.8	179.5
1993	4.2	(s)	4.3	39.6	3.9	0.4	1.5	0.2	(s)	6.0	43.0	R 92.9	90.8	183.8
1994	4.6	(s)	4.6	39.0	5.8	0.4	1.5	0.2	(s)	7.8	44.2	95.7	92.2	187.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

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

[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Kentucky

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						- Total
1960	3,754	46	1,482	1,558	512	2,476	138	485	289	2,556	9,495	0	0	0	23,818	–	59,243	–
1965	4,879	58	2,112	1,987	397	3,957	346	430	536	4,382	14,148	0	0	0	20,893	–	49,884	–
1970	4,325	75	3,090	2,078	608	5,562	474	209	786	7,672	20,479	0	0	0	20,586	–	49,887	–
1971	3,968	74	3,115	2,286	526	5,762	517	260	356	7,868	20,691	0	0	0	22,062	–	53,338	–
1972	3,836	80	3,018	2,415	598	6,972	554	210	811	8,558	23,135	0	0	0	26,662	–	64,177	–
1973	3,295	77	3,626	2,719	579	7,399	623	224	959	9,589	25,718	0	0	0	27,594	–	66,061	–
1974	3,659	75	2,576	2,973	347	7,424	597	201	1,850	9,393	25,362	0	0	0	26,606	–	64,872	–
1975	2,898	66	2,622	3,346	293	6,511	518	195	2,059	9,178	24,721	0	0	0	31,006	–	74,790	–
1976	2,502	72	2,671	4,174	529	6,682	576	159	2,314	9,891	26,995	0	0	0	35,242	–	84,893	–
1977	2,362	55	2,799	6,302	462	6,928	538	153	2,659	11,296	31,139	0	0	0	34,347	–	82,938	–
1978	2,643	58	2,958	6,412	500	7,550	578	114	2,250	11,695	32,059	0	0	0	29,528	–	72,240	–
1979	2,804	74	2,956	5,813	1,062	8,009	605	96	1,153	13,694	33,388	0	0	0	30,500	–	73,607	–
1980	3,058	66	2,021	6,433	539	7,784	539	89	857	13,775	32,035	0	0	0	28,280	–	68,767	–
1981	2,400	66	1,933	5,347	565	5,638	517	72	871	7,966	22,909	0	0	0	27,364	–	65,216	–
1982	2,413	65	2,896	4,918	530	5,045	471	61	1,140	6,897	21,958	0	0	0	24,377	–	58,549	–
1983	2,858	61	2,101	4,185	447	4,698	493	50	1,119	6,985	20,077	0	0	0	23,323	–	55,877	–
1984	3,554	67	2,170	4,520	354	3,904	526	640	747	8,040	20,900	0	0	0	28,594	–	66,555	–
1985	3,732	63	1,872	5,622	582	3,574	490	842	621	7,509	21,113	0	0	0	26,564	–	62,409	–
1986	3,358	55	2,285	4,987	267	3,098	479	822	707	R 6,992	R 19,638	0	0	0	24,476	–	56,301	–
1987	3,228	58	2,701	5,456	136	3,904	542	843	851	R 8,555	R 22,990	0	0	0	24,459	–	55,887	–
1988	3,083	63	2,616	5,221	189	4,121	523	785	530	R 8,988	R 22,973	0	0	0	26,446	–	59,789	–
1989	3,542	66	2,764	4,787	196	3,641	536	839	473	R 8,816	R 22,055	0	0	0	30,173	–	67,666	–
1990	3,431	72	3,032	5,211	152	3,941	552	843	544	R 9,749	R 24,023	R f NA	f NA	f NA	32,543	–	R 71,113	–
1991	2,898	74	2,801	5,226	72	4,125	493	864	458	R 18,234	R 32,274	R NA	NA	NA	32,939	–	R 71,616	–
1992	2,777	76	2,537	5,792	82	3,986	503	861	422	R 20,910	R 35,093	R NA	NA	NA	R 37,084	–	R 79,166	–
1993	3,565	79	2,550	5,257	138	2,998	512	1,042	334	R 19,702	R 32,532	R NA	NA	NA	R 36,320	–	R 76,705	–
1994	3,241	86	2,843	6,400	99	2,909	535	1,114	328	20,458	34,687	NA	NA	NA	40,049	–	83,520	–
			Trillion Btu															
1960	95.9	47.7	9.8	9.1	2.9	9.9	0.8	2.5	1.8	15.2	52.1	0.0	0.0	0.0	81.3	277.1	202.1	479.2
1965	123.9	60.0	14.0	11.6	2.3	15.9	2.1	2.3	3.4	25.1	76.5	0.0	0.0	0.0	71.3	331.8	170.2	502.0
1970	105.9	76.1	20.5	12.1	3.4	21.0	2.9	1.1	4.9	43.9	109.9	0.0	0.0	0.0	70.2	362.1	170.2	532.3
1971	97.4	74.9	20.7	13.3	3.0	21.7	3.1	1.4	2.2	45.0	110.4	0.0	0.0	0.0	75.3	358.0	182.0	540.0
1972	93.7	80.8	20.0	14.1	3.4	26.2	3.4	1.1	5.1	49.0	122.2	0.0	0.0	0.0	91.0	387.7	219.0	606.7
1973	79.8	78.1	24.1	15.8	3.3	27.7	3.8	1.2	6.0	55.1	136.9	0.0	0.0	0.0	94.2	389.0	225.4	614.4
1974	88.6	75.8	17.1	17.3	2.0	27.7	3.6	1.1	11.6	53.7	134.1	0.0	0.0	0.0	90.8	389.3	221.3	610.7
1975	71.1	66.6	17.4	19.5	1.7	24.2	3.1	1.0	12.9	52.7	132.6	0.0	0.0	0.0	105.8	376.1	255.2	631.3
1976	60.9	72.5	17.7	24.3	3.0	24.8	3.5	0.8	14.5	56.6	145.3	0.0	0.0	0.0	120.2	399.0	289.7	688.6
1977	57.5	55.5	18.6	36.7	2.6	25.5	3.3	0.8	16.7	64.9	169.0	0.0	0.0	0.0	117.2	399.2	283.0	682.2
1978	64.9	58.1	19.6	37.4	2.8	27.7	3.5	0.6	14.1	67.0	172.8	0.0	0.0	0.0	100.7	396.5	246.5	643.0
1979	69.2	74.7	19.6	33.9	6.0	29.5	3.7	0.5	7.3	77.9	178.3	0.0	0.0	0.0	104.1	426.2	251.1	677.4
1980	76.1	66.4	13.4	37.5	3.1	28.6	3.3	0.5	5.4	77.8	169.4	0.0	0.0	0.0	96.5	408.4	234.6	643.1
1981	58.7	67.0	12.8	31.1	3.2	20.5	3.1	0.4	5.5	46.5	123.2	0.0	0.0	0.0	93.4	342.2	222.5	564.8
1982	59.5	65.7	19.2	28.6	3.0	18.2	2.9	0.3	7.2	40.3	119.7	0.0	0.0	0.0	83.2	328.2	199.8	527.9
1983	72.3	62.4	13.9	24.4	2.5	17.0	3.0	0.3	7.0	40.8	108.9	0.0	0.0	0.0	79.6	323.2	190.7	513.8
1984	90.0	68.7	14.4	26.3	2.0	14.1	3.2	3.4	4.7	46.4	114.4	0.0	0.0	0.0	97.6	370.7	227.1	597.8
1985	94.2	65.1	12.4	32.8	3.3	12.9	3.0	4.4	3.9	43.8	116.5	0.0	0.0	0.0	90.6	366.4	212.9	579.3
1986	85.1	56.6	15.2	29.0	1.5	11.3	2.9	4.3	4.4	R 41.3	R 110.0	0.0	0.0	0.0	83.5	R 335.3	192.1	R 527.4
1987	82.8	59.9	17.9	31.8	0.8	14.3	3.3	4.4	5.4	R 50.3	R 128.1	0.0	0.0	0.0	83.5	R 354.2	190.7	R 544.9
1988	79.3	65.4	17.4	30.4	1.1	15.0	3.2	4.1	3.3	R 52.9	R 127.4	0.0	0.0	0.0	90.2	R 362.4	204.0	R 566.4
1989	90.3	68.9	18.3	27.9	1.1	13.4	3.3	4.4	3.0	R 51.7	R 123.1	0.0	0.0	0.0	102.9	R 385.3	230.9	R 616.2
1990	87.1	74.4	20.1	30.4	0.9	14.3	3.3	4.4	3.4	R 57.3	R 134.1	f 0.0	f 11.5	f 0.0	111.0	R f 418.1	242.6	R f 660.7
1991	73.8	77.6	18.6	30.4	0.4	14.9	3.0	4.5	2.9	R 103.2	R 177.9	0.0	11.4	0.0	112.4	R 453.1	R 244.4	R 697.4
1992	71.3	80.9	16.8	33.7	0.5	14.4	3.1	4.5	2.7	R 118.2	R 193.9	0.0	12.0	0.0	126.5	R 484.6	R 270.1	R 754.7
1993	90.9	83.1	16.9	30.6	0.8	10.8	3.1	5.5	2.1	R 111.1	R 181.0	0.0	12.2	0.0	R 123.9	R 491.0	261.7	R 752.7
1994	82.8	91.2	18.9	37.3	0.6	10.6	3.2	5.9	2.1	115.5	193.9	0.0	12.6	0.0	136.6	517.1	285.0	802.1

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Kentucky

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	60	19	652	2,549	497	34	405	20,715	35	24,886	0	0	–	0	–
1965	15	28	1,052	2,725	1,284	36	409	25,082	42	30,630	0	0	–	0	–
1970	7	36	330	4,891	3,089	54	368	33,109	145	41,986	0	0	–	0	–
1971	5	35	179	4,399	2,674	64	394	35,218	50	42,978	0	0	–	0	–
1972	4	37	161	6,099	2,207	64	422	37,133	4	46,089	0	0	–	0	–
1973	2	35	144	6,822	2,367	73	538	38,897	3	48,843	0	0	–	0	–
1974	2	29	148	6,227	2,035	73	515	39,091	2	48,090	0	0	–	0	–
1975	(s)	24	129	6,215	2,150	66	530	40,346	2	49,436	0	0	–	0	–
1976	(s)	21	128	7,298	2,159	71	588	42,427	1	52,672	0	0	–	0	–
1977	(s)	19	110	7,740	2,224	78	518	43,520	1	54,192	0	0	–	0	–
1978	0	23	106	9,937	2,558	92	556	44,535	1	57,784	0	0	–	0	–
1979	0	26	136	12,916	2,569	28	582	42,217	51	58,500	0	0	–	0	–
1980	0	21	112	12,795	2,897	13	518	39,490	136	55,961	0	0	–	0	–
1981	0	24	92	11,348	3,230	85	497	39,852	250	55,353	0	0	–	0	–
1982	0	19	89	11,131	3,702	277	453	39,742	10	55,404	0	0	–	0	–
1983	0	15	95	13,738	4,009	329	474	39,904	12	58,562	0	0	–	0	–
1984	0	17	73	14,905	3,261	292	506	39,851	6	58,894	0	0	–	0	–
1985	0	14	66	13,530	3,434	98	471	38,695	0	56,295	0	0	–	0	–
1986	0	20	85	13,488	3,549	81	461	41,292	0	58,956	0	0	–	0	–
1987	0	21	62	13,559	4,827	71	521	41,625	0	60,665	0	0	–	0	–
1988	0	21	62	17,407	4,985	73	503	43,001	0	66,030	0	0	–	0	–
1989	0	21	53	21,724	5,071	73	516	42,176	0	69,612	0	0	–	0	–
1990	0	25	51	16,685	5,713	65	531	41,508	0	64,552	[e] 7,341	0	–	0	–
1991	0	20	51	15,793	6,368	52	475	42,569	0	65,308	5,819	0	–	0	–
1992	0	16	55	17,969	6,882	57	484	43,167	0	68,613	7,073	0	–	0	–
1993	0	19	40	21,040	5,705	56	493	44,660	0	71,994	7,893	0	–	0	–
1994	0	23	46	19,519	6,343	93	515	45,043	0	71,558	8,755	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	0.0	153.5	0.0	153.5
1965	0.4	28.4	5.3	15.9	7.2	0.1	2.5	131.8	0.3	163.0	0.0	0.0	191.8	0.0	191.8
1970	0.2	36.3	1.7	28.5	17.4	0.2	2.2	173.9	0.9	224.8	0.0	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	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	(s)	246.6	0.0	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	(s)	261.7	0.0	0.0	297.0	0.0	297.0
1974	(s)	29.8	0.7	36.3	11.4	0.3	3.1	205.3	(s)	257.2	0.0	0.0	287.1	0.0	287.1
1975	(s)	23.7	0.6	36.2	12.1	0.2	3.2	211.9	(s)	264.4	0.0	0.0	288.1	0.0	288.1
1976	(s)	20.8	0.6	42.5	12.2	0.3	3.6	222.9	(s)	282.0	0.0	0.0	302.8	0.0	302.8
1977	(s)	19.3	0.6	45.1	12.5	0.3	3.1	228.6	(s)	290.2	0.0	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	(s)	310.5	0.0	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	0.0	342.2	0.0	342.2
1980	0.0	21.1	0.6	74.5	16.3	(s)	3.1	207.4	0.9	302.9	0.0	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	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	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	0.0	331.9	0.0	331.9
1984	0.0	17.6	0.4	86.8	18.4	1.1	3.1	209.3	(s)	319.1	0.0	0.0	336.7	0.0	336.7
1985	0.0	14.7	0.3	78.8	19.3	0.4	2.9	203.3	0.0	305.0	0.0	0.0	319.7	0.0	319.7
1986	0.0	20.9	0.4	78.6	20.0	0.3	2.8	216.9	0.0	319.0	0.0	0.0	339.9	0.0	339.9
1987	0.0	22.2	0.3	79.0	27.3	0.3	3.2	218.7	0.0	328.6	0.0	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	0.0	380.6	0.0	380.6
1989	0.0	21.4	0.3	126.5	28.7	0.3	3.1	221.6	0.0	380.4	0.0	0.0	401.8	0.0	401.8
1990	0.0	25.6	0.3	97.2	32.3	0.2	3.2	218.0	0.0	351.3	[e] 0.6	0.0	[e] 376.9	0.0	[e] 376.9
1991	0.0	20.9	0.3	92.0	36.0	0.2	2.9	223.6	0.0	355.0	0.4	0.0	375.9	0.0	375.9
1992	0.0	16.8	0.3	104.7	38.9	0.2	2.9	226.8	0.0	373.8	0.5	0.0	390.6	0.0	390.6
1993	0.0	19.9	0.2	122.6	32.3	0.2	3.0	234.6	0.0	392.8	0.6	0.0	412.8	0.0	412.8
1994	0.0	24.3	0.2	113.7	35.9	0.3	3.1	236.6	0.0	389.9	0.7	0.0	414.2	0.0	414.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Kentucky

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	7,466	0	7,466	2	9	(s)	0	10	0	2,633	0	0	0	–
1965	12,210	0	12,210	(s)	14	(s)	0	14	0	2,464	0	0	0	–
1970	18,698	0	18,698	9	121	4	0	124	0	3,174	0	0	0	–
1971	20,483	0	20,483	9	247	7	0	255	0	3,536	0	0	0	–
1972	22,311	0	22,311	10	375	16	0	391	0	3,770	0	0	0	–
1973	22,333	0	22,333	8	144	6	0	150	0	3,823	0	0	0	–
1974	23,203	0	23,203	5	195	6	0	200	0	3,398	0	0	0	–
1975	22,366	0	22,366	(s)	100	7	0	108	0	3,463	0	0	0	–
1976	25,095	0	25,095	(s)	127	121	0	248	0	3,159	0	0	0	–
1977	24,726	0	24,726	1	152	90	0	242	0	3,313	0	0	0	–
1978	24,473	0	24,473	1	172	68	0	240	0	3,182	0	0	0	–
1979	23,187	0	23,187	1	148	10	0	158	0	3,940	0	0	0	–
1980	24,383	0	24,383	2	0	227	0	227	0	2,940	0	0	0	–
1981	25,910	0	25,910	3	0	323	0	323	0	2,598	0	0	0	–
1982	24,455	0	24,455	2	0	295	0	295	0	3,343	0	0	0	–
1983	24,236	0	24,236	1	0	246	0	246	0	3,244	0	0	0	–
1984	25,014	0	25,014	2	0	302	0	302	0	3,514	0	0	0	–
1985	27,085	0	27,085	1	0	270	0	270	0	2,941	0	0	0	–
1986	28,535	0	28,535	(s)	0	236	0	236	0	2,734	0	0	0	–
1987	28,569	0	28,569	(s)	0	225	0	225	0	2,948	0	0	0	–
1988	31,818	0	31,818	(s)	0	202	0	202	0	2,423	0	0	0	–
1989	29,109	0	29,109	(s)	0	230	0	230	0	4,404	0	0	0	–
1990	30,867	0	30,867	(s)	0	212	0	212	0	3,160	0	0	0	–
1991	31,432	0	31,432	(s)	0	228	0	228	0	3,658	0	0	0	–
1992	31,715	0	31,715	(s)	0	195	0	195	0	3,767	0	0	0	–
1993	35,264	0	35,264	(s)	0	214	0	214	0	3,155	0	0	0	–
1994	34,564	0	34,564	(s)	0	317	0	317	0	4,014	0	0	0	–
	Trillion Btu													
1960	171.5	0.0	171.5	2.4	0.1	(s)	0.0	0.1	0.0	28.3	0.0	0.0	0.0	202.3
1965	279.5	0.0	279.5	0.5	0.1	(s)	0.0	0.1	0.0	25.8	0.0	0.0	0.0	305.8
1970	408.6	0.0	408.6	8.7	0.8	(s)	0.0	0.8	0.0	33.3	0.0	0.0	0.0	451.3
1971	444.2	0.0	444.2	9.1	1.6	(s)	0.0	1.6	0.0	37.1	0.0	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	0.0	534.5
1973	485.5	0.0	485.5	8.3	0.9	(s)	0.0	0.9	0.0	39.7	0.0	0.0	0.0	534.4
1974	496.7	0.0	496.7	5.6	1.2	(s)	0.0	1.3	0.0	35.5	0.0	0.0	0.0	539.0
1975	480.4	0.0	480.4	0.3	0.6	(s)	0.0	0.7	0.0	36.0	0.0	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	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	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	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	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	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	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	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	0.0	593.5
1984	572.1	0.0	572.1	1.8	0.0	1.8	0.0	1.8	0.0	36.7	0.0	0.0	0.0	612.4
1985	616.7	0.0	616.7	1.1	0.0	1.6	0.0	1.6	0.0	30.7	0.0	0.0	0.0	650.2
1986	657.6	0.0	657.6	0.4	0.0	1.4	0.0	1.4	0.0	28.6	0.0	0.0	0.0	688.0
1987	656.9	0.0	656.9	0.3	0.0	1.3	0.0	1.3	0.0	30.7	0.0	0.0	0.0	689.2
1988	733.6	0.0	733.6	0.5	0.0	1.2	0.0	1.2	0.0	25.0	0.0	0.0	0.0	760.3
1989	669.1	0.0	669.1	0.3	0.0	1.3	0.0	1.3	0.0	45.4	0.0	0.0	0.0	716.2
1990	713.5	0.0	713.5	0.3	0.0	1.2	0.0	1.2	0.0	32.7	0.0	0.0	0.0	747.7
1991	726.2	0.0	726.2	0.2	0.0	1.3	0.0	1.3	0.0	37.9	0.0	0.0	0.0	765.6
1992	737.1	0.0	737.1	0.3	0.0	1.1	0.0	1.1	0.0	38.8	0.0	0.0	0.0	777.3
1993	825.0	0.0	825.0	0.3	0.0	1.2	0.0	1.2	0.0	32.4	0.0	0.0	0.0	858.9
1994	807.6	0.0	807.6	0.4	0.0	1.8	0.0	1.8	0.0	41.2	0.0	0.0	0.0	851.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Louisiana

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	16,736	88,852	0	0	0	0	-2,067	–
1965	(s)	1,110	2,539	1,055	8,357	6,097	803	31,150	1,483	27,404	7,889	22,547	109,325	0	0	0	0	362	–
1970	0	1,841	2,210	447	11,799	5,879	2,509	47,555	1,590	34,850	11,118	32,167	150,124	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	44,896	163,298	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	49,418	186,445	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	54,318	212,662	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	55,325	222,611	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	54,576	214,065	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	64,327	237,208	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	72,331	270,987	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	76,012	279,482	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	86,784	307,896	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	91,100	296,347	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	59,731	295,551	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	52,442	287,818	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	51,640	276,220	0	0	0	0	66,130	–
1984	6,855	1,594	2,019	187	31,365	12,705	1,270	63,315	1,952	50,391	30,062	55,711	248,977	0	0	0	0	78,285	–
1985	9,217	1,386	1,835	171	33,602	12,803	187	70,430	1,819	49,291	24,717	53,471	248,327	2,457	0	0	0	64,216	–
1986	10,459	1,439	1,792	166	34,958	17,838	226	60,688	1,779	49,923	26,518	R67,716	R261,600	10,637	0	0	0	30,227	–
1987	10,391	1,501	2,275	132	36,641	16,874	72	53,296	2,011	48,106	24,093	R72,876	R258,375	12,324	0	0	0	31,746	–
1988	12,848	1,446	2,398	122	38,908	21,424	258	52,569	1,939	48,882	26,675	R79,515	R272,690	13,785	0	0	0	15,560	–
1989	12,471	1,538	2,315	115	37,049	22,321	168	50,617	1,989	46,863	26,075	R79,668	R267,179	12,391	0	0	0	29,223	–
1990	12,547	1,571	1,672	108	39,230	25,879	81	47,504	2,047	43,714	23,302	R86,024	R269,560	14,197	R NA	I NA	I NA	R19,714	–
1991	12,965	1,508	1,498	93	34,796	32,179	87	51,957	1,831	42,991	26,096	R73,338	R264,867	13,956	R NA	NA	NA	R23,859	–
1992	13,674	1,546	1,689	87	31,546	26,950	46	54,256	1,867	45,127	30,253	R83,254	R275,075	10,356	R NA	NA	NA	R29,775	–
1993	13,676	R1,578	1,860	219	35,151	25,124	62	R55,642	1,901	46,059	27,878	R81,920	R275,816	14,398	R NA	NA	NA	R22,964	–
1994	14,100	1,624	1,682	132	38,762	32,225	49	67,586	1,987	45,643	24,555	84,052	296,672	12,779	NA	NA	NA	24,772	–
			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	100.3	472.2	0.0	0.0	0.0	0.0	-7.1	1,468.9
1965	(s)	1,156.4	16.8	5.3	48.7	33.8	4.6	124.9	9.0	144.0	49.6	134.1	570.8	0.0	0.0	0.0	0.0	1.2	1,728.5
1970	0.0	1,894.2	14.7	2.3	68.7	32.6	14.2	179.7	9.6	183.1	69.9	189.7	764.5	0.0	0.0	0.0	0.0	1.1	2,659.8
1971	0.0	1,938.6	15.1	2.3	78.0	32.8	10.9	185.3	8.6	188.4	50.5	261.3	833.2	0.0	0.0	0.0	0.0	-4.3	2,767.4
1972	0.0	1,996.0	15.4	2.1	103.8	32.4	11.9	223.3	9.2	204.7	54.4	287.9	945.1	0.0	0.0	0.0	0.0	3.3	2,944.5
1973	0.0	2,072.2	16.5	1.9	122.8	32.7	19.1	230.2	10.8	216.0	130.8	316.9	1,097.7	0.0	0.0	0.0	0.0	10.3	3,180.2
1974	0.0	2,068.6	21.7	1.9	126.1	44.1	16.3	222.8	10.4	217.2	178.9	321.9	1,161.2	0.0	0.0	0.0	0.0	38.6	3,268.4
1975	0.0	1,854.8	18.7	1.5	125.2	33.9	13.7	196.7	11.1	226.9	178.6	318.3	1,124.6	0.0	0.0	0.0	0.0	7.0	2,986.4
1976	0.0	2,121.4	15.0	1.3	128.6	28.5	12.7	198.7	12.3	243.1	245.5	374.1	1,259.9	0.0	0.0	0.0	0.0	-7.3	3,374.0
1977	1.8	2,274.1	14.4	1.4	173.5	30.2	16.9	197.3	12.1	253.8	339.7	421.0	1,460.3	0.0	0.0	0.0	0.0	11.8	3,747.9
1978	3.7	2,349.7	17.6	1.1	180.8	31.2	18.5	200.0	13.0	263.0	339.4	442.5	1,507.1	0.0	0.0	0.0	0.0	21.7	3,882.2
1979	2.5	2,051.4	18.1	1.2	183.5	41.2	18.1	236.8	13.6	257.8	379.9	499.5	1,649.8	0.0	0.0	0.0	0.0	75.1	3,778.8
1980	2.5	1,862.2	12.9	1.3	131.5	48.4	32.4	194.3	12.1	247.7	402.9	521.2	1,604.7	0.0	0.0	0.0	0.0	125.3	3,594.6
1981	23.7	1,847.6	18.2	1.9	220.9	43.7	38.9	268.8	11.6	257.0	348.7	346.7	1,556.6	0.0	0.0	0.0	0.0	186.9	3,614.8
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	1,474.3	0.0	0.0	0.0	0.0	201.2	3,368.9
1983	106.7	1,472.3	17.4	1.1	181.3	61.4	6.7	321.6	11.1	265.1	234.0	304.6	1,404.2	0.0	0.0	0.0	0.0	225.6	3,208.9
1984	119.1	1,661.3	13.4	0.9	182.7	71.4	7.2	227.9	11.8	264.7	189.0	322.5	1,291.5	0.0	0.0	0.0	0.0	267.1	3,339.0
1985	159.1	1,441.8	12.2	0.9	195.7	72.0	1.1	253.8	11.0	258.9	155.4	313.0	1,273.9	26.6	0.0	0.0	0.0	219.1	3,120.5
1986	171.9	1,496.1	11.9	0.8	203.6	100.5	1.3	220.9	10.8	262.2	166.7	R393.1	R1,371.9	114.9	0.0	0.0	0.0	103.1	R3,258.0
1987	172.4	1,560.7	15.1	0.7	213.4	106.3	0.4	195.0	12.2	252.7	151.5	R419.2	R1,366.6	132.8	0.0	0.0	0.0	108.3	R3,340.8
1988	212.1	1,506.4	15.9	0.6	226.6	120.7	1.5	192.0	11.8	256.8	167.7	R457.9	R1,451.5	148.1	0.0	0.0	0.0	53.1	R3,371.2
1989	207.0	1,604.6	15.4	0.6	215.8	125.8	1.0	186.4	12.1	246.2	163.9	R456.4	R1,423.5	132.9	0.0	0.0	0.0	99.7	R3,467.7
1990	208.5	1,636.9	11.1	0.5	228.5	146.1	0.5	172.2	12.4	229.6	146.5	R492.4	R1,439.8	151.6	R 5.8	I 103.1	I 0.1	R67.3	R3,612.4
1991	214.3	1,579.0	9.9	0.5	202.7	181.9	0.5	187.8	11.1	225.8	164.1	R422.5	R1,406.7	149.9	R 5.8	103.2	0.1	R81.4	R3,539.8
1992	223.5	1,613.8	11.2	0.4	183.8	152.3	0.3	196.6	11.3	237.1	190.2	R477.1	R1,460.2	110.6	R 6.8	108.5	0.1	R101.6	R3,624.5
1993	222.7	R1,636.8	12.3	1.1	204.8	142.0	0.4	R200.6	11.5	241.9	175.3	R471.1	R1,461.0	153.8	R 12.8	109.0	0.1	R78.4	R3,673.8
1994	230.8	1,688.7	11.2	0.7	225.8	182.6	0.3	245.7	12.1	239.8	154.4	481.9	1,554.2	136.4	10.1	113.0	0.1	84.5	3,817.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

–=Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Louisiana

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	0	0	0	56	11	7	1,567	1,585	0	0	3,014	–	7,498	–
1965	0	0	0	61	6	14	2,159	2,178	0	0	5,161	–	12,323	–
1970	0	0	0	86	6	20	2,709	2,735	0	0	9,334	–	22,620	–
1971	0	0	0	80	5	10	2,908	2,924	0	0	10,119	–	24,463	–
1972	0	0	0	83	7	11	3,028	3,046	0	0	11,662	–	28,072	–
1973	0	0	0	93	9	31	2,740	2,779	0	0	12,298	–	29,442	–
1974	0	0	0	92	10	24	2,534	2,569	0	0	12,121	–	29,555	–
1975	0	0	0	96	10	21	2,086	2,117	0	0	11,923	–	28,761	–
1976	0	0	0	95	16	15	1,940	1,972	0	0	12,473	–	30,045	–
1977	0	0	0	94	26	27	2,149	2,202	0	0	14,272	–	34,462	–
1978	0	0	0	82	24	30	1,785	1,840	0	0	15,448	–	37,794	–
1979	0	0	0	88	42	31	1,276	1,349	0	0	15,504	–	37,416	–
1980	1	0	1	73	5	0	1,147	1,152	0	0	16,832	–	40,930	–
1981	0	0	0	81	0	28	1,146	1,174	0	0	17,601	–	41,949	–
1982	1	0	1	68	84	76	855	1,015	0	0	17,989	–	43,206	–
1983	0	0	0	68	3	92	1,017	1,112	0	0	17,351	–	41,570	–
1984	3	0	3	70	3	147	903	1,053	0	0	19,298	–	44,918	–
1985	0	0	0	61	8	18	989	1,014	0	0	20,168	–	47,383	–
1986	0	(s)	(s)	58	9	16	1,060	1,084	0	0	20,263	–	46,611	–
1987	0	0	0	61	2	10	1,012	1,024	0	0	19,986	–	45,667	–
1988	0	(s)	(s)	60	2	12	963	977	0	0	20,134	–	45,518	–
1989	0	0	0	58	8	32	904	944	0	0	20,515	–	46,008	–
1990	0	0	0	53	9	13	774	797	[e] 421	[e] 17	21,434	–	R 46,836	–
1991	0	(s)	(s)	55	2	14	825	840	444	18	21,577	–	R 46,912	–
1992	0	0	0	55	(s)	9	1,058	1,067	467	18	21,188	–	R 45,231	–
1993	0	1	1	57	(s)	7	712	719	408	18	22,430	–	R 47,371	–
1994	0	0	0	53	13	5	683	701	400	19	22,629	–	47,191	–
	Trillion Btu													
1960	0.0	0.0	0.0	57.8	0.1	(s)	6.3	6.4	0.0	0.0	10.3	74.4	25.6	100.0
1965	0.0	0.0	0.0	63.6	(s)	0.1	8.7	8.8	0.0	0.0	17.6	90.0	42.0	132.0
1970	0.0	0.0	0.0	88.6	(s)	0.1	10.2	10.4	0.0	0.0	31.8	130.9	77.2	208.1
1971	0.0	0.0	0.0	82.2	(s)	0.1	11.0	11.1	0.0	0.0	34.5	127.8	83.5	211.3
1972	0.0	0.0	0.0	84.6	(s)	0.1	11.4	11.5	0.0	0.0	39.8	135.9	95.8	231.7
1973	0.0	0.0	0.0	95.4	0.1	0.2	10.3	10.5	0.0	0.0	42.0	147.8	100.5	248.3
1974	0.0	0.0	0.0	94.0	0.1	0.1	9.5	9.7	0.0	0.0	41.4	145.0	100.8	245.8
1975	0.0	0.0	0.0	99.3	0.1	0.1	7.7	7.9	0.0	0.0	40.7	147.9	98.1	246.0
1976	0.0	0.0	0.0	98.6	0.1	0.1	7.2	7.4	0.0	0.0	42.6	148.5	102.5	251.1
1977	0.0	0.0	0.0	97.7	0.1	0.2	7.9	8.2	0.0	0.0	48.7	154.6	117.6	272.2
1978	0.0	0.0	0.0	85.5	0.1	0.2	6.5	6.9	0.0	0.0	52.7	145.0	129.0	274.0
1979	0.0	0.0	0.0	90.8	0.2	0.2	4.7	5.1	0.0	0.0	52.9	148.8	127.7	276.5
1980	(s)	0.0	(s)	75.8	(s)	0.0	4.2	4.2	0.0	0.0	57.4	137.5	139.7	277.2
1981	0.0	0.0	0.0	84.4	0.0	0.2	4.2	4.3	0.0	0.0	60.1	148.8	143.1	291.9
1982	(s)	0.0	(s)	71.7	0.5	0.4	3.1	4.0	0.0	0.0	61.4	137.1	147.4	284.6
1983	0.0	0.0	0.0	71.0	(s)	0.5	3.7	4.2	0.0	0.0	59.2	134.5	141.8	276.3
1984	0.1	0.0	0.1	72.4	(s)	0.8	3.3	4.1	0.0	0.0	65.8	142.4	153.3	295.6
1985	0.0	0.0	0.0	63.0	(s)	0.1	3.6	3.7	0.0	0.0	68.8	135.5	161.7	297.2
1986	0.0	(s)	(s)	60.4	0.1	0.1	3.9	4.0	0.0	0.0	69.1	133.5	159.0	292.6
1987	0.0	0.0	0.0	63.8	(s)	0.1	3.7	3.8	0.0	0.0	68.2	135.8	155.8	291.6
1988	0.0	(s)	(s)	62.2	(s)	0.1	3.5	3.6	0.0	0.0	68.7	134.5	155.3	289.8
1989	0.0	0.0	0.0	60.2	(s)	0.2	3.3	3.6	0.0	0.0	70.0	133.7	157.0	290.7
1990	0.0	0.0	0.0	55.6	0.1	0.1	2.8	2.9	[e] 8.4	[e] 0.1	73.1	R [e] 140.2	159.8	R [e] 300.0
1991	0.0	(s)	(s)	57.2	(s)	0.1	3.0	3.1	8.9	0.1	73.6	R 142.8	R 160.1	R 302.9
1992	0.0	0.0	0.0	57.7	(s)	0.1	3.8	3.9	9.3	0.1	72.3	R 143.2	154.3	R 297.6
1993	0.0	(s)	(s)	58.6	(s)	(s)	2.6	2.6	8.2	0.1	76.5	R 146.0	161.6	R 307.6
1994	0.0	0.0	0.0	55.0	0.1	(s)	2.5	2.6	8.0	0.1	77.2	142.9	161.0	303.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Louisiana

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	0	0	0	23	815	305	381	299	206	2,006	4,890	–	11,676	–
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	159	207	832	3,476	16,011	–	37,267	–
1985	0	0	0	30	3,743	65	174	235	575	4,793	16,548	–	38,878	–
1986	0	(s)	(s)	28	4,029	21	187	239	231	4,707	16,553	–	38,076	–
1987	0	0	0	28	1,880	21	179	248	267	2,595	16,181	–	36,973	–
1988	0	(s)	(s)	27	1,296	110	170	237	215	2,028	16,316	–	36,886	–
1989	0	0	0	27	845	35	159	222	253	1,515	16,563	–	37,144	–
1990	0	0	0	25	1,091	21	137	316	40	1,604	16,528	–	R 36,117	–
1991	0	(s)	(s)	25	899	22	146	258	121	1,445	16,541	–	R 35,964	–
1992	0	0	0	28	606	10	187	245	6	1,054	16,442	–	R 35,100	–
1993	0	(s)	(s)	25	865	26	126	41	(s)	1,057	16,884	–	R 35,658	–
1994	0	0	0	24	865	13	121	41	0	1,039	17,631	–	36,769	–
	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
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
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	(s)	0.0	(s)	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	0.6	1.1	5.2	20.1	54.6	109.3	127.2	236.5
1985	0.0	0.0	0.0	31.4	21.8	0.4	0.6	1.2	3.6	27.7	56.5	115.5	132.7	248.1
1986	0.0	(s)	(s)	29.1	23.5	0.1	0.7	1.3	1.5	27.0	56.5	112.5	129.9	242.4
1987	0.0	0.0	0.0	28.9	10.9	0.1	0.7	1.3	1.7	14.7	55.2	98.9	126.2	225.0
1988	0.0	(s)	(s)	28.6	7.6	0.6	0.6	1.2	1.3	11.4	55.7	95.7	125.9	221.5
1989	0.0	0.0	0.0	28.3	4.9	0.2	0.6	1.2	1.6	8.5	56.5	93.3	126.7	220.0
1990	0.0	0.0	0.0	26.0	6.4	0.1	0.5	1.7	0.3	8.9	56.4	R 91.2	123.2	214.5
1991	0.0	(s)	(s)	26.7	5.2	0.1	0.5	1.4	0.8	8.0	56.4	91.1	122.7	213.8
1992	0.0	0.0	0.0	29.7	3.5	0.1	0.7	1.3	(s)	5.6	56.1	91.4	R 119.8	211.1
1993	0.0	(s)	(s)	26.1	5.0	0.1	0.5	0.2	(s)	5.9	57.6	89.5	R 121.7	R 211.2
1994	0.0	0.0	0.0	25.1	5.0	0.1	0.4	0.2	0.0	5.8	60.2	91.0	125.5	216.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Louisiana

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	0	739	2,201	3,383	764	19,606	559	562	485	16,736	44,296	0	0	0	4,326	–	10,761	–
1965	0	797	2,539	3,129	484	28,451	821	548	353	22,547	58,873	0	0	0	5,905	–	14,100	–
1970	0	1,281	2,210	4,241	2,044	44,017	1,052	302	819	32,167	86,852	0	0	0	11,637	–	28,201	–
1971	0	1,299	2,273	4,429	1,687	45,306	892	274	751	44,896	100,509	0	0	0	12,460	–	30,123	–
1972	0	1,328	2,318	5,555	1,830	55,432	955	253	863	49,418	116,625	0	0	0	14,046	–	33,810	–
1973	0	1,413	2,489	6,630	2,651	57,873	1,264	221	1,902	54,318	127,347	0	0	0	15,000	–	35,909	–
1974	0	1,439	3,269	6,889	2,300	56,427	1,210	211	3,875	55,325	129,505	0	0	0	15,699	–	38,279	–
1975	0	1,224	2,812	6,391	1,931	50,191	1,299	173	4,046	54,576	121,419	0	0	0	14,969	–	36,108	–
1976	0	1,458	2,266	7,181	1,886	50,881	1,444	146	5,375	64,327	133,505	0	0	0	17,325	–	41,733	–
1977	79	1,619	2,167	12,170	2,336	50,746	1,277	131	7,560	72,331	148,719	0	0	0	19,236	–	46,450	–
1978	172	1,652	2,656	12,594	2,554	51,924	1,372	104	7,004	76,012	154,221	0	0	0	20,753	–	50,772	–
1979	118	1,316	2,725	11,330	2,464	62,281	1,436	82	15,758	86,784	182,859	0	0	0	22,536	–	54,387	–
1980	107	1,182	1,946	8,543	5,162	51,364	1,278	62	12,363	91,100	171,819	0	0	0	23,233	–	56,495	–
1981	286	1,166	2,746	14,541	4,307	72,226	1,226	89	13,265	59,731	168,131	0	0	0	26,318	–	62,723	–
1982	323	1,019	2,970	14,994	5,344	87,206	1,118	786	10,352	52,442	175,211	0	0	0	24,694	–	59,311	–
1983	314	966	2,616	9,274	1,015	87,486	1,170	525	18,333	51,640	172,059	0	0	0	23,835	–	57,103	–
1984	382	1,142	2,019	9,108	923	61,900	1,248	346	12,254	55,711	143,510	0	0	0	25,816	–	60,089	–
1985	457	968	1,835	9,540	104	69,158	1,163	486	6,806	53,471	142,563	0	0	0	23,952	–	56,274	–
1986	263	1,039	1,792	11,931	189	59,345	1,137	393	1,747	R67,716	R144,249	0	0	0	22,474	–	51,696	–
1987	362	1,113	2,275	13,422	41	52,015	1,286	373	2,183	R72,876	R144,472	0	0	0	22,986	–	52,521	–
1988	547	1,052	2,398	14,068	136	51,355	1,240	345	2,872	R79,515	R151,929	0	0	0	23,559	–	53,261	–
1989	702	1,159	2,315	11,903	101	49,482	1,272	292	1,423	R79,668	R146,455	0	0	0	24,762	–	55,533	–
1990	799	1,168	1,672	13,455	47	46,518	1,309	335	1,146	R86,024	R150,506	Rf NA	f NA	f NA	25,862	–	R56,513	–
1991	559	1,120	1,498	12,826	52	50,912	1,171	356	1,125	R73,338	R141,278	R NA	NA	NA	26,584	–	R57,799	–
1992	597	1,153	1,689	11,390	27	52,947	1,194	345	1,003	R82,381	R150,976	R NA	NA	NA	27,466	–	R58,635	–
1993	586	R1,196	1,860	12,251	29	R54,736	1,216	656	311	R79,170	R150,229	R NA	NA	NA	28,439	–	R60,062	–
1994	621	1,206	1,682	13,525	31	66,667	1,271	796	232	83,141	167,344	NA	NA	NA	29,870	–	62,292	–
			Trillion Btu															
1960	0.0	764.9	14.6	19.7	4.3	78.6	3.4	3.0	3.0	100.3	226.9	0.0	0.0	0.0	14.8	1,006.6	36.7	1,043.3
1965	0.0	830.0	16.8	18.2	2.7	114.1	5.0	2.9	2.2	134.1	296.1	0.0	0.0	0.0	20.1	1,146.3	48.1	1,194.4
1970	0.0	1,318.4	14.7	24.7	11.6	166.3	6.4	1.6	5.1	189.7	420.1	0.0	0.0	0.0	39.7	1,778.2	96.2	1,874.5
1971	0.0	1,336.4	15.1	25.8	9.6	170.9	5.4	1.4	4.7	261.3	494.2	0.0	0.0	0.0	42.5	1,873.1	102.8	1,975.9
1972	0.0	1,356.0	15.4	32.4	10.4	208.4	5.8	1.3	5.4	287.9	567.0	0.0	0.0	0.0	47.9	1,970.9	115.4	2,086.3
1973	0.0	1,447.2	16.5	38.6	15.0	216.8	7.7	1.2	12.0	316.9	624.6	0.0	0.0	0.0	51.2	2,123.0	122.5	2,245.6
1974	0.0	1,471.9	21.7	40.1	13.0	210.5	7.3	1.1	24.4	321.9	-640.0	0.0	0.0	0.0	53.6	2,165.5	130.6	2,296.1
1975	0.0	1,263.1	18.7	37.2	10.9	186.5	7.9	0.9	25.4	318.3	605.8	0.0	0.0	0.0	51.1	1,920.0	123.2	2,043.2
1976	0.0	1,506.5	15.0	41.8	10.7	188.8	8.8	0.8	33.8	374.1	673.8	0.0	0.0	0.0	59.1	2,239.4	142.4	2,381.8
1977	1.8	1,675.8	14.4	70.9	13.2	186.6	7.7	0.7	47.5	421.0	762.0	0.0	0.0	0.0	65.6	2,505.2	158.5	2,663.7
1978	3.7	1,722.1	17.6	73.4	14.5	190.5	8.3	0.5	44.0	442.5	791.4	0.0	0.0	0.0	70.8	2,588.1	173.2	2,761.3
1979	2.5	1,361.0	18.1	66.0	14.0	229.2	8.7	0.4	99.1	499.5	935.0	0.0	0.0	0.0	76.9	2,375.4	185.6	2,560.9
1980	2.4	1,225.4	12.9	49.8	29.3	188.7	7.8	0.3	77.7	521.2	887.6	0.0	0.0	0.0	79.3	2,194.7	192.8	2,387.5
1981	6.3	1,207.8	18.2	84.7	24.4	263.1	7.4	0.5	83.4	346.7	828.5	0.0	0.0	0.0	89.8	2,132.4	214.0	2,346.4
1982	7.4	1,067.1	19.7	87.3	30.3	315.2	6.8	4.1	65.1	306.1	834.7	0.0	0.0	0.0	84.3	1,993.5	202.4	2,195.9
1983	7.1	1,004.9	17.4	54.0	5.8	316.2	7.1	2.8	115.3	304.6	823.0	0.0	0.0	0.0	81.3	1,916.3	194.8	2,111.1
1984	8.9	1,188.0	13.4	53.1	5.2	222.8	7.6	1.8	77.0	322.5	703.4	0.0	0.0	0.0	88.1	1,988.3	205.0	2,193.3
1985	11.0	1,005.1	12.2	55.6	0.6	249.2	7.1	2.6	42.8	313.0	682.9	0.0	0.0	0.0	81.7	1,780.7	192.0	1,972.7
1986	6.3	1,079.1	11.9	69.5	1.1	216.0	6.9	2.1	11.0	R393.1	R711.6	0.0	0.0	0.0	76.7	R1,873.7	176.4	R2,050.1
1987	8.7	1,157.0	15.1	78.2	0.2	190.3	7.8	2.0	13.7	R419.2	R726.6	0.0	0.0	0.0	78.4	R1,970.7	179.2	R2,149.9
1988	10.5	1,095.1	15.9	81.9	0.8	187.5	7.5	1.8	18.1	R457.9	R771.4	0.0	0.0	0.0	80.4	R1,957.5	181.7	R2,139.2
1989	14.2	1,208.4	15.4	69.3	0.6	182.2	7.7	1.5	8.9	R456.4	R742.1	0.0	0.0	0.0	84.5	R2,049.2	189.5	R2,238.7
1990	16.0	1,216.4	11.1	78.4	0.3	168.6	7.9	1.8	7.2	R492.4	R767.7	Rf 5.8	f 94.0	f 0.0	88.2	Rf 2,188.1	192.8	Rf 2,380.9
1991	10.3	1,174.0	9.9	74.7	0.3	184.0	7.1	1.9	7.1	R422.5	R707.5	R 5.8	93.8	0.0	90.7	R2,082.0	R197.2	R2,279.2
1992	11.1	1,204.1	11.2	66.3	0.2	191.9	7.2	1.8	6.3	R471.8	R756.8	R 6.8	98.5	0.0	93.7	R2,171.1	R200.1	R2,371.2
1993	10.8	R1,239.4	12.3	71.4	0.2	R197.4	7.4	3.4	2.0	R454.5	R748.5	R 12.8	100.1	0.0	97.0	R2,208.7	R204.9	R2,413.6
1994	11.4	1,253.0	11.2	78.8	0.2	242.3	7.7	4.2	1.5	476.4	822.2	10.1	104.2	0.0	101.9	2,302.8	212.5	2,515.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Louisiana

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	0	32	847	5,690	3,207	197	700	21,729	7,944	40,314	0	26	–	64	–
1965	0	54	1,055	4,387	6,097	159	661	26,557	7,297	46,213	0	7	–	17	–
1970	0	71	447	6,655	5,879	350	539	34,167	9,699	57,736	0	3	–	7	–
1971	0	76	454	8,146	5,917	401	522	35,191	6,394	57,024	0	3	–	6	–
1972	0	80	416	11,037	5,841	400	559	38,301	6,251	62,805	0	3	–	7	–
1973	0	80	368	13,126	5,881	358	521	40,450	10,211	70,915	0	3	–	7	–
1974	0	76	367	13,213	7,888	316	499	40,697	14,365	77,346	0	3	–	7	–
1975	0	61	295	13,554	6,082	307	527	42,554	16,835	80,154	0	3	–	8	–
1976	0	80	261	12,511	5,126	383	585	45,645	18,453	82,965	0	3	–	8	–
1977	(s)	83	277	13,902	5,437	391	720	47,677	20,733	89,139	0	3	–	7	–
1978	0	81	219	14,963	5,595	481	773	49,421	18,883	90,337	0	3	–	8	–
1979	0	58	243	14,262	7,356	557	809	48,455	21,428	93,111	0	3	–	7	–
1980	0	74	255	12,457	8,644	159	721	46,927	31,159	100,321	0	3	–	8	–
1981	0	79	379	21,432	7,812	211	691	48,667	23,700	102,892	0	3	–	7	–
1982	0	62	255	15,056	8,195	250	630	49,442	18,460	92,287	0	3	–	5	–
1983	0	47	224	19,374	10,935	297	660	49,711	17,322	98,523	0	2	–	6	–
1984	0	49	187	20,036	12,705	353	704	49,837	16,844	100,666	0	2	–	6	–
1985	0	42	171	20,179	12,803	109	656	48,570	17,277	99,766	0	3	–	6	–
1986	0	46	166	18,913	17,838	94	641	49,291	23,908	110,851	0	3	–	6	–
1987	0	51	132	21,269	18,874	91	725	47,484	21,593	110,167	0	2	–	6	–
1988	0	57	122	23,395	21,424	81	699	48,300	23,192	117,213	0	3	–	6	–
1989	0	50	115	23,997	22,321	71	717	46,350	24,174	117,745	0	2	–	4	–
1990	0	56	108	24,516	25,879	74	738	43,063	22,041	116,419	[e] 8,857	2	–	5	–
1991	0	54	93	20,997	32,179	74	660	42,378	24,835	121,215	7,021	2	–	5	–
1992	0	54	87	19,475	26,950	64	673	44,537	29,226	121,011	8,533	3	–	5	–
1993	0	56	219	21,966	25,124	68	685	45,362	26,933	120,359	9,523	2	–	R 4	–
1994	0	63	132	24,261	32,225	115	716	44,807	23,987	126,242	10,563	3	–	5	–
			Trillion Btu												
1960	0.0	32.8	4.3	33.1	17.4	0.8	4.2	114.1	49.9	223.9	0.0	0.1	256.8	0.2	257.0
1965	0.0	56.4	5.3	25.6	33.8	0.6	4.0	139.5	45.9	254.7	0.0	(s)	311.1	0.1	311.1
1970	0.0	73.4	2.3	38.8	32.6	1.3	3.3	179.5	61.0	318.7	0.0	(s)	392.1	(s)	392.1
1971	0.0	78.3	2.3	47.5	32.8	1.5	3.2	184.9	40.2	312.3	0.0	(s)	390.6	(s)	390.6
1972	0.0	81.2	2.1	64.3	32.4	1.5	3.4	201.2	39.3	344.2	0.0	(s)	425.4	(s)	425.5
1973	0.0	82.2	1.9	76.5	32.7	1.3	3.2	212.5	64.2	392.2	0.0	(s)	474.4	(s)	474.4
1974	0.0	78.0	1.9	77.0	44.1	1.2	3.0	213.8	90.3	431.2	0.0	(s)	509.2	(s)	509.2
1975	0.0	63.0	1.5	78.9	33.9	1.1	3.2	223.5	105.8	448.0	0.0	(s)	511.0	(s)	511.1
1976	0.0	83.1	1.3	72.9	28.5	1.4	3.6	239.8	116.0	463.4	0.0	(s)	546.6	(s)	546.6
1977	(s)	86.0	1.4	81.0	30.2	1.4	4.4	250.4	130.4	499.2	0.0	(s)	585.2	(s)	585.2
1978	0.0	84.2	1.1	87.2	31.2	1.8	4.7	259.6	118.7	504.2	0.0	(s)	588.4	(s)	588.4
1979	0.0	59.6	1.2	83.1	41.2	2.1	4.9	254.5	134.7	521.7	0.0	(s)	581.3	(s)	581.3
1980	0.0	77.0	1.3	72.6	48.4	0.6	4.4	246.5	195.9	569.6	0.0	(s)	646.6	(s)	646.7
1981	0.0	81.6	1.9	124.8	43.7	0.8	4.2	255.6	149.0	580.1	0.0	(s)	661.7	(s)	661.7
1982	0.0	65.2	1.3	87.7	45.8	0.9	3.8	259.7	116.1	515.3	0.0	(s)	580.6	(s)	580.6
1983	0.0	49.1	1.1	112.9	61.4	1.1	4.0	261.1	108.9	550.5	0.0	(s)	599.5	(s)	599.6
1984	0.0	51.2	0.9	116.7	71.4	1.3	4.3	261.8	105.9	562.3	0.0	(s)	613.5	(s)	613.5
1985	0.0	43.9	0.9	117.5	72.0	0.4	4.0	255.1	108.6	558.5	0.0	(s)	602.4	(s)	602.4
1986	0.0	47.8	0.8	110.2	100.5	0.3	3.9	258.9	150.3	625.0	0.0	(s)	672.9	(s)	672.9
1987	0.0	53.5	0.7	123.9	106.3	0.3	4.4	249.4	135.8	620.8	0.0	(s)	674.3	(s)	674.3
1988	0.0	58.9	0.6	136.3	120.7	0.3	4.2	253.7	145.8	661.7	0.0	(s)	720.6	(s)	720.6
1989	0.0	52.0	0.6	139.8	125.8	0.3	4.3	243.5	152.0	666.2	0.0	(s)	718.2	(s)	718.2
1990	0.0	R 58.1	0.5	142.8	146.1	0.3	4.5	226.2	138.6	659.0	[e] 0.7	(s)	[e] 717.0	(s)	R [e] 717.1
1991	0.0	56.2	0.5	122.3	181.9	0.3	4.0	222.6	156.1	687.7	0.5	(s)	743.9	(s)	743.9
1992	0.0	56.4	0.4	113.4	152.3	0.2	4.1	234.0	183.7	688.2	0.7	(s)	744.6	(s)	744.6
1993	0.0	58.2	1.1	128.0	142.0	0.2	4.2	238.3	169.3	683.1	0.7	(s)	741.3	(s)	741.3
1994	0.0	65.7	0.7	141.3	182.6	0.4	4.3	235.4	150.8	715.5	0.8	(s)	781.2	(s)	781.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Louisiana

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	0	0	0	120	36	22	0	58	0	0	0	0	0	–
1965	(s)	0	(s)	176	34	20	0	54	0	0	0	0	0	–
1970	0	0	0	332	98	58	0	156	0	0	0	0	0	–
1971	0	0	0	362	402	67	0	469	0	0	0	0	0	–
1972	0	0	0	383	1,029	197	0	1,226	0	0	0	0	0	–
1973	0	0	0	365	7,649	77	0	7,726	0	0	0	0	0	–
1974	0	0	0	344	8,762	87	0	8,849	0	0	0	0	0	–
1975	0	0	0	356	5,699	88	0	5,787	0	0	0	0	0	–
1976	0	0	0	366	13,015	86	0	13,102	0	0	0	0	0	–
1977	0	0	0	350	22,310	84	0	22,394	0	0	0	0	0	–
1978	0	0	0	369	24,786	63	0	24,849	0	0	0	0	0	–
1979	0	0	0	401	14,475	40	0	14,514	0	0	0	0	0	–
1980	0	0	0	425	7,096	1,174	0	8,270	0	0	0	0	0	–
1981	1,077	0	1,077	416	3,119	1,433	0	4,552	0	0	0	0	0	–
1982	3,398	0	3,398	373	1,280	391	0	1,670	0	0	0	0	0	–
1983	5,840	0	5,840	296	323	349	0	672	0	0	0	0	0	–
1984	6,463	0	6,463	301	131	141	0	272	0	0	0	0	0	–
1985	8,760	0	8,760	285	59	132	0	191	2,457	0	0	0	0	–
1986	10,196	0	10,196	268	631	77	0	709	10,637	0	0	0	0	–
1987	10,029	0	10,029	247	49	69	0	118	12,324	0	0	0	0	–
1988	12,301	0	12,301	250	396	147	0	543	13,785	0	0	0	0	–
1989	11,770	0	11,770	245	225	297	0	521	12,391	0	0	0	0	–
1990	11,748	0	11,748	269	75	159	0	234	14,197	0	0	0	0	–
1991	12,406	0	12,406	254	16	73	0	89	13,956	0	0	0	0	–
1992	13,077	0	13,077	255	18	75	873	966	10,356	0	0	0	0	–
1993	13,089	0	13,089	244	634	69	2,749	3,452	14,398	0	0	0	0	–
1994	13,479	0	13,479	277	336	98	911	1,345	12,779	0	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	0.0	124.4
1965	(s)	0.0	(s)	182.9	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	183.3
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	584.5
1990	192.5	0.0	192.5	260.8	0.5	0.9	0.0	1.4	151.6	0.0	0.0	0.0	0.0	626.4
1991	204.0	0.0	204.0	264.9	0.1	0.4	0.0	0.5	149.9	0.0	0.0	0.0	0.0	619.4
1992	212.4	0.0	212.4	265.9	0.1	0.4	5.3	5.8	110.6	0.0	0.0	0.0	0.0	594.7
1993	211.8	0.0	211.8	254.5	4.0	0.4	16.6	20.9	153.8	0.0	0.0	0.0	0.0	641.1
1994	219.3	0.0	219.3	289.9	2.1	0.6	5.5	8.2	136.4	0.0	0.0	0.0	0.0	653.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Maine

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	–
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	–
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	605	192	12,281	10,328	0	34,802	5,123	8,666	0	0	-14,423	–
1985	206	3	2,185	41	9,581	1,639	1,042	674	179	12,545	7,900	0	35,786	5,354	3,379	0	0	2,200	–
1986	375	2	734	58	11,495	1,615	669	1,038	175	13,437	12,812	0	42,031	6,242	5,582	0	0	-8,279	–
1987	273	3	852	53	11,961	1,813	710	1,303	197	14,072	9,252	0	40,214	4,043	6,421	0	0	-2,208	–
1988	277	3	1,586	66	13,714	2,103	999	1,608	190	15,388	12,129	0	47,785	5,017	5,930	0	0	-3,098	–
1989	271	4	1,000	68	12,269	2,249	946	1,570	195	14,187	11,888	0	44,372	6,942	4,736	0	0	-5,449	–
1990	265	4	645	62	11,993	2,528	657	1,391	201	14,045	10,709	0	42,231	4,861	R NA	I NA	I NA	R 1,484	–
1991	374	5	988	42	10,366	2,374	743	1,475	180	14,120	10,196	R 145	R 40,630	6,264	R NA	NA	NA	R -233	–
1992	856	5	1,064	41	10,899	1,904	553	1,234	183	14,126	9,647	R 151	R 39,803	5,358	R NA	NA	NA	R 3,521	–
1993	449	5	1,083	37	12,767	1,488	967	1,368	187	14,386	9,353	R 153	R 41,790	5,740	R NA	NA	NA	R 5,444	–
1994	464	5	480	35	13,581	992	982	1,383	195	14,517	11,486	158	43,810	6,632	NA	NA	NA	-1,787	–
			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
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
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	2.2	1.2	64.5	64.9	0.0	199.4	55.6	90.5	0.0	0.0	-49.2	303.7
1985	5.1	2.6	14.5	0.2	55.8	8.9	5.9	2.4	1.1	65.9	49.7	0.0	204.4	57.9	35.3	0.0	0.0	7.5	312.9
1986	9.3	2.5	4.9	0.3	67.0	8.8	3.8	3.8	1.1	70.6	80.5	0.0	240.7	67.4	58.3	0.0	0.0	-28.2	350.0
1987	6.8	2.7	5.7	0.3	69.7	9.9	4.0	4.8	1.2	73.9	58.2	0.0	227.6	43.6	66.9	0.0	0.0	-7.5	340.1
1988	6.9	3.3	10.5	0.3	79.9	11.6	5.7	5.9	1.2	80.8	76.3	0.0	272.1	53.9	61.2	0.0	0.0	-10.6	386.8
1989	6.8	3.7	6.6	0.3	71.5	12.4	5.4	5.8	1.2	74.5	74.7	0.0	252.5	74.4	48.9	0.0	0.0	-18.6	367.6
1990	6.6	4.4	4.3	0.3	69.9	14.0	3.7	5.0	1.2	73.8	67.3	0.0	239.6	51.9	R 59.8	I 137.9	I 0.1	R 5.1	R 507.2
1991	9.4	4.8	6.6	0.2	60.4	13.2	4.2	5.3	1.1	74.2	64.1	R 0.8	R 230.0	67.3	R 56.8	137.8	0.1	-0.8	R 506.8
1992	21.5	5.2	7.1	0.2	63.5	10.5	3.1	4.5	1.1	74.2	60.7	R 0.8	R 225.7	57.2	R 56.2	144.8	0.1	12.0	R 524.7
1993	11.2	5.0	7.2	0.2	74.4	8.3	5.5	4.9	1.1	75.6	58.8	R 0.8	R 236.8	61.3	R 55.0	148.0	0.1	R 18.6	R 536.6
1994	11.6	5.1	3.2	0.2	79.1	5.6	5.6	5.0	1.2	76.3	72.2	0.9	249.2	70.8	58.4	147.8	0.1	-6.1	546.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Maine

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	41	54	95	0	4,727	2,091	342	7,160	0	0	993	–	2,471	–
1965	24	34	58	0	6,139	1,691	381	8,210	0	0	1,224	–	2,922	–
1970	3	21	24	1	7,877	1,649	383	9,909	0	0	1,723	–	4,175	–
1971	3	20	22	1	7,919	1,666	375	9,961	0	0	1,888	–	4,564	–
1972	3	15	18	1	8,422	1,659	441	10,522	0	0	2,129	–	5,125	–
1973	3	15	17	1	8,168	1,214	455	9,837	0	0	2,263	–	5,419	–
1974	3	13	16	1	7,938	1,026	501	9,465	0	0	2,408	–	5,872	–
1975	2	11	13	1	7,646	932	604	9,182	0	0	2,487	–	5,999	–
1976	1	10	11	1	9,067	1,215	754	11,036	0	0	2,771	–	6,674	–
1977	2	10	11	1	9,947	952	800	11,699	0	0	2,859	–	6,905	–
1978	0	8	8	1	9,060	692	709	10,461	0	0	2,996	–	7,330	–
1979	0	6	6	1	7,284	541	927	8,751	0	0	3,016	–	7,279	–
1980	4	8	12	1	6,372	405	395	7,173	0	0	2,998	–	7,290	–
1981	2	20	22	1	5,222	233	345	5,800	0	0	3,033	–	7,229	–
1982	10	15	25	1	4,941	272	404	5,617	0	0	3,182	–	7,642	–
1983	8	11	19	1	3,241	266	480	3,988	0	0	3,218	–	7,709	–
1984	10	13	23	1	3,324	273	231	3,828	0	0	3,369	–	7,841	–
1985	12	10	21	1	4,881	910	348	6,139	0	0	3,419	–	8,033	–
1986	17	8	25	1	5,683	625	510	6,817	0	0	3,578	–	8,230	–
1987	12	8	21	1	5,462	630	805	6,898	0	0	3,726	–	8,513	–
1988	10	5	16	1	5,970	785	905	7,659	0	0	3,904	–	8,825	–
1989	6	5	11	1	5,678	804	921	7,403	0	0	4,009	–	8,991	–
1990	11	7	18	1	5,039	563	863	6,464	[e] 215	[e] 22	3,932	–	R 8,593	–
1991	(s)	7	7	1	5,157	593	939	6,689	226	23	3,817	–	R 8,299	–
1992	9	6	15	1	5,282	473	767	6,522	238	24	3,830	–	R 8,175	–
1993	6	5	11	1	5,722	741	952	7,414	247	25	3,872	–	R 8,178	–
1994	0	4	4	1	5,642	758	985	7,385	242	29	3,692	–	7,699	–
	Trillion Btu													
1960	1.0	1.3	2.4	0.0	27.5	11.9	1.4	40.8	0.0	0.0	3.4	46.5	8.4	54.9
1965	0.6	0.8	1.4	0.0	35.8	9.6	1.5	46.9	0.0	0.0	4.2	52.5	10.0	62.4
1970	0.1	0.5	0.6	0.5	45.9	9.4	1.4	56.7	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	8.2	63.1	20.0	83.2
1975	(s)	0.2	0.3	0.7	44.5	5.3	2.2	52.1	0.0	0.0	8.5	61.6	20.5	82.1
1976	(s)	0.2	0.2	0.8	52.8	6.9	2.8	62.5	0.0	0.0	9.5	73.0	22.8	95.8
1977	(s)	0.2	0.3	0.8	57.9	5.4	2.9	66.3	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	10.2	51.9	24.9	76.8
1981	(s)	0.5	0.5	0.6	30.4	1.3	1.3	33.0	0.0	0.0	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	0.0	0.0	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	0.0	0.0	11.0	34.1	26.3	60.4
1984	0.3	0.3	0.6	0.6	19.4	1.5	0.8	21.7	0.0	0.0	11.5	34.4	26.8	61.1
1985	0.3	0.2	0.5	0.5	28.4	5.2	1.3	34.8	0.0	0.0	11.7	47.6	27.4	75.0
1986	0.4	0.2	0.6	0.6	33.1	3.5	1.9	38.5	0.0	0.0	12.2	51.9	28.1	80.0
1987	0.3	0.2	0.5	0.5	31.8	3.6	2.9	38.3	0.0	0.0	12.7	52.1	29.0	81.2
1988	0.3	0.1	0.4	0.6	34.8	4.4	3.3	42.5	0.0	0.0	13.3	56.8	30.1	86.9
1989	0.2	0.1	0.3	0.6	33.1	4.6	3.4	41.0	0.0	0.0	13.7	55.6	30.7	86.3
1990	0.3	0.2	0.5	0.7	29.3	3.2	3.1	35.7	[e] 4.3	[e] 0.1	13.4	R [e] 54.6	29.3	R [e] 83.9
1991	(s)	0.2	0.2	0.7	30.0	3.4	3.4	36.8	4.5	0.1	13.0	R 55.3	28.3	R 83.7
1992	0.2	0.1	0.4	0.9	30.8	2.7	2.8	36.2	4.8	0.1	13.1	R 55.4	27.9	R 83.3
1993	0.1	0.1	0.3	0.9	33.3	4.2	3.4	41.0	4.9	0.1	13.2	R 60.4	27.9	R 88.3
1994	0.0	0.1	0.1	0.9	32.9	4.3	3.6	40.7	4.8	0.1	12.6	59.3	26.3	85.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Maine

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	44	23	67	0	1,294	81	67	34	72	1,549	819	–	1,956	–
1970	6	14	19	(s)	1,660	79	68	40	292	2,139	975	–	2,364	–
1971	5	13	18	(s)	1,669	80	66	41	659	2,514	1,054	–	2,548	–
1972	5	10	15	(s)	1,775	80	78	41	657	2,630	1,173	–	2,823	–
1973	5	10	15	(s)	1,721	58	80	32	609	2,501	1,257	–	3,008	–
1974	5	9	14	(s)	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	(s)	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	41	114	1,013	2,647	2,276	–	5,298	–
1985	21	6	28	1	969	99	61	104	1,040	2,273	2,338	–	5,493	–
1986	32	5	38	1	1,562	26	90	105	1,461	3,243	2,490	–	5,728	–
1987	23	6	28	1	1,484	41	142	93	707	2,466	2,642	–	6,036	–
1988	19	4	22	1	1,788	159	160	104	1,880	4,091	2,744	–	6,204	–
1989	11	3	14	2	1,621	94	162	115	1,914	3,907	2,826	–	6,338	–
1990	20	5	25	2	1,688	68	152	100	2,166	4,175	2,847	–	R 6,220	–
1991	1	5	6	2	1,444	125	166	54	2,464	4,252	2,857	–	R 6,211	–
1992	17	4	21	2	1,715	66	135	50	1,257	3,223	2,900	–	R 6,192	–
1993	11	4	15	2	2,262	174	168	12	740	3,355	3,040	–	R 6,421	–
1994	0	2	2	2	2,292	152	174	12	772	3,401	2,962	–	6,177	–
	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
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
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	(s)	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	0.1	0.6	6.4	15.7	7.8	25.3	18.1	43.4
1985	0.5	0.1	0.7	1.2	5.6	0.6	0.2	0.5	6.5	13.5	8.0	23.3	18.7	42.1
1986	0.8	0.1	0.9	1.3	9.1	0.1	0.3	0.6	9.2	19.3	8.5	30.0	19.5	49.5
1987	0.6	0.1	0.7	1.3	8.6	0.2	0.5	0.5	4.4	14.3	9.0	25.4	20.6	46.0
1988	0.5	0.1	0.6	1.5	10.4	0.9	0.6	0.5	11.8	24.3	9.4	35.7	21.2	56.9
1989	0.3	0.1	0.4	1.7	9.4	0.5	0.6	0.6	12.0	23.2	9.6	34.9	21.6	56.5
1990	0.5	0.1	0.6	1.7	9.8	0.4	0.6	0.5	13.6	24.9	9.7	36.9	21.2	58.2
1991	(s)	0.1	0.1	1.9	8.4	0.7	0.6	0.3	15.5	25.5	9.7	37.2	21.2	58.4
1992	0.4	0.1	0.5	2.2	10.0	0.4	0.5	0.3	7.9	19.0	9.9	31.7	21.1	52.8
1993	0.3	0.1	0.4	2.3	13.2	1.0	0.6	0.1	4.6	19.5	10.4	32.6	21.9	54.5
1994	0.0	0.1	0.1	2.4	13.4	0.9	0.6	0.1	4.9	19.8	10.1	32.3	21.1	53.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Maine

Year	Coal	Natural Gas [a]	Petroleum: Asphalt and Road Oil [b]	Petroleum: Distillate Fuel [b]	Petroleum: Kerosene [b]	Petroleum: LPG [b]	Petroleum: Lubricants [b]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [b]	Petroleum: Other [b,c]	Petroleum: Total	Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	562	0	729	402	103	38	42	166	2,639	10	4,130	906	0	0	1,246	–	3,100	–
1965	191	0	745	500	280	100	54	145	1,270	25	3,117	697	0	0	1,715	–	4,094	–
1970	48	(s)	701	605	54	182	55	137	5,128	72	7,134	940	0	0	2,370	–	5,743	–
1971	57	(s)	797	830	56	190	63	110	11,564	0	13,610	812	0	0	2,376	–	5,744	–
1972	27	(s)	774	808	58	247	68	97	11,592	0	13,643	887	0	0	2,525	–	6,077	–
1973	29	1	1,003	803	42	243	71	86	10,734	0	12,982	956	0	0	2,612	–	6,254	–
1974	54	1	926	732	40	200	68	87	8,980	0	11,033	870	0	0	2,767	–	6,746	–
1975	32	1	696	682	59	250	59	79	5,848	0	7,674	832	0	0	2,477	–	5,976	–
1976	26	1	838	768	67	257	65	65	9,402	0	11,463	1,013	0	0	2,652	–	6,389	–
1977	4	1	704	814	69	258	65	68	9,771	0	11,749	1,048	0	0	2,961	–	7,151	–
1978	16	1	635	699	63	257	69	61	7,945	0	9,730	940	0	0	3,164	–	7,741	–
1979	21	1	339	755	36	614	72	72	6,989	0	8,877	1,014	0	0	3,335	–	8,048	–
1980	99	1	435	762	29	400	65	76	4,047	0	5,812	974	0	0	3,470	–	8,438	–
1981	92	1	478	745	12	304	62	40	5,260	0	6,901	974	0	0	3,419	–	8,149	–
1982	229	1	466	915	22	350	56	59	11,027	0	12,897	974	0	0	3,714	–	8,920	–
1983	197	1	585	636	19	263	59	41	4,206	0	5,809	974	0	0	4,302	–	10,307	–
1984	150	1	1,114	652	11	312	63	91	5,742	0	7,985	974	0	0	3,978	–	9,259	–
1985	157	1	2,185	456	34	249	59	124	3,407	0	6,514	974	0	0	4,067	–	9,555	–
1986	312	1	734	555	19	416	57	131	6,920	0	8,831	974	0	0	4,135	–	9,512	–
1987	224	1	852	918	39	340	65	137	4,175	0	6,526	974	0	0	4,351	–	9,942	–
1988	239	1	1,586	1,236	55	514	63	132	4,976	0	8,562	974	0	0	4,616	–	10,436	–
1989	246	1	1,000	1,077	49	456	64	140	4,751	0	7,536	974	0	0	4,599	–	10,314	–
1990	222	2	645	708	27	358	66	93	4,856	0	6,754	R[f] NA	[f] NA	[f] NA	4,750	–	R 10,380	–
1991	361	2	988	778	26	353	59	100	5,330	R 145	R 7,780	R NA	NA	NA	4,709	–	R 10,238	–
1992	820	2	1,064	752	14	316	60	102	6,021	R 151	R 8,480	R NA	NA	NA	4,753	–	R 10,147	–
1993	423	2	1,083	1,258	52	235	61	146	6,952	R 153	R 9,942	R NA	NA	NA	5,040	–	R 10,643	–
1994	458	2	480	1,415	72	202	64	163	9,202	158	11,758	NA	NA	NA	4,952	–	10,327	–
			Trillion Btu															
1960	14.5	0.0	4.8	2.3	0.6	0.2	0.3	0.9	16.6	0.1	25.7	9.7	0.0	0.0	4.3	54.2	10.6	64.8
1965	4.9	0.0	4.9	2.9	1.6	0.4	0.3	0.8	8.0	0.1	19.0	7.3	0.0	0.0	5.9	37.1	14.0	51.0
1970	1.2	0.4	4.7	4.7	0.3	0.7	0.3	0.7	32.2	0.4	44.0	9.9	0.0	0.0	8.1	63.5	19.6	83.1
1971	1.4	0.4	5.3	4.8	0.3	0.7	0.4	0.6	72.7	0.0	84.8	8.5	0.0	0.0	8.1	103.2	19.6	122.8
1972	0.6	0.5	5.1	4.7	0.3	0.9	0.4	0.5	72.9	0.0	84.9	9.2	0.0	0.0	8.6	103.8	20.7	124.5
1973	0.7	0.6	6.7	4.7	0.2	0.9	0.4	0.5	67.5	0.0	80.8	9.9	0.0	0.0	8.9	101.0	21.3	122.3
1974	1.3	0.6	6.1	4.3	0.2	0.7	0.4	0.5	56.5	0.0	68.7	9.1	0.0	0.0	9.4	89.1	23.0	112.1
1975	0.8	0.7	4.6	4.0	0.3	0.9	0.4	0.4	36.8	0.0	47.4	8.7	0.0	0.0	8.5	66.0	20.4	86.4
1976	0.6	0.8	5.6	4.5	0.4	1.0	0.4	0.3	59.1	0.0	71.2	10.5	0.0	0.0	9.0	92.2	21.8	114.0
1977	0.1	0.8	4.7	4.7	0.4	0.9	0.4	0.4	61.4	0.0	72.9	10.9	0.0	0.0	10.1	94.8	24.4	119.2
1978	0.4	0.8	4.2	4.1	0.4	0.9	0.4	0.3	50.0	0.0	60.3	9.7	0.0	0.0	10.8	82.0	26.4	108.4
1979	0.5	0.8	2.2	4.4	0.2	2.3	0.4	0.4	43.9	0.0	53.9	10.5	0.0	0.0	11.4	77.0	27.5	104.5
1980	2.4	0.8	2.9	4.4	0.2	1.5	0.4	0.4	25.4	0.0	35.2	10.1	0.0	0.0	11.8	60.3	28.8	89.1
1981	2.2	0.7	3.2	4.3	0.1	1.1	0.4	0.2	33.1	0.0	42.3	10.2	0.0	0.0	11.7	67.1	27.8	94.9
1982	5.6	0.9	3.1	5.3	0.1	1.3	0.3	0.3	69.3	0.0	79.8	10.2	0.0	0.0	12.7	109.1	30.4	139.6
1983	4.9	0.8	3.9	3.7	0.1	0.9	0.4	0.2	26.4	0.0	35.7	10.2	0.0	0.0	14.7	66.2	35.2	101.4
1984	3.7	0.8	7.4	3.8	0.1	1.1	0.4	0.5	36.1	0.0	49.3	10.2	0.0	0.0	13.6	77.6	31.6	109.2
1985	3.9	0.9	14.5	2.7	0.2	0.9	0.4	0.7	21.4	0.0	40.7	10.2	0.0	0.0	13.9	69.5	32.6	102.1
1986	7.7	0.7	4.9	3.2	0.1	1.5	0.3	0.7	43.5	0.0	54.3	10.2	0.0	0.0	14.1	87.0	32.5	119.5
1987	5.6	0.9	5.7	5.3	0.2	1.2	0.4	0.7	26.3	0.0	39.8	10.1	0.0	0.0	14.8	71.3	33.9	105.2
1988	5.9	1.2	10.5	7.2	0.3	1.9	0.4	0.7	31.3	0.0	52.3	10.1	0.0	0.0	15.7	85.2	35.6	120.8
1989	6.1	1.4	6.6	6.3	0.3	1.7	0.4	0.7	29.9	0.0	45.9	10.0	0.0	0.0	15.7	79.1	35.2	114.3
1990	5.5	2.0	4.3	4.1	0.2	1.3	0.4	0.5	30.5	0.0	41.3	R[f] 15.8	[f] 133.6	[f] 0.0	16.2	R[f] 214.4	35.4	R[f] 249.8
1991	9.0	2.2	6.6	4.5	0.1	1.3	0.4	0.5	33.5	R 0.8	R 47.7	R 16.0	133.3	0.0	16.1	R 224.2	34.9	R 259.2
1992	20.6	2.1	7.1	4.4	0.1	1.1	0.4	0.5	37.9	R 0.8	R 52.2	R 18.7	140.1	0.0	16.2	R 249.8	34.6	R 284.5
1993	10.6	1.8	7.2	7.3	0.3	0.8	0.4	0.8	43.7	R 0.8	R 61.3	R 17.3	143.1	0.0	17.2	R 251.3	36.3	R 287.6
1994	11.4	1.8	3.2	8.2	0.4	0.7	0.4	0.9	57.9	0.9	72.5	19.1	142.9	0.0	16.9	264.7	35.2	299.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Maine

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	10	0	57	1,251	1,904	1	133	8,183	776	12,305	0	0	–	0	–
1965	1	0	89	1,199	1,812	2	116	8,952	625	12,794	0	0	–	0	–
1970	(s)	0	93	1,385	2,300	3	114	10,848	1,415	16,158	0	0	–	0	–
1971	(s)	0	89	1,499	2,472	3	116	11,348	1,625	17,152	0	0	–	0	–
1972	(s)	0	92	1,648	2,357	4	124	11,967	3,414	19,606	0	0	–	0	–
1973	(s)	0	87	1,659	2,417	5	121	12,377	3,510	20,176	0	0	–	0	–
1974	(s)	0	80	1,584	2,150	5	116	12,271	1,614	17,820	0	0	–	0	–
1975	(s)	0	71	1,524	1,988	3	108	12,526	934	17,155	0	0	–	0	–
1976	(s)	0	63	1,817	1,941	4	120	13,183	909	18,038	0	0	–	0	–
1977	(s)	0	66	1,920	2,316	5	132	13,378	538	18,355	0	0	–	0	–
1978	0	0	64	1,974	2,344	8	141	13,562	311	18,405	0	0	–	0	–
1979	0	0	72	1,825	2,211	7	148	12,323	753	17,339	0	0	–	0	–
1980	0	(s)	82	1,593	1,875	9	132	11,644	209	15,544	0	0	–	0	–
1981	0	(s)	47	1,500	1,547	4	126	11,476	634	15,336	0	0	–	0	–
1982	0	(s)	37	1,835	1,595	12	115	11,693	638	15,925	0	0	–	0	–
1983	0	(s)	45	2,011	1,505	15	121	11,949	17	15,663	0	0	–	0	–
1984	0	(s)	43	2,936	1,520	21	129	12,075	18	16,742	0	0	–	0	–
1985	0	(s)	41	3,247	1,639	15	120	12,317	21	17,400	0	0	–	0	–
1986	0	(s)	58	3,662	1,615	23	117	13,201	72	18,748	0	0	–	0	–
1987	0	(s)	53	4,063	1,813	15	133	13,843	53	19,972	0	0	–	0	–
1988	0	(s)	66	4,670	2,103	30	128	15,152	418	22,567	0	0	–	0	–
1989	0	(s)	68	3,848	2,249	30	131	13,932	199	20,458	0	0	–	0	–
1990	0	(s)	62	4,539	2,528	17	135	13,851	149	21,282	[e]0	0	–	0	–
1991	0	(s)	42	2,965	2,374	17	121	13,967	116	19,602	0	0	–	0	–
1992	0	(s)	41	3,126	1,904	15	123	13,974	156	19,340	0	0	–	0	–
1993	0	(s)	37	3,510	1,488	13	125	14,229	285	19,686	0	0	–	0	–
1994	0	(s)	35	4,213	992	22	131	14,342	236	19,972	0	0	–	0	–
			Trillion Btu												
1960	0.3	0.0	0.3	7.3	10.2	(s)	0.8	43.0	4.9	66.4	0.0	0.0	66.7	0.0	66.7
1965	(s)	0.0	0.4	7.0	9.7	(s)	0.7	47.0	3.9	68.8	0.0	0.0	68.8	0.0	68.8
1970	(s)	0.0	0.5	8.1	12.5	(s)	0.7	57.0	8.9	87.6	0.0	0.0	87.6	0.0	87.6
1971	(s)	0.0	0.5	8.7	13.5	(s)	0.7	59.6	10.2	93.2	0.0	0.0	93.2	0.0	93.2
1972	(s)	0.0	0.5	9.6	12.8	(s)	0.8	62.9	21.5	108.0	0.0	0.0	108.0	0.0	108.0
1973	(s)	0.0	0.4	9.7	13.2	(s)	0.7	65.0	22.1	111.2	0.0	0.0	111.2	0.0	111.2
1974	(s)	0.0	0.4	9.2	11.7	(s)	0.7	64.5	10.1	96.7	0.0	0.0	96.7	0.0	96.7
1975	(s)	0.0	0.4	8.9	10.8	(s)	0.7	65.8	5.9	92.4	0.0	0.0	92.4	0.0	92.4
1976	(s)	0.0	0.3	10.6	10.6	(s)	0.7	69.3	5.7	97.2	0.0	0.0	97.2	0.0	97.2
1977	(s)	0.0	0.3	11.2	12.7	(s)	0.8	70.3	3.4	98.7	0.0	0.0	98.7	0.0	98.7
1978	0.0	0.0	0.3	11.5	12.9	(s)	0.9	71.2	2.0	98.8	0.0	0.0	98.8	0.0	98.8
1979	0.0	0.0	0.4	10.6	12.2	(s)	0.9	64.7	4.7	93.6	0.0	0.0	93.6	0.0	93.6
1980	0.0	0.1	0.4	9.3	10.2	(s)	0.8	61.2	1.3	83.2	0.0	0.0	83.3	0.0	83.3
1981	0.0	(s)	0.2	8.7	8.4	(s)	0.8	60.3	4.0	82.5	0.0	0.0	82.5	0.0	82.5
1982	0.0	0.1	0.2	10.7	8.7	(s)	0.7	61.4	4.0	85.7	0.0	0.0	85.8	0.0	85.8
1983	0.0	(s)	0.2	11.7	8.2	0.1	0.7	62.8	0.1	83.8	0.0	0.0	83.8	0.0	83.8
1984	0.0	(s)	0.2	17.1	8.3	0.1	0.8	63.4	0.1	90.0	0.0	0.0	90.0	0.0	90.0
1985	0.0	(s)	0.2	18.9	8.9	0.1	0.7	64.7	0.1	93.7	0.0	0.0	93.7	0.0	93.7
1986	0.0	(s)	0.3	21.3	8.8	0.1	0.7	69.3	0.5	101.0	0.0	0.0	101.0	0.0	101.0
1987	0.0	(s)	0.3	23.7	9.9	0.1	0.8	72.7	0.3	107.7	0.0	0.0	107.7	0.0	107.7
1988	0.0	(s)	0.3	27.2	11.6	0.1	0.8	79.6	2.6	122.2	0.0	0.0	122.2	0.0	122.2
1989	0.0	(s)	0.3	22.4	12.4	0.1	0.8	73.2	1.3	110.5	0.0	0.0	110.5	0.0	110.5
1990	0.0	(s)	0.3	26.4	14.0	0.1	0.8	72.8	0.9	115.3	[e]0.0	0.0	[e]115.4	0.0	[e]115.4
1991	0.0	(s)	0.2	17.3	13.2	0.1	0.7	73.4	0.7	105.5	0.0	0.0	105.5	0.0	105.5
1992	0.0	(s)	0.2	18.2	10.5	0.1	0.7	73.4	1.0	104.2	0.0	0.0	104.2	0.0	104.2
1993	0.0	(s)	0.2	20.4	8.3	(s)	0.8	74.7	1.8	106.2	0.0	0.0	106.2	0.0	106.2
1994	0.0	(s)	0.2	24.5	5.6	0.1	0.8	75.3	1.5	108.0	0.0	0.0	108.0	0.0	108.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Maine

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	0	0	0	0	4,373	89	0	4,462	0	1,593	0	0	0	–
1970	0	0	0	0	4,770	95	0	4,865	0	2,429	0	0	0	–
1971	0	0	0	0	4,890	217	0	5,108	0	2,881	0	0	0	–
1972	0	0	0	0	5,435	258	0	5,693	54	3,649	0	0	0	–
1973	0	0	0	0	4,874	142	0	5,016	3,351	4,939	0	0	0	–
1974	0	0	0	0	3,993	88	0	4,081	3,574	4,480	0	0	0	–
1975	0	0	0	0	2,812	42	0	2,854	4,502	3,268	0	0	0	–
1976	0	0	0	0	1,856	39	0	1,894	5,929	4,425	0	0	0	–
1977	0	0	0	0	1,305	27	0	1,332	5,143	5,447	0	0	0	–
1978	0	0	0	0	1,742	27	0	1,769	5,354	4,035	0	0	0	–
1979	0	0	0	0	2,230	38	0	2,268	4,497	4,995	0	0	0	–
1980	0	0	0	0	3,620	61	0	3,680	4,404	5,203	0	0	0	–
1981	0	0	0	0	3,724	40	0	3,764	5,212	4,890	0	0	0	–
1982	0	0	0	0	3,142	56	0	3,198	4,524	4,921	0	0	0	–
1983	0	0	0	0	3,454	62	0	3,516	5,730	7,039	0	0	0	–
1984	0	0	0	0	3,556	43	0	3,599	5,123	7,692	0	0	0	–
1985	0	0	0	0	3,432	28	0	3,461	5,354	2,405	0	0	0	–
1986	0	0	0	0	4,359	33	0	4,392	6,242	4,608	0	0	0	–
1987	0	0	0	0	4,317	35	0	4,351	4,043	5,448	0	0	0	–
1988	0	0	0	0	4,855	51	0	4,906	5,017	4,956	0	0	0	–
1989	0	0	0	0	5,023	46	0	5,069	6,942	3,762	0	0	0	–
1990	0	0	0	0	3,537	19	0	3,557	4,861	R4,259	0	0	0	–
1991	0	0	0	0	2,286	22	0	2,307	6,264	R3,948	0	0	0	–
1992	0	0	0	0	2,213	24	0	2,237	5,358	R3,636	0	0	0	–
1993	0	0	0	0	1,377	16	0	1,392	5,740	R3,661	0	0	0	–
1994	0	0	0	0	1,275	18	0	1,294	6,632	3,831	0	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	0.0	34.8
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	0.0	44.7
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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	158.6
1984	0.0	0.0	0.0	0.0	22.4	0.2	0.0	22.6	55.6	80.3	0.0	0.0	0.0	158.5
1985	0.0	0.0	0.0	0.0	21.6	0.2	0.0	21.7	57.9	25.1	0.0	0.0	0.0	104.8
1986	0.0	0.0	0.0	0.0	27.4	0.2	0.0	27.6	67.4	48.1	0.0	0.0	0.0	143.1
1987	0.0	0.0	0.0	0.0	27.1	0.2	0.0	27.3	43.6	56.8	0.0	0.0	0.0	127.7
1988	0.0	0.0	0.0	0.0	30.5	0.3	0.0	30.8	53.9	51.2	0.0	0.0	0.0	135.9
1989	0.0	0.0	0.0	0.0	31.6	0.3	0.0	31.8	74.4	38.8	0.0	0.0	0.0	145.1
1990	0.0	0.0	0.0	0.0	22.2	0.1	0.0	22.4	51.9	R44.0	0.0	0.0	0.0	120.2
1991	0.0	0.0	0.0	0.0	14.4	0.1	0.0	14.5	67.3	R40.9	0.0	0.0	0.0	124.1
1992	0.0	0.0	0.0	0.0	13.9	0.1	0.0	14.1	57.2	R37.5	0.0	0.0	0.0	110.8
1993	0.0	0.0	0.0	0.0	8.7	0.1	0.0	8.7	61.3	R37.6	0.0	0.0	0.0	108.3
1994	0.0	0.0	0.0	0.0	8.0	0.1	0.0	8.1	70.8	39.4	0.0	0.0	0.0	128.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Maryland

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	978	61,844	0	1,358	0	0	1,813	–
1965	12,372	99	3,289	474	16,967	2,856	2,371	1,473	627	27,510	15,510	1,697	72,774	0	1,141	0	0	-5,190	–
1970	12,216	156	2,798	309	19,817	4,477	2,331	1,841	624	37,159	22,046	2,895	94,297	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	1,713	102,955	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	1,868	113,536	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	1,701	120,903	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	1,633	116,952	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	2,166	104,680	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	2,666	107,304	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	2,764	109,341	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	2,751	110,870	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	2,650	106,164	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	2,504	95,181	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	2,717	89,140	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	2,277	84,997	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	2,163	87,377	11,676	1,765	0	0	23,249	–
1984	10,595	159	5,016	67	18,657	3,658	409	2,405	707	45,428	11,479	2,811	90,638	11,651	2,022	41	0	17,974	–
1985	10,012	151	4,520	76	17,717	3,901	1,247	1,805	659	45,621	7,916	2,640	86,101	9,926	1,524	16	0	31,970	–
1986	10,750	153	5,211	101	17,385	3,889	936	1,428	644	46,915	7,282	R3,552	R87,344	12,828	1,876	38	0	23,020	–
1987	11,311	169	4,823	87	18,077	3,771	1,209	1,741	729	48,104	9,077	R4,432	R92,049	10,070	1,612	51	0	36,495	–
1988	11,757	173	4,350	94	18,551	4,481	1,526	1,695	703	49,190	10,417	R4,288	R95,294	11,734	1,328	57	0	32,515	–
1989	11,541	190	4,500	83	20,581	4,384	1,006	2,135	721	49,100	15,112	R3,486	R101,109	2,719	1,778	14	0	51,036	–
1990	11,193	172	5,008	74	17,003	3,637	466	1,965	742	47,142	9,881	R4,027	R89,945	1,251	R NA	NA	NA	R62,262	–
1991	10,709	173	3,703	75	17,313	3,293	476	2,018	663	48,433	9,368	R3,814	R89,158	9,036	R NA	NA	NA	R45,849	–
1992	9,713	181	3,509	96	18,355	3,061	378	2,635	676	49,055	7,836	R4,559	R90,161	10,664	R NA	NA	NA	R40,830	–
1993	10,268	181	4,684	102	19,724	3,000	621	2,479	689	49,587	9,703	R4,025	R94,614	12,301	R NA	NA	NA	R36,417	–
1994	10,491	184	4,363	71	19,463	3,229	672	2,835	720	50,717	9,039	4,133	95,240	11,235	NA	NA	NA	36,897	–
			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	5.7	353.4	0.0	14.6	0.0	0.0	6.2	674.1
1965	327.4	101.0	21.8	2.4	98.8	15.7	13.4	5.9	3.8	144.5	97.5	9.4	413.4	0.0	11.9	0.0	0.0	-17.7	836.0
1970	311.3	159.6	18.6	1.6	115.4	25.0	13.2	7.0	3.8	195.2	138.6	16.2	534.4	0.0	20.0	0.0	0.0	16.7	1,042.1
1971	274.0	164.7	19.6	1.5	116.5	22.8	14.6	7.3	3.7	204.4	187.7	9.7	587.9	0.0	18.6	0.0	0.0	29.3	1,074.4
1972	226.4	180.3	20.5	1.3	124.4	21.4	10.2	8.6	4.0	217.6	232.3	10.6	650.9	0.0	23.7	0.0	0.0	10.2	1,091.5
1973	256.8	177.6	25.5	1.3	133.5	20.4	6.1	9.4	3.7	225.2	260.5	9.5	695.3	0.0	22.5	0.0	0.0	31.9	1,184.0
1974	217.5	175.5	25.2	1.4	130.9	18.0	6.7	8.8	3.6	222.6	245.4	9.1	671.7	0.0	20.6	0.0	0.0	7.8	1,093.1
1975	197.2	141.9	21.5	1.0	122.5	16.9	6.8	8.9	4.6	229.5	169.4	12.4	593.6	48.3	24.0	0.0	0.0	33.8	1,038.8
1976	245.3	149.6	22.5	1.0	117.7	17.4	5.8	10.2	5.1	239.2	173.3	15.1	607.3	70.9	21.7	0.0	0.0	20.2	1,115.0
1977	189.7	135.2	23.1	1.0	126.2	18.9	5.6	10.3	4.4	246.5	165.8	15.7	617.7	117.2	21.1	0.0	0.0	13.1	1,093.9
1978	209.7	139.6	25.8	0.9	123.6	18.4	5.0	9.4	4.7	251.5	172.6	15.5	627.4	108.3	18.0	0.0	0.0	13.1	1,116.1
1979	240.7	179.6	23.4	0.7	138.5	18.0	8.3	7.5	4.9	233.7	151.1	14.9	601.0	105.2	22.7	0.0	0.0	29.4	1,178.7
1980	235.7	163.4	17.5	0.9	127.6	19.5	6.6	7.6	4.4	231.1	103.6	14.1	533.0	119.4	13.2	0.0	0.0	63.1	1,127.8
1981	210.4	177.7	20.0	0.6	108.4	19.7	5.0	7.3	4.2	233.3	82.6	15.4	496.6	127.1	14.9	0.0	0.0	89.2	1,115.8
1982	217.3	160.8	20.7	0.4	95.0	19.9	4.6	7.4	3.8	232.1	75.2	12.9	472.0	114.6	14.0	0.0	0.0	91.3	1,070.0
1983	232.6	148.7	28.6	0.4	107.6	21.1	3.7	7.4	4.0	232.5	68.8	12.1	486.1	127.3	18.6	0.0	0.0	79.3	1,092.6
1984	270.2	163.1	33.3	0.3	108.7	20.3	2.3	8.7	4.3	238.6	72.2	15.7	504.4	126.3	21.1	0.4	0.0	61.3	1,146.9
1985	256.2	156.0	30.0	0.4	103.2	21.7	7.1	6.5	4.0	239.6	49.8	14.9	477.1	107.3	15.9	0.2	0.0	109.1	1,121.8
1986	275.0	158.0	34.6	0.5	101.3	21.6	5.3	5.2	3.9	246.4	45.8	R19.9	R484.6	138.5	19.6	0.4	0.0	78.5	R1,154.7
1987	288.9	174.3	32.0	0.4	105.3	21.0	6.9	6.4	4.4	252.7	57.1	R25.1	R511.2	108.5	16.8	0.5	0.0	124.5	R1,224.7
1988	301.2	178.4	28.9	0.5	108.1	25.0	8.7	6.2	4.3	258.4	65.5	R24.4	R529.8	126.1	13.7	0.6	0.0	110.9	R1,260.7
1989	295.1	195.8	29.9	0.4	119.9	24.5	5.7	7.9	4.4	257.9	95.0	R19.6	R565.1	29.2	18.3	0.1	0.0	174.1	R1,277.7
1990	286.4	177.1	33.2	0.4	99.0	20.3	2.6	7.1	4.5	247.6	62.1	R22.8	R499.8	13.4	I23.8	I28.7	I(s)	R212.4	RI1,241.5
1991	274.8	177.8	24.6	0.4	100.9	18.4	2.7	7.3	4.0	254.4	58.9	R21.5	R493.0	97.0	14.6	29.2	(s)	R156.4	R1,242.8
1992	247.5	186.4	23.3	0.5	106.9	17.1	2.1	9.6	4.1	257.7	49.3	R25.8	R496.4	113.9	18.8	30.7	(s)	R139.3	R1,232.9
1993	261.7	185.7	31.1	0.5	114.9	16.8	3.5	8.9	4.2	260.5	61.0	R22.6	R524.0	131.4	17.0	31.5	(s)	R124.3	R1,275.6
1994	268.9	189.4	28.9	0.4	113.4	18.2	3.8	10.3	4.4	266.4	56.8	23.3	526.0	119.9	20.6	32.2	(s)	125.9	1,283.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Maryland

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	78	37	116	46	6,053	2,234	617	8,903	0	0	2,772	–	6,895	–
1965	68	23	91	57	7,191	2,177	893	10,261	0	0	4,384	–	10,466	–
1970	20	14	35	73	8,234	2,166	1,007	11,407	0	0	7,690	–	18,635	–
1971	15	14	29	74	7,983	2,422	1,023	11,428	0	0	8,108	–	19,601	–
1972	10	10	20	75	8,353	1,651	1,163	11,167	0	0	8,580	–	20,652	–
1973	12	10	22	73	8,649	984	1,263	10,896	0	0	9,668	–	23,146	–
1974	14	9	23	70	8,152	1,006	1,179	10,338	0	0	9,410	–	22,945	–
1975	7	8	15	69	8,453	1,014	1,242	10,708	0	0	9,660	–	23,300	–
1976	5	7	13	73	8,218	944	1,358	10,519	0	0	10,117	–	24,370	–
1977	12	7	19	65	8,609	618	1,320	10,547	0	0	10,804	–	26,089	–
1978	8	6	14	70	8,433	506	1,238	10,177	0	0	11,168	–	27,323	–
1979	65	4	70	70	9,335	1,082	193	10,610	0	0	11,206	–	27,044	–
1980	10	5	15	68	8,797	830	740	10,367	0	0	12,119	–	29,469	–
1981	7	11	19	70	6,789	614	912	8,315	0	0	12,309	–	29,335	–
1982	32	7	38	68	6,166	664	794	7,624	0	0	12,472	–	29,955	–
1983	33	4	36	65	6,064	548	944	7,556	0	0	13,490	–	32,319	–
1984	26	4	30	73	6,218	364	1,041	7,623	0	0	13,974	–	32,526	–
1985	40	4	44	68	5,023	1,113	987	7,123	0	0	14,319	–	33,642	–
1986	42	4	46	72	4,818	828	758	6,404	0	0	15,819	–	36,388	–
1987	59	4	64	71	5,521	1,136	949	7,605	0	0	17,218	–	39,342	–
1988	40	5	45	75	5,921	1,316	897	8,134	0	0	18,483	–	41,787	–
1989	18	2	20	75	5,139	813	1,101	7,053	0	0	19,069	–	42,766	–
1990	16	2	18	66	4,284	385	1,088	5,757	[e] 518	[e] 11	19,102	–	R 41,741	–
1991	14	2	16	69	4,181	396	1,215	5,792	546	11	20,295	–	R 44,126	–
1992	4	1	5	75	4,458	316	1,365	6,139	575	12	19,762	–	R 42,188	–
1993	4	3	6	77	5,230	509	1,404	7,143	620	13	R 21,546	–	R 45,504	–
1994	11	3	14	77	4,985	393	1,431	6,809	607	13	21,666	–	45,184	–
									Trillion Btu					
1960	2.0	0.9	2.9	47.5	35.3	12.7	2.5	50.4	0.0	0.0	9.5	110.2	23.5	133.8
1965	1.7	0.6	2.3	58.1	41.9	12.3	3.6	57.8	0.0	0.0	15.0	133.1	35.7	168.8
1970	0.5	0.3	0.8	74.5	48.0	12.3	3.8	64.0	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	46.0	154.8	110.3	265.1
1984	0.6	0.1	0.7	74.9	36.2	2.1	3.7	42.0	0.0	0.0	47.7	165.4	111.0	276.3
1985	1.0	0.1	1.1	70.7	29.3	6.3	3.6	39.1	0.0	0.0	48.9	159.8	114.8	274.6
1986	1.0	0.1	1.1	74.5	28.1	4.7	2.8	35.5	0.0	0.0	54.0	165.1	124.2	289.2
1987	1.5	0.1	1.6	73.0	32.2	6.4	3.5	42.1	0.0	0.0	58.7	175.4	134.2	309.7
1988	1.0	0.1	1.1	77.3	34.5	7.5	3.3	45.2	0.0	0.0	63.1	186.7	142.6	329.3
1989	0.4	(s)	0.5	77.4	29.9	4.6	4.1	38.6	0.0	0.0	65.1	181.6	145.9	327.5
1990	0.4	0.1	0.4	68.2	25.0	2.2	3.9	31.1	[e] 10.4	[e] (s)	65.2	R [e] 175.3	142.4	R [e] 317.7
1991	0.3	(s)	0.4	71.0	24.4	2.2	4.4	31.0	10.9	(s)	69.2	R 182.6	R 150.6	R 333.1
1992	0.1	(s)	0.1	77.1	26.0	1.8	4.9	32.7	11.5	(s)	67.4	R 188.9	143.9	R 332.9
1993	0.1	0.1	0.2	79.0	30.5	2.9	5.1	38.4	12.4	(s)	73.5	R 203.5	R 155.3	R 358.8
1994	0.3	0.1	0.3	79.0	29.0	2.2	5.2	36.5	12.1	(s)	73.9	201.9	154.2	356.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Maryland

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	126	16	142	13	2,800	70	158	90	1,920	5,039	3,937	–	9,401	–
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	184	151	765	3,980	9,463	–	22,026	–
1985	74	3	77	24	1,942	89	174	170	252	2,628	9,627	–	22,618	–
1986	78	2	80	24	1,541	49	134	174	867	2,766	10,265	–	23,612	–
1987	110	3	113	26	1,935	23	167	180	1,829	4,134	10,875	–	24,849	–
1988	74	4	78	26	1,862	63	158	170	719	2,972	11,549	–	26,111	–
1989	33	1	34	27	2,004	89	194	197	1,293	3,777	10,656	–	23,898	–
1990	29	1	30	24	2,095	48	192	230	556	3,120	11,035	–	R 24,113	–
1991	25	1	26	38	2,297	52	214	118	133	2,816	11,274	–	R 24,511	–
1992	7	1	8	42	2,575	42	241	103	478	3,439	11,370	–	R 24,273	–
1993	7	2	9	44	2,689	85	248	31	193	3,246	R 12,028	–	R 25,403	–
1994	20	2	22	44	3,063	213	253	31	217	3,776	13,941	–	29,074	–
	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
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
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	4.8	23.0	32.3	82.5	75.2	157.7
1985	1.8	0.1	1.9	25.0	11.3	0.5	0.6	0.9	1.6	14.9	32.8	74.6	77.2	151.8
1986	1.9	0.1	2.0	24.7	9.0	0.3	0.5	0.9	5.5	16.1	35.0	77.8	80.6	158.4
1987	2.7	0.1	2.8	26.4	11.3	0.1	0.6	0.9	11.5	24.5	37.1	90.8	84.8	175.6
1988	1.8	0.1	1.9	26.7	10.8	0.4	0.6	0.9	4.5	17.2	39.4	85.2	89.1	174.3
1989	0.8	(s)	0.9	27.7	11.7	0.5	0.7	1.0	8.1	22.1	36.4	87.0	81.5	168.6
1990	0.7	(s)	0.8	24.7	12.2	0.3	0.7	1.2	3.5	17.9	37.7	81.0	82.3	163.2
1991	0.6	(s)	0.7	39.1	13.4	0.3	0.8	0.6	0.8	15.9	38.5	94.1	83.6	R 177.8
1992	0.2	(s)	0.2	43.6	15.0	0.2	0.9	0.5	3.0	19.7	38.8	102.3	82.8	R 185.1
1993	0.2	(s)	0.2	44.8	15.7	0.5	0.9	0.2	1.2	18.4	R 41.0	R 104.5	86.7	R 191.2
1994	0.5	(s)	0.6	45.5	17.8	1.2	0.9	0.2	1.4	21.5	47.6	115.1	99.2	214.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Maryland

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	5,067	16	1,813	2,093	138	317	247	670	10,333	978	16,589	1	0	0	3,269	–	8,131	–
1965	6,101	28	3,289	3,177	124	412	316	439	8,296	1,697	17,750	1	0	0	5,073	–	12,113	–
1970	6,174	44	2,798	3,248	95	624	325	261	6,672	2,895	16,918	(s)	0	0	8,469	–	20,524	–
1971	5,319	48	2,955	3,436	75	678	295	235	10,997	1,713	20,385	(s)	0	0	9,265	–	22,401	–
1972	4,320	61	3,090	3,879	99	866	316	188	10,292	1,868	20,598	0	0	0	9,426	–	22,690	–
1973	6,018	61	3,844	4,285	68	972	309	186	10,869	1,701	22,234	0	0	0	10,125	–	24,240	–
1974	4,527	57	3,796	3,639	146	921	296	182	7,669	1,633	18,282	0	0	0	9,793	–	23,878	–
1975	3,854	43	3,246	3,434	146	888	456	293	4,983	2,166	15,614	0	0	0	9,069	–	21,875	–
1976	4,496	44	3,385	3,301	48	1,079	507	128	5,848	2,666	16,962	0	0	0	10,803	–	26,022	–
1977	3,041	38	3,479	3,665	351	1,175	414	78	5,501	2,764	17,427	0	0	0	11,827	–	28,558	–
1978	3,445	36	3,895	3,396	361	1,001	444	69	4,240	2,751	16,158	0	0	0	12,234	–	29,930	–
1979	4,021	59	3,520	3,942	355	1,793	465	51	4,738	2,650	17,513	0	0	0	13,103	–	31,622	–
1980	3,367	54	2,638	3,297	318	1,163	414	145	2,669	2,504	13,148	0	0	0	13,057	–	31,750	–
1981	3,139	64	3,014	3,093	249	865	397	148	1,619	2,717	12,102	0	0	0	13,670	–	32,580	–
1982	2,729	56	3,123	2,336	53	1,056	362	110	1,391	2,277	10,708	0	0	0	12,754	–	30,634	–
1983	2,762	46	4,312	2,337	69	882	379	117	2,955	2,163	13,213	0	0	0	13,048	–	31,260	–
1984	3,013	57	5,016	2,396	25	1,096	404	273	4,034	2,811	16,057	0	0	0	14,895	–	34,669	–
1985	2,846	55	4,520	2,547	44	584	377	299	1,022	2,640	12,032	0	0	0	15,312	–	35,974	–
1986	2,664	53	5,211	2,087	58	501	368	322	949	R3,552	R13,049	0	0	0	15,808	–	36,362	–
1987	2,906	58	4,823	1,663	50	593	417	332	803	R4,432	R13,113	0	0	0	16,745	–	38,262	–
1988	2,614	64	4,350	1,718	146	583	402	353	1,060	R4,288	R12,899	0	0	0	17,446	–	39,441	–
1989	2,414	66	4,500	2,105	104	782	412	343	985	R3,486	R12,718	0	0	0	19,456	–	43,633	–
1990	2,200	62	5,008	1,733	33	632	424	295	1,241	R4,027	R13,394	Rf NA	f NA	f NA	19,308	–	R42,192	–
1991	2,034	47	3,703	1,556	28	547	379	285	777	R3,814	R11,089	R NA	NA	NA	19,448	–	R42,284	–
1992	706	50	3,509	1,408	19	928	387	275	1,073	R4,559	R12,159	R NA	NA	NA	19,768	–	R42,201	–
1993	732	49	4,684	1,787	27	713	394	290	1,244	R4,025	R13,164	R NA	NA	NA	R20,201	–	R42,662	–
1994	738	48	4,363	1,697	66	1,055	412	294	1,252	4,133	13,271	NA	NA	NA	19,037	–	39,702	–
			Trillion Btu															
1960	135.0	16.6	12.0	12.2	0.8	1.3	1.5	3.5	65.0	5.7	102.0	(s)	0.0	0.0	11.2	264.7	27.7	292.4
1965	162.4	28.3	21.8	18.5	0.7	1.7	1.9	2.3	52.2	9.4	108.5	(s)	0.0	0.0	17.3	316.5	41.3	357.8
1970	162.7	44.9	18.6	18.9	0.5	2.4	2.0	1.4	41.9	16.2	101.8	(s)	0.0	0.0	28.9	338.2	70.0	408.3
1971	140.1	48.8	19.6	20.0	0.4	2.6	1.8	1.2	69.1	9.7	124.5	(s)	0.0	0.0	31.6	345.0	76.4	421.5
1972	113.5	62.1	20.5	22.6	0.6	3.3	1.9	1.0	64.7	10.6	125.1	0.0	0.0	0.0	32.2	332.8	77.4	410.2
1973	158.4	61.8	25.5	25.0	0.4	3.6	1.9	1.0	68.3	9.5	135.2	0.0	0.0	0.0	34.5	389.9	82.7	472.7
1974	119.0	58.7	25.2	21.2	0.8	3.4	1.8	1.0	48.2	9.1	110.7	0.0	0.0	0.0	33.4	321.9	81.5	403.4
1975	102.2	43.6	21.5	20.0	0.8	3.3	2.8	1.5	31.3	12.4	93.7	0.0	0.0	0.0	30.9	270.4	74.6	345.1
1976	119.9	44.1	22.5	19.2	0.3	4.0	3.1	0.7	36.8	15.1	101.5	0.0	0.0	0.0	36.9	302.4	88.8	391.2
1977	80.7	38.5	23.1	21.3	2.0	4.3	2.5	0.4	34.6	15.7	104.0	0.0	0.0	0.0	40.4	263.5	97.4	361.0
1978	90.7	36.8	25.8	19.8	2.0	3.7	2.7	0.4	26.7	15.5	96.6	0.0	0.0	0.0	41.7	265.9	102.1	368.0
1979	106.1	61.3	23.4	23.0	2.0	6.6	2.8	0.3	29.8	14.9	102.7	0.0	0.0	0.0	44.7	314.8	107.9	422.7
1980	88.6	55.5	17.5	19.2	1.8	4.3	2.5	0.8	16.8	14.1	76.9	0.0	0.0	0.0	44.6	265.5	108.3	373.9
1981	82.0	65.3	20.0	18.0	1.4	3.2	2.4	0.8	10.2	15.4	71.4	0.0	0.0	0.0	46.6	265.4	111.2	376.5
1982	71.6	57.2	20.7	13.6	0.3	3.8	2.2	0.6	8.7	12.9	62.9	0.0	0.0	0.0	43.5	235.2	104.5	339.8
1983	72.5	47.2	28.6	13.6	0.4	3.2	2.3	0.6	18.6	12.1	79.3	0.0	0.0	0.0	44.5	243.6	106.7	350.2
1984	78.9	58.8	33.3	14.0	0.1	3.9	2.5	1.4	25.4	15.7	96.3	0.0	0.0	0.0	50.8	284.8	118.3	403.1
1985	74.8	56.5	30.0	14.8	0.2	2.1	2.3	1.6	6.4	14.9	72.4	0.0	0.0	0.0	52.2	255.9	122.7	378.7
1986	69.9	54.4	34.6	12.2	0.3	1.8	2.2	1.7	6.0	R19.9	R78.7	0.0	0.0	0.0	53.9	R257.0	124.1	R381.1
1987	75.9	60.4	32.0	9.7	0.3	2.2	2.5	1.7	5.0	R25.1	R78.6	0.0	0.0	0.0	57.1	R272.0	130.5	R402.6
1988	68.6	66.2	28.9	10.0	0.8	2.1	2.4	1.9	6.7	R24.4	R77.2	0.0	0.0	0.0	59.5	R271.5	134.6	R406.1
1989	63.3	68.3	29.9	12.3	0.6	2.9	2.5	1.8	6.2	R19.6	R75.7	0.0	0.0	0.0	66.4	R273.6	148.9	R422.5
1990	57.4	63.5	33.2	10.1	0.2	2.3	2.6	1.5	7.8	R22.8	R80.5	f0.0	f18.3	f0.0	65.9	Rf285.6	R144.0	Rf429.5
1991	52.8	48.3	24.6	9.1	0.2	2.0	2.3	1.5	4.9	R21.5	R66.0	0.0	18.2	0.0	66.4	R251.7	R144.3	R396.0
1992	17.8	51.1	23.3	8.2	0.1	3.4	2.3	1.4	6.7	R25.8	R71.3	0.0	19.2	0.0	67.4	R226.8	R144.0	R370.8
1993	18.5	50.2	31.1	10.4	0.2	2.6	2.4	1.5	7.8	R22.6	R78.6	0.0	19.1	0.0	68.9	R235.2	R145.6	R380.8
1994	18.8	49.1	28.9	9.9	0.4	3.8	2.5	1.5	7.9	23.3	78.3	0.0	20.0	0.0	65.0	231.1	135.5	366.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Maryland

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	89	1	279	2,352	2,457	9	318	21,810	3,893	31,117	0	20	–	49	–
1965	20	1	474	3,774	2,856	10	310	26,981	5,024	39,429	0	0	–	0	–
1970	10	2	309	4,184	4,477	32	299	36,795	3,931	50,027	0	0	–	0	–
1971	7	2	291	3,917	4,104	41	317	38,573	3,091	50,336	0	0	–	0	–
1972	4	4	266	4,384	3,634	44	340	41,130	3,280	53,078	0	0	–	0	–
1973	4	2	259	5,344	3,506	48	310	42,573	3,685	55,725	0	0	–	0	–
1974	2	2	270	5,236	3,123	51	296	42,076	3,647	54,699	0	0	–	0	–
1975	1	2	205	5,244	2,973	46	307	43,275	2,807	54,856	0	0	–	0	–
1976	(s)	2	200	4,979	3,050	62	341	45,292	3,304	57,227	0	0	–	0	–
1977	(s)	2	204	5,589	3,294	73	310	46,744	3,085	59,300	0	0	–	0	–
1978	0	2	178	5,395	3,250	91	333	47,682	3,269	60,199	0	6	–	14	–
1979	0	2	145	6,271	3,223	30	348	44,307	4,101	58,425	0	13	–	32	–
1980	0	4	173	5,848	3,512	26	310	43,737	4,514	58,121	0	22	–	53	–
1981	0	2	128	6,342	3,524	76	297	44,127	4,745	59,239	0	26	–	62	–
1982	0	2	74	5,291	3,573	49	271	43,946	4,184	57,388	0	25	–	60	–
1983	0	2	72	6,365	3,797	58	284	43,972	1,862	56,411	0	23	–	55	–
1984	0	2	67	6,217	3,658	84	303	45,004	1,871	57,203	0	42	–	99	–
1985	0	2	76	7,375	3,901	60	282	45,152	1,511	58,357	0	69	–	161	–
1986	0	2	101	8,191	3,889	35	276	46,420	1,211	60,123	0	69	–	159	–
1987	0	2	87	8,152	3,771	32	312	47,591	2,082	62,027	0	69	–	158	–
1988	0	3	94	8,193	4,481	56	301	48,667	2,629	64,422	0	85	–	193	–
1989	0	2	83	10,078	4,384	57	309	48,560	2,427	65,898	0	77	–	173	–
1990	0	2	74	8,293	3,637	52	318	46,617	1,850	60,841	[e]0	89	–	194	–
1991	0	3	75	8,727	3,293	42	284	48,030	1,373	61,825	0	90	–	197	–
1992	0	2	96	9,457	3,061	101	290	48,676	1,631	63,312	0	88	–	189	–
1993	0	2	102	9,425	3,000	114	295	49,266	1,291	63,493	0	R97	–	R205	–
1994	0	3	71	8,678	3,229	97	308	50,392	988	63,763	0	107	–	223	–
			Trillion Btu												
1960	2.3	0.9	1.4	13.7	13.5	(s)	1.9	114.6	24.5	169.6	0.0	0.1	172.8	0.2	173.0
1965	0.5	1.2	2.4	22.0	15.7	(s)	1.9	141.7	31.6	215.4	0.0	0.0	217.1	0.0	217.1
1970	0.2	2.1	1.6	24.4	25.0	0.1	1.8	193.3	24.7	270.8	0.0	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	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	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	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	0.0	297.0	0.0	297.0
1975	(s)	2.2	1.0	30.5	16.5	0.2	1.9	227.3	17.6	295.1	0.0	0.0	297.3	0.0	297.3
1976	(s)	2.3	1.0	29.0	17.0	0.2	2.1	237.9	20.8	308.0	0.0	0.0	310.2	0.0	310.2
1977	(s)	2.1	1.0	32.6	18.3	0.3	1.9	245.5	19.4	319.0	0.0	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	0.0	(s)	325.8	(s)	325.8
1979	0.0	2.4	0.7	36.5	17.9	0.1	2.1	232.7	25.8	315.9	0.0	(s)	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	0.0	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	0.0	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	0.0	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	0.0	0.1	305.4	0.2	305.6
1984	0.0	2.2	0.3	36.2	20.3	0.3	1.8	236.4	11.8	307.1	0.0	0.1	309.5	0.3	309.8
1985	0.0	2.3	0.4	43.0	21.7	0.2	1.7	237.2	9.5	313.6	0.0	0.2	316.2	0.5	316.7
1986	0.0	2.1	0.5	47.7	21.6	0.1	1.7	243.8	7.6	323.1	0.0	0.2	325.5	0.5	326.0
1987	0.0	2.2	0.4	47.5	21.0	0.1	1.9	250.0	13.1	334.0	0.0	0.2	336.4	0.5	336.9
1988	0.0	2.7	0.5	47.7	25.0	0.2	1.8	255.6	16.5	347.4	0.0	0.3	350.3	0.7	351.0
1989	0.0	2.3	0.4	58.7	24.5	0.2	1.9	255.1	15.3	356.0	0.0	0.3	358.6	0.6	359.2
1990	0.0	2.5	0.4	48.3	20.3	0.2	1.9	244.9	11.6	327.6	[e]0.0	0.3	[e]330.4	0.7	[e]331.0
1991	0.0	2.6	0.4	50.8	18.4	0.2	1.7	252.3	8.6	332.4	0.0	0.3	335.3	0.7	336.0
1992	0.0	2.5	0.5	55.1	17.1	0.4	1.8	255.7	10.3	340.8	0.0	0.3	343.5	0.6	344.2
1993	0.0	2.5	0.5	54.9	16.8	0.4	1.8	258.8	8.1	341.3	0.0	0.3	R344.2	R0.7	R344.9
1994	0.0	2.6	0.4	50.6	18.2	0.4	1.9	264.7	6.2	342.3	0.0	0.4	345.2	0.8	346.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Maryland

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	3,088	0	3,088	(s)	166	16	0	182	0	1,356	0	0	0	–
1965	6,018	0	6,018	(s)	269	26	0	295	0	1,140	0	0	0	–
1970	5,950	0	5,950	11	9,946	945	0	10,891	0	1,906	0	0	0	–
1971	5,373	0	5,373	9	13,235	1,558	0	14,793	0	1,772	0	0	0	–
1972	4,450	0	4,450	7	20,884	1,692	0	22,576	0	2,282	0	0	0	–
1973	3,901	0	3,901	9	24,292	1,425	0	25,717	0	2,165	0	0	0	–
1974	4,210	0	4,210	14	25,822	2,391	0	28,213	0	1,969	0	0	0	–
1975	3,873	0	3,873	(s)	17,982	688	0	18,669	4,386	2,311	0	0	0	–
1976	5,083	0	5,083	(s)	17,023	583	0	17,605	6,420	2,088	0	0	0	–
1977	4,423	0	4,423	(s)	16,524	562	0	17,086	10,881	2,018	0	0	0	–
1978	4,844	0	4,844	1	18,940	753	0	19,693	9,896	1,735	0	0	0	–
1979	5,285	0	5,285	10	14,094	600	0	14,695	9,674	2,191	0	0	0	–
1980	5,908	0	5,908	5	8,139	1,111	0	9,250	10,947	1,270	0	0	0	–
1981	5,197	0	5,197	6	6,563	831	0	7,394	11,523	1,426	0	0	0	–
1982	5,766	0	5,766	1	5,940	751	0	6,690	10,345	1,341	0	0	0	–
1983	6,221	0	6,221	2	5,559	918	0	6,477	11,676	1,765	0	0	0	–
1984	7,501	0	7,501	1	4,809	966	0	5,774	11,651	2,022	41	0	0	–
1985	7,046	0	7,046	1	5,131	830	0	5,961	9,926	1,524	16	0	0	–
1986	7,961	0	7,961	2	4,254	748	0	5,002	12,828	1,876	38	0	0	–
1987	8,228	0	8,228	12	4,363	807	0	5,170	10,070	1,612	51	0	0	–
1988	9,020	0	9,020	5	6,009	857	0	6,866	11,734	1,328	57	0	0	–
1989	9,074	0	9,074	19	10,407	1,255	0	11,662	2,719	1,778	14	0	0	–
1990	8,945	0	8,945	18	6,234	598	0	6,832	1,251	2,299	0	0	0	–
1991	8,632	0	8,632	16	7,084	552	0	7,637	9,036	1,407	0	0	0	–
1992	8,993	0	8,993	12	4,654	458	0	5,111	10,664	1,825	0	0	0	–
1993	9,521	0	9,521	9	6,975	592	0	7,567	12,301	1,658	0	0	0	–
1994	9,717	0	9,717	13	6,581	1,040	0	7,621	11,235	2,010	0	0	0	–
					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	0.0	98.0
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	0.0	172.5
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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	345.7
1984	189.3	0.0	189.3	1.3	30.2	5.6	0.0	35.9	126.3	21.1	0.4	0.0	0.0	374.4
1985	178.4	0.0	178.4	1.4	32.3	4.8	0.0	37.1	107.3	15.9	0.2	0.0	0.0	340.4
1986	202.0	0.0	202.0	2.3	26.7	4.4	0.0	31.1	138.5	19.6	0.4	0.0	0.0	394.0
1987	208.6	0.0	208.6	12.3	27.4	4.7	0.0	32.1	108.5	16.8	0.5	0.0	0.0	378.8
1988	229.6	0.0	229.6	5.6	37.8	5.0	0.0	42.8	126.1	13.7	0.6	0.0	0.0	418.2
1989	230.4	0.0	230.4	20.0	65.4	7.3	0.0	72.7	29.2	18.3	0.1	0.0	0.0	370.9
1990	227.8	0.0	227.8	18.3	39.2	3.5	0.0	42.7	13.4	23.8	0.0	0.0	0.0	325.9
1991	220.9	0.0	220.9	16.8	44.5	3.2	0.0	47.8	97.0	14.6	0.0	0.0	0.0	397.1
1992	229.4	0.0	229.4	12.1	29.3	2.7	0.0	31.9	113.9	18.8	0.0	0.0	0.0	406.1
1993	242.8	0.0	242.8	9.2	43.9	3.5	0.0	47.3	131.4	17.0	0.0	0.0	0.0	447.8
1994	249.2	0.0	249.2	13.3	41.4	6.1	0.0	47.4	119.9	20.6	0.0	0.0	0.0	450.5

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Massachusetts

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	1,067	138,520	34	982	0	0	-711	–
1965	4,932	114	2,867	1,702	55,825	3,166	3,496	1,511	915	39,752	54,207	1,120	164,561	966	664	0	0	-6,364	–
1970	910	147	2,843	276	59,239	7,864	2,103	1,820	947	49,527	86,130	1,121	211,870	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	1,057	214,082	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	1,150	223,874	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	1,235	224,558	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	1,258	200,343	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	1,127	194,432	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	1,595	209,917	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	1,775	207,091	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	1,971	203,312	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	2,242	173,173	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	2,312	159,253	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	2,749	149,682	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	2,219	140,900	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	2,115	132,990	6,063	278	0	0	17,340	–
1984	4,403	209	1,098	138	33,517	6,899	247	1,721	821	53,880	37,554	2,543	138,417	1,035	297	0	0	27,226	–
1985	4,176	219	1,051	134	33,072	6,984	737	1,719	765	54,834	36,075	2,268	137,639	6,133	4,574	0	0	5,631	–
1986	3,785	186	1,114	145	35,559	6,913	826	2,279	748	56,381	49,646	2,178	155,790	2,420	4,020	0	0	19,222	–
1987	4,487	227	1,479	123	37,791	7,850	623	2,634	846	57,559	38,070	2,247	149,223	1,136	5,155	0	0	22,363	–
1988	4,463	211	1,763	127	36,766	9,320	418	2,373	816	59,422	38,420	2,167	151,592	1,117	3,084	0	0	35,337	–
1989	4,641	249	1,426	118	40,378	10,005	392	2,567	837	58,262	38,087	2,116	154,187	3,015	2,349	0	0	25,339	–
1990	4,337	258	1,339	97	33,697	9,806	308	2,631	861	55,704	32,066	2,337	138,845	5,070	R I NA	I NA	I NA	R 28,375	–
1991	4,451	252	1,976	45	33,188	9,398	369	1,919	770	54,471	30,533	R 2,277	R 134,947	4,417	R NA	NA	NA	R 31,238	–
1992	4,257	295	1,567	45	35,150	7,880	424	1,869	785	55,448	27,386	R 2,426	R 132,979	4,742	R NA	NA	NA	R 38,647	–
1993	3,811	312	1,454	85	36,629	7,728	378	2,102	800	56,047	24,361	R 2,444	R 132,028	4,339	R NA	NA	NA	R 51,726	–
1994	3,932	337	886	73	35,313	7,433	336	2,056	836	56,891	21,079	2,397	127,299	3,859	NA	NA	NA	48,445	–
			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	6.3	803.0	0.4	10.6	0.0	0.0	-2.4	1,011.0
1965	127.9	115.7	19.0	8.6	325.2	17.8	19.8	6.1	5.6	208.8	340.8	6.0	957.7	11.4	6.9	0.0	0.0	-21.7	1,197.9
1970	21.4	149.1	18.9	1.4	345.1	44.5	11.9	6.9	5.7	260.2	541.5	6.0	1,242.0	13.3	7.9	0.0	0.0	-24.5	1,409.1
1971	13.1	158.3	18.7	1.3	358.9	48.9	12.6	7.0	5.5	267.0	527.3	5.7	1,252.9	15.6	7.4	0.0	0.0	-5.1	1,442.1
1972	7.7	162.2	16.9	1.5	374.5	50.4	11.8	8.1	5.8	281.7	552.3	6.2	1,309.2	16.2	8.9	0.0	0.0	-5.0	1,499.2
1973	5.2	157.3	20.9	1.4	376.5	51.1	7.6	8.0	5.9	292.0	541.9	6.7	1,312.0	55.8	5.8	0.0	0.0	-0.9	1,535.1
1974	26.4	156.7	17.6	1.5	352.9	46.5	5.5	7.7	5.7	285.1	434.4	6.8	1,163.7	32.2	4.5	0.0	0.0	43.3	1,426.7
1975	24.5	154.6	12.2	1.2	341.7	45.3	4.9	8.6	4.8	287.0	414.8	6.1	1,126.5	41.6	4.3	0.0	0.0	23.1	1,374.6
1976	4.0	157.2	13.6	1.1	366.3	45.5	5.8	9.5	5.3	295.8	467.7	8.7	1,219.2	40.5	5.1	0.0	0.0	23.1	1,449.0
1977	4.0	161.5	12.7	1.4	355.4	49.6	5.9	11.0	5.1	299.2	449.6	9.8	1,199.7	39.6	4.4	0.0	0.0	25.6	1,434.8
1978	3.2	162.0	12.2	1.8	342.4	47.9	4.6	10.2	5.5	302.3	439.1	10.8	1,176.9	60.9	2.2	0.0	0.0	8.9	1,414.1
1979	4.6	157.9	9.6	1.4	253.1	49.4	4.5	8.2	5.7	291.7	361.7	12.2	997.6	66.1	4.5	0.0	0.0	17.6	1,248.3
1980	22.8	185.5	8.2	1.4	219.1	48.5	4.0	7.8	5.1	270.2	340.4	12.6	917.2	35.3	1.6	0.0	0.0	39.1	1,201.5
1981	26.6	187.5	9.2	1.1	186.6	45.2	2.4	9.4	4.9	273.6	310.7	14.9	858.0	47.8	4.5	0.0	0.0	57.6	1,182.0
1982	89.6	199.8	10.1	0.8	185.9	41.6	4.4	7.8	4.5	272.9	264.8	12.0	804.7	46.2	2.6	0.0	0.0	55.3	1,198.3
1983	96.9	196.6	7.5	0.8	183.8	41.2	1.4	7.8	4.7	276.1	220.1	11.5	754.9	66.1	2.9	0.0	0.0	59.2	1,176.6
1984	116.0	215.0	7.3	0.7	195.2	39.0	1.4	6.2	5.0	283.0	236.1	13.6	787.5	11.2	3.1	0.0	0.0	92.9	1,225.8
1985	110.2	224.8	7.0	0.7	192.6	39.5	4.2	6.2	4.6	288.0	226.8	12.2	781.8	66.3	47.8	0.0	0.0	19.2	1,250.2
1986	99.8	191.2	7.4	0.7	207.1	39.1	4.7	8.3	4.5	296.2	312.1	11.8	891.9	26.1	42.0	0.0	0.0	65.6	1,316.6
1987	117.6	233.4	9.8	0.6	220.1	44.4	3.5	9.6	5.1	302.4	239.3	12.1	847.1	12.2	53.7	0.0	0.0	76.3	1,340.4
1988	116.9	217.3	11.7	0.6	214.2	52.7	2.4	8.7	4.9	312.1	241.5	11.7	860.6	12.0	31.8	0.0	0.0	120.6	1,359.2
1989	120.7	258.9	9.5	0.6	235.2	56.6	2.2	9.5	5.1	306.0	239.5	11.4	875.5	32.3	24.2	0.0	0.0	86.5	1,398.2
1990	113.1	268.0	8.9	0.5	196.3	55.5	1.7	9.5	5.2	292.6	201.6	12.7	784.5	54.1	R I 22.2	I 66.6	I 0.2	R 96.8	R I 1,410.0
1991	116.8	261.3	13.1	0.2	193.3	52.8	2.1	6.9	4.7	286.1	192.0	R 12.3	R 763.6	47.4	R 19.8	67.5	0.2	R 106.6	R 1,387.6
1992	111.0	305.9	10.4	0.2	204.7	44.5	2.4	6.8	4.8	291.3	172.2	R 13.0	R 750.3	50.6	R 17.3	70.9	0.2	R 131.9	R 1,442.3
1993	98.5	324.2	9.6	0.4	213.4	43.7	2.1	7.6	4.8	294.4	153.2	R 13.2	R 742.4	46.3	R 16.7	74.8	0.2	R 176.5	R 1,484.0
1994	100.7	346.1	5.9	0.4	205.7	42.1	1.9	7.5	5.1	298.8	132.5	12.9	712.8	41.2	28.5	76.3	0.2	165.3	1,487.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Massachusetts

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	141	253	394	45	34,305	4,858	752	39,915	0	0	4,190	–	10,423	–
1965	37	159	195	65	37,082	2,682	926	40,689	0	0	5,766	–	13,767	–
1970	9	97	105	83	38,530	1,434	933	40,897	0	0	9,335	–	22,621	–
1971	5	92	97	83	40,113	1,427	943	42,483	0	0	10,200	–	24,661	–
1972	4	71	75	86	41,406	1,512	1,048	43,966	0	0	10,965	–	26,394	–
1973	9	70	78	84	41,628	1,041	964	43,632	0	0	11,715	–	28,047	–
1974	10	62	72	85	39,084	637	947	40,668	0	0	11,443	–	27,902	–
1975	6	51	57	90	37,860	591	1,006	39,456	0	0	10,648	–	25,684	–
1976	5	48	54	95	41,000	644	1,064	42,707	0	0	11,227	–	27,045	–
1977	5	46	51	93	39,889	672	1,176	41,737	0	0	11,089	–	26,777	–
1978	0	38	38	87	38,110	456	1,130	39,696	0	0	11,242	–	27,504	–
1979	1	30	31	81	26,272	433	645	27,350	0	0	11,422	–	27,565	–
1980	14	37	50	94	22,712	323	675	23,710	0	0	11,571	–	28,137	–
1981	14	55	68	97	18,702	181	713	19,596	0	0	11,684	–	27,847	–
1982	26	47	73	98	18,086	510	713	19,309	0	0	11,986	–	28,788	–
1983	22	44	66	92	17,563	164	848	18,575	0	0	12,436	–	29,794	–
1984	46	52	97	97	18,012	210	860	19,081	0	0	12,702	–	29,566	–
1985	17	52	70	98	17,968	577	1,021	19,566	0	0	12,907	–	30,324	–
1986	9	31	40	102	18,492	501	1,137	20,129	0	0	13,608	–	31,302	–
1987	3	28	31	105	18,576	530	1,359	20,465	0	0	14,475	–	33,075	–
1988	9	22	31	109	18,536	300	1,336	20,171	0	0	15,511	–	35,067	–
1989	9	17	26	112	20,531	270	1,587	22,388	0	0	15,772	–	35,372	–
1990	12	18	29	107	17,287	163	1,358	18,808	[e] 904	[e] 49	15,581	–	R 34,048	–
1991	2	13	15	103	16,640	151	1,229	18,020	952	50	15,379	–	R 33,438	–
1992	14	11	25	120	18,812	259	1,219	20,291	1,002	51	15,560	–	R 33,217	–
1993	6	16	22	121	20,527	250	1,344	22,120	1,030	52	15,785	–	R 33,337	–
1994	1	12	13	120	19,764	218	1,389	21,372	1,010	56	16,049	–	33,469	–
	Trillion Btu													
1960	3.5	6.2	9.8	46.6	199.8	27.5	3.0	230.4	0.0	0.0	14.3	301.1	35.6	336.6
1965	0.9	3.9	4.8	65.7	216.0	15.2	3.7	234.9	0.0	0.0	19.7	325.1	47.0	372.0
1970	0.2	2.3	2.5	83.6	224.4	8.1	3.5	236.1	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	38.4	355.6	93.8	449.4
1979	(s)	0.7	0.8	81.6	153.0	2.5	2.4	157.9	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	42.4	244.0	101.7	345.7
1984	1.1	1.3	2.4	99.2	104.9	1.2	3.1	109.2	0.0	0.0	43.3	254.2	100.9	355.0
1985	0.4	1.2	1.6	100.1	104.7	3.3	3.7	111.6	0.0	0.0	44.0	257.4	103.5	360.9
1986	0.2	0.7	1.0	104.9	107.7	2.8	4.1	114.7	0.0	0.0	46.4	267.0	106.8	373.8
1987	0.1	0.7	0.8	108.0	108.2	3.0	5.0	116.2	0.0	0.0	49.4	274.3	112.9	387.2
1988	0.2	0.6	0.8	111.9	108.0	1.7	4.9	114.5	0.0	0.0	52.9	280.2	119.6	399.8
1989	0.2	0.5	0.7	115.6	119.6	1.5	5.8	127.0	0.0	0.0	53.8	297.1	120.7	417.8
1990	0.3	0.4	0.7	110.5	100.7	0.9	4.9	106.5	[e] 18.1	[e] 0.2	53.2	R e 289.2	R 116.2	R e 405.3
1991	(s)	0.3	0.4	106.9	96.9	0.9	4.4	102.2	19.0	0.2	52.5	R 281.2	R 114.1	R 395.3
1992	0.3	0.3	0.6	124.2	109.6	1.5	4.4	115.5	20.0	0.2	53.1	R 313.6	113.3	R 426.9
1993	0.1	0.4	0.5	125.9	119.6	1.4	4.8	125.8	20.6	0.2	53.9	R 326.9	113.7	R 440.6
1994	(s)	0.3	0.3	122.6	115.1	1.2	5.0	121.4	20.2	0.2	54.8	319.5	114.2	433.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Massachusetts

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	68	106	174	16	12,933	223	163	92	14,503	27,914	4,306	–	10,282	–
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	152	168	3,331	9,251	14,912	–	34,709	–
1985	32	35	67	41	5,703	108	180	188	3,157	9,336	15,582	–	36,608	–
1986	17	20	37	44	6,676	290	201	189	3,426	10,781	16,584	–	38,149	–
1987	6	18	24	47	6,072	50	240	193	2,851	9,406	17,701	–	40,446	–
1988	18	14	32	49	6,363	71	236	183	3,426	10,278	18,767	–	42,427	–
1989	17	11	28	52	7,750	64	280	187	3,859	12,141	19,363	–	43,423	–
1990	22	12	34	51	6,236	127	240	68	4,535	11,206	19,544	–	R 42,708	–
1991	3	9	12	53	7,610	200	217	182	4,562	12,772	19,450	–	R 42,287	–
1992	26	7	33	64	6,685	73	215	164	3,711	10,847	19,595	–	R 41,831	–
1993	11	11	22	65	6,334	113	237	53	2,592	9,330	R 19,712	–	R 41,630	–
1994	1	8	9	85	5,548	100	245	57	2,998	8,948	20,152	–	42,026	–
	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
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
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	0.5	0.9	20.9	55.0	50.9	151.1	118.4	269.6
1985	0.8	0.8	1.6	42.4	33.2	0.6	0.6	1.0	19.8	55.3	53.2	152.5	124.9	277.4
1986	0.4	0.5	0.9	44.8	38.9	1.6	0.7	1.0	21.5	63.8	56.6	166.1	130.2	296.2
1987	0.1	0.5	0.6	47.9	35.4	0.3	0.9	1.0	17.9	55.5	60.4	164.4	138.0	302.4
1988	0.5	0.4	0.8	50.4	37.1	0.4	0.9	1.0	21.5	60.8	64.0	176.1	144.8	320.8
1989	0.4	0.3	0.7	53.3	45.1	0.4	1.0	1.0	24.3	71.8	66.1	191.9	148.2	340.1
1990	0.5	0.3	0.8	52.3	36.3	0.7	0.9	0.4	28.5	66.8	66.7	186.7	145.7	R 332.4
1991	0.1	0.2	0.3	55.2	44.3	1.1	0.8	1.0	28.7	75.9	66.4	197.8	R 144.3	R 342.1
1992	0.6	0.2	0.8	66.8	38.9	0.4	0.8	0.9	23.3	64.3	66.9	198.8	142.7	R 341.5
1993	0.3	0.3	0.5	67.9	36.9	0.6	0.9	0.3	16.3	55.0	67.3	190.7	142.0	332.7
1994	(s)	0.2	0.2	86.6	32.3	0.6	0.9	0.3	18.9	52.9	68.8	208.5	143.4	351.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Massachusetts

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	1,266	12	2,270	2,322	456	260	356	133	17,875	1,067	24,739	117	0	0	5,075	–	12,625	–
1965	496	20	2,867	2,841	590	401	507	206	25,076	1,120	33,607	100	0	0	6,546	–	15,630	–
1970	149	23	2,843	2,897	549	693	506	111	25,742	1,121	34,463	72	0	0	7,418	–	17,975	–
1971	101	26	2,825	2,938	685	707	447	96	24,005	1,057	32,761	70	0	0	7,515	–	18,169	–
1972	118	29	2,550	3,072	440	893	479	103	24,358	1,150	33,045	70	0	0	7,939	–	19,108	–
1973	67	26	3,149	3,073	220	958	498	148	24,479	1,235	33,759	72	0	0	8,417	–	20,150	–
1974	79	24	2,658	2,746	282	911	477	116	19,355	1,258	27,802	68	0	0	7,830	–	19,091	–
1975	110	24	1,832	2,654	227	1,099	353	81	15,891	1,127	23,264	67	0	0	7,330	–	17,680	–
1976	74	20	2,049	2,797	322	1,270	392	70	17,027	1,595	25,521	66	0	0	7,785	–	18,753	–
1977	76	23	1,920	2,820	318	1,560	377	119	15,026	1,775	23,913	48	0	0	7,951	–	19,200	–
1978	67	26	1,842	2,569	310	1,404	405	89	13,083	1,971	21,673	51	0	0	8,235	–	20,147	–
1979	82	21	1,448	2,436	324	1,436	424	109	6,854	2,242	15,273	65	0	0	8,443	–	20,376	–
1980	98	29	1,231	1,886	345	1,305	377	91	2,663	2,312	10,209	63	0	0	8,486	–	20,635	–
1981	60	30	1,390	2,322	240	1,676	362	75	4,719	2,749	13,534	63	0	0	8,956	–	21,344	–
1982	88	19	1,522	2,101	230	1,270	330	97	5,524	2,219	13,292	63	0	0	8,655	–	20,787	–
1983	112	35	1,131	1,332	39	1,114	346	42	5,351	2,115	11,469	63	0	0	9,046	–	21,672	–
1984	106	37	1,098	1,366	20	606	368	109	7,305	2,543	13,415	63	0	0	9,476	–	22,057	–
1985	176	33	1,051	1,044	52	448	343	367	8,399	2,268	13,972	63	0	0	9,454	–	22,210	–
1986	112	24	1,114	1,564	36	879	336	379	13,565	2,178	20,051	63	0	0	9,682	–	22,272	–
1987	165	34	1,479	3,865	43	984	380	390	7,144	2,247	16,532	63	0	0	10,043	–	22,947	–
1988	140	32	1,763	2,451	48	740	366	417	3,655	2,167	11,608	63	0	0	10,243	–	23,157	–
1989	113	36	1,426	2,538	57	639	375	475	3,419	2,116	11,046	63	0	0	10,381	–	23,281	–
1990	73	44	1,339	2,176	18	973	386	412	2,640	2,337	10,281	Rf NA	fNA	fNA	10,157	–	R 22,195	–
1991	85	55	1,976	1,195	18	404	346	332	1,406	R 2,277	R 7,955	R NA	NA	NA	9,794	–	R 21,293	–
1992	155	71	1,567	1,855	92	372	352	334	2,180	R 2,426	R 9,178	R NA	NA	NA	9,663	–	R 20,628	–
1993	115	95	1,454	1,402	15	460	359	175	3,537	R 2,444	R 9,846	R NA	NA	NA	9,605	–	R 20,284	–
1994	65	93	886	1,121	17	334	375	348	2,731	2,397	8,209	NA	NA	NA	9,710	–	20,250	–
			Trillion Btu															
1960	33.2	12.0	15.1	13.5	2.6	1.0	2.2	0.7	112.4	6.3	153.8	1.3	0.0	0.0	17.3	217.5	43.1	260.6
1965	12.8	20.0	19.0	16.5	3.3	1.6	3.1	1.1	157.6	6.0	208.3	1.0	0.0	0.0	22.3	264.5	53.3	317.9
1970	3.6	22.8	18.9	16.9	3.1	2.6	3.1	0.6	161.8	6.0	213.0	0.8	0.0	0.0	25.3	265.5	61.3	326.8
1971	2.4	26.0	18.7	17.1	3.9	2.7	2.7	0.5	150.9	5.7	202.2	0.7	0.0	0.0	25.6	257.0	62.0	319.0
1972	2.8	29.3	16.9	17.9	2.5	3.4	2.9	0.5	153.1	6.2	203.4	0.7	0.0	0.0	27.1	263.3	65.2	328.5
1973	1.6	26.0	20.9	17.9	1.2	3.6	3.0	0.8	153.9	6.7	208.0	0.7	0.0	0.0	28.7	265.1	68.8	333.8
1974	1.9	24.6	17.6	16.0	1.6	3.4	2.9	0.6	121.7	6.8	170.6	0.7	0.0	0.0	26.7	224.6	65.1	289.7
1975	2.6	24.1	12.2	15.5	1.3	4.1	2.1	0.4	99.9	6.1	141.6	0.7	0.0	0.0	25.0	194.0	60.3	254.3
1976	1.8	20.4	13.6	16.3	1.8	4.7	2.4	0.4	107.1	8.7	154.9	0.7	0.0	0.0	26.6	204.3	64.0	268.3
1977	1.8	23.2	12.7	16.4	1.8	5.7	2.3	0.6	94.5	9.8	143.8	0.5	0.0	0.0	27.1	196.5	65.5	262.0
1978	1.6	26.3	12.2	15.0	1.8	5.2	2.5	0.5	82.3	10.8	130.1	0.5	0.0	0.0	28.1	186.6	68.7	255.4
1979	2.0	21.6	9.6	14.2	1.8	5.3	2.6	0.6	43.1	12.2	89.4	0.7	0.0	0.0	28.8	142.5	69.5	212.0
1980	2.4	29.4	8.2	11.0	2.0	4.8	2.3	0.5	16.7	12.6	58.0	0.7	0.0	0.0	29.0	119.4	70.4	189.8
1981	1.5	30.7	9.2	13.5	1.4	6.1	2.2	0.4	29.7	14.9	77.4	0.7	0.0	0.0	30.6	140.7	72.8	213.6
1982	2.2	19.7	10.1	12.2	1.3	4.6	2.0	0.5	34.7	12.0	77.4	0.7	0.0	0.0	29.5	129.5	70.9	200.5
1983	2.8	35.7	7.5	7.8	0.2	4.0	2.1	0.2	33.6	11.5	67.0	0.7	0.0	0.0	30.9	137.0	73.9	210.9
1984	2.6	38.3	7.3	8.0	0.1	2.2	2.2	0.6	45.9	13.6	79.8	0.7	0.0	0.0	32.3	153.7	75.3	229.0
1985	4.4	33.9	7.0	6.1	0.3	1.6	2.1	1.9	52.8	12.2	84.0	0.7	0.0	0.0	32.3	155.2	75.8	231.0
1986	2.8	24.5	7.4	9.1	0.2	3.2	2.0	2.0	85.3	11.8	121.0	0.7	0.0	0.0	33.0	182.0	76.0	258.0
1987	4.2	35.2	9.8	22.5	0.2	3.6	2.3	2.0	44.9	12.1	97.5	0.7	0.0	0.0	34.3	171.7	78.3	250.0
1988	3.5	32.5	11.7	14.3	0.3	2.7	2.2	2.2	23.0	11.7	68.1	0.6	0.0	0.0	34.9	139.7	79.0	218.7
1989	2.8	36.9	9.5	14.8	0.3	2.4	2.3	2.5	21.5	11.4	64.6	0.6	0.0	0.0	35.4	140.4	79.4	219.8
1990	1.8	45.8	8.9	12.7	0.1	3.5	2.3	2.2	16.6	12.7	58.9	Rf 2.2	f48.6	f0.0	34.7	Rf 192.0	75.7	Rf 267.7
1991	2.1	56.9	13.1	7.0	0.1	1.5	2.1	1.7	8.8	R 12.3	R 46.6	R 2.2	48.4	0.0	33.4	R 189.7	R 72.7	R 262.3
1992	3.9	73.5	10.4	10.8	0.5	1.3	2.1	1.8	13.7	R 13.0	R 53.7	R 2.6	50.9	0.0	33.0	R 217.6	70.4	R 288.0
1993	2.9	98.3	9.6	8.2	0.1	1.7	2.2	0.9	22.2	R 13.2	R 58.0	R 2.1	54.2	0.0	32.8	R 248.3	69.2	R 317.5
1994	1.6	95.1	5.9	6.5	0.1	1.2	2.3	1.8	17.2	12.9	47.9	2.0	56.1	0.0	33.1	235.8	69.1	304.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Massachusetts

Year	Coal [a]	Natural Gas [b]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	22	(s)	958	2,371	1,209	4	443	34,725	1,207	40,927	0	108	–	268	–
1965	2	(s)	1,702	2,632	3,166	22	408	39,454	2,472	49,856	0	101	–	240	–
1970	(s)	1	276	3,198	7,864	29	441	49,314	3,215	64,336	0	85	–	205	–
1971	(s)	1	264	3,393	8,642	35	452	50,628	3,475	66,889	0	84	–	204	–
1972	(s)	1	305	4,124	8,788	38	484	53,427	3,024	70,190	0	86	–	208	–
1973	(s)	1	280	4,529	8,943	39	477	55,343	2,766	72,377	0	84	–	201	–
1974	(s)	1	288	4,403	8,152	37	456	54,058	1,446	68,839	0	97	–	236	–
1975	(s)	1	228	4,485	7,967	33	433	54,440	1,049	68,634	0	106	–	256	–
1976	(s)	1	220	4,437	8,005	35	481	56,128	1,389	70,694	0	109	–	262	–
1977	(s)	(s)	271	4,057	8,756	40	463	56,731	1,282	71,600	0	104	–	252	–
1978	0	1	362	4,474	8,454	53	497	57,261	832	71,932	0	101	–	247	–
1979	0	1	269	5,142	8,712	39	520	55,233	1,531	71,447	0	117	–	282	–
1980	0	1	274	4,900	8,563	26	463	51,161	900	66,287	0	160	–	390	–
1981	0	1	209	4,970	7,982	58	444	51,798	1,062	66,523	0	137	–	327	–
1982	0	2	166	5,803	7,358	49	405	51,647	1,459	66,887	0	117	–	281	–
1983	0	1	164	6,707	7,280	58	424	52,325	152	67,110	0	130	–	311	–
1984	0	1	138	7,540	6,899	103	453	53,603	146	68,881	0	151	–	352	–
1985	0	1	134	7,536	6,984	70	422	54,279	874	70,298	0	177	–	415	–
1986	0	2	145	7,801	6,913	62	412	55,813	606	71,753	0	168	–	386	–
1987	0	1	123	8,155	7,850	51	466	56,976	459	74,081	0	164	–	374	–
1988	0	2	127	7,882	9,320	62	450	58,822	675	77,337	0	206	–	466	–
1989	0	2	118	7,904	10,005	62	461	57,599	1,184	77,333	0	167	–	375	–
1990	0	1	97	7,510	9,806	60	475	55,224	1,385	74,556	[e]0	159	–	348	–
1991	0	2	45	7,270	9,398	69	425	53,957	443	71,606	0	174	–	379	–
1992	0	2	45	7,404	7,880	64	433	54,950	434	71,209	0	180	–	385	–
1993	0	2	85	7,980	7,728	61	441	55,819	349	72,464	0	R179	–	R378	–
1994	0	2	73	8,346	7,433	88	461	56,487	369	73,256	0	180	–	376	–
			Trillion Btu												
1960	0.6	0.3	4.9	13.8	6.7	(s)	2.7	182.4	7.6	218.1	0.0	0.4	219.4	0.9	220.3
1965	(s)	0.2	8.6	15.3	17.8	0.1	2.5	207.3	15.5	267.1	0.0	0.3	267.7	0.8	268.6
1970	(s)	1.1	1.4	18.6	44.5	0.1	2.7	259.0	20.2	346.5	0.0	0.3	347.9	0.7	348.6
1971	(s)	0.7	1.3	19.8	48.9	0.1	2.7	265.9	21.8	360.7	0.0	0.3	361.6	0.7	362.3
1972	(s)	0.7	1.5	24.0	49.7	0.1	2.9	280.7	19.0	378.0	0.0	0.3	379.0	0.7	379.7
1973	(s)	0.6	1.4	26.4	50.6	0.1	2.9	290.7	17.4	389.5	0.0	0.3	390.4	0.7	391.1
1974	(s)	0.7	1.5	25.6	46.1	0.1	2.8	284.0	9.1	369.2	0.0	0.3	370.2	0.8	371.0
1975	(s)	0.5	1.2	26.1	45.1	0.1	2.6	286.0	6.6	367.7	0.0	0.4	368.5	0.9	369.4
1976	(s)	0.6	1.1	25.8	45.3	0.1	2.9	294.8	8.7	378.9	0.0	0.4	379.9	0.9	380.8
1977	(s)	0.5	1.4	23.6	49.6	0.1	2.8	298.0	8.1	383.6	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.4	361.2	1.1	362.2
1984	0.0	1.2	0.7	43.9	39.0	0.4	2.7	281.6	0.9	369.2	0.0	0.5	371.0	1.2	372.2
1985	0.0	1.4	0.7	43.9	39.5	0.3	2.6	285.1	5.5	377.5	0.0	0.6	379.5	1.4	380.9
1986	0.0	1.7	0.7	45.4	39.1	0.2	2.5	293.2	3.8	385.0	0.0	0.6	387.2	1.3	388.6
1987	0.0	1.2	0.6	47.5	44.4	0.2	2.8	299.3	2.9	397.7	0.0	0.6	399.5	1.3	400.7
1988	0.0	2.0	0.6	45.9	52.7	0.2	2.7	309.0	4.2	415.5	0.0	0.7	418.2	1.6	419.8
1989	0.0	2.3	0.6	46.0	56.6	0.2	2.8	302.6	7.4	416.3	0.0	0.6	419.2	1.3	420.5
1990	0.0	1.3	0.5	43.7	55.5	0.2	2.9	290.1	8.7	401.6	[e]0.0	0.5	[e]403.4	1.2	[e]404.6
1991	0.0	1.6	0.2	42.3	52.8	0.2	2.6	283.4	2.8	384.5	0.0	0.6	386.6	1.3	387.9
1992	0.0	1.8	0.2	43.1	44.5	0.2	2.6	288.7	2.7	382.1	0.0	0.6	384.6	1.3	385.9
1993	0.0	2.3	0.4	46.5	43.7	0.2	2.7	293.2	2.2	388.9	0.0	0.6	391.8	1.3	393.1
1994	0.0	1.9	0.4	48.6	42.1	0.3	2.8	296.7	2.3	393.2	0.0	0.6	395.7	1.3	397.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Massachusetts

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	4,066	0	4,066	13	12,157	337	0	12,494	966	564	0	0	0	–
1970	575	0	575	6	42,301	1,176	0	43,477	1,209	682	0	0	0	–
1971	265	0	265	10	42,502	1,182	0	43,683	1,435	636	0	0	0	–
1972	68	0	68	8	46,616	1,357	0	47,973	1,499	789	0	0	0	–
1973	13	0	13	6	44,958	964	0	45,922	5,120	488	0	0	0	–
1974	908	0	908	7	37,172	778	0	37,950	2,885	359	0	0	0	–
1975	804	0	804	1	39,912	503	0	40,415	3,781	350	0	0	0	–
1976	0	0	0	2	46,194	373	0	46,568	3,664	424	0	0	0	–
1977	0	0	0	3	46,571	348	0	46,919	3,675	375	0	0	0	–
1978	0	0	0	2	48,409	360	0	48,769	5,570	163	0	0	0	–
1979	50	0	50	7	45,368	454	0	45,822	6,077	373	0	0	0	–
1980	676	0	676	5	45,726	616	0	46,342	3,232	96	0	0	0	–
1981	845	0	845	7	40,488	291	0	40,779	4,331	368	0	0	0	–
1982	3,182	0	3,182	15	30,900	409	0	31,309	4,173	189	0	0	0	–
1983	3,413	0	3,413	24	27,063	511	0	27,574	6,063	215	0	0	0	–
1984	4,080	0	4,080	32	26,772	1,016	0	27,789	1,035	234	0	0	0	–
1985	3,863	0	3,863	45	23,645	822	0	24,467	6,133	4,511	0	0	0	–
1986	3,596	0	3,596	15	32,050	1,026	0	33,076	2,420	3,957	0	0	0	–
1987	4,267	0	4,267	40	27,616	1,124	0	28,739	1,136	5,092	0	0	0	–
1988	4,260	0	4,260	20	30,664	1,534	0	32,198	1,117	3,021	0	0	0	–
1989	4,474	0	4,474	48	29,625	1,654	0	31,279	3,015	2,286	0	0	0	–
1990	4,201	0	4,201	55	23,505	488	0	23,993	5,070	R 1,937	0	0	0	–
1991	4,339	0	4,339	39	24,121	473	0	24,594	4,417	R 1,701	0	0	0	–
1992	4,044	0	4,044	38	21,061	394	0	21,455	4,742	R 1,426	0	0	0	–
1993	3,652	0	3,652	29	17,883	386	0	18,269	4,339	R 1,416	0	0	0	–
1994	3,845	0	3,845	39	14,981	533	0	15,514	3,859	2,576	0	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	0.0	149.8
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	0.0	215.0
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	329.9
1985	102.6	0.0	102.6	46.9	148.7	4.8	0.0	153.4	66.3	47.1	0.0	0.0	0.0	416.4
1986	95.1	0.0	95.1	15.3	201.5	6.0	0.0	207.5	26.1	41.3	0.0	0.0	0.0	385.3
1987	112.0	0.0	112.0	41.2	173.6	6.5	0.0	180.2	12.2	53.1	0.0	0.0	0.0	398.7
1988	111.7	0.0	111.7	20.5	192.8	8.9	0.0	201.7	12.0	31.2	0.0	0.0	0.0	377.1
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	0.0	419.0
1990	109.7	0.0	109.7	58.1	147.8	2.8	0.0	150.6	54.1	R 20.0	0.0	0.0	0.0	397.0
1991	114.0	0.0	114.0	40.7	151.7	2.8	0.0	154.4	47.4	R 17.6	0.0	0.0	0.0	378.6
1992	105.7	0.0	105.7	39.6	132.4	2.3	0.0	134.7	50.6	R 14.7	0.0	0.0	0.0	349.4
1993	94.6	0.0	94.6	29.8	112.4	2.2	0.0	114.7	46.3	R 14.6	0.0	0.0	0.0	304.3
1994	98.5	0.0	98.5	40.0	94.2	3.1	0.0	97.3	41.2	26.5	0.0	0.0	0.0	319.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Michigan

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	4,629	129,498	0	3,280	0	0	9,080	–
1965	33,132	556	2,264	2,619	30,287	4,377	5,880	3,716	3,025	78,044	8,594	8,738	147,543	181	1,400	0	0	11,513	–
1970	34,066	809	3,881	718	38,141	7,365	3,124	6,202	3,157	96,831	10,056	10,304	179,778	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	9,045	185,258	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	9,423	200,723	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	10,277	209,802	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	10,547	202,469	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	10,478	200,779	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	12,647	214,339	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	14,162	220,285	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	15,440	228,835	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	17,302	199,788	15,139	1,314	1	0	4,037	–
1980	31,110	865	3,507	488	27,643	6,646	1,233	6,736	3,274	97,025	13,289	17,373	177,214	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	9,999	156,871	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	8,234	143,425	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	7,926	142,872	16,383	2,499	0	0	15,682	–
1984	31,412	718	2,790	181	23,882	5,983	536	7,523	3,197	92,952	3,116	9,130	149,290	14,078	1,627	0	0	23,014	–
1985	32,793	709	2,779	201	25,411	6,570	507	14,225	2,979	93,424	3,109	8,329	157,534	13,452	1,388	0	0	21,789	–
1986	33,999	671	3,384	250	26,499	7,129	419	15,690	2,913	96,017	3,761	9,167	165,230	12,257	1,408	0	0	18,866	–
1987	35,865	657	3,506	242	25,320	8,371	421	17,656	3,293	98,925	3,316	9,570	170,621	14,389	1,251	0	0	-2,630	–
1988	35,332	749	2,876	241	27,630	8,585	474	17,302	3,176	102,502	4,793	9,642	177,223	17,808	764	0	0	1,050	–
1989	34,885	774	3,863	268	24,873	9,235	517	19,053	3,257	101,095	4,514	9,572	176,248	21,312	-4,560	0	0	11,882	–
1990	34,713	817	3,950	215	23,312	10,057	270	14,901	3,352	99,339	2,750	10,456	168,601	21,611	R [i] NA	[i] NA	[i] NA	R 27,205	–
1991	33,879	828	3,464	206	24,978	10,234	360	16,017	2,999	101,344	1,750	R 12,735	R 174,085	27,021	R NA	NA	NA	R -16,673	–
1992	31,554	891	3,546	182	25,311	10,125	251	16,656	3,057	101,393	1,706	R 13,589	R 175,826	18,849	R NA	NA	NA	R 14,690	–
1993	32,217	913	4,453	198	28,719	10,305	452	R 13,077	3,113	105,818	2,094	R 13,496	R 181,727	28,525	R NA	NA	NA	R -9,652	–
1994	35,674	926	3,596	237	29,347	10,281	415	14,287	3,254	105,782	2,188	13,756	183,143	14,144	NA	NA	NA	9,902	–
			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	27.4	717.3	0.0	35.3	0.0	0.0	31.0	1,819.8
1965	830.2	563.6	15.0	13.2	176.4	24.0	33.3	14.9	18.3	410.0	54.0	49.4	808.6	2.1	14.6	0.0	0.0	39.3	2,258.5
1970	828.9	821.3	25.8	3.6	222.2	41.0	17.7	23.4	19.1	508.7	63.2	57.6	982.3	4.1	13.7	0.0	0.0	43.1	2,693.3
1971	837.6	863.3	25.0	1.3	243.0	40.0	17.1	25.5	16.9	522.9	70.2	50.8	1,012.8	4.2	24.0	0.0	0.0	43.0	2,784.9
1972	843.7	877.7	30.8	2.5	275.9	38.4	15.0	30.1	18.1	552.6	82.2	52.9	1,098.4	22.9	44.6	0.0	0.0	71.7	2,959.1
1973	791.3	929.6	35.6	2.9	273.4	38.8	11.3	30.3	22.3	578.4	99.5	57.8	1,150.3	32.5	48.0	0.0	0.0	105.0	3,056.6
1974	710.0	942.6	32.3	1.0	254.4	35.9	9.1	29.3	21.4	562.4	104.9	59.2	1,109.9	4.6	50.4	0.0	0.0	93.0	2,910.5
1975	751.0	894.8	25.8	1.7	245.6	32.1	7.6	27.8	16.7	568.7	115.0	59.2	1,100.3	79.0	14.9	0.0	0.0	16.5	2,856.5
1976	717.7	895.1	23.1	1.9	257.1	31.9	8.8	32.5	18.5	596.2	132.7	71.2	1,173.8	109.4	39.7	0.0	0.0	40.8	2,976.5
1977	693.0	745.7	27.5	2.2	261.1	35.0	8.1	32.3	19.8	603.1	139.1	79.9	1,208.2	110.2	73.5	0.0	0.0	40.8	2,871.4
1978	671.3	793.9	29.0	2.4	263.0	36.3	7.7	33.2	21.3	617.4	160.0	87.1	1,257.4	143.4	80.9	0.0	0.0	-11.1	2,935.8
1979	758.9	880.4	27.6	1.9	182.1	37.1	8.7	27.7	22.3	568.7	119.7	96.3	1,092.3	164.7	13.6	(s)	0.0	13.8	2,923.6
1980	759.0	874.7	23.3	2.5	161.0	37.1	7.0	24.7	19.9	509.7	83.6	95.8	964.5	173.3	71.5	0.0	0.0	-44.4	2,798.7
1981	757.5	814.5	23.6	1.3	155.1	34.3	5.6	20.3	19.0	487.4	49.2	55.4	851.1	188.2	59.4	0.0	0.0	-47.4	2,623.3
1982	711.4	764.6	17.3	0.8	133.6	31.8	4.2	25.7	17.4	463.2	30.7	45.6	770.4	166.1	35.0	0.0	0.0	16.5	2,464.1
1983	706.6	713.2	18.2	1.6	129.2	32.9	3.2	25.8	18.2	465.7	28.1	44.5	767.3	178.7	26.3	0.0	0.0	53.5	2,445.5
1984	747.6	730.3	18.5	0.9	139.1	33.4	3.0	27.1	19.4	488.3	19.6	50.1	799.4	152.7	17.0	0.0	0.0	78.5	2,525.5
1985	781.9	719.9	18.4	1.0	148.0	36.7	2.9	51.3	18.1	490.8	19.5	46.0	832.7	145.5	14.5	0.0	0.0	74.3	2,568.8
1986	811.9	689.4	22.5	1.3	154.4	39.9	2.4	57.1	17.7	504.4	23.6	50.8	874.0	132.4	14.7	0.0	0.0	64.4	2,586.8
1987	840.2	671.2	23.3	1.2	147.5	46.9	2.4	64.6	20.0	519.7	20.8	52.7	899.1	155.1	13.0	0.0	0.0	-9.0	2,569.6
1988	830.9	765.7	19.1	1.2	160.9	48.1	2.7	63.2	19.3	538.4	30.1	53.4	936.5	191.3	7.9	0.0	0.0	3.6	2,735.9
1989	799.3	796.9	25.6	1.4	144.9	51.8	2.9	70.2	19.8	531.1	28.4	52.9	928.9	228.6	-47.0	0.0	0.0	40.5	2,747.2
1990	786.3	835.4	26.2	1.1	135.8	56.6	1.5	54.0	20.3	521.8	17.3	57.9	892.6	230.8	R [i] 9.9	[i] 110.2	[i] 0.2	R 92.8	R [i] 2,841.0
1991	759.8	844.2	23.0	1.0	145.5	57.5	2.0	57.9	18.2	532.4	11.0	R 70.4	R 918.8	290.2	R 11.2	110.7	0.2	R -56.9	R 2,869.6
1992	702.0	909.0	23.5	0.9	147.4	57.0	1.4	60.4	18.5	532.6	10.7	R 74.6	R 927.2	201.3	R 11.6	116.9	0.2	R 50.1	R 2,911.5
1993	708.1	932.2	29.6	1.0	167.3	58.1	2.6	R 47.2	18.9	555.9	13.2	R 74.2	R 967.8	304.7	R 17.9	107.6	0.2	R -32.9	R 3,003.3
1994	794.0	945.5	23.9	1.2	170.9	58.2	2.4	51.9	19.7	555.7	13.8	75.6	973.2	151.0	52.4	112.1	0.2	33.8	3,085.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[i] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
NA=Not available.
– =Not applicable.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Michigan

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	834	8	842	202	17,380	765	1,940	20,084	0	0	8,728	–	21,709	–
1965	615	5	620	271	16,334	1,279	2,346	19,959	0	0	11,309	–	27,002	–
1970	299	3	302	340	18,839	545	4,493	23,877	0	0	17,103	–	41,446	–
1971	301	3	304	344	20,656	572	4,906	26,135	0	0	18,168	–	43,924	–
1972	217	2	219	355	21,807	572	5,850	28,228	0	0	19,397	–	46,688	–
1973	209	2	211	342	21,202	421	5,822	27,445	0	0	20,246	–	48,469	–
1974	166	2	168	346	19,555	354	5,479	25,388	0	0	20,288	–	49,468	–
1975	138	2	140	335	19,420	302	5,219	24,942	0	0	20,886	–	50,380	–
1976	149	2	151	339	19,155	313	5,787	25,255	0	0	21,323	–	51,363	–
1977	129	2	131	299	19,207	273	5,470	24,950	0	0	21,709	–	52,421	–
1978	101	1	102	328	19,667	249	5,226	25,142	0	0	21,858	–	53,476	–
1979	46	1	47	369	11,527	142	3,425	15,094	0	0	22,042	–	53,195	–
1980	107	1	108	387	9,195	83	3,375	12,653	0	0	22,260	–	54,129	–
1981	63	1	64	362	7,894	206	2,961	11,061	0	0	21,530	–	51,312	–
1982	81	1	82	359	6,312	559	3,276	10,148	0	0	21,276	–	51,103	–
1983	57	1	58	341	4,942	440	3,897	9,279	0	0	21,946	–	52,579	–
1984	101	1	102	339	5,337	459	4,423	10,219	0	0	22,309	–	51,927	–
1985	88	1	89	341	5,964	425	4,427	10,817	0	0	22,302	–	52,396	–
1986	90	0	90	330	5,883	346	5,039	11,268	0	0	23,025	–	52,964	–
1987	42	0	42	314	5,214	325	6,209	11,748	0	0	24,032	–	54,911	–
1988	61	(s)	61	349	5,820	400	6,495	12,714	0	0	25,316	–	57,235	–
1989	61	(s)	62	362	4,771	392	7,151	12,314	0	0	25,319	–	56,782	–
1990	94	0	94	327	4,167	217	6,538	10,922	[e] 1,373	[e] 58	25,319	–	R 55,326	–
1991	92	1	93	337	4,558	279	7,248	12,085	1,447	58	26,760	–	R 58,181	–
1992	66	(s)	66	358	4,232	205	7,331	11,767	1,522	59	25,671	–	R 54,801	–
1993	83	(s)	83	370	4,149	355	7,976	12,480	781	59	26,770	–	R 56,537	–
1994	101	1	102	365	4,032	322	7,896	12,250	766	67	27,174	–	56,671	–
	Trillion Btu													
1960	20.6	0.2	20.8	209.0	101.2	4.3	7.8	113.4	0.0	0.0	29.8	373.0	74.1	447.1
1965	15.2	0.1	15.3	274.8	95.1	7.3	9.4	111.8	0.0	0.0	38.6	440.5	92.1	532.6
1970	7.1	0.1	7.2	345.1	109.7	3.1	17.0	129.8	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	69.1	574.8	165.4	740.2
1974	3.8	(s)	3.9	355.3	113.9	2.0	20.4	136.4	0.0	0.0	69.2	564.8	168.8	733.6
1975	3.2	(s)	3.3	343.0	113.1	1.7	19.4	134.2	0.0	0.0	71.3	551.7	171.9	723.6
1976	3.5	(s)	3.6	347.4	111.6	1.8	21.5	134.8	0.0	0.0	72.8	558.5	175.2	733.8
1977	3.0	(s)	3.1	305.2	111.9	1.5	20.1	133.5	0.0	0.0	74.1	515.8	178.9	694.7
1978	2.3	(s)	2.4	333.7	114.6	1.4	19.2	135.1	0.0	0.0	74.6	545.8	182.5	728.3
1979	1.1	(s)	1.1	376.8	67.1	0.8	12.6	80.6	0.0	0.0	75.2	533.7	181.5	715.2
1980	2.6	(s)	2.6	394.9	53.6	0.5	12.4	66.4	0.0	0.0	76.0	539.9	184.7	724.6
1981	1.5	(s)	1.5	371.1	46.0	1.2	10.8	57.9	0.0	0.0	73.5	504.1	175.1	679.2
1982	2.0	(s)	2.0	368.9	36.8	3.2	11.8	51.8	0.0	0.0	72.6	495.3	174.4	669.6
1983	1.4	(s)	1.4	354.0	28.8	2.5	14.1	45.4	0.0	0.0	74.9	475.7	179.4	655.1
1984	2.5	(s)	2.5	346.7	31.1	2.6	15.9	49.6	0.0	0.0	76.1	475.0	177.2	652.1
1985	2.1	(s)	2.2	348.9	34.7	2.4	16.0	53.1	0.0	0.0	76.1	480.3	178.8	659.0
1986	2.2	0.0	2.2	342.9	34.3	2.0	18.3	54.6	0.0	0.0	78.6	478.3	180.7	659.0
1987	1.0	0.0	1.0	324.1	30.4	1.8	22.7	54.9	0.0	0.0	82.0	462.1	187.4	649.4
1988	1.5	(s)	1.5	362.3	33.9	2.3	23.7	59.9	0.0	0.0	86.4	510.1	195.3	705.4
1989	1.5	(s)	1.5	380.4	27.8	2.2	26.3	56.4	0.0	0.0	86.4	524.7	193.7	718.4
1990	2.3	0.0	2.3	342.2	24.3	1.2	23.7	49.2	[e] 27.5	[e] 0.2	86.4	R [e] 507.7	R 188.8	R [e] 696.5
1991	2.3	(s)	2.3	350.2	26.5	1.6	26.2	54.3	28.9	0.2	91.3	R 527.3	R 198.5	R 725.8
1992	1.6	(s)	1.7	371.5	24.7	1.2	26.6	52.4	30.4	0.2	87.6	R 543.8	R 187.0	R 730.7
1993	2.0	(s)	2.1	382.6	24.2	2.0	28.8	54.9	15.6	0.2	91.3	R 546.7	R 192.9	R 739.6
1994	2.5	(s)	2.5	376.8	23.5	1.8	28.7	54.0	15.3	0.2	92.7	541.5	193.4	734.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Michigan

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	1,143	3	1,146	85	3,019	946	414	536	839	5,754	9,124	–	21,785	–
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	(s)	118	175	2,367	19	522	884	113	3,906	16,822	–	40,091	–
1982	151	(s)	151	170	2,131	18	578	889	217	3,832	16,760	–	40,255	–
1983	107	(s)	107	160	2,489	17	688	844	63	4,100	17,176	–	41,151	–
1984	188	(s)	189	161	2,688	14	781	1,024	42	4,549	17,933	–	41,742	–
1985	163	1	164	158	2,359	11	781	699	274	4,125	18,421	–	43,279	–
1986	167	0	167	136	2,955	13	889	706	230	4,794	19,137	–	44,020	–
1987	77	0	77	186	1,747	15	1,096	725	134	3,717	19,850	–	45,355	–
1988	114	(s)	114	168	2,430	19	1,146	755	192	4,542	20,876	–	47,197	–
1989	114	(s)	114	176	2,078	56	1,262	670	90	4,156	21,480	–	48,171	–
1990	174	0	174	159	1,730	18	1,154	766	72	3,740	21,986	–	R 48,043	–
1991	171	(s)	171	166	1,938	17	1,279	586	5	3,825	22,748	–	R 49,460	–
1992	122	(s)	123	174	1,767	5	1,294	553	12	3,631	22,509	–	R 48,052	–
1993	154	(s)	154	180	1,472	25	1,407	76	8	2,990	30,243	–	R 63,870	–
1994	187	1	188	183	1,437	33	1,393	363	3	3,229	31,265	–	65,202	–
	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
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
1970	13.2	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	4.6	164.6	15.7	0.1	2.8	5.4	0.3	24.2	61.2	254.6	142.4	397.0
1985	4.0	(s)	4.0	161.4	13.7	0.1	2.8	3.7	1.7	22.0	62.9	250.3	147.7	397.9
1986	4.2	0.0	4.2	140.8	17.2	0.1	3.2	3.7	1.4	25.7	65.3	235.9	150.2	386.1
1987	1.9	0.0	1.9	191.8	10.2	0.1	4.0	3.8	0.8	18.9	67.7	280.3	154.8	435.1
1988	2.8	(s)	2.8	174.6	14.2	0.1	4.2	4.0	1.2	23.6	71.2	272.2	161.0	433.3
1989	2.8	(s)	2.8	185.3	12.1	0.3	4.6	3.5	0.6	21.2	73.3	282.6	164.4	447.0
1990	4.3	0.0	4.3	166.6	10.1	0.1	4.2	4.0	0.5	18.8	75.0	264.8	163.9	428.7
1991	4.3	(s)	4.3	172.0	11.3	0.1	4.6	3.1	(s)	19.1	77.6	273.0	R 168.8	R 441.7
1992	3.0	(s)	3.1	180.3	10.3	(s)	4.7	2.9	0.1	18.0	76.8	278.2	R 164.0	R 442.1
1993	3.8	(s)	3.8	186.5	8.6	0.1	5.1	0.4	0.1	14.2	103.2	307.7	R 217.9	R 525.6
1994	4.6	(s)	4.6	189.2	8.4	0.2	5.1	1.9	(s)	15.5	106.7	316.0	222.5	538.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Michigan

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	13,011	117	2,936	7,091	2,741	524	1,221	3,151	9,574	4,629	31,866	212	0	0	12,482	–	31,046	–
1965	15,193	192	2,264	7,518	3,655	923	1,898	2,694	6,660	8,738	34,350	146	0	0	19,350	–	46,201	–
1970	13,061	262	3,881	8,502	2,175	854	1,834	2,758	4,557	10,304	34,864	123	0	0	25,169	–	60,992	–
1971	13,165	275	3,766	9,433	2,023	903	1,478	2,495	3,562	9,045	32,705	156	0	0	27,287	–	65,970	–
1972	13,607	275	4,638	10,061	1,651	1,025	1,583	2,073	4,615	9,423	35,069	149	0	0	29,856	–	71,863	–
1973	11,510	324	5,366	10,116	1,262	1,142	2,072	2,305	4,243	10,277	36,782	164	0	0	32,914	–	78,796	–
1974	8,567	321	4,871	8,781	985	1,299	1,984	1,757	4,055	10,547	34,279	132	0	0	30,272	–	73,810	–
1975	9,885	300	3,886	8,749	823	1,239	1,430	1,889	3,343	10,478	31,837	121	0	0	28,866	–	69,627	–
1976	8,964	305	3,487	9,792	1,007	1,777	1,588	1,687	5,920	12,647	37,904	124	0	0	33,200	–	79,973	–
1977	7,526	267	4,142	9,841	947	2,146	1,795	1,494	6,809	14,162	41,337	127	0	0	34,513	–	83,340	–
1978	6,734	278	4,376	9,591	926	2,606	1,928	1,387	5,222	15,440	41,476	135	0	0	35,609	–	87,117	–
1979	8,304	274	4,163	5,677	1,288	3,262	2,017	872	3,270	17,302	37,851	121	0	0	35,203	–	84,956	–
1980	8,652	249	3,507	4,804	1,135	2,637	1,796	967	3,213	17,373	35,433	117	0	0	30,656	–	74,545	–
1981	8,020	232	3,550	5,347	767	1,788	1,723	890	2,021	9,999	26,085	117	0	0	30,858	–	73,543	–
1982	7,242	193	2,602	4,425	166	2,982	1,571	822	2,592	8,234	23,394	117	0	0	27,599	–	66,288	–
1983	6,610	175	2,739	3,703	100	2,244	1,645	595	3,359	7,926	22,311	117	0	0	30,153	–	72,241	–
1984	6,630	198	2,790	3,999	64	1,884	1,754	831	2,241	9,130	22,693	117	0	0	33,070	–	76,975	–
1985	6,645	190	2,779	4,246	70	8,725	1,635	1,191	2,213	8,329	29,190	117	0	0	33,704	–	79,184	–
1986	6,681	180	3,384	4,608	60	9,479	1,598	1,151	2,343	9,167	31,790	117	0	0	34,091	–	78,418	–
1987	4,892	134	3,506	4,264	82	10,012	1,807	1,142	2,015	9,570	32,398	117	0	0	35,098	–	80,197	–
1988	5,189	199	2,876	4,992	56	9,316	1,743	1,066	2,152	9,642	31,844	117	0	0	36,324	–	82,121	–
1989	4,738	201	3,863	3,772	69	10,356	1,787	1,073	1,775	9,572	32,267	117	0	0	36,131	–	81,028	–
1990	4,719	290	3,950	3,406	34	6,924	1,839	971	1,435	10,456	29,015	Rf NA	f NA	f NA	35,062	–	R 76,617	–
1991	3,718	282	3,464	4,576	64	7,228	1,646	1,110	751	R 12,735	R 31,573	R NA	NA	NA	35,007	–	R 76,111	–
1992	3,127	313	3,546	4,628	41	7,790	1,678	950	763	R 13,589	R 32,986	R NA	NA	NA	35,657	–	R 76,120	–
1993	3,231	320	4,453	4,487	72	R 3,421	1,708	1,034	965	R 13,496	R 29,637	R NA	NA	NA	30,572	–	R 64,565	–
1994	4,278	338	3,596	4,729	60	4,528	1,786	1,167	972	13,756	30,593	NA	NA	NA	32,717	–	68,230	–
			Trillion Btu															
1960	332.0	121.3	19.5	41.3	15.5	2.1	7.4	16.5	60.2	27.4	189.9	2.3	0.0	0.0	42.6	688.1	105.9	794.1
1965	385.6	195.1	15.0	43.8	20.7	3.7	11.5	14.2	41.9	49.4	200.2	1.5	0.0	0.0	66.0	848.4	157.6	1,006.1
1970	320.9	265.7	25.8	49.5	12.3	3.2	11.1	14.5	28.7	57.6	202.7	1.3	0.0	0.0	85.9	876.5	208.1	1,084.6
1971	320.7	279.4	25.0	54.9	11.5	3.4	9.0	13.1	22.4	50.8	190.1	1.6	0.0	0.0	93.1	885.0	225.1	1,110.1
1972	331.2	283.2	30.8	58.6	9.4	3.9	9.6	10.9	29.0	52.9	205.0	1.5	0.0	0.0	101.9	922.8	245.2	1,168.0
1973	282.7	335.0	35.6	58.9	7.2	4.3	12.6	12.1	26.7	57.8	215.2	1.7	0.0	0.0	112.3	946.8	268.9	1,215.7
1974	210.5	329.3	32.3	51.1	5.6	4.8	12.0	9.2	25.5	59.2	199.9	1.4	0.0	0.0	103.3	844.3	251.8	1,096.2
1975	246.7	307.7	25.8	51.0	4.7	4.6	8.7	9.9	21.0	59.2	184.9	1.3	0.0	0.0	98.5	839.1	237.6	1,076.6
1976	224.9	312.2	23.1	57.0	5.7	6.6	9.6	8.9	37.2	71.2	219.3	1.3	0.0	0.0	113.3	871.1	272.9	1,143.9
1977	188.8	272.4	27.5	57.3	5.4	7.9	10.9	7.8	42.8	79.9	239.5	1.3	0.0	0.0	117.8	819.8	284.4	1,104.2
1978	168.1	283.1	29.0	55.9	5.3	9.6	11.7	7.3	32.8	87.1	238.6	1.4	0.0	0.0	121.5	812.6	297.2	1,109.9
1979	209.2	279.3	27.6	33.1	7.3	12.0	12.2	4.6	20.6	96.3	213.7	1.3	0.0	0.0	120.1	823.6	289.9	1,113.4
1980	219.4	253.7	23.3	28.0	6.4	9.7	10.9	5.1	20.2	95.8	199.4	1.2	0.0	0.0	104.6	778.3	254.3	1,032.6
1981	203.3	237.5	23.6	31.1	4.3	6.5	10.4	4.7	12.7	55.4	148.8	1.2	0.0	0.0	105.3	696.1	250.9	947.0
1982	184.4	198.4	17.3	25.8	0.9	10.8	9.5	4.3	16.3	45.6	130.6	1.2	0.0	0.0	94.2	608.8	226.2	834.9
1983	168.4	182.1	18.2	21.6	0.6	8.1	10.0	3.1	21.1	44.5	127.2	1.2	0.0	0.0	102.9	581.8	246.5	828.3
1984	168.9	202.2	18.5	23.3	0.4	6.8	10.6	4.4	14.1	50.1	128.1	1.2	0.0	0.0	112.8	613.4	262.6	876.0
1985	169.9	194.2	18.4	24.7	0.4	31.4	9.9	6.3	13.9	46.0	151.1	1.2	0.0	0.0	115.0	631.4	270.2	901.6
1986	171.2	186.7	22.5	26.8	0.3	34.5	9.7	6.0	14.7	50.8	165.4	1.2	0.0	0.0	116.3	640.8	267.6	908.4
1987	123.7	138.4	23.3	24.8	0.5	36.6	11.0	6.0	12.7	52.7	167.5	1.2	0.0	0.0	119.8	550.5	273.6	824.2
1988	130.6	207.3	19.1	29.1	0.3	34.0	10.6	5.6	13.5	53.4	165.6	1.2	0.0	0.0	123.9	628.6	280.2	908.8
1989	118.9	211.4	25.6	22.0	0.4	38.1	10.8	5.6	11.2	52.9	166.7	1.2	0.0	0.0	123.3	621.4	276.5	897.9
1990	117.9	302.8	26.2	19.8	0.2	25.1	11.2	5.1	9.0	57.9	154.5	Rf 1.3	f 78.7	f 0.0	119.6	Rf 774.9	R 261.4	Rf 1,036.3
1991	92.5	292.5	23.0	26.7	0.4	26.1	10.0	5.8	4.7	R 70.4	R 167.0	R 1.3	78.5	0.0	119.4	R 751.3	R 259.7	R 1,011.0
1992	76.3	324.4	23.5	27.0	0.2	28.2	10.2	5.0	4.8	R 74.6	R 173.6	R 1.6	82.5	0.0	121.7	R 780.0	R 259.7	R 1,039.7
1993	78.2	331.3	29.6	26.1	0.4	R 12.3	10.4	5.4	6.1	R 74.2	R 164.5	R 1.4	87.6	0.0	104.3	R 767.4	R 220.3	R 987.7
1994	107.2	348.9	23.9	27.5	0.3	16.5	10.8	6.1	6.1	75.6	166.8	1.5	92.0	0.0	111.6	828.0	232.8	1,060.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Michigan

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	227	3	1,312	2,475	3,369	21	1,277	62,307	728	71,489	0	9	–	23	–
1965	50	5	2,619	3,348	4,377	34	1,126	74,814	779	87,097	0	0	–	0	–
1970	21	10	718	6,353	7,365	62	1,324	93,269	427	109,518	0	0	–	0	–
1971	17	15	257	6,132	7,195	80	1,307	96,271	78	111,319	0	0	–	0	–
1972	14	16	497	9,645	6,693	85	1,399	102,196	279	120,795	0	0	–	0	–
1973	8	12	583	10,453	6,807	101	1,605	106,857	421	126,826	0	0	–	0	–
1974	4	11	204	9,837	6,336	99	1,537	104,350	454	122,818	0	0	–	0	–
1975	2	10	347	8,949	5,700	95	1,321	105,412	423	122,248	0	0	–	0	–
1976	1	12	380	9,916	5,698	162	1,468	110,775	286	128,685	0	0	–	0	–
1977	(s)	12	438	10,595	6,271	211	1,476	112,327	271	131,591	0	0	–	0	–
1978	0	4	469	11,137	6,480	296	1,585	115,155	208	135,330	0	0	–	0	–
1979	0	12	384	11,427	6,624	223	1,659	106,677	206	127,201	0	0	–	0	–
1980	0	12	488	9,741	6,646	128	1,477	95,235	232	113,946	0	0	–	0	–
1981	0	14	250	10,382	6,131	301	1,417	91,008	299	109,789	0	0	–	0	–
1982	0	13	157	9,568	5,706	270	1,292	86,469	65	103,527	0	0	–	0	–
1983	0	8	324	10,585	5,892	321	1,353	87,207	100	105,784	0	0	–	0	–
1984	0	11	181	11,310	5,983	435	1,442	91,097	55	110,504	0	0	–	0	–
1985	0	11	201	12,196	6,570	291	1,344	91,534	99	112,235	0	0	–	0	–
1986	0	15	250	12,542	7,129	283	1,314	94,160	34	115,711	0	0	–	0	–
1987	0	12	242	13,689	8,371	339	1,486	97,058	51	121,235	0	0	–	0	–
1988	0	18	241	13,893	8,585	345	1,433	100,680	30	125,208	0	0	–	0	–
1989	0	17	268	13,795	9,235	284	1,470	99,352	115	124,519	0	0	–	0	–
1990	0	18	215	13,670	10,057	286	1,513	97,603	93	123,435	[e] 52,926	0	–	0	–
1991	0	20	206	13,620	10,234	262	1,353	99,647	50	125,372	41,954	4	–	9	–
1992	0	22	182	14,391	10,125	251	1,380	99,890	98	126,316	50,990	4	–	8	–
1993	0	24	198	18,269	10,305	273	1,405	104,708	74	135,233	56,906	4	–	R 9	–
1994	0	23	237	18,831	10,281	470	1,468	104,252	98	135,638	63,119	4	–	8	–
			Trillion Btu												
1960	5.6	2.7	6.6	14.4	18.2	0.1	7.7	327.3	4.6	378.9	0.0	(s)	387.3	0.1	387.4
1965	1.2	4.6	13.2	19.5	24.0	0.1	6.8	393.0	4.9	461.5	0.0	0.0	467.4	0.0	467.4
1970	0.5	10.5	3.6	37.0	41.0	0.2	8.0	489.9	2.7	582.5	0.0	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	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	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	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	0.0	665.6	0.0	665.6
1975	(s)	10.5	1.7	52.1	31.6	0.4	8.0	553.7	2.7	650.3	0.0	0.0	660.8	0.0	660.8
1976	(s)	12.1	1.9	57.8	31.7	0.6	8.9	581.9	1.8	684.6	0.0	0.0	696.6	0.0	696.6
1977	(s)	11.8	2.2	61.7	34.9	0.8	9.0	590.1	1.7	700.3	0.0	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	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	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	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	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	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	0.0	572.4	0.0	572.4
1984	0.0	11.0	0.9	65.9	33.4	1.6	8.7	478.5	0.3	589.4	0.0	0.0	600.3	0.0	600.3
1985	0.0	10.8	1.0	71.0	36.7	1.0	8.2	480.8	0.6	599.4	0.0	0.0	610.2	0.0	610.2
1986	0.0	15.3	1.3	73.1	39.9	1.0	8.0	494.6	0.2	618.1	0.0	0.0	633.4	0.0	633.4
1987	0.0	12.6	1.2	79.7	46.9	1.2	9.0	509.8	0.3	648.3	0.0	0.0	660.9	0.0	660.9
1988	0.0	19.1	1.2	80.9	48.1	1.3	8.7	528.9	0.2	669.3	0.0	0.0	688.4	0.0	688.4
1989	0.0	17.7	1.4	80.4	51.8	1.0	8.9	521.9	0.7	666.1	0.0	0.0	683.8	0.0	683.8
1990	0.0	18.7	1.1	79.6	56.6	1.0	9.2	512.7	0.6	660.8	[e] 4.0	0.0	[e] 679.5	0.0	[e] 679.5
1991	0.0	20.3	1.0	79.3	57.5	0.9	8.2	523.4	0.3	670.7	3.2	(s)	691.1	(s)	691.1
1992	0.0	22.5	0.9	83.8	57.0	0.9	8.4	524.7	0.6	676.4	3.9	(s)	698.9	(s)	698.9
1993	0.0	24.7	1.0	106.4	58.1	1.0	8.5	550.0	0.5	725.6	4.3	(s)	750.3	(s)	750.3
1994	0.0	23.3	1.2	109.7	58.2	1.7	8.9	547.6	0.6	727.9	4.8	(s)	751.2	(s)	751.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Michigan

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	16,123	0	16,123	3	316	68	0	384	181	1,254	0	0	0	–
1970	20,124	0	20,124	64	4,514	965	0	5,479	375	1,181	0	0	0	–
1971	20,508	0	20,508	70	7,079	1,686	0	8,765	388	2,134	0	0	0	–
1972	20,421	0	20,421	59	7,608	2,034	0	9,642	2,125	4,148	0	0	0	–
1973	20,513	0	20,513	62	10,646	1,395	0	12,041	2,980	4,457	0	0	0	–
1974	20,755	0	20,755	69	11,694	2,010	0	13,704	416	4,698	0	0	0	–
1975	20,914	0	20,914	57	14,136	1,538	0	15,674	7,176	1,309	0	0	0	–
1976	20,369	0	20,369	54	14,127	1,763	0	15,889	9,901	3,704	0	0	0	–
1977	21,028	0	21,028	32	14,104	1,654	0	15,758	10,231	6,915	0	0	0	–
1978	21,495	0	21,495	36	19,285	1,139	0	20,423	13,104	7,677	0	0	0	–
1979	23,134	0	23,134	38	15,089	521	0	15,610	15,139	1,192	1	0	0	–
1980	22,150	0	22,150	26	9,621	780	0	10,400	15,891	6,768	0	0	0	–
1981	23,407	0	23,407	19	5,392	639	0	6,031	17,066	5,566	0	0	0	–
1982	21,806	0	21,806	13	2,018	507	0	2,524	15,003	3,235	0	0	0	–
1983	22,872	0	22,872	13	941	456	0	1,397	16,383	2,383	0	0	0	–
1984	24,491	0	24,491	10	778	547	0	1,325	14,078	1,510	0	0	0	–
1985	25,896	0	25,896	10	522	646	0	1,168	13,452	1,272	0	0	0	–
1986	27,061	0	27,061	11	1,155	511	0	1,666	12,257	1,292	0	0	0	–
1987	30,854	0	30,854	11	1,116	406	0	1,522	14,389	1,134	0	0	0	–
1988	29,968	0	29,968	15	2,419	496	0	2,915	17,808	648	0	0	0	–
1989	29,972	0	29,972	19	2,534	457	0	2,991	21,312	-4,677	0	0	0	–
1990	29,726	0	29,726	23	1,149	339	0	1,488	21,611	R 828	0	0	0	–
1991	29,896	0	29,896	24	944	286	0	1,230	27,021	R 952	0	0	0	–
1992	28,238	0	28,238	25	833	292	0	1,125	18,849	R 976	0	0	0	–
1993	28,749	0	28,749	19	1,047	341	0	1,388	28,525	R 1,605	0	0	0	–
1994	31,106	0	31,106	18	1,114	319	0	1,433	14,144	4,955	0	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	0.0	297.4
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	0.0	420.6
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	0.0	602.8
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	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	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	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	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	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	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	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	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	(s)	0.0	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	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	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	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	0.0	749.2
1984	571.6	0.0	571.6	5.7	4.9	3.2	0.0	8.1	152.7	15.8	0.0	0.0	0.0	753.9
1985	605.8	0.0	605.8	4.7	3.3	3.8	0.0	7.0	145.5	13.3	0.0	0.0	0.0	776.2
1986	634.4	0.0	634.4	3.8	7.3	3.0	0.0	10.2	132.4	13.5	0.0	0.0	0.0	794.3
1987	713.6	0.0	713.6	4.3	7.0	2.4	0.0	9.4	155.1	11.8	0.0	0.0	0.0	894.2
1988	696.0	0.0	696.0	2.4	15.2	2.9	0.0	18.1	191.3	6.7	0.0	0.0	0.0	914.5
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	0.0	877.0
1990	661.8	0.0	661.8	5.2	7.2	2.0	0.0	9.2	230.8	R 8.6	0.0	0.0	0.0	802.3
1991	660.8	0.0	660.8	9.2	5.9	1.7	0.0	7.6	290.2	R 9.9	0.0	0.0	0.0	972.3
1992	621.0	0.0	621.0	10.3	5.2	1.7	0.0	6.9	201.3	R 10.1	0.0	0.0	0.0	846.6
1993	624.0	0.0	624.0	7.2	6.6	2.0	0.0	8.6	304.7	R 16.5	0.0	0.0	0.0	962.9
1994	679.7	0.0	679.7	7.3	7.0	1.9	0.0	8.9	151.0	50.9	0.0	0.0	0.0	925.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Minnesota

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	1,334	69,455	0	977	15	0	-3,263	–
1965	7,260	249	3,791	803	18,960	2,624	2,313	5,781	759	35,278	4,980	2,334	77,622	143	1,204	14	0	-1,370	–
1970	8,787	342	4,413	277	22,356	3,491	1,685	8,887	924	44,122	5,159	3,159	94,472	0	1,020	19	0	11,382	–
1971	7,884	351	4,435	249	23,814	3,985	1,394	9,430	1,099	45,866	4,133	3,128	97,533	1,394	1,112	18	0	18,504	–
1972	8,287	351	5,233	259	26,014	4,528	970	10,415	1,176	47,727	7,115	3,573	107,010	3,559	1,173	20	0	11,321	–
1973	9,384	361	5,991	262	26,735	5,185	872	9,816	1,046	49,154	7,038	4,102	110,201	3,270	1,235	20	0	12,234	–
1974	10,141	352	5,595	241	25,009	5,545	1,056	9,259	1,002	47,932	5,891	4,020	105,550	4,363	962	5	0	11,128	–
1975	10,120	331	4,628	215	24,369	5,629	856	9,187	1,003	48,253	4,326	4,111	102,577	9,750	1,101	4	0	6,217	–
1976	12,056	320	5,431	217	28,359	5,313	1,040	8,769	1,114	49,942	5,629	3,924	109,738	9,911	792	1	0	1,973	–
1977	14,702	293	5,310	207	26,975	5,271	913	8,304	1,119	50,914	4,487	3,924	107,424	11,163	856	1	0	-12,145	–
1978	14,374	313	5,462	241	28,693	5,093	674	7,326	1,202	52,943	4,395	4,020	110,048	11,591	2,361	3	0	-1,797	–
1979	12,954	334	5,085	217	27,020	5,644	217	8,509	1,257	50,475	2,635	3,909	104,969	11,503	2,747	3	0	7,444	–
1980	13,810	286	3,565	193	21,382	5,142	212	7,697	1,120	46,211	3,183	3,756	92,460	10,027	1,739	2	0	8,135	–
1981	13,894	266	3,890	163	18,698	4,516	149	5,956	1,074	45,024	1,576	2,206	83,252	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	2,393	86,822	10,197	1,257	4	0	21,773	–
1983	11,984	241	4,718	117	17,388	4,044	136	7,538	1,025	46,061	1,567	3,043	85,636	11,753	1,482	1	0	24,134	–
1984	13,258	256	4,669	125	18,188	7,331	272	4,983	1,093	48,051	1,109	3,146	88,967	8,328	1,963	(s)	0	33,545	–
1985	12,744	257	4,989	154	19,399	7,781	184	5,353	1,019	45,693	859	3,017	88,448	11,572	3,642	(s)	0	22,856	–
1986	11,327	245	5,480	225	18,886	7,801	124	6,280	996	45,777	1,797	3,061	90,427	11,052	7,941	0	0	16,359	–
1987	14,504	240	5,860	178	18,265	5,656	91	5,418	1,126	46,910	1,208	3,487	88,198	11,554	2,806	41	0	21,498	–
1988	17,285	284	4,897	166	19,910	5,142	153	5,621	1,086	48,877	1,277	4,551	91,681	12,288	-992	153	(s)	28,054	–
1989	18,279	300	4,923	158	19,194	4,663	324	6,088	1,114	48,553	1,071	5,194	91,282	10,926	370	247	(s)	22,861	–
1990	18,377	291	6,039	214	18,481	5,099	42	5,966	1,146	47,486	974	5,510	90,956	12,139	R NA	I NA	I NA	R 18,653	–
1991	16,993	314	5,040	188	21,227	4,978	54	6,595	1,026	49,055	1,053	R 6,001	R 95,217	12,059	R NA	NA	NA	R 19,990	–
1992	16,924	309	5,343	134	21,630	6,621	53	8,008	1,046	49,704	1,189	R 6,982	R 100,709	11,166	R NA	NA	NA	R 9,757	–
1993	18,321	328	4,793	132	21,073	9,438	60	8,926	1,065	51,332	1,251	R 6,877	R 104,947	11,986	R NA	NA	NA	R 2,088	–
1994	18,729	324	4,745	125	23,698	9,780	134	9,445	1,113	52,559	1,102	7,384	110,085	12,224	NA	NA	NA	2,790	–
			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	8.0	382.2	0.0	10.5	0.2	0.0	-11.1	699.2
1965	160.0	248.2	25.2	4.1	110.4	14.8	13.1	23.2	4.6	185.3	31.3	13.8	425.8	1.7	12.6	0.1	0.0	-4.7	843.8
1970	179.7	343.0	29.3	1.4	130.2	19.7	9.6	33.6	5.6	231.8	32.4	18.8	512.4	0.0	10.7	0.2	0.0	38.8	1,084.9
1971	155.6	352.1	29.4	1.3	138.7	22.5	7.9	35.6	6.7	240.9	26.0	18.5	527.5	15.1	11.7	0.2	0.0	63.1	1,125.3
1972	161.6	352.1	34.7	1.3	151.5	25.6	5.5	39.2	7.1	250.7	44.7	21.2	581.6	38.4	12.2	0.2	0.0	38.6	1,184.7
1973	180.7	360.5	39.8	1.3	155.7	29.3	4.9	36.8	6.3	258.2	44.2	24.4	601.0	35.7	12.8	0.2	0.0	41.7	1,232.6
1974	188.7	352.0	37.1	1.2	145.7	31.4	6.0	34.5	6.1	251.8	37.0	23.9	574.7	48.7	10.0	(s)	0.0	38.0	1,212.1
1975	191.5	331.5	30.7	1.1	141.9	31.9	4.9	34.1	6.1	253.5	27.2	24.4	555.8	107.4	11.5	(s)	0.0	21.2	1,218.9
1976	222.4	319.5	36.0	1.1	165.2	30.1	5.9	32.5	6.8	262.3	35.4	23.4	598.8	109.5	8.2	(s)	0.0	6.7	1,265.2
1977	264.9	292.5	35.2	1.0	157.1	29.8	5.2	30.5	6.8	267.5	28.2	23.4	584.8	120.2	8.9	(s)	0.0	-41.4	1,230.0
1978	255.7	312.2	36.2	1.2	167.1	28.8	3.8	26.9	7.3	278.1	27.6	24.0	601.1	126.8	24.5	(s)	0.0	-6.1	1,314.2
1979	229.5	332.6	33.7	1.1	157.4	31.9	1.2	31.3	7.6	265.1	16.6	23.3	569.4	125.1	28.4	(s)	0.0	25.4	1,310.5
1980	242.4	285.0	23.7	1.0	124.5	29.1	1.2	28.3	6.8	242.7	20.0	22.4	499.7	109.4	18.1	(s)	0.0	27.8	1,182.3
1981	244.2	265.0	25.8	0.8	108.9	25.5	0.8	21.7	6.5	236.5	9.9	13.6	450.2	112.4	10.8	0.0	0.0	52.4	1,134.8
1982	212.5	263.3	25.7	0.6	121.7	24.1	1.3	27.1	5.9	235.7	10.6	14.8	467.6	112.9	13.1	(s)	0.0	74.3	1,143.9
1983	211.2	246.3	31.3	0.6	101.3	22.9	0.8	27.2	6.2	242.0	9.9	18.5	460.6	128.2	15.6	(s)	0.0	82.3	1,144.2
1984	231.4	256.4	31.0	0.6	105.9	41.5	1.5	17.9	6.6	252.4	7.0	19.0	483.5	90.3	20.5	(s)	0.0	114.5	1,196.6
1985	226.1	258.5	33.1	0.8	113.0	44.1	1.0	19.3	6.2	240.0	5.4	18.5	481.4	125.1	38.0	(s)	0.0	78.0	1,207.2
1986	201.4	244.5	36.4	1.1	110.0	44.2	0.7	22.9	6.0	240.5	11.3	19.0	492.0	119.4	83.0	0.0	0.0	55.8	1,196.1
1987	256.0	239.8	38.9	0.9	106.4	32.0	0.5	19.8	6.8	246.4	7.6	21.2	480.5	124.5	29.2	0.4	0.0	73.4	1,203.8
1988	303.6	285.8	32.5	0.8	116.0	29.1	0.9	20.5	6.6	256.8	8.0	27.5	498.6	132.0	-10.2	1.6	(s)	95.7	1,307.1
1989	323.0	301.7	32.7	0.8	111.8	26.4	1.8	22.4	6.8	255.0	6.7	31.1	495.6	117.2	3.8	2.5	(s)	78.0	1,321.7
1990	324.3	291.7	40.1	1.1	107.7	28.9	0.2	21.6	7.0	249.4	6.1	33.0	495.1	129.6	RI 28.2	I 77.4	I 0.3	R 63.6	RI 1,384.5
1991	300.6	318.3	33.4	0.9	123.6	28.2	0.3	23.8	6.2	257.7	6.6	R 35.8	R 516.7	129.5	R 36.0	76.3	0.3	R 68.2	R 1,436.3
1992	300.1	312.2	35.5	0.7	126.0	37.5	0.3	29.0	6.3	261.1	7.5	R 41.3	R 545.1	119.2	R 62.6	81.1	0.3	R 33.3	R 1,445.4
1993	324.7	331.5	31.8	0.7	122.7	53.5	0.3	32.2	6.5	269.6	7.9	R 40.9	R 566.1	128.0	R 82.7	81.4	0.3	R 7.1	R 1,508.1
1994	332.1	327.4	31.5	0.6	138.0	55.4	0.8	34.3	6.7	278.1	6.9	43.8	594.3	130.5	59.9	83.9	0.7	9.5	1,553.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Minnesota

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	330	0	330	61	5,414	1,748	3,108	10,270	0	0	4,186	–	10,411	–
1965	216	0	216	86	6,309	1,556	4,043	11,908	0	0	6,063	–	14,476	–
1970	200	0	200	102	7,197	1,195	6,390	14,782	0	0	9,031	–	21,886	–
1971	184	0	184	102	7,834	969	6,851	15,655	0	0	9,297	–	22,477	–
1972	101	0	101	107	8,467	688	7,593	16,748	0	0	9,945	–	23,938	–
1973	92	0	92	103	8,239	635	6,920	15,794	0	0	10,009	–	23,962	–
1974	112	0	112	113	7,473	719	6,387	14,579	0	0	10,012	–	24,411	–
1975	81	0	81	114	7,242	558	6,040	13,840	0	0	10,189	–	24,578	–
1976	54	0	54	106	8,850	659	6,128	15,637	0	0	10,474	–	25,231	–
1977	40	0	40	100	8,489	572	5,668	14,728	0	0	10,368	–	25,035	–
1978	73	0	73	107	8,587	394	4,440	13,421	0	0	11,315	–	27,682	–
1979	105	0	105	112	7,165	97	3,250	10,512	0	0	11,511	–	27,780	–
1980	50	0	50	103	5,946	114	2,929	8,989	0	0	11,749	–	28,570	–
1981	46	0	46	96	4,818	115	2,666	7,599	0	0	12,281	–	29,269	–
1982	57	0	57	108	6,206	191	2,816	9,213	0	0	12,773	–	30,679	–
1983	62	0	62	98	3,131	91	3,349	6,571	0	0	13,392	–	32,085	–
1984	83	0	83	102	3,381	220	2,399	6,000	0	0	13,028	–	30,325	–
1985	77	0	77	107	3,826	137	2,400	6,363	0	0	13,261	–	31,156	–
1986	68	0	68	103	3,998	88	2,796	6,881	0	0	13,259	–	30,500	–
1987	60	0	60	90	3,887	75	2,704	6,666	0	0	13,834	–	31,609	–
1988	82	(s)	82	110	4,376	115	2,844	7,334	0	0	14,996	–	33,903	–
1989	88	(s)	88	117	4,495	270	3,124	7,888	0	0	14,778	–	33,141	–
1990	63	0	63	107	3,222	30	2,933	6,185	[o] 562	[o] 87	14,858	–	R 32,466	–
1991	33	(s)	33	117	4,098	41	3,186	7,324	592	88	15,655	–	R 34,037	–
1992	9	(s)	9	114	3,426	38	3,560	7,024	623	89	14,848	–	R 31,697	–
1993	37	(s)	38	123	3,210	36	4,379	7,624	524	89	15,597	–	R 32,940	–
1994	80	(s)	80	122	3,384	45	4,305	7,735	514	90	16,007	–	33,381	–
	Trillion Btu													
1960	7.3	0.0	7.3	63.6	31.5	9.9	12.5	53.9	0.0	0.0	14.3	139.0	35.5	174.5
1965	4.7	0.0	4.7	86.3	36.7	8.8	16.2	61.8	0.0	0.0	20.7	173.5	49.4	222.9
1970	4.2	0.0	4.2	102.0	41.9	6.8	24.1	72.8	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	45.7	177.6	109.5	287.1
1984	1.5	0.0	1.5	102.2	19.7	1.2	8.6	29.6	0.0	0.0	44.5	177.8	103.5	281.3
1985	1.5	0.0	1.5	107.1	22.3	0.8	8.6	31.7	0.0	0.0	45.2	185.5	106.3	291.8
1986	1.3	0.0	1.3	103.2	23.3	0.5	10.2	34.0	0.0	0.0	45.2	183.7	104.1	287.8
1987	1.1	0.0	1.1	89.9	22.6	0.4	9.9	33.0	0.0	0.0	47.2	171.1	107.8	278.9
1988	1.5	(s)	1.5	110.4	25.5	0.7	10.4	36.5	0.0	0.0	51.2	199.6	115.7	315.3
1989	1.7	(s)	1.7	117.6	26.2	1.5	11.5	39.2	0.0	0.0	50.4	208.9	113.1	322.0
1990	1.1	0.0	1.1	107.4	18.8	0.2	10.6	29.6	[o] 11.2	[o] 0.3	50.7	R [o] 200.3	R 110.8	R [o] 311.1
1991	0.6	(s)	0.6	118.6	23.9	0.2	11.5	35.6	11.8	0.3	53.4	R 220.3	116.1	R 336.5
1992	0.2	(s)	0.2	114.8	20.0	0.2	12.9	33.1	12.5	0.3	50.7	R 211.5	R 108.2	R 319.6
1993	0.7	(s)	0.7	124.8	18.7	0.2	15.8	34.7	10.5	0.3	53.2	R 224.2	R 112.4	R 336.5
1994	1.6	(s)	1.6	123.6	19.7	0.3	15.6	35.6	10.3	0.3	54.6	226.0	113.9	339.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[o] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
–=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Minnesota

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	401	0	401	27	1,542	337	713	158	414	3,164	2,026	–	4,838	–
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	423	633	94	4,109	7,252	–	16,880	–
1985	143	0	143	77	2,740	24	424	335	223	3,746	7,469	–	17,548	–
1986	126	0	126	74	1,077	4	493	327	307	2,209	7,625	–	17,540	–
1987	111	0	111	66	1,008	5	477	239	129	1,859	8,031	–	18,350	–
1988	152	(s)	152	80	1,102	5	502	242	296	2,147	8,601	–	19,444	–
1989	163	(s)	163	85	1,033	4	551	191	268	2,048	8,454	–	18,960	–
1990	116	0	116	78	939	5	518	1,559	263	3,284	8,813	–	R 19,257	–
1991	61	(s)	61	86	910	3	562	198	295	1,969	9,162	–	R 19,919	–
1992	16	(s)	16	82	760	7	628	117	197	1,709	9,007	–	R 19,229	–
1993	70	(s)	70	87	653	9	773	49	134	1,618	9,229	–	R 19,492	–
1994	148	(s)	149	84	903	14	760	49	161	1,887	9,698	–	20,224	–
					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
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
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	(s)	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	(s)	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	(s)	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	(s)	1.5	3.3	0.6	22.7	24.7	125.7	57.6	183.3
1985	2.7	0.0	2.7	77.3	16.0	0.1	1.5	1.8	1.4	20.8	25.5	126.3	59.9	186.2
1986	2.4	0.0	2.4	74.4	6.3	(s)	1.8	1.7	1.9	11.7	26.0	114.5	59.8	174.4
1987	2.0	0.0	2.0	65.9	5.9	(s)	1.7	1.3	0.8	9.7	27.4	105.0	62.6	167.6
1988	2.8	(s)	2.8	80.6	6.4	(s)	1.8	1.3	1.9	11.4	29.3	124.1	66.3	190.4
1989	3.1	(s)	3.1	85.7	6.0	(s)	2.0	1.0	1.7	10.8	28.8	128.5	64.7	193.1
1990	2.1	0.0	2.1	78.3	5.5	(s)	1.9	8.2	1.7	17.2	30.1	127.7	65.7	193.4
1991	1.1	(s)	1.1	86.9	5.3	(s)	2.0	1.0	1.9	10.2	31.3	129.5	R 68.0	R 197.5
1992	0.3	(s)	0.3	83.3	4.4	(s)	2.3	0.6	1.2	8.6	30.7	122.9	65.6	188.5
1993	1.3	(s)	1.3	87.6	3.8	(s)	2.8	0.3	0.8	7.7	31.5	128.1	66.5	194.6
1994	2.9	(s)	2.9	84.9	5.3	0.1	2.8	0.3	1.0	9.4	33.1	130.2	69.0	199.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Minnesota

Year	Coal	Natural Gas [a]	Petroleum								Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	2,555	49	3,004	6,062	444	841	263	4,266	5,690	1,334	21,904	156	0	0	3,095	–	7,699	–
1965	2,776	83	3,791	7,651	420	988	163	3,947	4,213	2,334	23,507	178	0	0	4,677	–	11,166	–
1970	2,020	98	4,413	7,784	231	1,275	296	3,608	3,894	3,016	24,517	168	0	0	8,506	–	20,613	–
1971	1,495	122	4,435	8,358	215	1,263	361	3,301	3,143	3,032	24,108	151	0	0	8,983	–	21,717	–
1972	1,741	105	5,233	8,874	133	1,370	386	3,579	5,408	3,472	28,455	183	0	0	9,742	–	23,450	–
1973	2,171	115	5,991	8,920	100	1,557	305	2,962	5,095	3,904	28,835	185	0	0	10,785	–	25,820	–
1974	1,757	106	5,595	8,080	182	1,638	292	2,942	4,218	3,832	26,779	182	0	0	10,691	–	26,066	–
1975	2,292	101	4,628	7,991	177	1,985	252	3,132	2,675	4,051	24,891	189	0	0	11,280	–	27,208	–
1976	1,954	120	5,431	9,451	238	1,457	280	3,416	3,765	3,924	27,961	112	0	0	12,265	–	29,544	–
1977	1,859	116	5,310	9,044	218	1,543	323	2,839	2,741	3,924	25,942	133	0	0	12,447	–	30,056	–
1978	2,047	120	5,462	9,219	195	1,974	347	2,894	2,384	4,020	26,495	177	0	0	14,784	–	36,169	–
1979	1,589	143	5,085	7,784	99	4,618	363	2,474	1,315	3,909	25,648	151	0	0	16,169	–	39,021	–
1980	1,057	101	3,565	5,708	98	4,183	324	1,336	1,818	3,756	20,789	145	0	0	15,525	–	37,752	–
1981	1,186	88	3,890	5,171	29	2,671	310	1,094	1,156	2,206	16,527	145	0	0	16,034	–	38,213	–
1982	1,134	68	3,878	5,299	36	4,054	283	2,715	1,400	2,393	20,059	145	0	0	14,269	–	34,273	–
1983	1,105	65	4,718	3,462	43	3,449	296	1,714	1,365	3,043	18,090	145	0	0	15,909	–	38,115	–
1984	1,006	70	4,669	3,739	51	1,982	316	1,413	911	3,146	16,227	145	0	0	17,995	–	41,885	–
1985	1,027	66	4,989	4,802	23	2,406	294	1,718	481	3,017	17,729	145	0	0	17,934	–	42,133	–
1986	964	58	5,480	5,664	31	2,865	288	1,590	1,456	3,061	20,436	145	0	0	17,849	–	41,058	–
1987	838	72	5,860	4,746	11	2,165	326	1,505	1,075	3,487	19,174	145	0	0	19,911	–	45,495	–
1988	792	78	4,897	5,287	34	2,202	314	1,274	968	4,387	19,362	145	0	0	22,131	–	50,033	–
1989	972	81	4,923	4,637	50	2,351	322	1,252	793	4,515	18,844	145	0	0	22,700	–	50,908	–
1990	1,283	88	6,039	4,719	7	2,458	331	1,111	710	4,782	20,158	R[f] NA	[f] NA	[f] NA	23,497	–	R 51,345	–
1991	785	92	5,040	5,612	10	2,795	296	1,442	753	R 5,039	R 20,987	R NA	NA	NA	23,938	–	R 52,046	–
1992	1,059	93	5,343	6,193	8	3,765	302	1,417	989	R 5,918	R 23,935	R NA	NA	NA	23,557	–	R 50,289	–
1993	1,370	98	4,793	5,765	16	3,674	308	1,221	1,115	R 5,800	R 22,693	R NA	NA	NA	24,384	–	R 51,498	–
1994	1,455	94	4,745	6,414	75	4,254	322	1,254	938	6,391	24,394	NA	NA	NA	25,451	–	53,077	–
			Trillion Btu															
1960	55.2	51.0	19.9	35.3	2.5	3.4	1.6	22.4	35.8	8.0	128.9	1.7	0.0	0.0	10.6	247.3	26.3	273.6
1965	60.8	82.6	25.2	44.6	2.4	4.0	1.0	20.7	26.5	13.8	138.1	1.9	0.0	0.0	16.0	299.3	38.1	337.4
1970	42.1	97.8	29.3	45.3	1.3	4.8	1.8	19.0	24.5	18.0	143.9	1.8	0.0	0.0	29.0	314.5	70.3	384.9
1971	31.5	122.3	29.4	48.7	1.2	4.8	2.2	17.3	19.8	17.9	141.3	1.6	0.0	0.0	30.6	327.3	74.1	401.4
1972	36.5	105.4	34.7	51.7	0.8	5.2	2.3	18.8	34.0	20.6	168.0	1.9	0.0	0.0	33.2	345.1	80.0	425.1
1973	48.9	114.9	39.8	52.0	0.6	5.8	1.9	15.6	32.0	23.2	170.7	1.9	0.0	0.0	36.8	373.3	88.1	461.4
1974	38.0	106.5	37.1	47.1	1.0	6.1	1.8	15.5	26.5	22.7	157.8	1.9	0.0	0.0	36.5	340.7	88.9	429.7
1975	50.8	100.8	30.7	46.5	1.0	7.4	1.5	16.5	16.8	24.1	144.5	2.0	0.0	0.0	38.5	336.5	92.8	429.3
1976	41.7	120.0	36.0	55.1	1.3	5.4	1.7	17.9	23.7	23.4	164.6	1.2	0.0	0.0	41.8	369.3	100.8	470.1
1977	38.5	115.9	35.2	52.7	1.2	5.7	2.0	14.9	17.2	23.4	152.4	1.4	0.0	0.0	42.5	350.6	102.5	453.1
1978	39.8	119.7	36.2	53.7	1.1	7.2	2.1	15.2	15.0	24.0	154.6	1.8	0.0	0.0	50.4	366.4	123.4	489.8
1979	28.6	142.7	33.7	45.3	0.6	17.0	2.2	13.0	8.3	23.3	143.4	1.6	0.0	0.0	55.2	371.5	133.1	504.6
1980	18.1	101.2	23.7	33.3	0.6	15.4	2.0	7.0	11.4	22.4	115.6	1.5	0.0	0.0	53.0	289.3	128.8	418.2
1981	21.1	87.4	25.8	30.1	0.2	9.7	1.9	5.7	7.3	13.6	94.4	1.5	0.0	0.0	54.7	259.1	130.4	389.5
1982	19.0	68.5	25.7	30.9	0.2	14.7	1.7	14.3	8.8	14.8	111.0	1.5	0.0	0.0	48.7	248.7	116.9	365.7
1983	18.6	66.7	31.3	20.2	0.2	12.5	1.8	9.0	8.6	18.5	102.1	1.5	0.0	0.0	54.3	243.2	130.0	373.2
1984	18.5	70.2	31.0	21.8	0.3	7.1	1.9	7.4	5.7	19.0	94.2	1.5	0.0	0.0	61.4	245.8	142.9	388.7
1985	21.3	66.6	33.1	28.0	0.1	8.7	1.8	9.0	3.0	18.5	102.3	1.5	0.0	0.0	61.2	252.8	143.8	396.5
1986	20.2	57.8	36.4	33.0	0.2	10.4	1.7	8.4	9.2	19.0	118.2	1.5	0.0	0.0	60.9	258.6	140.1	398.7
1987	17.0	71.9	38.9	27.6	0.1	7.9	2.0	7.9	6.8	21.2	112.3	1.5	0.0	0.0	67.9	270.6	155.2	425.9
1988	15.2	78.3	32.5	30.8	0.2	8.0	1.9	6.7	6.1	26.5	112.7	1.5	0.0	0.0	75.5	283.1	170.7	453.8
1989	19.0	82.0	32.7	27.0	0.3	8.7	2.0	6.6	5.0	27.0	109.2	1.5	0.0	0.0	77.5	289.1	173.7	462.8
1990	23.8	88.7	40.1	27.5	(s)	8.9	2.0	5.8	4.5	28.6	117.5	R[f] 2.7	[f] 54.1	[f] 0.0	80.2	R[f] 366.9	R 175.2	R[f] 542.1
1991	15.2	93.4	33.4	32.7	0.1	10.1	1.8	7.6	4.7	R 30.0	R 120.4	R 2.7	53.9	0.0	81.7	R 367.2	R 177.6	R 544.8
1992	19.6	94.1	35.5	36.1	(s)	13.6	1.8	7.4	6.2	R 34.9	R 135.6	R 3.2	56.7	0.0	80.4	R 389.5	R 171.6	R 561.1
1993	24.9	98.9	31.8	33.6	0.1	13.2	1.9	6.4	7.0	R 34.4	R 128.4	R 3.3	58.0	0.0	83.2	R 396.6	R 175.7	R 572.3
1994	26.9	95.5	31.5	37.4	0.4	15.5	2.0	6.6	5.9	37.9	137.0	3.2	59.8	0.4	86.8	409.7	181.1	590.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Minnesota

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	45	(s)	1,199	3,194	472	27	697	28,176	95	33,860	0	0	–	0	–
1965	9	1	803	3,276	2,624	37	596	31,173	75	38,584	0	0	–	0	–
1970	3	7	277	5,064	3,491	95	628	40,279	29	49,863	0	0	–	0	–
1971	2	8	249	5,120	3,985	107	738	42,320	4	52,522	0	0	–	0	–
1972	2	7	259	5,480	4,528	112	790	43,892	116	55,176	0	0	–	0	–
1973	2	5	262	6,548	5,185	117	741	45,905	406	59,164	0	0	–	0	–
1974	1	4	241	6,680	5,545	107	709	44,692	488	58,463	0	0	–	0	–
1975	(s)	4	215	6,691	5,629	97	752	44,766	577	58,726	0	0	–	0	–
1976	(s)	4	217	7,017	5,313	103	835	46,179	468	60,132	0	0	–	0	–
1977	(s)	4	207	6,768	5,271	93	796	47,705	167	61,006	0	0	–	0	–
1978	0	4	241	7,876	5,091	129	854	49,631	450	64,273	0	0	–	0	–
1979	0	11	217	9,862	5,644	67	894	47,561	409	64,655	0	0	–	0	–
1980	0	9	193	8,117	5,142	68	796	44,535	971	59,822	0	0	–	0	–
1981	0	10	163	7,794	4,516	149	763	43,578	270	57,235	0	0	–	0	–
1982	0	9	119	8,318	4,261	125	696	41,800	80	55,398	0	0	–	0	–
1983	0	4	117	7,976	4,044	148	729	43,996	49	57,059	0	0	–	0	–
1984	0	7	125	8,057	7,331	178	777	46,004	101	62,575	0	0	–	0	–
1985	0	6	154	7,982	7,781	123	724	43,640	155	60,560	0	0	–	0	–
1986	0	7	225	8,087	7,801	126	708	43,860	34	60,842	0	0	–	0	–
1987	0	6	178	8,522	5,656	72	801	45,165	4	60,397	0	0	–	0	–
1988	0	11	166	9,015	5,142	74	772	47,361	7	62,538	0	0	–	0	–
1989	0	12	158	8,949	4,663	61	792	47,110	2	61,735	0	0	–	0	–
1990	0	12	214	9,509	5,099	57	815	44,816	0	60,510	[e] 105,049	0	–	0	–
1991	0	13	188	10,518	4,978	52	729	47,415	3	63,882	83,271	0	–	0	–
1992	0	15	134	11,190	6,621	54	743	48,170	3	66,914	101,206	0	–	0	–
1993	0	16	132	11,355	9,438	99	757	50,061	(s)	71,843	112,948	0	–	0	–
1994	0	17	125	12,889	9,780	126	791	51,255	2	74,969	125,280	0	–	0	–
			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	0.0	181.4	0.0	181.4
1965	0.2	1.2	4.1	19.1	14.8	0.1	3.6	163.8	0.5	205.9	0.0	0.0	207.3	0.0	207.3
1970	0.1	7.5	1.4	29.5	19.7	0.4	3.8	211.6	0.2	266.6	0.0	0.0	274.1	0.0	274.1
1971	(s)	7.9	1.3	29.8	22.5	0.4	4.5	222.3	(s)	280.8	0.0	0.0	288.7	0.0	288.7
1972	(s)	7.5	1.3	31.9	25.6	0.4	4.8	230.6	0.7	295.3	0.0	0.0	302.9	0.0	302.9
1973	(s)	5.4	1.3	38.1	29.3	0.4	4.5	241.1	2.6	317.4	0.0	0.0	322.9	0.0	322.9
1974	(s)	3.6	1.2	38.9	31.4	0.4	4.3	234.8	3.1	314.0	0.0	0.0	317.7	0.0	317.7
1975	(s)	3.9	1.1	39.0	31.9	0.4	4.6	235.2	3.6	315.6	0.0	0.0	319.5	0.0	319.5
1976	(s)	3.9	1.1	40.9	30.1	0.4	5.1	242.6	2.9	323.0	0.0	0.0	326.9	0.0	326.9
1977	(s)	3.6	1.0	39.4	29.8	0.3	4.8	250.6	1.1	327.1	0.0	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	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	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	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	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	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	0.0	310.8	0.0	310.8
1984	0.0	6.6	0.6	46.9	41.5	0.6	4.7	241.7	0.6	336.7	0.0	0.0	343.3	0.0	343.3
1985	0.0	6.3	0.8	46.5	44.1	0.4	4.4	229.2	1.0	326.4	0.0	0.0	332.7	0.0	332.7
1986	0.0	7.4	1.1	47.1	44.2	0.5	4.3	230.4	0.2	327.8	0.0	0.0	335.2	0.0	335.2
1987	0.0	6.5	0.9	49.6	32.0	0.3	4.9	237.3	(s)	325.0	0.0	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	(s)	336.2	0.0	0.0	347.6	0.0	347.6
1989	0.0	12.0	0.8	52.1	26.4	0.2	4.8	247.5	(s)	331.8	0.0	0.0	343.8	0.0	343.8
1990	0.0	12.1	1.1	55.4	28.9	0.2	4.9	235.4	0.0	325.9	[e] 8.0	0.0	[e] 338.0	0.0	[e] 338.0
1991	0.0	13.5	0.9	61.3	28.2	0.2	4.4	249.1	(s)	344.1	6.4	0.0	357.6	0.0	357.6
1992	0.0	15.1	0.7	65.2	37.5	0.2	4.5	253.0	(s)	361.1	7.7	0.0	376.2	0.0	376.2
1993	0.0	16.4	0.7	66.1	53.5	0.4	4.6	263.0	(s)	388.2	8.6	0.0	404.6	0.0	404.6
1994	0.0	17.5	0.6	75.1	55.4	0.5	4.8	269.2	(s)	405.6	9.6	0.0	423.2	0.0	423.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

–=Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Minnesota

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	2,433	0	2,433	49	239	156	0	395	0	822	15	0	0	–
1965	3,857	0	3,857	51	278	182	0	460	143	1,026	14	0	0	–
1970	6,192	0	6,192	59	842	551	143	1,537	0	853	19	0	0	–
1971	5,860	0	5,860	43	666	587	96	1,349	1,394	961	18	0	0	–
1972	6,255	0	6,255	52	985	1,123	101	2,209	3,559	990	20	0	0	–
1973	6,949	0	6,949	58	988	1,014	199	2,200	3,270	1,050	20	0	0	–
1974	8,065	0	8,065	38	716	950	187	1,853	4,363	780	5	0	0	–
1975	7,595	0	7,595	23	851	674	59	1,584	9,750	913	4	0	0	–
1976	9,947	0	9,947	13	1,046	878	0	1,924	9,911	680	1	0	0	–
1977	12,727	0	12,727	5	1,305	599	0	1,904	11,163	723	1	0	0	–
1978	12,117	0	12,117	2	1,320	914	0	2,233	11,591	2,184	3	0	0	–
1979	11,066	0	11,066	7	795	458	0	1,253	11,503	2,596	3	0	0	–
1980	12,610	0	12,610	8	361	167	0	529	10,027	1,594	2	0	0	–
1981	12,576	0	12,576	6	130	80	0	210	10,187	884	0	0	0	–
1982	10,818	0	10,818	3	40	89	0	129	10,197	1,112	4	0	0	–
1983	10,703	0	10,703	3	12	81	0	93	11,753	1,337	1	0	0	–
1984	12,015	0	12,015	2	3	54	0	57	8,328	1,818	(s)	0	0	–
1985	11,498	0	11,498	1	(s)	49	0	49	11,572	3,497	(s)	0	0	–
1986	10,170	0	10,170	2	0	60	0	60	11,052	7,796	0	0	0	–
1987	13,495	0	13,495	6	(s)	101	0	101	11,554	2,662	41	0	0	–
1988	16,259	0	16,259	5	6	131	164	301	12,288	-1,137	153	0	(s)	–
1989	17,056	0	17,056	4	9	81	678	768	10,926	226	247	0	(s)	–
1990	16,916	0	16,916	5	1	91	727	820	12,139	R 2,472	398	0	(s)	–
1991	16,114	0	16,114	6	2	90	962	1,054	12,059	R 3,219	402	0	(s)	–
1992	15,841	0	15,841	5	(s)	62	1,064	1,127	11,166	R 5,769	407	0	(s)	–
1993	16,844	0	16,844	4	1	90	1,077	1,168	11,988	R 7,723	414	0	(s)	–
1994	17,046	0	17,046	6	0	108	993	1,101	12,224	5,517	414	0	(s)	–
	Trillion Btu													
1960	54.5	0.0	54.5	50.2	1.5	0.9	0.0	2.4	0.0	8.8	0.2	0.0	0.0	116.1
1965	85.5	0.0	85.5	51.3	1.7	1.1	0.0	2.8	1.7	10.7	0.1	0.0	0.0	152.2
1970	125.5	0.0	125.5	59.1	5.3	3.2	0.9	9.4	0.0	8.9	0.2	0.0	0.0	203.1
1971	113.0	0.0	113.0	42.9	4.2	3.4	0.6	8.2	15.1	10.1	0.2	0.0	0.0	189.4
1972	119.0	0.0	119.0	51.6	6.2	6.5	0.6	13.3	38.4	10.3	0.2	0.0	0.0	232.8
1973	126.3	0.0	126.3	57.2	6.2	5.9	1.2	13.3	35.7	10.9	0.2	0.0	0.0	243.6
1974	144.0	0.0	144.0	38.0	4.5	5.5	1.1	11.2	48.7	8.1	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	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	(s)	0.0	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	(s)	0.0	0.0	334.9
1984	208.5	0.0	208.5	2.0	(s)	0.3	0.0	0.3	90.3	19.0	(s)	0.0	0.0	320.1
1985	200.6	0.0	200.6	1.3	(s)	0.3	0.0	0.3	125.1	36.5	(s)	0.0	0.0	363.9
1986	177.5	0.0	177.5	1.7	0.0	0.3	0.0	0.3	119.4	81.4	0.0	0.0	0.0	380.3
1987	235.9	0.0	235.9	5.7	(s)	0.6	0.0	0.6	124.5	27.7	0.4	0.0	0.0	394.9
1988	284.2	0.0	284.2	5.2	(s)	0.8	1.0	1.8	132.0	-11.7	1.6	0.0	(s)	413.0
1989	299.1	0.0	299.1	4.4	0.1	0.5	4.1	4.6	117.2	2.3	2.5	0.0	(s)	430.2
1990	297.3	0.0	297.3	5.2	(s)	0.5	4.4	4.9	129.6	R 25.5	4.1	0.0	(s)	449.0
1991	283.7	0.0	283.7	5.9	(s)	0.5	5.8	6.3	129.5	R 33.3	4.2	0.0	(s)	459.8
1992	280.0	0.0	280.0	4.9	(s)	0.4	6.4	6.8	119.2	R 59.4	4.2	0.0	(s)	473.8
1993	297.9	0.0	297.9	3.9	(s)	0.5	6.5	7.0	128.0	R 79.4	4.3	0.0	(s)	515.4
1994	300.7	0.0	300.7	5.9	0.0	0.6	6.0	6.6	130.5	56.7	4.3	0.0	(s)	529.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Mississippi

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	444	26,633	0	0	0	0	8,132	–
1965	40	244	1,144	463	2,796	1,460	346	4,720	469	18,539	489	2,404	32,831	0	0	0	0	14,061	–
1970	549	360	1,748	318	5,991	1,614	2,646	8,645	525	24,316	703	4,986	51,491	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	5,106	54,453	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	5,375	61,985	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	4,920	68,976	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	4,774	69,691	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	5,185	69,473	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	5,152	76,513	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	5,147	86,077	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	5,505	91,402	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	5,279	79,821	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	5,276	68,078	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	3,275	63,696	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	3,255	57,526	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	4,352	56,801	0	0	0	0	38,043	–
1984	4,297	269	3,561	121	13,999	2,334	535	4,524	640	26,900	2,134	4,713	59,460	165	0	0	0	34,561	–
1985	4,519	227	2,054	108	15,914	4,111	86	4,672	596	27,580	1,319	4,160	60,598	4,332	0	0	0	25,490	–
1986	4,454	215	1,904	137	14,818	4,914	85	3,663	583	28,549	4,461	R 4,400	R 63,514	4,087	0	0	0	27,371	–
1987	4,846	209	2,174	113	16,743	7,657	78	3,694	659	29,241	2,051	R 5,122	R 67,533	7,717	0	0	0	18,313	–
1988	5,136	213	2,627	129	19,020	8,006	88	3,927	636	29,517	3,547	R 6,144	R 73,641	9,582	0	0	0	13,179	–
1989	3,831	226	1,975	153	17,112	6,567	65	4,915	652	29,009	3,569	R 6,264	R 70,281	7,826	0	0	0	28,858	–
1990	4,159	254	2,509	132	16,133	6,922	53	7,093	671	28,913	3,692	R 6,335	R 72,453	7,422	R NA	I NA	I NA	R 28,471	–
1991	3,812	250	2,531	110	15,450	8,080	61	6,103	600	29,785	4,778	R 6,246	R 73,744	9,133	R NA	NA	NA	R 29,799	–
1992	3,485	239	2,171	94	15,313	11,006	38	6,203	612	30,542	3,433	R 7,437	R 76,849	8,174	R NA	NA	NA	R 37,355	–
1993	4,030	230	1,945	85	14,691	8,328	66	R 6,214	623	31,897	8,999	R 6,948	R 79,796	7,904	R NA	NA	NA	R 33,998	–
1994	4,285	269	2,110	72	15,486	6,750	51	6,505	651	32,880	5,444	6,563	76,513	9,615	NA	NA	NA	28,062	–
			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	2.7	138.3	0.0	0.0	0.0	0.0	27.7	354.7
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
1970	13.2	369.4	11.6	1.6	34.9	8.7	15.0	32.7	3.2	127.7	4.4	29.9	269.8	0.0	0.0	0.0	0.0	58.3	710.7
1971	13.5	387.8	16.3	1.7	42.1	9.0	11.4	32.6	3.2	133.3	7.1	30.6	287.2	0.0	0.0	0.0	0.0	63.3	751.8
1972	14.0	387.4	18.7	1.7	44.3	8.7	12.4	36.3	3.5	144.7	27.0	32.2	329.4	0.0	0.0	0.0	0.0	67.0	797.8
1973	29.5	321.5	21.5	1.7	53.6	8.2	21.3	35.3	4.1	148.4	48.2	29.5	371.8	0.0	0.0	0.0	0.0	95.6	818.3
1974	34.6	283.1	20.2	1.2	57.2	8.4	9.3	33.8	3.9	148.0	67.6	28.6	378.2	0.0	0.0	0.0	0.0	90.8	786.7
1975	33.4	235.3	17.2	1.0	57.4	8.0	8.1	30.4	4.1	146.1	75.8	31.1	379.3	0.0	0.0	0.0	0.0	95.2	743.2
1976	42.5	203.7	15.6	0.9	69.9	7.8	7.0	32.1	4.6	152.1	99.3	30.9	420.2	0.0	0.0	0.0	0.0	78.3	744.7
1977	38.7	202.6	14.6	0.8	82.7	8.2	10.1	33.6	4.0	160.6	130.3	30.8	475.7	0.0	0.0	0.0	0.0	66.0	782.9
1978	41.0	208.0	17.6	0.7	90.3	7.4	12.4	30.1	4.3	161.6	153.1	33.0	510.6	0.0	0.0	0.0	0.0	52.9	812.5
1979	59.8	260.5	18.1	0.6	64.3	7.9	4.2	22.0	4.5	154.6	140.5	31.6	448.2	0.0	0.0	0.0	0.0	69.8	838.3
1980	75.0	270.9	13.5	1.0	56.2	8.3	1.4	20.9	4.0	140.7	100.7	31.6	378.3	0.0	0.0	0.0	0.0	69.6	793.8
1981	82.9	249.1	11.7	0.7	78.3	9.5	0.6	16.5	3.8	145.3	65.4	20.5	352.4	0.0	0.0	0.0	0.0	95.7	780.1
1982	100.5	276.7	11.4	0.5	68.9	18.5	1.9	16.2	3.5	138.9	34.3	20.3	314.4	0.0	0.0	0.0	0.0	81.0	772.5
1983	96.1	244.3	11.3	0.6	76.6	16.4	2.0	16.3	3.6	140.2	14.8	26.6	308.5	0.0	0.0	0.0	0.0	129.8	778.7
1984	103.9	276.6	23.6	0.6	81.5	12.8	3.0	16.3	3.9	141.3	13.4	28.6	325.1	1.8	0.0	0.0	0.0	117.9	825.4
1985	109.4	233.0	13.6	0.5	92.7	22.9	0.5	16.8	3.6	144.9	8.3	25.8	329.7	46.8	0.0	0.0	0.0	87.0	805.9
1986	108.8	220.2	12.6	0.7	86.3	27.5	0.5	13.3	3.5	150.0	28.0	R 27.4	R 349.9	44.1	0.0	0.0	0.0	93.4	R 816.4
1987	122.4	212.3	14.4	0.6	87.5	43.1	0.4	13.5	4.0	153.6	12.9	R 31.2	R 371.2	83.2	0.0	0.0	0.0	62.5	R 851.6
1988	129.6	216.4	17.4	0.7	110.8	45.0	0.5	14.3	3.9	155.1	22.3	R 37.1	R 407.0	102.9	0.0	0.0	0.0	45.0	R 900.9
1989	96.4	232.4	13.1	0.8	99.7	36.9	0.4	18.1	4.0	152.4	22.4	R 37.4	R 385.2	83.9	0.0	0.0	0.0	98.5	R 896.4
1990	103.8	261.9	16.7	0.7	94.0	39.0	0.3	25.7	4.1	151.9	23.2	R 37.8	R 393.3	79.3	I 0.0	I 70.5	I (s)	97.1	R I 1,005.7
1991	95.3	257.0	16.8	0.6	90.0	45.5	0.3	22.1	3.6	156.5	30.0	R 37.3	R 402.7	98.1	0.0	70.8	(s)	R 101.7	R 1,025.3
1992	86.8	250.7	14.4	0.5	89.2	62.2	0.2	22.5	3.7	160.4	21.6	R 43.9	R 418.6	87.3	0.0	74.5	(s)	R 127.5	R 1,045.1
1993	99.3	235.2	12.9	0.4	85.6	47.0	0.4	R 22.4	3.8	167.6	56.6	R 41.3	R 437.9	84.4	0.0	72.2	(s)	R 116.0	R 1,044.8
1994	97.3	277.9	14.0	0.4	90.2	38.2	0.3	23.6	4.0	172.7	34.2	38.8	416.4	102.6	0.0	72.8	(s)	95.7	1,062.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Mississippi

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	0	0	0	24	23	13	2,450	2,486	0	0	2,089	–	5,196	–
1965	0	0	0	24	32	27	2,865	2,923	0	0	3,705	–	8,847	–
1970	0	0	0	37	89	75	5,129	5,293	0	0	6,880	–	16,673	–
1971	0	0	0	40	93	60	5,123	5,276	0	0	7,416	–	17,930	–
1972	0	0	0	39	124	71	5,595	5,791	0	0	8,349	–	20,096	–
1973	0	0	0	31	146	191	5,339	5,676	0	0	9,386	–	22,470	–
1974	0	0	0	29	166	150	4,980	5,297	0	0	9,094	–	22,174	–
1975	0	0	0	30	196	127	4,231	4,554	0	0	8,091	–	19,517	–
1976	0	0	0	27	250	106	4,381	4,737	0	0	8,233	–	19,833	–
1977	0	0	0	26	307	146	4,590	5,044	0	0	8,979	–	21,682	–
1978	1	0	1	30	319	191	4,196	4,707	0	0	9,362	–	22,904	–
1979	1	0	1	37	146	10	2,263	2,420	0	0	9,103	–	21,969	–
1980	1	0	1	29	7	44	2,201	2,252	0	0	9,964	–	24,229	–
1981	0	0	0	28	2	29	2,091	2,122	0	0	9,611	–	22,906	–
1982	0	0	0	28	0	51	1,989	2,040	0	0	9,677	–	23,242	–
1983	2	0	2	28	5	112	2,366	2,482	0	0	9,659	–	23,140	–
1984	1	0	1	29	4	180	1,604	1,789	0	0	10,124	–	23,566	–
1985	(s)	0	(s)	26	2	27	1,915	1,943	0	0	10,447	–	24,545	–
1986	1	0	1	25	3	38	1,696	1,737	0	0	10,868	–	25,000	–
1987	2	0	2	27	16	28	2,006	2,050	0	0	11,129	–	25,428	–
1988	5	0	5	27	4	28	2,081	2,113	0	0	11,415	–	25,806	–
1989	1	(s)	1	26	7	23	2,271	2,300	0	0	11,516	–	25,827	–
1990	(s)	0	(s)	25	1	12	2,158	2,171	[e] 458	[e] 1	12,266	–	R 26,803	–
1991	0	(s)	(s)	26	2	23	1,862	1,887	482	1	12,518	–	R 27,216	–
1992	0	(s)	(s)	26	1	14	1,744	1,759	507	1	12,422	–	R 26,519	–
1993	0	(s)	(s)	28	3	25	2,200	2,227	379	1	13,200	–	R 27,877	–
1994	0	0	0	27	1	20	2,161	2,182	372	2	13,642	–	28,449	–
	Trillion Btu													
1960	0.0	0.0	0.0	24.9	0.1	0.1	9.8	10.0	0.0	0.0	7.1	42.0	17.7	59.8
1965	0.0	0.0	0.0	24.8	0.2	0.2	11.5	11.8	0.0	0.0	12.6	49.3	30.2	79.5
1970	0.0	0.0	0.0	37.6	0.5	0.4	19.4	20.3	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	30.6	76.8	74.0	150.7
1978	(s)	0.0	(s)	31.1	1.9	1.1	15.4	18.3	0.0	0.0	31.9	81.4	78.1	159.6
1979	(s)	0.0	(s)	38.1	0.9	0.1	8.3	9.2	0.0	0.0	31.1	78.4	75.0	153.4
1980	(s)	0.0	(s)	30.5	(s)	0.2	8.1	8.4	0.0	0.0	34.0	72.9	82.7	155.6
1981	0.0	0.0	0.0	29.1	(s)	0.2	7.6	7.8	0.0	0.0	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	0.0	0.0	33.0	68.9	79.3	148.2
1983	0.1	0.0	0.1	28.3	(s)	0.6	8.6	9.2	0.0	0.0	33.0	70.5	79.0	149.5
1984	(s)	0.0	(s)	29.6	(s)	1.0	5.8	6.8	0.0	0.0	34.5	71.0	80.4	151.4
1985	(s)	0.0	(s)	26.3	(s)	0.2	6.9	7.1	0.0	0.0	35.6	69.1	83.7	152.8
1986	(s)	0.0	(s)	25.8	(s)	0.2	6.2	6.4	0.0	0.0	37.1	69.3	85.3	154.6
1987	(s)	0.0	(s)	27.0	0.1	0.2	7.3	7.6	0.0	0.0	38.0	72.6	86.8	159.4
1988	0.1	0.0	0.1	27.3	(s)	0.2	7.6	7.8	0.0	0.0	38.9	74.1	88.0	162.2
1989	(s)	(s)	(s)	27.1	(s)	0.1	8.4	8.5	0.0	0.0	39.3	75.0	88.1	163.1
1990	(s)	0.0	(s)	25.8	(s)	0.1	7.8	7.9	[e] 9.2	[e] (s)	41.9	R [e] 84.7	R 91.5	R [e] 176.2
1991	0.0	(s)	(s)	26.5	(s)	0.1	6.7	6.9	9.6	(s)	42.7	R 85.8	R 92.9	R 178.6
1992	0.0	(s)	(s)	27.9	(s)	0.1	6.3	6.4	10.1	(s)	42.4	R 86.8	R 90.5	R 177.3
1993	0.0	(s)	(s)	29.0	(s)	0.1	7.9	8.1	7.6	(s)	45.0	R 89.7	95.1	R 184.8
1994	0.0	0.0	0.0	27.9	(s)	0.1	7.9	8.0	7.4	(s)	46.5	89.9	97.1	187.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Mississippi

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	0	0	0	12	39	0	506	88	33	665	1,968	–	4,700	–
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	283	152	0	1,430	5,864	–	13,649	–
1985	1	0	1	17	1,067	39	338	134	11	1,589	6,131	–	14,405	–
1986	1	0	1	17	442	19	299	217	91	1,067	6,335	–	14,572	–
1987	3	0	3	18	795	6	354	209	23	1,388	6,374	–	14,564	–
1988	8	0	8	18	600	4	367	187	16	1,174	6,550	–	14,808	–
1989	1	(s)	1	18	855	5	401	160	13	1,434	7,101	–	15,924	–
1990	(s)	0	(s)	18	589	6	381	164	0	1,140	7,407	–	R 16,186	–
1991	0	(s)	(s)	18	607	6	329	81	1	1,024	7,478	–	R 16,258	–
1992	0	(s)	(s)	18	511	9	308	172	(s)	1,000	7,328	–	R 15,644	–
1993	0	(s)	(s)	19	329	6	388	49	0	773	7,320	–	R 15,460	–
1994	0	0	0	19	432	3	381	149	0	966	7,729	–	16,118	–
	Trillion Btu													
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
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
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	(s)	0.0	(s)	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	(s)	0.0	(s)	18.4	5.1	0.7	1.0	0.8	0.0	7.6	20.0	46.0	46.6	92.6
1985	(s)	0.0	(s)	17.0	6.2	0.2	1.2	0.7	0.1	8.4	20.9	46.4	49.1	95.5
1986	(s)	0.0	(s)	17.3	2.6	0.1	1.1	1.1	0.6	5.5	21.6	44.4	49.7	94.1
1987	0.1	0.0	0.1	18.2	4.6	(s)	1.3	1.1	0.1	7.2	21.7	47.2	49.7	96.9
1988	0.2	0.0	0.2	18.4	3.5	(s)	1.3	1.0	0.1	5.9	22.3	46.9	50.5	97.4
1989	(s)	(s)	(s)	18.1	5.0	(s)	1.5	0.8	0.1	7.4	24.2	49.8	54.3	104.1
1990	(s)	0.0	(s)	18.1	3.4	(s)	1.4	0.9	0.0	5.7	25.3	49.1	55.2	104.3
1991	0.0	(s)	(s)	18.3	3.5	(s)	1.2	0.4	(s)	5.2	25.5	49.0	55.5	R 104.5
1992	0.0	(s)	(s)	18.9	3.0	(s)	1.1	0.9	(s)	5.0	25.0	48.9	53.4	102.3
1993	0.0	(s)	(s)	19.6	1.9	(s)	1.4	0.3	0.0	3.6	25.0	48.2	52.7	101.0
1994	0.0	0.0	0.0	19.8	2.5	(s)	1.4	0.8	0.0	4.7	26.4	50.9	55.0	105.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Mississippi

Year	Coal	Natural Gas [a]	Petroleum								Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	21	77	762	1,441	385	1,118	99	738	218	444	5,206	0	0	0	2,004	–	4,985	–
1965	31	105	1,144	1,590	319	1,117	157	610	149	2,404	7,490	0	0	0	3,517	–	8,398	–
1970	48	141	1,748	3,100	2,571	2,139	242	311	240	4,986	15,335	0	0	0	5,101	–	12,361	–
1971	54	149	2,450	3,332	1,944	2,089	211	308	107	5,106	15,547	0	0	0	5,474	–	13,233	–
1972	54	155	2,819	3,246	2,114	2,516	226	263	726	5,375	17,285	0	0	0	5,594	–	13,465	–
1973	49	141	3,244	3,686	3,565	2,598	363	302	968	4,920	19,645	0	0	0	5,797	–	13,877	–
1974	49	129	3,041	3,966	1,491	2,696	348	218	743	4,774	17,275	0	0	0	5,880	–	14,337	–
1975	24	107	2,589	4,455	1,307	2,739	374	218	778	5,185	17,645	0	0	0	6,814	–	16,437	–
1976	114	89	2,354	5,501	1,126	2,972	415	203	902	5,152	18,626	0	0	0	7,534	–	18,149	–
1977	108	82	2,201	6,851	1,628	3,179	340	181	1,171	5,147	20,699	0	0	0	7,939	–	19,171	–
1978	73	77	2,647	7,513	2,002	2,658	366	161	1,083	5,505	21,935	0	0	0	8,154	–	19,949	–
1979	69	84	2,726	4,776	730	3,301	383	140	3,574	5,279	20,909	0	0	0	8,221	–	19,840	–
1980	53	79	2,036	3,527	198	2,952	341	73	2,172	5,276	16,574	0	0	0	8,184	–	19,901	–
1981	112	80	1,770	6,387	57	1,898	327	73	1,781	3,275	15,567	0	0	0	7,928	–	18,894	–
1982	103	104	1,718	4,878	152	1,881	298	0	2,656	3,255	14,838	0	0	0	7,374	–	17,711	–
1983	153	115	1,704	4,934	145	1,416	312	0	425	4,352	13,287	0	0	0	8,052	–	19,290	–
1984	219	127	3,561	4,845	239	2,346	333	448	284	4,713	16,769	0	0	0	9,015	–	20,982	–
1985	251	105	2,054	5,392	20	2,187	310	751	89	4,160	14,963	0	0	0	9,147	–	21,490	–
1986	244	96	1,904	4,469	29	1,476	303	628	1,233	R4,400	R14,442	0	0	0	9,329	–	21,459	–
1987	280	91	2,174	5,531	44	1,176	343	628	64	R5,122	R15,081	0	0	0	9,683	–	22,125	–
1988	264	100	2,627	5,508	57	1,344	330	634	672	R6,144	R17,316	0	0	0	10,115	–	22,868	–
1989	263	103	1,975	4,977	37	2,131	339	562	1,075	R6,264	R17,361	0	0	0	10,958	–	24,574	–
1990	271	108	2,509	5,667	35	4,422	349	574	960	R6,335	R20,850	Rf NA	f NA	f NA	12,454	–	R27,215	–
1991	242	109	2,531	4,830	33	3,803	312	669	238	R6,246	R18,661	R NA	NA	NA	13,024	–	R28,317	–
1992	247	108	2,171	4,344	15	4,059	318	638	192	R7,437	R19,174	R NA	NA	NA	R13,491	–	R28,800	–
1993	263	105	1,945	3,756	35	R3,521	324	383	258	R6,948	R17,170	R NA	NA	NA	14,229	–	R30,051	–
1994	296	100	2,110	4,128	29	3,805	339	418	173	6,563	17,566	NA	NA	NA	15,256	–	31,816	–
			Trillion Btu															
1960	0.5	79.3	5.1	8.4	2.2	4.5	0.6	3.9	1.4	2.7	28.6	0.0	0.0	0.0	6.8	115.3	17.0	132.3
1965	0.8	108.5	7.6	9.3	1.8	4.5	1.0	3.2	0.9	14.4	42.7	0.0	0.0	0.0	12.0	163.9	28.7	192.6
1970	1.2	144.4	11.6	18.1	14.6	8.1	1.5	1.6	1.5	29.9	86.9	0.0	0.0	0.0	17.4	249.8	42.2	292.0
1971	1.3	152.3	16.3	19.4	11.0	7.9	1.3	1.6	0.7	30.6	88.7	0.0	0.0	0.0	18.7	261.0	45.2	306.2
1972	1.3	158.4	18.7	18.9	12.0	9.5	1.4	1.4	4.6	32.2	98.6	0.0	0.0	0.0	19.1	277.3	45.9	323.2
1973	1.2	144.4	21.5	21.5	20.2	9.7	2.2	1.6	6.1	29.5	112.3	0.0	0.0	0.0	19.8	277.6	47.3	324.9
1974	1.2	132.2	20.2	23.1	8.5	10.1	2.1	1.1	4.7	28.6	98.3	0.0	0.0	0.0	20.1	251.7	48.9	300.6
1975	0.6	109.1	17.2	26.0	7.4	10.2	2.3	1.1	4.9	31.1	100.1	0.0	0.0	0.0	23.3	233.0	56.1	289.1
1976	2.7	91.2	15.6	32.0	6.4	11.0	2.5	1.1	5.7	30.9	105.2	0.0	0.0	0.0	25.7	224.8	61.9	286.7
1977	2.5	84.6	14.6	39.9	9.2	11.7	2.1	1.0	7.4	30.8	116.7	0.0	0.0	0.0	27.1	230.8	65.4	296.2
1978	1.7	79.0	17.6	43.8	11.3	9.8	2.2	0.8	6.8	33.0	125.3	0.0	0.0	0.0	27.8	233.8	68.1	301.8
1979	1.6	86.4	18.1	27.8	4.1	12.1	2.3	0.7	22.5	31.6	119.3	0.0	0.0	0.0	28.1	235.3	67.7	303.0
1980	1.2	81.5	13.5	20.5	1.1	10.8	2.1	0.4	13.7	31.6	93.7	0.0	0.0	0.0	27.9	204.4	67.9	272.3
1981	2.6	82.6	11.7	37.2	0.3	6.9	2.0	0.4	11.2	20.5	90.3	0.0	0.0	0.0	27.0	202.5	64.5	266.9
1982	2.5	107.4	11.4	28.4	0.9	6.8	1.8	0.0	16.7	20.3	86.2	0.0	0.0	0.0	25.2	221.3	60.4	281.7
1983	3.6	118.4	11.3	28.7	0.8	5.1	1.9	0.0	2.7	26.6	77.1	0.0	0.0	0.0	27.5	226.7	65.8	292.5
1984	5.1	130.7	23.6	28.2	1.4	8.4	2.0	2.4	1.8	28.6	96.4	0.0	0.0	0.0	30.8	263.0	71.6	334.5
1985	5.9	108.1	13.6	31.4	0.1	7.9	1.9	3.9	0.6	25.8	85.2	0.0	0.0	0.0	31.2	230.4	73.3	303.7
1986	5.8	98.4	12.6	26.0	0.2	5.4	1.8	3.3	7.8	R27.4	R84.5	0.0	0.0	0.0	31.8	R220.6	73.2	R293.8
1987	6.6	91.9	14.4	32.2	0.2	4.3	2.1	3.3	0.4	R31.2	R88.2	0.0	0.0	0.0	33.0	R219.8	75.5	R295.3
1988	6.2	101.5	17.4	32.1	0.3	4.9	2.0	3.3	4.2	R37.1	R101.4	0.0	0.0	0.0	34.5	R243.7	78.0	R321.7
1989	6.1	106.0	13.1	29.0	0.2	7.9	2.1	3.0	6.8	R37.4	R99.4	0.0	0.0	0.0	37.4	R248.9	83.8	R332.8
1990	6.3	111.5	16.7	33.0	0.2	16.0	2.1	3.0	6.0	R37.8	R114.9	f0.0	f61.2	f0.0	42.5	Rf336.4	R92.9	Rf429.2
1991	5.6	112.5	16.8	28.1	0.2	13.7	1.9	3.5	1.5	R37.3	R103.0	0.0	61.0	0.0	44.4	R326.6	96.6	R423.2
1992	5.8	113.2	14.4	25.3	0.1	14.7	1.9	3.3	1.2	R43.9	R104.9	0.0	64.1	0.0	46.0	R334.0	R98.3	R432.3
1993	6.3	107.4	12.9	21.9	0.2	R12.7	2.0	2.0	1.6	R41.3	R94.6	0.0	64.4	0.0	48.6	R321.3	102.5	R423.8
1994	7.1	103.7	14.0	24.0	0.2	13.8	2.1	2.2	1.1	38.8	96.2	0.0	65.1	0.0	52.1	324.1	108.6	432.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Mississippi

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	(s)	31	170	882	1,465	220	292	15,279	11	18,320	0	0	–	0	–
1965	(s)	45	463	1,136	1,460	233	312	17,842	301	21,747	0	0	–	0	–
1970	(s)	59	318	2,690	1,614	472	283	23,914	3	29,293	0	0	–	0	–
1971	(s)	59	334	3,663	1,669	525	322	24,969	0	31,481	0	0	–	0	–
1972	(s)	58	338	4,039	1,600	559	344	27,180	152	34,213	0	0	–	0	–
1973	(s)	57	344	5,123	1,513	535	312	27,846	428	36,101	0	0	–	0	–
1974	(s)	50	240	5,372	1,538	510	299	27,854	729	36,543	0	0	–	0	–
1975	(s)	38	203	4,696	1,475	464	307	27,489	1,184	35,817	0	0	–	0	–
1976	(s)	31	173	5,594	1,425	535	341	28,647	1,201	37,917	0	0	–	0	–
1977	(s)	31	159	6,232	1,498	570	314	30,278	1,354	40,405	0	0	–	0	–
1978	0	32	147	6,942	1,361	623	338	30,498	1,987	41,896	0	0	–	0	–
1979	0	42	115	5,885	1,451	8	353	29,177	2,701	39,691	0	0	–	0	–
1980	0	39	206	6,020	1,530	152	315	26,585	5,355	40,163	0	0	–	0	–
1981	0	41	142	6,836	1,734	184	302	27,454	3,086	39,737	0	0	–	0	–
1982	0	37	106	6,779	3,336	259	275	26,301	2,410	39,466	0	0	–	0	–
1983	0	28	113	7,279	2,963	307	288	26,517	1,768	39,237	0	0	–	0	–
1984	0	33	121	8,225	2,334	290	307	26,300	1,729	39,306	0	0	–	0	–
1985	0	25	108	9,392	4,111	232	286	26,695	1,110	41,935	0	0	–	0	–
1986	0	29	137	9,858	4,914	192	280	27,703	1,763	44,848	0	0	–	0	–
1987	0	32	113	10,364	7,657	158	317	28,404	1,813	48,826	0	0	–	0	–
1988	0	35	129	12,851	8,006	135	305	28,696	1,750	51,873	0	0	–	0	–
1989	0	34	153	11,187	6,567	112	313	28,288	1,204	47,823	0	0	–	0	–
1990	0	38	132	9,826	6,922	133	322	28,174	1,554	47,063	[e]2,603	0	–	0	–
1991	0	35	110	9,932	8,080	109	288	29,034	3,938	51,491	2,222	0	–	0	–
1992	0	33	94	10,429	11,006	92	294	29,732	2,618	54,265	2,701	0	–	0	–
1993	0	38	85	10,568	8,328	105	299	31,465	3,238	54,089	3,014	0	–	0	–
1994	0	39	72	10,875	6,750	158	313	32,313	3,588	54,067	3,343	0	–	0	–
			Trillion Btu												
1960	(s)	32.5	0.9	5.1	7.8	0.9	1.8	80.3	0.1	96.8	0.0	0.0	129.3	0.0	129.3
1965	(s)	46.6	2.3	6.6	7.8	0.9	1.9	93.7	1.9	115.2	0.0	0.0	161.8	0.0	161.8
1970	(s)	60.8	1.6	15.7	8.7	1.8	1.7	125.6	(s)	155.2	0.0	0.0	216.0	0.0	216.0
1971	(s)	60.9	1.7	21.3	9.0	2.0	2.0	131.2	0.0	167.2	0.0	0.0	228.1	0.0	228.1
1972	(s)	59.0	1.7	23.5	8.7	2.1	2.1	142.8	1.0	181.8	0.0	0.0	240.8	0.0	240.8
1973	(s)	58.6	1.7	29.8	8.2	2.0	1.9	146.3	2.7	192.7	0.0	0.0	251.3	0.0	251.3
1974	(s)	51.4	1.2	31.3	8.4	1.9	1.8	146.3	4.6	195.5	0.0	0.0	246.9	0.0	246.9
1975	(s)	39.2	1.0	27.4	8.0	1.7	1.9	144.4	7.4	191.8	0.0	0.0	231.0	0.0	231.0
1976	(s)	31.3	0.9	32.6	7.8	2.0	2.1	150.5	7.6	203.3	0.0	0.0	234.6	0.0	234.6
1977	(s)	31.8	0.8	36.3	8.2	2.1	1.9	159.1	8.5	216.8	0.0	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	0.0	258.1	0.0	258.1
1979	0.0	43.3	0.6	34.3	7.9	(s)	2.1	153.3	17.0	215.2	0.0	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	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	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	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	0.0	241.4	0.0	241.4
1984	0.0	33.5	0.6	47.9	12.8	1.0	1.9	138.2	10.9	213.3	0.0	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	7.0	228.0	0.0	0.0	253.9	0.0	253.9
1986	0.0	29.3	0.7	57.4	27.5	0.7	1.7	145.5	11.1	244.6	0.0	0.0	273.9	0.0	273.9
1987	0.0	32.9	0.6	60.4	43.1	0.6	1.9	149.2	11.4	267.1	0.0	0.0	300.0	0.0	300.0
1988	0.0	35.0	0.7	74.9	45.0	0.5	1.9	150.7	11.0	284.6	0.0	0.0	319.7	0.0	319.7
1989	0.0	35.1	0.8	65.2	36.9	0.4	1.9	148.6	7.6	261.3	0.0	0.0	296.4	0.0	296.4
1990	0.0	38.9	0.7	57.2	39.0	0.5	2.0	148.0	9.8	257.1	[e]0.2	0.0	[e]296.0	0.0	[e]296.0
1991	0.0	35.7	0.6	57.9	45.5	0.4	1.7	152.5	24.8	283.3	0.2	0.0	319.0	0.0	319.0
1992	0.0	35.0	0.5	60.8	62.2	0.3	1.8	156.2	16.5	298.2	0.2	0.0	333.2	0.0	333.2
1993	0.0	38.4	0.4	61.6	47.0	0.4	1.8	165.3	20.4	296.8	0.2	0.0	335.2	0.0	335.2
1994	0.0	40.4	0.4	63.3	38.2	0.6	1.9	169.7	22.6	296.7	0.3	0.0	337.1	0.0	337.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Mississippi

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	8	0	8	34	64	1	0	65	0	0	0	0	0	–
1965	9	0	9	56	6	(s)	0	7	0	0	0	0	0	–
1970	500	0	500	100	415	5	0	420	0	0	0	0	0	–
1971	505	0	505	104	979	24	0	1,002	0	0	0	0	0	–
1972	527	0	527	101	3,182	50	0	3,232	0	0	0	0	0	–
1973	1,197	0	1,197	60	5,776	66	0	5,842	0	0	0	0	0	–
1974	1,457	0	1,457	42	8,549	116	0	8,665	0	0	0	0	0	–
1975	1,416	0	1,416	32	9,203	266	0	9,469	0	0	0	0	0	–
1976	1,711	0	1,711	33	12,513	359	0	12,872	0	0	0	0	0	–
1977	1,582	0	1,582	39	16,611	442	0	17,053	0	0	0	0	0	–
1978	1,655	0	1,655	43	19,775	341	0	20,117	0	0	0	0	0	–
1979	2,482	0	2,482	64	10,379	49	0	10,428	0	0	0	0	0	–
1980	3,072	0	3,072	95	5,078	70	0	5,149	0	0	0	0	0	–
1981	3,334	0	3,334	75	2,790	82	0	2,872	0	0	0	0	0	–
1982	4,055	0	4,055	83	366	60	0	426	0	0	0	0	0	–
1983	3,802	0	3,802	50	167	39	0	206	0	0	0	0	0	–
1984	4,076	0	4,076	63	121	45	0	166	165	0	0	0	0	–
1985	4,267	0	4,267	54	108	61	0	169	4,332	0	0	0	0	–
1986	4,208	0	4,208	48	1,374	45	0	1,420	4,087	0	0	0	0	–
1987	4,562	0	4,562	41	152	37	0	188	7,717	0	0	0	0	–
1988	4,859	0	4,859	33	1,109	57	0	1,166	9,582	0	0	0	0	–
1989	3,566	0	3,566	45	1,277	86	0	1,363	7,826	0	0	0	0	–
1990	3,888	0	3,888	65	1,179	50	0	1,228	7,422	0	0	0	0	–
1991	3,570	0	3,570	62	602	79	0	681	9,133	0	0	0	0	–
1992	3,237	0	3,237	54	623	28	0	651	8,174	0	0	0	0	–
1993	3,767	0	3,767	40	5,503	35	0	5,538	7,904	0	0	0	0	–
1994	3,989	0	3,989	83	1,683	50	0	1,733	9,615	0	0	0	0	–
	Trillion Btu													
1960	0.2	0.0	0.2	35.6	0.4	(s)	0.0	0.4	0.0	0.0	0.0	0.0	0.0	36.2
1965	0.2	0.0	0.2	58.0	(s)	(s)	0.0	(s)	0.0	0.0	0.0	0.0	0.0	58.3
1970	12.1	0.0	12.1	102.2	2.6	(s)	0.0	2.6	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	228.7
1990	97.5	0.0	97.5	67.5	7.4	0.3	0.0	7.7	79.3	0.0	0.0	0.0	0.0	252.0
1991	89.6	0.0	89.6	64.0	3.8	0.5	0.0	4.2	98.1	0.0	0.0	0.0	0.0	255.9
1992	81.0	0.0	81.0	55.8	3.9	0.2	0.0	4.1	87.3	0.0	0.0	0.0	0.0	228.1
1993	93.0	0.0	93.0	40.8	34.6	0.2	0.0	34.8	84.4	0.0	0.0	0.0	0.0	253.0
1994	90.2	0.0	90.2	86.1	10.6	0.3	0.0	10.9	102.6	0.0	0.0	0.0	0.0	289.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Missouri

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	2,104	74,757	0	726	0	0	4,227	–
1965	8,534	341	4,401	2,323	13,803	3,625	1,162	7,692	1,029	45,015	3,449	4,299	86,798	0	802	0	0	2,382	–
1970	12,863	430	5,657	179	16,235	8,074	643	11,771	1,150	56,041	3,570	5,306	108,628	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	4,279	110,029	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	4,772	115,233	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	4,995	118,737	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	4,975	115,195	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	4,714	115,852	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	8,350	124,240	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	9,632	129,184	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	10,375	134,597	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	11,500	130,009	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	11,696	111,950	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	10,923	105,992	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	8,060	106,499	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	6,891	102,805	0	1,716	0	0	-8,107	–
1984	27,607	265	3,960	133	18,617	5,615	159	5,566	1,565	59,930	373	8,258	104,176	920	1,587	0	0	-19,515	–
1985	24,733	260	4,295	135	19,593	5,889	149	5,583	1,459	60,022	732	7,660	105,517	8,030	2,993	0	0	-22,418	–
1986	23,821	242	4,624	164	18,327	6,710	75	5,907	1,426	63,390	551	8,093	109,267	7,170	1,996	0	0	-8,257	–
1987	24,764	232	4,351	134	19,273	7,463	73	6,226	1,612	63,611	680	8,850	112,273	6,284	1,447	0	0	-3,373	–
1988	26,118	253	5,657	162	21,226	7,307	99	6,555	1,555	64,948	754	8,841	117,103	8,935	1,511	0	0	-11,934	–
1989	26,348	253	4,545	200	22,131	7,277	114	8,306	1,595	63,684	561	8,632	117,045	8,344	1,094	0	0	-9,687	–
1990	25,836	239	4,468	126	20,743	6,647	45	6,874	1,641	63,626	629	9,864	114,663	7,998	I NA	I NA	I NA	R -8,936	–
1991	25,773	256	4,062	117	20,310	7,506	65	8,633	1,468	63,888	548	R 4,639	R 111,235	9,979	R NA	NA	NA	R -6,148	–
1992	25,180	241	3,832	115	22,458	7,522	43	8,470	1,497	65,275	666	R 5,644	R 115,521	8,084	R NA	NA	NA	R -4,237	–
1993	23,381	280	4,055	93	22,784	9,034	56	9,586	1,524	66,088	1,079	R 6,030	R 120,329	8,381	R NA	NA	NA	R 16,257	–
1994	27,663	268	5,703	113	24,545	10,623	48	9,407	1,593	67,550	534	6,527	126,643	10,006	NA	NA	NA	-6,837	–
			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	12.4	404.0	0.0	7.8	0.0	0.0	14.4	867.2
1965	189.6	348.0	29.2	11.7	80.4	20.4	6.6	30.9	6.2	236.5	21.7	24.2	467.8	0.0	8.4	0.0	0.0	8.1	1,021.9
1970	279.2	432.5	37.5	0.9	94.6	45.7	3.6	44.5	7.0	294.4	22.4	29.7	580.3	0.0	9.7	0.0	0.0	-7.2	1,294.7
1971	294.1	432.1	38.5	1.0	95.3	45.4	4.2	44.8	6.6	308.4	18.4	24.3	587.0	0.0	7.4	0.0	0.0	-14.1	1,306.5
1972	334.4	428.2	37.2	0.9	106.3	47.3	2.7	46.8	7.1	321.6	17.2	27.1	614.3	0.0	6.4	0.0	0.0	-19.3	1,364.0
1973	383.5	424.7	45.0	1.6	110.9	45.4	2.3	46.6	8.6	327.9	18.1	28.4	634.9	0.0	20.9	0.0	0.0	-63.2	1,400.7
1974	382.0	411.9	43.5	1.5	102.3	43.2	1.8	46.4	8.2	323.1	16.1	28.3	614.3	0.0	17.9	0.0	0.0	-47.6	1,378.5
1975	430.2	371.8	35.8	0.9	103.8	47.0	1.6	48.3	7.8	327.5	15.9	26.9	615.5	0.0	13.3	0.0	0.0	-41.7	1,389.1
1976	468.3	381.4	30.5	0.8	115.8	44.5	3.1	49.2	8.6	342.0	19.1	47.3	661.1	0.0	7.7	0.0	0.0	-60.1	1,458.4
1977	503.9	367.7	33.0	0.9	120.8	45.1	2.8	49.1	9.7	349.8	23.0	54.8	689.0	0.0	4.7	0.0	0.0	-68.4	1,497.0
1978	485.7	360.3	38.4	1.1	134.8	45.9	2.4	48.3	10.4	356.9	23.4	59.1	720.7	0.0	10.5	0.0	0.0	-30.7	1,546.4
1979	512.5	340.1	33.3	1.0	134.9	42.4	2.6	49.9	10.9	332.8	22.1	64.6	694.3	0.0	11.4	0.0	0.0	-33.5	1,524.9
1980	531.4	322.9	26.6	0.8	107.1	35.5	1.8	33.5	9.7	309.8	9.0	65.2	598.9	0.0	5.8	0.0	0.0	-18.9	1,440.1
1981	536.0	287.8	21.1	1.1	106.1	26.8	3.1	26.9	9.3	307.7	4.2	61.0	567.3	0.0	7.0	0.0	0.0	-18.9	1,379.2
1982	523.8	284.5	21.8	0.7	121.9	24.7	4.4	32.3	8.5	303.9	4.6	44.4	567.3	0.0	17.3	0.0	0.0	-26.8	1,366.1
1983	564.4	265.5	22.7	0.7	98.7	30.9	0.8	32.5	8.9	308.6	3.8	38.2	545.8	0.0	18.0	0.0	0.0	-27.7	1,366.1
1984	593.3	269.5	26.3	0.7	108.4	31.8	0.9	20.0	9.5	314.8	2.3	44.9	559.7	10.0	16.6	0.0	0.0	-66.6	1,382.4
1985	529.7	264.3	28.5	0.7	114.1	33.3	0.8	20.1	8.8	315.3	4.6	41.9	568.2	86.8	31.3	0.0	0.0	-76.5	1,403.8
1986	512.3	244.3	30.7	0.8	106.8	38.0	0.4	21.5	8.6	333.0	3.5	44.6	587.8	77.4	20.8	0.0	0.0	-28.2	1,414.6
1987	528.0	234.5	28.9	0.7	112.3	42.2	0.4	22.8	9.8	334.1	4.3	48.8	604.2	67.7	15.1	0.0	0.0	-11.5	1,438.0
1988	547.3	254.4	37.5	0.8	123.6	41.3	0.6	23.9	9.4	341.2	4.7	49.0	632.1	96.0	15.6	0.0	0.0	-40.7	1,504.7
1989	549.9	254.5	30.2	1.0	128.9	41.2	0.6	30.6	9.7	334.5	3.5	47.7	627.9	89.5	11.3	0.0	0.0	-33.1	1,500.1
1990	540.6	241.3	29.6	0.6	120.8	37.6	0.3	24.9	10.0	334.2	4.0	54.8	616.8	85.4	I 22.3	I 18.5	I 0.1	R -30.5	R 1,492.8
1991	534.5	258.6	27.0	0.6	118.3	42.5	0.4	31.2	8.9	335.6	3.4	R 26.2	R 594.1	107.2	11.1	18.8	0.1	R -21.0	R 1,501.9
1992	523.2	241.2	25.4	0.6	130.8	42.6	0.2	30.7	9.1	342.9	4.2	R 32.1	R 618.6	86.3	14.9	20.1	0.1	R -14.5	R 1,488.2
1993	466.3	280.7	26.9	0.5	132.7	51.2	0.3	34.6	9.2	347.2	6.8	R 34.4	R 643.7	89.5	32.0	17.9	0.1	R 55.5	R 1,583.7
1994	542.3	269.2	37.8	0.6	143.0	60.2	0.3	34.2	9.7	354.8	3.4	37.4	681.3	106.8	18.9	18.0	0.1	-23.3	1,611.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Missouri

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	415	0	415	111	1,330	240	4,687	6,257	0	0	4,223	–	10,505	–
1965	105	0	105	130	1,056	138	6,139	7,332	0	0	5,977	–	14,271	–
1970	32	0	32	157	1,312	69	8,934	10,315	0	0	9,672	–	23,438	–
1971	27	0	27	153	1,317	78	9,046	10,440	0	0	10,435	–	25,227	–
1972	32	0	32	160	1,532	42	9,504	11,079	0	0	11,176	–	26,900	–
1973	71	0	71	154	1,545	42	9,355	10,942	0	0	11,931	–	28,563	–
1974	75	0	75	153	1,401	35	9,175	10,611	0	0	11,830	–	28,844	–
1975	54	0	54	155	1,435	28	9,528	10,992	0	0	13,654	–	32,935	–
1976	62	0	62	160	1,541	43	9,339	10,923	0	0	13,302	–	32,042	–
1977	39	0	39	154	1,455	36	9,296	10,787	0	0	14,535	–	35,098	–
1978	87	0	87	159	1,646	30	8,911	10,586	0	0	16,108	–	39,408	–
1979	110	0	110	161	1,771	45	7,061	8,876	0	0	16,369	–	39,504	–
1980	29	0	29	143	1,246	57	4,991	6,294	0	0	18,648	–	45,346	–
1981	37	0	37	129	1,407	76	4,654	6,137	0	0	16,437	–	39,173	–
1982	31	0	31	136	1,125	123	4,824	6,072	0	0	16,708	–	40,131	–
1983	45	0	45	127	702	69	5,738	6,509	0	0	19,003	–	45,526	–
1984	44	0	44	131	758	101	3,167	4,026	0	0	18,490	–	43,036	–
1985	55	0	55	128	815	95	3,496	4,406	0	0	18,483	–	43,425	–
1986	37	0	37	121	820	58	3,907	4,784	0	0	19,468	–	44,783	–
1987	86	0	86	116	654	53	4,098	4,805	0	0	20,312	–	46,412	–
1988	78	(s)	78	128	634	58	3,866	4,559	0	0	21,348	–	48,262	–
1989	87	0	87	129	474	69	4,989	5,531	0	0	21,057	–	47,224	–
1990	99	0	99	116	355	29	4,193	4,577	[e] 669	[e] 42	21,652	–	R 47,314	–
1991	88	0	88	121	430	37	5,489	5,956	704	42	23,386	–	R 50,846	–
1992	79	0	79	117	358	21	5,545	5,923	741	42	21,294	–	R 45,457	–
1993	90	1	91	134	414	37	5,863	6,314	617	42	24,182	–	R 51,071	–
1994	76	(s)	77	123	353	24	5,771	6,148	605	43	24,057	–	50,170	–
	Trillion Btu													
1960	9.5	0.0	9.5	115.0	7.7	1.4	18.8	27.9	0.0	0.0	14.4	166.8	35.8	202.7
1965	2.4	0.0	2.4	132.1	6.1	0.8	24.6	31.6	0.0	0.0	20.4	186.5	48.7	235.2
1970	0.7	0.0	0.7	157.7	7.6	0.4	33.8	41.8	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	64.8	221.1	155.3	376.4
1984	1.0	0.0	1.0	132.9	4.4	0.6	11.4	16.4	0.0	0.0	63.1	213.4	146.8	360.2
1985	1.2	0.0	1.2	130.3	4.8	0.5	12.6	17.9	0.0	0.0	63.1	212.5	148.2	360.7
1986	0.8	0.0	0.8	121.9	4.8	0.3	14.2	19.3	0.0	0.0	66.4	208.5	152.8	361.3
1987	1.9	0.0	1.9	117.3	3.8	0.3	15.0	19.1	0.0	0.0	69.3	207.6	158.4	366.0
1988	1.7	(s)	1.7	129.1	3.7	0.3	14.1	18.1	0.0	0.0	72.8	221.8	164.7	386.5
1989	1.9	0.0	1.9	130.2	2.8	0.4	18.4	21.5	0.0	0.0	71.8	225.5	161.1	386.6
1990	2.2	0.0	2.2	117.2	2.1	0.2	15.2	17.4	[e] 13.4	[e] 0.1	73.9	R [e] 224.2	161.4	R [e] 385.7
1991	1.9	0.0	1.9	121.7	2.5	0.2	19.8	22.6	14.1	0.1	79.8	R 240.2	R 173.5	R 413.7
1992	1.7	0.0	1.7	116.9	2.1	0.1	20.1	22.3	14.8	0.1	72.7	R 228.5	R 155.1	R 383.6
1993	2.0	(s)	2.0	134.7	2.4	0.2	21.1	23.8	12.3	0.1	82.5	R 255.5	R 174.3	R 429.8
1994	1.7	(s)	1.8	123.3	2.1	0.1	21.0	23.2	12.1	0.1	82.1	242.6	171.2	413.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Missouri

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	196	0	196	41	873	865	1,083	133	1,508	4,463	4,473	–	10,681	–
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	559	288	157	2,784	14,576	–	33,927	–
1985	101	0	101	60	1,465	33	617	262	121	2,498	15,205	–	35,724	–
1986	68	0	68	62	1,482	10	689	323	129	2,633	16,083	–	36,996	–
1987	160	0	160	58	1,857	6	723	313	119	3,018	17,254	–	39,424	–
1988	145	(s)	145	64	1,663	16	682	249	101	2,711	18,343	–	41,470	–
1989	162	0	162	63	926	12	880	213	35	2,066	18,753	–	42,057	–
1990	185	0	185	59	883	8	740	237	60	1,929	19,335	–	R 42,250	–
1991	164	0	164	63	1,111	4	969	128	30	2,241	20,014	–	R 43,514	–
1992	148	0	148	61	1,174	16	978	121	3	2,293	19,677	–	R 42,006	–
1993	168	(s)	168	70	1,148	13	1,035	112	8	2,315	20,822	–	R 43,975	–
1994	142	(s)	142	66	1,194	14	1,018	102	20	2,348	21,520	–	44,880	–
	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
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
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	2.0	1.5	1.0	14.9	49.7	134.8	115.8	250.5
1985	2.3	0.0	2.3	61.4	8.5	0.2	2.2	1.4	0.8	13.1	51.9	128.7	121.9	250.5
1986	1.5	0.0	1.5	62.6	8.6	0.1	2.5	1.7	0.8	13.7	54.9	132.7	126.2	258.9
1987	3.5	0.0	3.5	58.9	10.8	(s)	2.6	1.6	0.8	15.9	58.9	137.1	134.5	271.6
1988	3.2	(s)	3.2	64.2	9.7	0.1	2.5	1.3	0.6	14.2	62.6	144.2	141.5	285.7
1989	3.6	0.0	3.6	63.5	5.4	0.1	3.2	1.1	0.2	10.0	64.0	141.2	143.5	284.7
1990	4.0	0.0	4.0	60.0	5.1	(s)	2.7	1.2	0.4	9.5	66.0	139.6	R 144.2	283.7
1991	3.6	0.0	3.6	63.7	6.5	(s)	3.5	0.7	0.2	10.9	68.3	146.5	R 148.5	R 295.0
1992	3.2	0.0	3.2	61.1	6.8	0.1	3.5	0.6	(s)	11.1	67.1	142.6	143.3	285.9
1993	3.8	(s)	3.8	69.9	6.7	0.1	3.7	0.6	(s)	11.1	71.0	155.9	150.0	305.9
1994	3.2	(s)	3.2	66.6	7.0	0.1	3.7	0.5	0.1	11.4	73.4	154.7	153.1	307.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Missouri

Year	Coal	Natural Gas [a]	Petroleum: Asphalt and Road Oil [b]	Petroleum: Distillate Fuel [b]	Petroleum: Kerosene [b]	Petroleum: LPG [b]	Petroleum: Lubricants [b]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [b]	Petroleum: Other [b,c]	Petroleum: Total	Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	2,605	79	3,725	5,722	340	437	284	3,074	1,630	2,104	17,316	0	0	0	3,890	–	9,675	–
1965	2,534	114	4,401	5,097	160	423	328	3,224	1,710	4,299	19,643	0	0	0	5,872	–	14,020	–
1970	1,921	110	5,657	5,689	141	1,175	415	2,767	1,620	5,306	22,771	0	0	0	9,939	–	24,084	–
1971	1,753	108	5,804	5,386	173	1,151	355	2,746	1,311	4,279	21,203	0	0	0	10,174	–	24,598	–
1972	2,141	99	5,613	6,110	173	1,185	380	2,525	1,201	4,772	21,959	0	0	0	10,508	–	25,292	–
1973	1,875	118	6,784	6,153	104	1,354	477	3,518	1,494	4,987	24,871	0	0	0	10,949	–	26,213	–
1974	1,907	110	6,551	5,562	53	1,558	456	2,728	1,279	4,944	23,132	0	0	0	11,284	–	27,513	–
1975	2,065	90	5,401	5,765	75	1,712	491	2,707	1,242	4,699	22,091	0	0	0	11,782	–	28,421	–
1976	2,180	91	4,600	6,248	235	2,195	546	2,452	1,331	8,350	25,956	0	0	0	9,646	–	23,237	–
1977	2,158	89	4,977	6,345	223	2,346	670	2,316	1,538	9,542	27,956	0	0	0	10,281	–	24,825	–
1978	1,813	70	5,788	7,327	201	2,592	720	2,132	1,390	10,138	30,288	0	0	0	11,382	–	27,846	–
1979	1,823	64	5,016	7,779	134	5,160	753	1,876	1,549	11,292	33,559	0	0	0	11,622	–	28,048	–
1980	1,595	78	4,002	4,782	87	3,182	671	1,866	703	11,595	26,887	0	0	0	11,018	–	26,792	–
1981	1,715	73	3,175	5,209	72	1,768	643	1,491	615	10,923	23,896	0	0	0	13,878	–	33,075	–
1982	1,454	65	3,289	6,002	73	3,152	586	1,199	563	8,060	22,925	0	0	0	12,441	–	29,882	–
1983	1,524	59	3,419	2,941	32	2,109	614	920	277	6,882	17,195	0	0	0	12,908	–	30,925	–
1984	1,717	60	3,960	3,177	30	1,655	655	1,140	185	8,258	19,059	0	0	0	12,342	–	28,728	–
1985	1,798	66	4,295	3,993	22	1,333	610	1,075	557	7,660	19,546	0	0	0	12,625	–	29,661	–
1986	1,687	55	4,624	2,736	8	1,155	597	960	375	8,093	18,547	0	0	0	12,722	–	29,264	–
1987	1,505	54	4,351	3,149	13	1,274	674	957	535	8,850	19,802	0	0	0	12,554	–	28,685	–
1988	1,539	54	5,657	3,763	24	1,903	650	892	531	8,839	22,259	0	0	0	12,556	–	28,386	–
1989	1,436	54	4,545	3,232	33	2,320	667	776	420	8,615	20,609	0	0	0	12,792	–	28,688	–
1990	1,321	55	4,468	3,007	8	1,822	687	660	526	9,864	21,041	R[f] NA	[f] NA	[f] NA	12,937	–	R 28,271	–
1991	1,235	57	4,062	2,947	23	2,046	614	758	476	R 4,639	R 15,564	R NA	NA	NA	13,114	–	R 28,512	–
1992	1,137	58	3,832	3,258	6	1,858	626	669	621	R 5,644	R 16,515	R NA	NA	NA	13,440	–	R 28,692	–
1993	1,177	61	4,055	2,803	5	2,597	638	1,469	1,015	R 5,115	R 17,696	R NA	NA	NA	13,618	–	R 28,760	–
1994	1,070	72	5,703	3,482	10	2,416	666	1,624	465	5,323	19,689	NA	NA	NA	14,106	–	29,418	–
			Trillion Btu															
1960	62.2	81.7	24.7	33.3	1.9	1.8	1.7	16.1	10.2	12.4	102.2	0.0	0.0	0.0	13.3	259.3	33.0	292.4
1965	59.9	116.4	29.2	29.7	0.9	1.7	2.0	16.9	10.8	24.2	115.4	0.0	0.0	0.0	20.0	311.8	47.8	359.6
1970	43.8	110.4	37.5	33.1	0.8	4.4	2.5	14.5	10.2	29.7	132.9	0.0	0.0	0.0	33.9	320.9	82.2	403.1
1971	39.7	109.2	38.5	31.4	1.0	4.3	2.2	14.4	8.2	24.3	124.3	0.0	0.0	0.0	34.7	307.9	83.9	391.8
1972	47.9	100.3	37.2	35.6	1.0	4.5	2.3	13.3	7.6	27.1	128.5	0.0	0.0	0.0	35.9	312.7	86.3	399.0
1973	42.3	118.0	45.0	35.8	0.6	5.1	2.9	18.5	9.4	28.4	145.6	0.0	0.0	0.0	37.4	343.3	89.4	432.7
1974	42.6	110.7	43.5	32.4	0.3	5.8	2.8	14.3	8.0	28.1	135.2	0.0	0.0	0.0	38.5	327.0	93.9	420.9
1975	45.7	90.7	35.8	33.6	0.4	6.4	3.0	14.2	7.8	26.8	128.0	0.0	0.0	0.0	40.2	304.6	97.0	401.6
1976	49.0	91.4	30.5	36.4	1.3	8.1	3.3	12.9	8.4	47.3	148.3	0.0	0.0	0.0	32.9	321.6	79.3	400.9
1977	48.5	89.5	33.0	37.0	1.3	8.6	4.1	12.2	9.7	54.3	160.1	0.0	0.0	0.0	35.1	333.1	84.7	417.8
1978	40.3	70.0	38.4	42.7	1.1	9.5	4.4	11.2	8.7	57.6	173.7	0.0	0.0	0.0	38.8	322.8	95.0	417.8
1979	41.1	62.7	33.3	45.3	0.8	19.0	4.6	9.9	9.7	63.4	185.9	0.0	0.0	0.0	39.7	329.3	95.7	425.0
1980	36.0	79.3	26.6	27.9	0.5	11.7	4.1	9.8	4.4	64.6	149.5	0.0	0.0	0.0	37.6	302.4	91.4	393.8
1981	38.5	74.4	21.1	30.3	0.4	6.4	3.9	7.8	3.9	61.0	134.8	0.0	0.0	0.0	47.4	295.1	112.9	408.0
1982	32.7	65.7	21.8	35.0	0.4	11.4	3.6	6.3	3.5	44.4	126.4	0.0	0.0	0.0	42.4	267.3	102.0	369.2
1983	34.2	60.9	22.7	17.1	0.2	7.6	3.7	4.8	1.7	38.2	96.1	0.0	0.0	0.0	44.0	235.3	105.5	340.8
1984	38.9	60.5	26.3	18.5	0.2	6.0	4.0	6.0	1.2	44.9	107.0	0.0	0.0	0.0	42.1	248.4	98.0	346.5
1985	41.2	66.8	28.5	23.3	0.1	4.8	3.7	5.6	3.5	41.9	111.4	0.0	0.0	0.0	43.1	262.5	101.2	363.7
1986	39.0	55.1	30.7	15.9	(s)	4.2	3.6	5.0	2.4	44.6	106.5	0.0	0.0	0.0	43.4	244.0	99.8	343.9
1987	34.9	54.9	28.9	18.3	0.1	4.7	4.1	5.0	3.4	48.8	113.2	0.0	0.0	0.0	42.8	245.9	97.9	343.8
1988	35.6	54.6	37.5	21.9	0.1	7.0	3.9	4.7	3.3	49.0	127.5	0.0	0.0	0.0	42.8	260.4	96.9	357.3
1989	33.0	54.4	30.2	18.8	0.2	8.5	4.0	4.1	2.6	47.6	116.1	0.0	0.0	0.0	43.6	247.1	97.9	344.9
1990	30.4	55.1	29.6	17.5	(s)	6.6	4.2	3.5	3.3	54.8	119.5	[f] 0.0	[f] 3.3	[f] 0.0	44.1	R[f] 252.5	R 96.5	R[f] 348.9
1991	28.7	57.7	27.0	17.2	0.1	7.4	3.7	4.0	3.0	R 26.2	R 88.6	0.0	3.3	0.0	44.7	R 223.0	R 97.3	R 320.3
1992	26.6	58.6	25.4	19.0	(s)	6.7	3.8	3.5	3.9	R 32.1	R 94.5	0.0	3.4	0.0	45.9	R 229.0	97.9	R 326.9
1993	27.8	61.2	26.9	16.3	(s)	9.4	3.9	7.7	6.4	R 28.9	R 99.5	0.0	3.5	0.0	46.5	R 238.4	98.1	R 336.5
1994	24.6	72.0	37.8	20.3	0.1	8.8	4.0	8.5	2.9	30.1	112.6	0.0	3.6	0.0	48.1	261.0	100.4	361.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Missouri

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	46	8	1,844	4,485	1,249	43	669	37,620	34	45,943	0	2	–	6	–
1965	8	9	2,323	6,685	3,625	47	701	41,658	154	55,191	0	0	–	0	–
1970	3	13	179	7,990	8,074	85	735	53,122	163	70,349	0	0	–	0	–
1971	2	10	207	8,438	8,024	98	735	55,807	26	73,335	0	0	–	0	–
1972	2	10	184	9,088	8,366	85	787	58,534	53	77,097	0	0	–	0	–
1973	1	9	322	9,772	8,019	85	944	58,755	53	77,948	0	0	–	0	–
1974	1	9	299	9,153	7,642	84	904	58,616	83	76,780	0	0	–	0	–
1975	(s)	7	184	8,721	8,311	74	793	59,476	141	77,698	0	0	–	0	–
1976	(s)	5	165	10,121	7,870	73	880	62,499	129	81,737	0	0	–	0	–
1977	(s)	5	177	10,799	7,963	71	932	64,117	61	84,120	0	0	–	0	–
1978	0	4	211	11,323	8,110	95	1,001	65,651	23	86,414	0	0	–	0	–
1979	0	7	189	11,492	7,480	81	1,047	61,310	142	81,742	0	0	–	0	–
1980	0	6	162	10,824	6,268	68	932	56,877	142	75,272	0	0	–	0	–
1981	0	6	209	10,527	4,741	147	894	56,792	6	73,316	0	0	–	0	–
1982	0	5	145	12,387	4,371	118	815	56,430	113	74,379	0	0	–	0	–
1983	0	4	142	11,296	5,457	140	854	57,612	23	75,523	0	0	–	0	–
1984	0	5	133	12,712	5,615	184	910	58,502	12	78,068	0	0	–	0	–
1985	0	4	135	13,116	5,889	138	848	58,684	38	78,849	0	0	–	0	–
1986	0	4	164	13,070	6,710	157	830	62,107	28	83,064	0	0	–	0	–
1987	0	2	134	13,408	7,463	132	938	62,341	0	84,416	0	0	–	0	–
1988	0	5	162	14,861	7,307	103	904	63,808	87	87,233	0	0	–	0	–
1989	0	5	200	17,278	7,277	116	928	62,696	70	88,565	0	0	–	0	–
1990	0	5	126	16,291	6,647	118	955	62,729	34	86,901	[e]24,518	0	–	0	–
1991	0	3	117	15,577	7,506	130	854	63,002	0	87,187	19,435	0	–	0	–
1992	0	2	115	17,483	7,522	88	871	64,485	17	90,581	23,621	0	–	0	–
1993	0	10	93	18,052	9,034	91	887	64,507	34	92,699	26,362	0	–	0	–
1994	0	3	113	19,260	10,623	202	927	65,825	22	96,972	29,240	9	–	19	–
			Trillion Btu												
1960	1.1	8.2	9.3	26.1	7.0	0.2	4.1	197.6	0.2	244.5	0.0	(s)	253.8	(s)	253.8
1965	0.2	9.1	11.7	38.9	20.4	0.2	4.3	218.8	1.0	295.3	0.0	0.0	304.6	0.0	304.6
1970	0.1	12.8	0.9	46.5	45.7	0.3	4.5	279.0	1.0	378.0	0.0	0.0	390.9	0.0	390.9
1971	(s)	10.1	1.0	49.2	45.4	0.4	4.5	293.2	0.2	393.7	0.0	0.0	403.8	0.0	403.8
1972	(s)	9.7	0.9	52.9	47.3	0.3	4.8	307.5	0.3	414.1	0.0	0.0	423.9	0.0	423.9
1973	(s)	9.1	1.6	56.9	45.4	0.3	5.7	308.6	0.3	418.9	0.0	0.0	428.1	0.0	428.1
1974	(s)	9.0	1.5	53.3	43.2	0.3	5.5	307.9	0.5	412.3	0.0	0.0	421.3	0.0	421.3
1975	(s)	7.6	0.9	50.8	47.0	0.3	4.8	312.4	0.9	417.2	0.0	0.0	424.7	0.0	424.7
1976	(s)	5.3	0.8	59.0	44.5	0.3	5.3	328.3	0.8	439.1	0.0	0.0	444.3	0.0	444.3
1977	(s)	4.7	0.9	62.9	45.1	0.3	5.7	336.8	0.4	452.0	0.0	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	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	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	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	(s)	393.5	0.0	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	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	0.0	409.7	0.0	409.7
1984	0.0	5.1	0.7	74.0	31.8	0.7	5.5	307.3	0.1	420.0	0.0	0.0	425.2	0.0	425.2
1985	0.0	4.3	0.7	76.4	33.3	0.5	5.1	308.3	0.2	424.5	0.0	0.0	428.9	0.0	428.9
1986	0.0	3.6	0.8	76.1	38.0	0.6	5.0	326.2	0.2	446.9	0.0	0.0	450.5	0.0	450.5
1987	0.0	2.0	0.7	78.1	42.2	0.5	5.7	327.5	0.0	454.7	0.0	0.0	456.7	0.0	456.7
1988	0.0	4.9	0.8	86.6	41.3	0.4	5.5	335.2	0.5	470.3	0.0	0.0	475.2	0.0	475.2
1989	0.0	5.2	1.0	100.6	41.2	0.4	5.6	329.3	0.4	478.7	0.0	0.0	483.9	0.0	483.9
1990	0.0	5.4	0.6	94.9	37.6	0.4	5.8	329.5	0.2	469.1	[e]1.9	0.0	[e]474.5	0.0	[e]474.5
1991	0.0	2.6	0.6	90.7	42.5	0.5	5.2	331.0	0.0	470.4	1.5	0.0	473.0	0.0	473.0
1992	0.0	2.3	0.6	101.8	42.6	0.3	5.3	338.7	0.1	489.5	1.8	0.0	491.8	0.0	491.8
1993	0.0	9.9	0.5	105.2	51.2	0.3	5.4	338.9	0.2	501.6	2.0	0.0	511.5	0.0	511.5
1994	0.0	2.9	0.6	112.2	60.2	0.7	5.6	345.8	0.1	525.2	2.2	(s)	528.1	0.1	528.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Missouri

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	5,690	0	5,690	48	77	92	0	168	0	802	0	0	0	–
1970	10,846	0	10,846	63	133	159	0	291	0	927	0	0	0	–
1971	11,678	0	11,678	68	268	135	0	402	0	703	0	0	0	–
1972	13,147	0	13,147	59	542	258	0	800	0	612	0	0	0	–
1973	15,573	0	15,573	55	424	290	8	722	0	2,008	0	0	0	–
1974	15,523	0	15,523	48	306	280	31	617	0	1,713	0	0	0	–
1975	17,734	0	17,734	26	375	710	15	1,100	0	1,280	0	0	0	–
1976	19,159	0	19,159	25	602	689	0	1,292	0	740	0	0	0	–
1977	20,806	0	20,806	26	866	935	90	1,891	0	454	0	0	0	–
1978	20,476	0	20,476	27	1,183	1,485	237	2,906	0	1,017	0	0	0	–
1979	21,644	0	21,644	20	601	645	209	1,455	0	1,100	0	0	0	–
1980	23,168	0	23,168	15	29	538	101	668	0	558	0	0	0	–
1981	23,376	0	23,376	8	18	305	0	323	0	669	0	0	0	–
1982	22,863	0	22,863	4	24	360	0	383	0	1,656	0	0	0	–
1983	24,614	0	24,614	3	64	391	9	464	0	1,716	0	0	0	–
1984	25,763	0	25,763	3	20	219	0	239	920	1,587	0	0	0	–
1985	22,779	0	22,779	1	16	202	1	219	8,030	2,993	0	0	0	–
1986	22,029	0	22,029	1	20	220	0	240	7,170	1,996	0	0	0	–
1987	23,012	0	23,012	1	26	206	0	232	6,284	1,447	0	0	0	–
1988	24,356	0	24,356	2	35	304	2	341	8,935	1,511	0	0	0	–
1989	24,663	0	24,663	1	36	221	16	274	8,344	1,094	0	0	0	–
1990	24,231	0	24,231	4	8	207	0	215	7,998	2,156	0	0	0	–
1991	24,286	0	24,286	13	42	245	0	287	9,979	1,072	0	0	0	–
1992	23,815	0	23,815	2	24	185	0	209	8,084	1,450	0	0	0	–
1993	21,945	0	21,945	5	22	367	915	1,305	8,381	3,110	1	0	0	–
1994	26,375	0	26,375	4	27	255	1,204	1,486	10,006	1,844	7	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	0.0	121.6
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	0.0	180.5
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	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	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	0.0	352.9
1973	336.7	0.0	336.7	53.6	2.7	1.7	(s)	4.4	0.0	20.9	0.0	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	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	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	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	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	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	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	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	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	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	0.0	550.9
1984	551.7	0.0	551.7	2.5	0.1	1.3	0.0	1.4	10.0	16.6	0.0	0.0	0.0	582.1
1985	484.9	0.0	484.9	1.5	0.1	1.2	(s)	1.3	86.8	31.3	0.0	0.0	0.0	605.8
1986	470.9	0.0	470.9	1.2	0.1	1.3	0.0	1.4	77.4	20.8	0.0	0.0	0.0	571.8
1987	487.7	0.0	487.7	1.4	0.2	1.2	0.0	1.4	67.7	15.1	0.0	0.0	0.0	573.3
1988	506.8	0.0	506.8	1.6	0.2	1.8	(s)	2.0	96.0	15.6	0.0	0.0	0.0	622.0
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	0.0	615.0
1990	504.0	0.0	504.0	3.6	(s)	1.2	0.0	1.3	85.4	22.3	0.0	0.0	0.0	616.5
1991	500.2	0.0	500.2	12.9	0.3	1.4	0.0	1.7	107.2	11.1	0.0	0.0	0.0	633.0
1992	491.6	0.0	491.6	2.4	0.2	1.1	0.0	1.2	86.3	14.9	0.0	0.0	0.0	596.4
1993	432.7	0.0	432.7	4.9	0.1	2.1	5.5	7.8	89.5	32.0	(s)	0.0	0.0	567.0
1994	512.6	0.0	512.6	4.4	0.2	1.5	7.3	8.9	106.8	18.9	0.1	0.0	0.0	651.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Montana

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
1965	370	71	1,003	312	4,962	384	248	926	189	7,709	1,241	2,531	19,505	0	8,388	37	0	-6,938	–
1970	763	88	1,347	43	4,827	649	376	1,326	200	9,262	1,268	3,155	22,452	0	8,744	73	0	-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	61	0	-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	51	0	-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	48	0	-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	16	0	-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	14	0	-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	37	0	-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	46	0	-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	52	0	-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	52	0	-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	17	0	-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	34	0	-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	28	0	-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	39	0	-14,133	–
1984	5,283	47	1,215	77	9,446	642	19	1,032	242	10,451	798	2,691	26,614	0	11,110	57	(s)	-13,752	–
1985	5,713	47	1,463	91	11,317	678	10	1,576	225	10,185	133	2,581	28,258	0	10,244	59	(s)	-13,692	–
1986	7,780	41	1,989	105	7,004	867	22	1,505	220	10,158	47	2,657	24,575	0	10,855	61	(s)	-25,273	–
1987	7,730	39	1,642	82	6,556	718	8	1,716	249	10,234	23	3,392	24,620	0	8,951	49	0	-24,830	–
1988	10,634	42	1,473	107	6,308	809	4	1,515	240	10,455	221	3,801	24,934	0	8,240	55	0	-35,099	–
1989	10,458	46	1,749	95	7,679	750	3	1,608	246	10,305	182	3,913	26,530	0	9,565	72	0	-37,922	–
1990	9,676	43	1,487	111	7,422	708	8	1,740	253	10,269	221	4,255	26,474	0	R NA	I NA	I NA	R -38,329	–
1991	10,549	45	1,350	108	8,321	615	3	1,053	227	10,357	146	3,714	25,893	0	R NA	NA	NA	R -45,111	–
1992	11,040	46	1,309	75	7,716	864	1	1,018	231	10,729	89	4,725	26,757	0	R NA	NA	NA	R -38,390	–
1993	9,247	53	1,707	64	8,004	901	8	2,200	235	10,996	689	4,171	28,974	0	R NA	NA	NA	R -33,203	–
1994	11,089	52	1,964	75	8,254	855	7	1,055	246	11,101	374	4,497	28,428	0	NA	NA	NA	-36,834	–
			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
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	0.4	0.0	-23.7	249.7
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	0.8	0.0	-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	0.6	0.0	-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	0.5	0.0	-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	0.5	0.0	-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	0.2	0.0	-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	0.1	0.0	-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	0.4	0.0	-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	0.5	0.0	-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	0.5	0.0	-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	0.5	0.0	-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	0.2	0.0	-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	0.4	0.0	-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	0.3	0.0	-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	0.4	0.0	-48.2	311.7
1984	90.3	47.1	8.1	0.4	55.0	3.6	0.1	3.7	1.5	54.9	5.0	16.4	148.6	0.0	116.0	0.6	(s)	-46.9	355.7
1985	99.1	47.3	9.7	0.5	65.9	3.8	0.1	5.7	1.4	53.5	0.8	15.9	157.2	0.0	107.0	0.6	(s)	-46.7	364.5
1986	133.2	41.1	13.2	0.5	40.8	4.8	0.1	5.5	1.3	53.4	0.3	16.4	136.4	0.0	113.4	0.6	(s)	-86.2	338.6
1987	132.9	39.6	10.9	0.4	38.2	4.0	(s)	6.3	1.5	53.8	0.1	20.7	135.9	0.0	93.3	0.5	0.0	-84.7	317.5
1988	181.5	42.9	9.8	0.5	36.7	4.5	(s)	5.5	1.5	54.9	1.4	23.0	137.9	0.0	85.1	0.6	0.0	-119.8	328.2
1989	178.4	46.7	11.6	0.5	44.7	4.2	(s)	5.9	1.5	54.1	1.1	23.6	147.3	0.0	98.7	0.7	0.0	-129.4	342.4
1990	166.1	44.4	9.9	0.6	43.2	4.0	(s)	6.3	1.5	53.9	1.4	25.6	146.5	0.0	RI 111.1	I 7.6	I (s)	-130.8	RI 344.9
1991	180.2	46.7	9.0	0.5	48.5	3.5	(s)	3.8	1.4	54.4	0.9	22.5	144.5	0.0	R 124.1	7.5	(s)	R -153.9	R 349.1
1992	189.8	46.6	8.7	0.4	44.9	4.8	(s)	3.7	1.4	56.4	0.6	28.4	149.3	0.0	R 85.5	8.0	(s)	-131.0	R 348.3
1993	157.7	54.3	11.3	0.3	46.6	5.0	(s)	7.9	1.4	57.8	4.3	25.2	160.0	0.0	R 99.1	7.9	(s)	-113.3	R 365.7
1994	189.3	53.3	13.0	0.4	48.1	4.8	(s)	3.8	1.5	58.3	2.4	27.1	159.4	0.0	84.5	7.6	(s)	-125.7	368.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– –=Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Montana

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	11	0	11	17	262	0	506	768	0	0	935	–	2,327	–
1965	8	0	8	20	277	0	636	914	0	0	1,216	–	2,904	–
1970	4	0	4	25	249	0	887	1,137	0	0	1,534	–	3,717	–
1971	7	0	7	25	397	0	905	1,302	0	0	1,633	–	3,947	–
1972	4	0	4	24	436	0	1,094	1,531	0	0	1,757	–	4,229	–
1973	5	0	5	25	495	0	965	1,460	0	0	1,812	–	4,339	–
1974	4	0	4	22	542	0	1,026	1,569	0	0	1,873	–	4,566	–
1975	4	0	4	24	589	0	973	1,562	0	0	2,143	–	5,169	–
1976	3	0	3	24	646	0	993	1,640	0	0	2,261	–	5,446	–
1977	1	0	1	22	616	0	993	1,609	0	0	2,440	–	5,891	–
1978	6	0	6	23	657	0	1,276	1,933	0	0	2,754	–	6,738	–
1979	4	0	4	23	675	0	606	1,280	0	0	2,957	–	7,136	–
1980	5	0	5	19	421	0	829	1,250	0	0	2,916	–	7,091	–
1981	3	0	3	17	273	0	503	777	0	0	2,906	–	6,926	–
1982	3	0	3	20	352	0	736	1,088	0	0	3,178	–	7,633	–
1983	3	0	3	17	449	14	901	1,365	0	0	3,097	–	7,419	–
1984	2	0	2	18	459	16	428	902	0	0	3,375	–	7,856	–
1985	3	0	3	19	345	9	604	959	0	0	3,614	–	8,491	–
1986	8	0	8	17	351	14	641	1,006	0	0	3,214	–	7,393	–
1987	3	0	3	15	247	1	709	957	0	0	3,139	–	7,173	–
1988	3	0	3	17	235	1	715	951	0	0	3,301	–	7,463	–
1989	18	(s)	19	18	366	1	831	1,198	0	0	3,456	–	7,750	–
1990	20	0	20	17	288	1	813	1,102	[e] 89	[e] (s)	3,358	–	R 7,339	–
1991	16	0	16	18	356	1	703	1,060	94	(s)	3,459	–	R 7,520	–
1992	7	0	7	17	218	(s)	598	816	99	(s)	3,286	–	R 7,016	–
1993	4	0	4	20	267	7	548	822	91	(s)	3,598	–	R 7,599	–
1994	1	0	1	19	189	6	541	736	90	(s)	3,567	–	7,439	–
	Trillion Btu													
1960	0.2	0.0	0.2	17.5	1.5	0.0	2.0	3.6	0.0	0.0	3.2	24.5	7.9	32.4
1965	0.2	0.0	0.2	19.9	1.6	0.0	2.6	4.2	0.0	0.0	4.1	28.4	9.9	38.3
1970	0.1	0.0	0.1	25.6	1.5	0.0	3.4	4.8	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	7.7	39.0	18.6	57.6
1977	(s)	0.0	(s)	21.7	3.6	0.0	3.7	7.2	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	9.9	35.0	24.2	59.2
1981	(s)	0.0	(s)	17.4	1.6	0.0	1.8	3.4	0.0	0.0	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	0.0	0.0	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	0.0	0.0	10.6	33.7	25.3	59.0
1984	(s)	0.0	(s)	18.5	2.7	0.1	1.5	4.3	0.0	0.0	11.5	34.4	26.8	61.2
1985	(s)	0.0	(s)	19.4	2.0	0.1	2.2	4.2	0.0	0.0	12.3	36.0	29.0	64.9
1986	0.1	0.0	0.1	16.8	2.0	0.1	2.3	4.5	0.0	0.0	11.0	32.3	25.2	57.6
1987	(s)	0.0	(s)	15.6	1.4	(s)	2.6	4.0	0.0	0.0	10.7	30.4	24.5	54.9
1988	0.1	0.0	0.1	17.3	1.4	(s)	2.6	4.0	0.0	0.0	11.3	32.6	25.5	58.1
1989	0.4	(s)	0.4	18.5	2.1	(s)	3.1	5.2	0.0	0.0	11.8	35.9	26.4	62.3
1990	0.4	0.0	0.4	17.3	1.7	(s)	2.9	4.6	[e] 1.8	[e] (s)	11.5	R [e] 35.5	25.0	R [e] 60.6
1991	0.3	0.0	0.3	18.9	2.1	(s)	2.5	4.6	1.9	(s)	11.8	R 37.5	R 25.7	R 63.2
1992	0.1	0.0	0.1	17.0	1.3	(s)	2.2	3.4	2.0	(s)	11.2	R 33.8	23.9	R 57.7
1993	0.1	0.0	0.1	20.7	1.6	(s)	2.0	3.6	1.8	(s)	12.3	R 38.5	25.9	R 64.4
1994	(s)	0.0	(s)	19.2	1.1	(s)	2.0	3.1	1.8	(s)	12.2	36.2	25.4	61.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Montana

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	20	0	20	12	297	466	89	135	2	989	688	–	1,711	–
1965	15	0	15	14	315	227	112	144	1	800	925	–	2,208	–
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	(s)	159	76	172	1,511	2,499	–	5,988	–
1984	4	0	4	14	1,128	(s)	75	61	105	1,370	4,874	–	11,344	–
1985	5	0	5	15	863	(s)	107	72	126	1,167	4,245	–	9,973	–
1986	14	0	14	13	403	7	113	76	37	636	4,456	–	10,250	–
1987	5	0	5	11	305	(s)	125	79	13	522	2,979	–	6,807	–
1988	6	0	6	12	199	(s)	126	76	9	410	3,202	–	7,239	–
1989	34	(s)	34	13	204	(s)	147	77	13	440	3,070	–	6,885	–
1990	37	0	37	12	153	(s)	143	83	11	390	3,237	–	R7,073	–
1991	29	0	29	13	204	(s)	124	63	3	394	3,326	–	R7,231	–
1992	14	0	14	12	169	(s)	106	55	4	334	3,396	–	R7,249	–
1993	7	0	7	14	194	1	97	12	5	308	3,495	–	R7,380	–
1994	3	0	3	13	189	1	95	15	3	304	3,657	–	7,626	–
					Trillion Btu									
1960	0.4	0.0	0.4	12.3	1.7	2.6	0.4	0.7	(s)	5.5	2.3	20.5	5.8	26.4
1965	0.3	0.0	0.3	14.1	1.8	1.3	0.5	0.8	(s)	4.3	3.2	21.9	7.5	29.5
1970	0.2	0.0	0.2	19.2	1.6	0.5	0.6	1.2	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	6.0	5.9	30.1	14.2	44.3
1977	(s)	0.0	(s)	16.8	4.1	0.3	0.6	0.8	(s)	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	(s)	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	(s)	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	(s)	2.2	8.0	26.5	19.2	45.6
1983	0.1	0.0	0.1	13.6	6.4	(s)	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	(s)	0.3	0.3	0.7	7.8	16.6	38.8	38.7	77.5
1985	0.1	0.0	0.1	14.8	5.0	(s)	0.4	0.4	0.8	6.6	14.5	36.0	34.0	70.0
1986	0.3	0.0	0.3	12.5	2.3	(s)	0.4	0.4	0.2	3.4	15.2	31.4	35.0	66.4
1987	0.1	0.0	0.1	11.2	1.8	(s)	0.5	0.4	0.1	2.7	10.2	24.2	23.2	47.4
1988	0.1	0.0	0.1	12.3	1.2	(s)	0.5	0.4	0.1	2.1	10.9	25.4	24.7	50.1
1989	0.7	(s)	0.7	13.4	1.2	(s)	0.5	0.4	0.1	2.2	10.5	26.8	23.5	50.2
1990	0.7	0.0	0.7	12.5	0.9	(s)	0.5	0.4	0.1	1.9	11.0	26.1	24.1	50.3
1991	0.5	0.0	0.5	13.2	1.2	(s)	0.4	0.3	(s)	2.0	11.3	27.1	24.7	51.7
1992	0.2	0.0	0.2	11.8	1.0	(s)	0.4	0.3	(s)	1.7	11.6	25.3	24.7	50.1
1993	0.1	0.0	0.1	14.1	1.1	(s)	0.3	0.1	(s)	1.6	11.9	27.8	25.2	52.9
1994	(s)	0.0	(s)	13.3	1.1	(s)	0.3	0.1	(s)	1.6	12.5	27.4	26.0	53.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Montana

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	36	26	865	1,500	11	112	23	816	1,684	1,635	6,647	0	0	0	2,951	–	7,341	–
1965	52	34	1,003	1,693	21	164	41	887	914	2,531	7,255	0	0	0	3,939	–	9,406	–
1970	28	41	1,347	1,274	282	246	46	635	1,123	3,155	8,107	0	0	0	6,029	–	14,610	–
1971	40	43	1,337	1,750	284	282	43	570	1,174	3,109	8,549	0	0	0	5,999	–	14,504	–
1972	49	39	1,489	1,863	306	339	46	702	1,390	3,565	9,699	0	0	0	5,858	–	14,101	–
1973	44	42	1,397	2,073	321	302	60	568	1,577	3,779	10,078	0	0	0	5,034	–	12,051	–
1974	56	39	1,222	2,413	110	206	58	503	2,126	3,470	10,108	0	0	0	5,929	–	14,456	–
1975	50	34	924	2,494	68	174	46	774	1,963	3,410	9,853	0	0	0	5,160	–	12,447	–
1976	124	31	1,283	2,926	39	202	51	774	2,303	3,265	10,843	0	0	0	5,922	–	14,264	–
1977	186	30	1,133	2,890	43	162	51	703	2,176	3,503	10,660	0	0	0	5,759	–	13,907	–
1978	190	29	942	2,375	48	115	55	578	2,270	3,493	9,876	0	0	0	6,106	–	14,938	–
1979	213	25	1,054	2,787	0	364	57	663	5,609	3,298	13,833	0	0	0	6,111	–	14,748	–
1980	154	20	1,020	1,925	0	786	51	619	4,018	3,007	11,426	0	0	0	5,815	–	14,140	–
1981	276	17	1,035	1,943	26	382	49	663	2,494	2,721	9,314	0	0	0	5,848	–	13,938	–
1982	222	14	884	1,396	0	551	45	632	1,603	2,534	7,644	0	0	0	4,759	–	11,431	–
1983	169	14	1,130	3,173	3	383	47	509	1,132	2,422	8,798	0	0	0	4,217	–	10,103	–
1984	164	12	1,215	3,241	3	460	50	558	692	2,691	8,910	0	0	0	5,631	–	13,107	–
1985	225	10	1,463	5,798	(s)	814	46	677	7	2,581	11,386	0	0	0	5,841	–	13,722	–
1986	319	9	1,989	2,124	2	696	45	637	10	2,657	8,160	0	0	0	6,150	–	14,147	–
1987	192	10	1,642	1,802	7	844	51	573	10	3,392	8,321	0	0	0	6,304	–	14,405	–
1988	215	10	1,473	1,619	2	626	50	576	212	3,801	8,360	0	0	0	6,438	–	14,555	–
1989	197	12	1,749	2,783	2	578	51	631	169	3,913	9,875	0	0	0	6,535	–	14,656	–
1990	220	12	1,487	2,749	7	716	52	611	209	4,255	10,088	R f NA	f NA	f NA	6,529	–	R 14,268	–
1991	281	12	1,350	3,559	2	178	47	611	143	3,714	9,603	R NA	NA	NA	6,622	–	R 14,398	–
1992	251	14	1,309	2,589	(s)	279	48	572	86	4,725	9,608	R NA	NA	NA	6,414	–	R 13,693	–
1993	367	15	1,707	2,737	(s)	1,513	49	567	684	4,171	11,427	R NA	NA	NA	5,837	–	R 12,326	–
1994	572	16	1,964	2,275	(s)	360	51	603	371	4,497	10,122	NA	NA	NA	5,961	–	12,430	–
			Trillion Btu															
1960	0.8	27.0	5.7	8.7	0.1	0.5	0.1	4.3	10.6	9.8	39.8	0.0	0.0	0.0	10.1	77.7	25.0	102.7
1965	1.2	34.3	6.7	9.9	0.1	0.7	0.3	4.7	5.7	15.2	43.2	0.0	0.0	0.0	13.4	92.1	32.1	124.2
1970	0.6	42.5	8.9	7.4	1.6	0.9	0.3	3.3	7.1	19.0	48.5	0.0	0.0	0.0	20.6	112.2	49.8	162.1
1971	0.8	44.3	8.9	10.2	1.6	1.1	0.3	3.0	7.4	18.7	51.1	0.0	0.0	0.0	20.5	116.7	49.5	166.2
1972	1.0	40.3	9.9	10.9	1.7	1.3	0.3	3.7	8.7	21.4	57.9	0.0	0.0	0.0	20.0	119.2	48.1	167.3
1973	0.9	43.4	9.3	12.1	1.8	1.1	0.4	3.0	9.9	22.7	60.3	0.0	0.0	0.0	17.2	121.8	41.1	162.9
1974	1.2	39.7	8.1	14.1	0.6	0.8	0.4	2.6	13.4	20.9	60.8	0.0	0.0	0.0	20.2	121.8	49.3	171.2
1975	1.0	34.6	6.1	14.5	0.4	0.6	0.3	4.1	12.3	20.5	58.9	0.0	0.0	0.0	17.6	112.1	42.5	154.6
1976	2.4	31.2	8.5	17.0	0.2	0.7	0.3	4.1	14.5	19.6	65.0	0.0	0.0	0.0	20.2	118.9	48.7	167.5
1977	3.5	30.4	7.5	16.8	0.2	0.6	0.3	3.7	13.7	21.1	63.9	0.0	0.0	0.0	19.7	117.5	47.4	164.9
1978	3.5	29.4	6.3	13.8	0.3	0.4	0.3	3.0	14.3	21.0	59.4	0.0	0.0	0.0	20.8	113.1	51.0	164.1
1979	4.2	24.9	7.0	16.2	0.0	1.3	0.3	3.5	35.3	19.8	83.5	0.0	0.0	0.0	20.9	133.4	50.3	183.7
1980	2.9	20.3	6.8	11.2	0.0	2.9	0.3	3.3	25.3	18.1	67.8	0.0	0.0	0.0	19.8	110.9	48.2	159.1
1981	5.4	17.5	6.9	11.3	0.1	1.4	0.3	3.5	15.7	16.8	56.0	0.0	0.0	0.0	20.0	98.7	47.6	146.3
1982	4.3	13.7	5.9	8.1	0.0	2.0	0.3	3.3	10.1	15.6	45.3	0.0	0.0	0.0	16.2	79.6	39.0	118.6
1983	3.3	13.9	7.5	18.5	(s)	1.4	0.3	2.7	7.1	14.8	52.3	0.0	0.0	0.0	14.4	83.8	34.5	118.3
1984	3.1	12.0	8.1	18.9	(s)	1.7	0.3	2.9	4.3	16.4	52.6	0.0	0.0	0.0	19.2	86.9	44.7	131.6
1985	4.1	10.3	9.7	33.8	(s)	2.9	0.3	3.6	(s)	15.9	66.2	0.0	0.0	0.0	19.9	100.5	46.8	147.3
1986	5.7	9.3	13.2	12.4	(s)	2.5	0.3	3.3	0.1	16.4	48.2	0.0	0.0	0.0	21.0	84.2	48.3	132.4
1987	3.4	10.1	10.9	10.5	(s)	3.1	0.3	3.0	0.1	20.7	48.6	0.0	0.0	0.0	21.5	83.6	49.1	132.8
1988	3.9	10.6	9.8	9.4	(s)	2.3	0.3	3.0	1.3	23.0	49.2	0.0	0.0	0.0	22.0	85.7	49.7	135.3
1989	3.6	11.9	11.6	16.2	(s)	2.1	0.3	3.3	1.1	23.6	58.2	0.0	0.0	0.0	22.3	96.0	50.0	146.0
1990	4.0	12.0	9.9	16.0	(s)	2.6	0.3	3.2	1.3	25.6	59.0	R f 0.4	f 5.0	f 0.0	22.3	R f 102.7	48.7	R f 151.4
1991	5.2	11.9	9.0	20.7	(s)	0.6	0.3	3.2	0.9	22.5	57.2	R 0.4	5.0	0.0	22.6	R 102.3	49.1	R 151.4
1992	4.7	14.4	8.7	15.1	(s)	1.0	0.3	3.0	0.5	28.4	57.0	R 0.5	5.2	0.0	21.9	R 103.8	46.7	R 150.5
1993	6.8	15.3	11.3	15.9	(s)	5.5	0.3	3.0	4.3	25.2	65.5	R 0.7	5.3	0.0	19.9	R 113.5	R 42.1	R 155.5
1994	10.5	16.6	13.0	13.3	(s)	1.3	0.3	3.2	2.3	27.1	60.5	0.6	5.3	0.0	20.3	113.8	42.4	156.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Montana

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	1	(s)	1,006	2,839	265	29	137	5,972	377	10,624	0	0	–	0	–
1965	(s)	(s)	312	2,676	384	13	148	6,678	325	10,536	0	0	–	0	–
1970	(s)	1	43	3,020	649	36	154	8,407	119	12,428	0	0	–	0	–
1971	(s)	1	42	3,116	767	56	145	8,797	87	13,010	0	0	–	0	–
1972	(s)	1	94	3,408	762	78	155	9,267	63	13,827	0	0	–	0	–
1973	(s)	2	110	3,834	757	65	159	10,179	44	15,149	0	0	–	0	–
1974	(s)	2	105	4,266	780	53	152	9,922	122	15,400	0	0	–	0	–
1975	(s)	2	79	3,835	818	50	162	9,682	160	14,786	0	0	–	0	–
1976	(s)	1	94	4,101	753	50	180	10,668	141	15,987	0	0	–	0	–
1977	(s)	1	92	4,049	772	37	196	10,240	136	15,522	0	0	–	0	–
1978	0	2	87	4,451	699	46	211	12,064	134	17,692	0	0	–	0	–
1979	0	2	122	4,791	907	18	220	10,320	24	16,403	0	0	–	0	–
1980	0	3	159	4,759	920	45	196	9,705	0	15,786	0	0	–	0	–
1981	0	2	177	3,834	800	52	188	10,024	0	15,075	0	0	–	0	–
1982	0	2	92	3,866	625	29	172	9,671	0	14,454	0	0	–	0	–
1983	0	2	102	4,106	652	54	180	9,940	3	15,036	0	0	–	0	–
1984	0	2	77	4,540	642	69	192	9,831	2	15,353	0	0	–	0	–
1985	0	2	91	4,273	678	51	179	9,437	(s)	14,708	0	0	–	0	–
1986	0	2	105	4,101	867	55	175	9,445	0	14,748	0	0	–	0	–
1987	0	2	82	4,157	718	38	197	9,582	0	14,775	0	0	–	0	–
1988	0	2	107	4,192	809	48	190	9,802	0	15,150	0	0	–	0	–
1989	0	2	95	4,266	750	53	195	9,598	0	14,957	0	0	–	0	–
1990	0	2	111	4,169	708	67	201	9,575	0	14,831	[e]0	0	–	0	–
1991	0	2	108	4,161	615	48	180	9,684	0	14,795	0	0	–	0	–
1992	0	3	75	4,705	864	35	183	10,102	0	15,965	0	0	–	0	–
1993	0	4	64	4,758	901	43	187	10,417	0	16,370	0	0	–	0	–
1994	0	4	75	5,559	855	58	195	10,482	0	17,224	0	0	–	0	–
			Trillion Btu												
1960	(s)	0.5	5.1	16.5	1.4	0.1	0.8	31.4	2.4	57.7	0.0	0.0	58.2	0.0	58.2
1965	(s)	0.4	1.6	15.6	2.1	0.1	0.9	35.1	2.0	57.3	0.0	0.0	57.8	0.0	57.8
1970	(s)	0.7	0.2	17.6	3.6	0.1	0.9	44.2	0.7	67.4	0.0	0.0	68.1	0.0	68.1
1971	(s)	0.8	0.2	18.2	4.3	0.2	0.9	46.2	0.5	70.5	0.0	0.0	71.3	0.0	71.3
1972	(s)	1.1	0.5	19.9	4.3	0.3	0.9	48.7	0.4	74.9	0.0	0.0	76.0	0.0	76.0
1973	(s)	1.7	0.6	22.3	4.2	0.2	1.0	53.5	0.3	82.1	0.0	0.0	83.8	0.0	83.8
1974	(s)	1.8	0.5	24.8	4.4	0.2	0.9	52.1	0.8	83.7	0.0	0.0	85.5	0.0	85.5
1975	(s)	1.8	0.4	22.3	4.6	0.2	1.0	50.9	1.0	80.4	0.0	0.0	82.1	0.0	82.1
1976	(s)	1.5	0.5	23.9	4.2	0.2	1.1	56.0	0.9	86.8	0.0	0.0	88.3	0.0	88.3
1977	(s)	1.5	0.5	23.6	4.3	0.1	1.2	53.8	0.9	84.3	0.0	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	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	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	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	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	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	(s)	81.6	0.0	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	(s)	83.5	0.0	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	(s)	80.0	0.0	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	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	0.0	82.4	0.0	82.4
1988	0.0	2.3	0.5	24.4	4.5	0.2	1.2	51.5	0.0	82.3	0.0	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	0.0	83.8	0.0	83.8
1990	0.0	2.1	0.6	24.3	4.0	0.2	1.2	50.3	0.0	80.6	[e]0.0	0.0	[e]82.7	0.0	[e]82.7
1991	0.0	2.4	0.5	24.2	3.5	0.2	1.1	50.9	0.0	80.4	0.0	0.0	82.8	0.0	82.8
1992	0.0	3.1	0.4	27.4	4.8	0.1	1.1	53.1	0.0	86.9	0.0	0.0	90.0	0.0	90.0
1993	0.0	3.8	0.3	27.7	5.0	0.2	1.1	54.7	0.0	89.1	0.0	0.0	92.9	0.0	92.9
1994	0.0	3.6	0.4	32.4	4.8	0.2	1.2	55.1	0.0	94.0	0.0	0.0	97.6	0.0	97.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Montana

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	187	0	187	(s)	(s)	(s)	0	(s)	0	5,800	0	0	0	–
1965	296	0	296	2	1	(s)	0	1	0	8,388	37	0	0	–
1970	723	0	723	3	26	(s)	0	26	0	8,744	73	0	0	–
1971	672	0	672	1	(s)	(s)	0	(s)	0	9,593	61	0	0	–
1972	769	0	769	1	15	3	0	17	0	9,443	51	0	0	–
1973	893	0	893	2	143	26	0	169	0	7,518	48	0	0	–
1974	854	0	854	1	12	2	0	14	0	9,723	16	0	0	–
1975	1,089	0	1,089	1	53	1	0	54	0	10,164	14	0	0	–
1976	2,374	0	2,374	1	78	4	0	81	0	12,400	37	0	0	–
1977	3,197	0	3,197	1	191	5	0	195	0	8,458	46	0	0	–
1978	3,184	0	3,184	1	94	4	0	98	0	11,706	52	0	0	–
1979	3,461	0	3,461	2	129	17	0	147	0	10,342	52	0	0	–
1980	3,352	0	3,352	4	0	59	0	59	0	9,963	17	0	0	–
1981	3,338	0	3,338	2	0	39	0	39	0	11,321	34	0	0	–
1982	2,596	0	2,596	(s)	0	31	0	31	0	10,918	28	0	0	–
1983	2,356	0	2,356	(s)	0	31	0	31	0	11,559	39	0	0	–
1984	5,113	0	5,113	(s)	0	78	0	78	0	11,110	57	0	(s)	–
1985	5,480	0	5,480	(s)	0	38	0	38	0	10,244	59	0	(s)	–
1986	7,438	0	7,438	(s)	0	25	0	25	0	10,855	61	0	(s)	–
1987	7,530	0	7,530	(s)	0	44	0	44	0	8,951	49	0	0	–
1988	10,410	0	10,410	(s)	0	63	0	63	0	8,240	55	0	0	–
1989	10,208	0	10,208	(s)	0	60	0	60	0	9,565	72	0	0	–
1990	9,399	0	9,399	(s)	0	63	0	63	0	R10,711	75	0	0	–
1991	10,223	0	10,223	(s)	0	41	0	41	0	R11,944	62	0	0	–
1992	10,768	0	10,768	(s)	0	35	0	35	0	R8,254	79	0	(s)	–
1993	8,869	0	8,869	(s)	0	48	0	48	0	R9,575	78	0	0	–
1994	10,513	0	10,513	1	0	42	0	42	0	8,171	42	0	0	–
	Trillion Btu													
1960	2.5	0.0	2.5	0.4	(s)	(s)	0.0	(s)	0.0	62.4	0.0	0.0	0.0	65.3
1965	3.9	0.0	3.9	2.0	(s)	(s)	0.0	(s)	0.0	87.7	0.4	0.0	0.0	94.0
1970	11.2	0.0	11.2	2.6	0.2	(s)	0.0	0.2	0.0	91.8	0.8	0.0	0.0	106.5
1971	10.3	0.0	10.3	1.1	(s)	(s)	0.0	(s)	0.0	100.5	0.6	0.0	0.0	112.5
1972	11.9	0.0	11.9	1.4	0.1	(s)	0.0	0.1	0.0	98.0	0.5	0.0	0.0	112.0
1973	14.0	0.0	14.0	2.7	0.9	0.2	0.0	1.1	0.0	78.1	0.5	0.0	0.0	96.4
1974	13.3	0.0	13.3	1.3	0.1	(s)	0.0	0.1	0.0	101.5	0.2	0.0	0.0	116.4
1975	17.4	0.0	17.4	1.2	0.3	(s)	0.0	0.3	0.0	105.8	0.1	0.0	0.0	124.8
1976	39.6	0.0	39.6	0.8	0.5	(s)	0.0	0.5	0.0	128.6	0.4	0.0	0.0	170.0
1977	54.3	0.0	54.3	1.1	1.2	(s)	0.0	1.2	0.0	88.3	0.5	0.0	0.0	145.4
1978	53.8	0.0	53.8	1.0	0.6	(s)	0.0	0.6	0.0	121.3	0.5	0.0	0.0	177.3
1979	59.0	0.0	59.0	2.5	0.8	0.1	0.0	0.9	0.0	107.1	0.5	0.0	0.0	170.1
1980	57.0	0.0	57.0	4.4	0.0	0.3	0.0	0.3	0.0	103.5	0.2	0.0	0.0	165.4
1981	57.0	0.0	57.0	2.2	0.0	0.2	0.0	0.2	0.0	118.3	0.4	0.0	0.0	178.2
1982	44.2	0.0	44.2	0.4	0.0	0.2	0.0	0.2	0.0	114.1	0.3	0.0	0.0	159.2
1983	39.3	0.0	39.3	0.4	0.0	0.2	0.0	0.2	0.0	121.6	0.4	0.0	0.0	161.9
1984	87.0	0.0	87.0	0.4	0.0	0.5	0.0	0.5	0.0	116.0	0.6	0.0	(s)	204.5
1985	94.8	0.0	94.8	0.6	0.0	0.2	0.0	0.2	0.0	107.0	0.6	0.0	(s)	203.3
1986	127.2	0.0	127.2	0.5	0.0	0.1	0.0	0.1	0.0	113.4	0.6	0.0	(s)	241.9
1987	129.4	0.0	129.4	0.6	0.0	0.3	0.0	0.3	0.0	93.3	0.5	0.0	0.0	224.0
1988	177.4	0.0	177.4	0.3	0.0	0.4	0.0	0.4	0.0	85.1	0.6	0.0	0.0	263.7
1989	173.7	0.0	173.7	0.4	0.0	0.4	0.0	0.4	0.0	98.7	0.7	0.0	0.0	273.9
1990	161.0	0.0	161.0	0.5	0.0	0.4	0.0	0.4	0.0	R110.7	0.8	0.0	0.0	273.4
1991	174.2	0.0	174.2	0.3	0.0	0.2	0.0	0.2	0.0	R123.6	0.6	0.0	0.0	299.1
1992	184.7	0.0	184.7	0.3	0.0	0.2	0.0	0.2	0.0	R85.0	0.8	0.0	(s)	271.1
1993	150.7	0.0	150.7	0.3	0.0	0.3	0.0	0.3	0.0	R98.4	0.8	0.0	0.0	250.6
1994	178.7	0.0	178.7	0.7	0.0	0.2	0.0	0.2	0.0	83.9	0.4	0.0	0.0	264.5

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Nebraska

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	59	25,729	0	959	48	0	-536	–
1965	896	166	655	410	3,689	1,371	790	3,407	425	15,745	332	50	26,875	-5	1,116	0	0	2,652	–
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	131	37,267	0	1,359	0	0	9,752	–
1972	1,488	225	889	89	9,097	1,721	771	6,006	476	20,414	720	137	40,320	0	1,372	0	0	6,389	–
1973	1,685	230	884	172	9,307	1,665	782	5,593	542	20,948	670	151	40,714	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	151	39,837	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	145	39,740	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	153	43,798	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	144	43,879	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	154	46,268	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	152	42,272	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	146	36,093	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	152	33,589	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	68	35,308	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	74	37,150	6,082	1,346	0	0	-2,394	–
1984	6,939	134	631	107	11,986	1,385	109	2,118	380	17,871	70	74	34,729	5,780	1,345	0	0	-5,200	–
1985	6,653	126	473	96	12,384	1,357	74	2,590	354	17,733	62	75	35,198	4,134	1,441	0	0	2,271	–
1986	6,288	105	954	117	12,051	1,353	168	2,449	346	17,757	252	R277	R35,725	7,658	1,678	0	0	-8,000	–
1987	6,744	109	1,241	90	12,299	1,373	104	3,218	391	17,844	265	R282	R37,108	8,589	1,567	0	0	-11,817	–
1988	8,057	122	1,262	96	13,995	1,505	76	3,500	377	18,634	412	R290	R40,145	6,828	1,350	0	0	-9,257	–
1989	7,587	120	1,130	93	12,432	1,488	22	3,622	387	18,418	376	R286	R38,254	8,077	1,158	0	0	-9,940	–
1990	8,266	111	1,388	83	12,455	1,501	41	2,912	398	18,345	260	R316	R37,700	7,511	RINA	INA	INA	R-11,429	–
1991	8,859	116	1,418	84	13,022	1,192	17	3,167	356	17,795	200	R26	R37,280	8,048	RNA	NA	NA	R-13,193	–
1992	8,212	107	898	81	14,091	1,198	20	3,225	363	17,955	187	R28	R38,046	8,748	RNA	NA	NA	R-14,979	–
1993	9,666	126	797	72	14,049	1,157	24	2,984	370	18,024	278	R30	R37,785	6,805	RNA	NA	NA	R-13,260	–
1994	9,300	127	1,031	76	15,692	1,259	21	3,080	387	18,050	215	31	39,841	6,345	NA	NA	NA	-8,083	–
			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	0.4	136.5	0.0	10.3	0.5	0.0	-1.8	305.9
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
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	0.8	195.2	0.0	14.2	0.0	0.0	33.3	494.5
1972	33.5	226.4	5.9	0.4	53.0	9.4	4.4	22.6	2.9	107.2	4.5	0.8	211.2	0.0	14.2	0.0	0.0	21.8	507.1
1973	36.9	230.8	5.9	0.9	54.2	9.1	4.4	21.0	3.3	110.0	4.2	0.9	213.9	6.5	14.2	0.0	0.0	17.6	520.0
1974	32.8	223.3	6.5	0.9	51.5	9.9	3.5	19.7	3.1	107.2	6.6	0.9	209.9	44.6	13.5	0.0	0.0	-7.5	516.5
1975	32.9	217.5	5.0	0.7	49.6	9.2	3.1	21.3	3.0	108.4	6.9	0.9	208.1	65.2	12.6	0.0	0.0	-13.0	523.2
1976	53.7	197.4	3.8	0.7	60.7	9.3	3.6	24.3	3.3	113.4	9.5	0.9	229.5	64.3	13.2	0.0	0.0	-5.9	552.3
1977	59.3	188.4	7.3	0.9	63.6	9.8	3.2	21.8	2.4	114.6	6.8	0.8	231.1	80.2	12.7	0.0	0.0	-17.4	554.4
1978	59.8	162.7	10.7	1.0	73.6	11.0	2.6	20.1	2.5	116.0	8.0	0.9	246.3	84.5	12.3	0.0	0.0	-11.8	553.8
1979	77.6	169.0	5.4	0.9	74.9	10.5	0.3	17.2	2.6	107.6	4.4	0.9	224.9	94.2	12.9	0.0	0.0	-35.9	542.6
1980	93.9	159.5	4.8	1.1	53.3	8.7	0.4	16.5	2.4	100.3	1.4	0.9	189.7	63.1	13.9	0.0	0.0	-17.3	502.7
1981	98.6	135.3	4.4	1.1	47.8	8.0	0.5	14.7	2.3	96.3	0.4	0.9	176.4	66.0	12.5	0.0	0.0	-13.0	475.8
1982	96.7	135.6	4.9	0.6	53.9	7.9	0.5	17.3	2.1	95.9	1.2	0.4	184.8	96.9	12.7	0.0	0.0	-39.8	486.9
1983	104.8	127.0	4.4	0.6	67.3	8.1	0.4	17.4	2.2	94.1	0.7	0.4	195.6	66.3	14.2	0.0	0.0	-8.2	499.6
1984	124.3	131.9	4.2	0.5	69.8	7.6	0.6	7.6	2.3	93.9	0.4	0.4	187.4	62.7	14.0	0.0	0.0	-17.7	502.5
1985	115.5	123.9	3.1	0.5	72.1	7.4	0.4	9.3	2.1	93.2	0.4	0.4	189.0	44.7	15.1	0.0	0.0	7.8	495.9
1986	109.9	104.0	6.3	0.6	70.2	7.4	1.0	8.9	2.1	93.3	1.6	R1.5	R192.9	82.7	17.5	0.0	0.0	-27.3	R479.7
1987	116.5	107.7	8.2	0.5	71.6	7.5	0.6	11.8	2.4	93.7	1.7	R1.5	R199.5	92.6	16.3	0.0	0.0	-40.3	R492.3
1988	139.3	119.9	8.4	0.5	81.5	8.2	0.4	12.8	2.3	97.9	2.6	R1.6	R216.2	73.4	13.9	0.0	0.0	-31.6	R531.1
1989	132.0	118.7	7.5	0.5	72.4	8.2	0.1	13.3	2.3	96.8	2.4	R1.6	R205.0	86.6	12.0	0.0	0.0	-33.9	R520.4
1990	142.0	109.2	9.2	0.4	72.6	8.3	0.2	10.6	2.4	96.4	1.6	R1.7	R203.4	80.2	I11.8	I5.7	I(s)	-39.0	RI512.1
1991	152.0	114.0	9.4	0.4	75.9	6.6	0.1	11.4	2.2	93.5	1.3	R0.1	R200.9	86.4	10.8	5.6	(s)	R-45.0	R523.8
1992	140.9	104.6	6.0	0.4	82.1	6.6	0.1	11.7	2.2	94.3	1.2	R0.2	R204.7	93.4	11.1	6.2	(s)	R-51.1	R508.7
1993	166.1	123.0	5.3	0.4	81.8	6.4	0.1	10.8	2.2	94.7	1.7	R0.2	R203.6	72.7	10.3	5.5	(s)	R-45.2	R534.8
1994	160.3	124.8	6.8	0.4	91.4	7.0	0.1	11.2	2.3	94.8	1.4	0.2	215.7	67.7	13.5	5.7	(s)	-27.6	558.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Nebraska

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	76	0	76	39	140	337	1,790	2,267	0	0	1,907	–	4,744	–
1965	21	0	21	48	111	453	2,545	3,110	0	0	2,816	–	6,723	–
1970	13	0	13	58	196	379	3,889	4,464	0	0	4,107	–	9,953	–
1971	12	0	12	58	189	450	3,745	4,385	0	0	4,308	–	10,416	–
1972	15	0	15	60	216	531	3,990	4,738	0	0	4,081	–	9,824	–
1973	8	0	8	50	210	536	3,518	4,264	0	0	4,436	–	10,620	–
1974	5	0	5	49	182	411	3,044	3,637	0	0	4,512	–	11,002	–
1975	3	0	3	54	173	372	3,143	3,688	0	0	4,693	–	11,321	–
1976	4	0	4	55	253	428	3,170	3,851	0	0	4,722	–	11,375	–
1977	6	0	6	53	228	376	2,809	3,413	0	0	4,859	–	11,733	–
1978	8	0	8	48	266	288	2,864	3,418	0	0	5,347	–	13,081	–
1979	21	0	21	54	455	26	1,428	1,909	0	0	5,263	–	12,701	–
1980	7	0	7	49	360	10	1,406	1,775	0	0	5,521	–	13,425	–
1981	6	0	6	44	385	29	1,312	1,726	0	0	5,601	–	13,350	–
1982	9	0	9	51	366	29	1,437	1,832	0	0	5,845	–	14,039	–
1983	19	1	20	47	248	46	1,709	2,003	0	0	6,438	–	15,425	–
1984	32	0	32	48	268	69	766	1,102	0	0	6,268	–	14,589	–
1985	4	0	4	47	340	40	998	1,379	0	0	6,195	–	14,554	–
1986	1	0	1	42	283	19	889	1,190	0	0	6,325	–	14,549	–
1987	1	0	1	39	202	13	1,221	1,436	0	0	6,378	–	14,574	–
1988	16	0	16	44	199	16	1,195	1,410	0	0	6,813	–	15,403	–
1989	2	0	2	45	249	8	1,210	1,467	0	0	6,723	–	15,078	–
1990	1	0	1	41	169	4	978	1,151	[e] 201	[e] 2	6,800	–	R 14,858	–
1991	3	2	5	45	197	5	1,227	1,430	212	2	7,138	–	R 15,520	–
1992	2	1	3	41	145	10	1,245	1,401	223	2	6,561	–	R 14,007	–
1993	2	0	2	48	168	11	1,171	1,349	186	3	7,226	–	R 15,261	–
1994	2	0	2	44	161	5	1,090	1,256	182	4	7,379	–	15,389	–
	Trillion Btu													
1960	1.6	0.0	1.6	40.9	0.8	1.9	7.2	9.9	0.0	0.0	6.5	58.9	16.2	75.1
1965	0.4	0.0	0.4	47.2	0.6	2.6	10.2	13.4	0.0	0.0	9.6	70.7	22.9	93.6
1970	0.3	0.0	0.3	58.8	1.1	2.1	14.7	18.0	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	19.9	78.0	47.9	125.9
1983	0.4	(s)	0.4	46.4	1.4	0.3	6.2	7.9	0.0	0.0	22.0	76.7	52.6	129.3
1984	0.7	0.0	0.7	46.9	1.6	0.4	2.8	4.7	0.0	0.0	21.4	73.7	49.8	123.5
1985	0.1	0.0	0.1	45.8	2.0	0.2	3.6	5.8	0.0	0.0	21.1	72.9	49.7	122.5
1986	(s)	0.0	(s)	42.0	1.6	0.1	3.2	5.0	0.0	0.0	21.6	68.6	49.6	118.3
1987	(s)	0.0	(s)	38.3	1.2	0.1	4.5	5.7	0.0	0.0	21.8	65.8	49.7	115.5
1988	0.3	0.0	0.3	42.8	1.2	0.1	4.4	5.6	0.0	0.0	23.2	71.9	52.6	124.5
1989	(s)	0.0	(s)	44.2	1.5	(s)	4.5	6.0	0.0	0.0	22.9	73.2	51.4	124.6
1990	(s)	0.0	(s)	40.8	1.0	(s)	3.5	4.6	[e] 4.0	[e] (s)	23.2	R [e] 72.7	50.7	R [e] 123.4
1991	0.1	(s)	0.1	44.0	1.1	(s)	4.4	5.6	4.2	(s)	24.4	R 78.3	R 53.0	R 131.3
1992	(s)	(s)	0.1	40.6	0.8	0.1	4.5	5.4	4.5	(s)	22.4	R 72.9	47.8	R 120.7
1993	(s)	0.0	(s)	47.0	1.0	0.1	4.2	5.3	3.7	(s)	24.7	R 80.7	R 52.1	R 132.8
1994	0.1	0.0	0.1	43.7	0.9	(s)	4.0	4.9	3.6	(s)	25.2	77.5	52.5	130.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
–=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Nebraska

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	39	0	39	26	112	87	449	95	84	827	2,025	–	4,835	–
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	(s)	36	39	832	6	302	120	0	1,260	4,886	–	11,705	–
1984	59	0	59	42	898	10	135	95	0	1,139	5,643	–	13,134	–
1985	8	0	8	39	800	12	176	158	0	1,146	5,714	–	13,425	–
1986	3	0	3	36	333	8	157	142	0	640	5,798	–	13,336	–
1987	3	0	3	34	354	4	216	139	(s)	713	5,956	–	13,608	–
1988	29	0	29	39	299	2	211	135	13	659	6,342	–	14,337	–
1989	3	0	3	37	228	3	214	126	43	613	6,473	–	14,517	–
1990	3	0	3	36	247	23	173	154	20	617	6,451	–	R 14,096	–
1991	5	1	6	40	183	3	217	100	27	529	6,777	–	R 14,735	–
1992	3	1	3	34	270	1	220	92	41	624	6,470	–	R 13,813	–
1993	3	0	3	35	306	4	207	21	19	557	6,560	–	R 13,855	–
1994	5	0	5	39	362	5	192	21	19	600	7,149	–	14,909	–
	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
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
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	(s)	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	(s)	0.8	38.4	4.8	(s)	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	0.5	0.5	0.0	6.3	19.3	67.9	44.8	112.7
1985	0.2	0.0	0.2	38.7	4.7	0.1	0.6	0.8	0.0	6.2	19.5	64.6	45.8	110.4
1986	0.1	0.0	0.1	36.1	1.9	(s)	0.6	0.7	0.0	3.3	19.8	59.3	45.5	104.8
1987	0.1	0.0	0.1	33.7	2.1	(s)	0.8	0.7	(s)	3.6	20.3	57.7	46.4	104.1
1988	0.5	0.0	0.5	38.7	1.7	(s)	0.8	0.7	0.1	3.3	21.6	64.2	48.9	113.1
1989	0.1	0.0	0.1	36.9	1.3	(s)	0.8	0.7	0.3	3.1	22.1	62.1	49.5	111.6
1990	0.1	0.0	0.1	35.9	1.4	0.1	0.6	0.8	0.1	3.1	22.0	61.1	48.1	109.2
1991	0.1	(s)	0.1	39.7	1.1	(s)	0.8	0.5	0.2	2.6	23.1	65.5	50.3	115.8
1992	0.1	(s)	0.1	33.8	1.6	(s)	0.8	0.5	0.3	3.1	22.1	59.0	47.1	106.2
1993	0.1	0.0	0.1	33.9	1.8	(s)	0.7	0.1	0.1	2.8	22.4	59.1	47.3	R 106.4
1994	0.1	0.0	0.1	38.4	2.1	(s)	0.7	0.1	0.1	3.1	24.4	65.9	50.9	116.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Nebraska

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	408	37	780	2,405	275	441	97	2,146	18	59	6,222	(s)	0	0	889	–	2,210	–
1965	349	48	655	1,956	250	314	130	1,790	32	50	5,177	(s)	0	0	1,182	–	2,821	–
1970	240	56	1,137	3,271	130	823	160	1,319	139	94	7,073	(s)	0	0	2,145	–	5,198	–
1971	193	57	1,111	3,309	143	814	129	1,500	115	131	7,252	(s)	0	0	2,193	–	5,303	–
1972	218	57	889	3,544	138	1,078	138	1,241	162	137	7,326	(s)	0	0	2,102	–	5,059	–
1973	312	73	884	3,511	143	1,220	198	703	146	151	6,956	0	0	0	2,310	–	5,530	–
1974	319	72	976	3,313	133	1,458	190	1,611	146	151	7,978	0	0	0	2,606	–	6,353	–
1975	308	74	754	3,234	111	1,811	193	1,644	137	145	8,030	0	0	0	3,200	–	7,718	–
1976	604	65	570	4,447	125	2,547	215	1,608	161	153	9,826	0	0	0	3,542	–	8,532	–
1977	553	61	1,098	3,830	111	2,397	41	1,631	183	144	9,434	0	0	0	3,599	–	8,690	–
1978	576	52	1,606	4,558	112	1,845	44	1,612	130	154	10,061	0	0	0	3,784	–	9,258	–
1979	538	52	817	5,574	26	2,828	46	1,563	40	152	11,045	0	0	0	4,079	–	9,844	–
1980	269	52	719	3,411	31	2,675	41	1,471	29	146	8,523	0	0	0	4,155	–	10,104	–
1981	376	43	671	3,068	48	2,271	40	1,356	37	152	7,642	0	0	0	3,881	–	9,249	–
1982	325	37	736	3,352	50	2,925	36	1,205	90	68	8,462	0	0	0	3,462	–	8,315	–
1983	216	37	668	3,550	23	2,601	38	1,094	104	74	8,153	0	0	0	3,665	–	8,780	–
1984	280	39	631	3,834	30	1,145	40	961	70	74	6,785	0	0	0	3,725	–	8,671	–
1985	261	33	473	4,292	22	1,359	38	1,392	62	75	7,712	0	0	0	3,794	–	8,913	–
1986	339	20	954	4,264	142	1,365	37	1,189	199	R277	R8,427	0	0	0	3,757	–	8,643	–
1987	312	30	1,241	3,880	87	1,732	41	1,246	206	R282	R8,714	0	0	0	3,851	–	8,799	–
1988	268	32	1,262	4,352	58	2,042	40	1,065	322	R290	R9,431	0	0	0	4,104	–	9,278	–
1989	279	31	1,130	3,996	11	2,133	41	1,059	271	R286	R8,927	0	0	0	4,370	–	9,801	–
1990	235	26	1,388	4,140	14	1,700	42	944	239	R316	R8,784	R[f]NA	[f]NA	[f]NA	4,618	–	R10,091	–
1991	324	25	1,418	4,654	9	1,659	38	940	170	R26	R8,915	RNA	NA	NA	4,690	–	R10,197	–
1992	325	26	898	4,915	8	1,712	39	825	146	R28	R8,571	RNA	NA	NA	4,752	–	R10,146	–
1993	364	39	797	4,922	9	1,559	39	696	259	R30	R8,312	RNA	NA	NA	4,963	–	R10,481	–
1994	414	37	1,031	5,884	10	1,726	41	734	196	31	9,653	NA	NA	NA	5,345	–	11,146	–
			Trillion Btu															
1960	9.0	38.3	5.2	14.0	1.6	1.8	0.6	11.3	0.1	0.4	34.8	(s)	0.0	0.0	3.0	85.1	7.5	92.7
1965	7.6	47.7	4.3	11.4	1.4	1.3	0.8	9.4	0.2	0.3	29.1	(s)	0.0	0.0	4.0	88.5	9.6	98.1
1970	4.9	56.9	7.5	19.1	0.7	3.1	1.0	6.9	0.9	0.6	39.8	(s)	0.0	0.0	7.3	108.9	17.7	126.7
1971	3.9	57.1	7.4	19.3	0.8	3.1	0.8	7.9	0.7	0.8	40.7	(s)	0.0	0.0	7.5	109.2	18.1	127.3
1972	4.4	57.6	5.9	20.6	0.8	4.1	0.8	6.5	1.0	0.8	40.6	(s)	0.0	0.0	7.2	109.7	17.3	127.0
1973	6.3	73.7	5.9	20.5	0.8	4.6	1.2	3.7	0.9	0.9	38.4	0.0	0.0	0.0	7.9	126.3	18.9	145.2
1974	6.4	72.1	6.5	19.3	0.8	5.4	1.2	8.5	0.9	0.9	43.4	0.0	0.0	0.0	8.9	130.7	21.7	152.4
1975	5.9	73.5	5.0	18.8	0.6	6.7	1.2	8.6	0.9	0.9	42.7	0.0	0.0	0.0	10.9	133.1	26.3	159.4
1976	11.6	64.7	3.8	25.9	0.7	9.5	1.3	8.4	1.0	0.9	51.5	0.0	0.0	0.0	12.1	139.9	29.1	169.0
1977	10.5	61.1	7.3	22.3	0.6	8.8	0.2	8.6	1.1	0.8	49.8	0.0	0.0	0.0	12.3	133.7	29.7	163.4
1978	10.7	52.3	10.7	26.5	0.6	6.8	0.3	8.5	0.8	0.9	55.1	0.0	0.0	0.0	12.9	131.0	31.6	162.6
1979	10.1	51.8	5.4	32.5	0.1	10.4	0.3	8.2	0.2	0.9	58.1	0.0	0.0	0.0	13.9	133.9	33.6	167.5
1980	5.2	50.9	4.8	19.9	0.2	9.8	0.3	7.7	0.2	0.9	43.7	0.0	0.0	0.0	14.2	113.9	34.5	148.4
1981	7.0	42.2	4.4	17.9	0.3	8.3	0.2	7.1	0.2	0.9	39.3	0.0	0.0	0.0	13.2	101.8	31.6	133.4
1982	6.1	36.4	4.9	19.5	0.3	10.6	0.2	6.3	0.6	0.4	42.8	0.0	0.0	0.0	11.8	97.1	28.4	125.4
1983	4.3	36.7	4.4	20.7	0.1	9.4	0.2	5.7	0.7	0.4	41.7	0.0	0.0	0.0	12.5	95.1	30.0	125.1
1984	5.4	37.9	4.2	22.3	0.2	4.1	0.2	5.0	0.4	0.4	37.0	0.0	0.0	0.0	12.7	93.0	29.6	122.6
1985	4.9	32.6	3.1	25.0	0.1	4.9	0.2	7.3	0.4	0.4	41.5	0.0	0.0	0.0	12.9	91.9	30.4	122.3
1986	6.3	20.3	6.3	24.8	0.8	5.0	0.2	6.2	1.3	R1.5	R46.2	0.0	0.0	0.0	12.8	R85.6	29.5	R115.1
1987	5.8	29.6	8.2	22.6	0.5	6.3	0.3	6.5	1.3	R1.5	R47.3	0.0	0.0	0.0	13.1	R85.9	30.0	R125.9
1988	5.0	31.8	8.4	25.3	0.3	7.5	0.2	5.6	2.0	R1.6	R51.0	0.0	0.0	0.0	14.0	R101.8	31.7	R133.4
1989	5.3	30.2	7.5	23.3	0.1	7.9	0.2	5.6	1.7	R1.6	R47.8	0.0	0.0	0.0	14.9	R98.2	33.4	R131.7
1990	4.5	25.4	9.2	24.1	0.1	6.2	0.3	5.0	1.5	R1.7	R48.0	[f]0.0	[f]0.5	[f]0.0	15.8	R[f]94.1	34.4	R[f]128.5
1991	6.1	24.4	9.4	27.1	0.1	6.0	0.2	4.9	1.1	R0.1	R49.0	0.0	0.5	0.0	16.0	R96.0	34.8	R130.8
1992	6.0	25.9	6.0	28.6	(s)	6.2	0.2	4.3	0.9	R0.2	R46.5	0.0	0.5	0.0	16.2	R95.1	34.6	R129.7
1993	6.8	R37.7	5.3	28.7	0.1	5.6	0.2	3.7	1.6	R0.2	R45.3	0.0	0.5	0.0	16.9	R107.3	R35.8	R143.1
1994	7.9	36.5	6.8	34.3	0.1	6.3	0.2	3.9	1.2	0.2	53.0	0.0	0.5	0.0	18.2	116.1	38.0	154.1

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Nebraska

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	7	6	371	1,402	1,202	103	328	12,768	258	16,432	0	0	–	0	–
1965	1	9	410	1,439	1,371	99	295	13,861	109	17,583	0	0	–	0	–
1970	(s)	13	199	3,658	1,783	217	319	17,096	225	23,497	0	0	–	0	–
1971	(s)	13	197	3,784	1,812	247	316	17,618	175	24,149	0	0	–	0	–
1972	(s)	13	89	4,839	1,721	234	339	19,053	178	26,453	0	0	–	0	–
1973	(s)	14	172	5,146	1,665	234	344	20,124	165	27,849	0	0	–	0	–
1974	(s)	12	174	4,918	1,797	249	329	18,682	170	26,319	0	0	–	0	–
1975	(s)	10	141	4,618	1,679	231	299	18,871	138	25,976	0	0	–	0	–
1976	(s)	10	138	5,193	1,692	275	332	19,846	35	27,511	0	0	–	0	–
1977	(s)	12	183	6,352	1,771	220	348	20,049	26	28,948	0	0	–	0	–
1978	0	9	207	7,201	1,989	254	373	20,327	5	30,354	0	0	–	0	–
1979	0	7	181	6,171	1,900	175	391	18,775	14	27,605	0	0	–	0	–
1980	0	7	213	5,112	1,588	171	348	17,480	0	24,911	0	0	–	0	–
1981	0	6	214	4,329	1,466	210	334	16,823	3	23,377	0	0	–	0	–
1982	0	5	123	5,105	1,453	173	304	16,925	0	24,084	0	0	–	0	–
1983	0	4	119	6,838	1,482	206	318	16,691	0	25,654	0	0	–	0	–
1984	0	5	107	6,944	1,385	72	340	16,815	0	25,662	0	0	–	0	–
1985	0	6	96	6,890	1,357	57	317	16,183	0	24,900	0	0	–	0	–
1986	0	4	117	7,122	1,353	38	309	16,426	(s)	25,366	0	0	–	0	–
1987	0	4	90	7,831	1,373	50	350	16,460	(s)	26,153	0	0	–	0	–
1988	0	5	96	9,081	1,505	51	337	17,434	0	28,504	0	0	–	0	–
1989	0	5	93	7,911	1,488	65	346	17,234	0	27,136	0	0	–	0	–
1990	0	4	83	7,869	1,501	62	356	17,246	0	27,116	[e] 15,503	0	–	0	–
1991	0	2	84	7,961	1,192	64	319	16,755	0	26,375	12,289	0	–	0	–
1992	0	3	81	8,737	1,198	48	325	17,038	0	27,426	14,936	0	–	0	–
1993	0	3	72	8,611	1,157	48	331	17,307	0	27,525	16,669	0	–	0	–
1994	0	3	76	9,240	1,259	72	346	17,294	0	28,287	18,489	0	–	0	–
			Trillion Btu												
1960	0.2	6.5	1.9	8.2	6.4	0.4	2.0	67.1	1.6	87.6	0.0	0.0	94.2	0.0	94.2
1965	(s)	8.6	2.1	8.4	7.4	0.4	1.8	72.8	0.7	93.5	0.0	0.0	102.2	0.0	102.2
1970	(s)	13.2	1.0	21.3	9.8	0.8	1.9	89.8	1.4	126.1	0.0	0.0	139.3	0.0	139.3
1971	(s)	13.3	1.0	22.0	9.9	0.9	1.9	92.5	1.1	129.5	0.0	0.0	142.8	0.0	142.8
1972	(s)	13.3	0.4	28.2	9.4	0.9	2.1	100.1	1.1	142.2	0.0	0.0	155.5	0.0	155.5
1973	(s)	13.8	0.9	30.0	9.1	0.9	2.1	105.7	1.0	149.7	0.0	0.0	163.5	0.0	163.5
1974	(s)	11.6	0.9	28.6	9.9	0.9	2.0	98.1	1.1	141.5	0.0	0.0	153.2	0.0	153.2
1975	(s)	10.4	0.7	26.9	9.2	0.9	1.8	99.1	0.9	139.5	0.0	0.0	149.9	0.0	149.9
1976	(s)	10.4	0.7	30.2	9.3	1.0	2.0	104.3	0.2	147.8	0.0	0.0	158.1	0.0	158.1
1977	(s)	12.3	0.9	37.0	9.8	0.8	2.1	105.3	0.2	156.1	0.0	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	(s)	164.0	0.0	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	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	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	(s)	125.5	0.0	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	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	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	139.2	0.0	0.0	143.8	0.0	143.8
1985	0.0	5.5	0.5	40.1	7.4	0.2	1.9	85.0	0.0	135.2	0.0	0.0	140.6	0.0	140.6
1986	0.0	3.9	0.6	41.5	7.4	0.1	1.9	86.3	(s)	137.8	0.0	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	(s)	142.3	0.0	0.0	146.7	0.0	146.7
1988	0.0	4.6	0.5	52.9	8.2	0.2	2.0	91.6	0.0	155.4	0.0	0.0	160.1	0.0	160.1
1989	0.0	4.8	0.5	46.1	8.2	0.2	2.1	90.5	0.0	147.6	0.0	0.0	152.4	0.0	152.4
1990	0.0	3.5	0.4	45.8	8.3	0.2	2.2	90.6	0.0	147.5	[e] 1.2	0.0	[e] 151.0	0.0	[e] 151.0
1991	0.0	2.3	0.4	46.4	6.6	0.2	1.9	88.0	0.0	143.6	0.9	0.0	145.9	0.0	145.9
1992	0.0	2.5	0.4	50.9	6.6	0.2	2.0	89.5	0.0	149.6	1.1	0.0	152.1	0.0	152.1
1993	0.0	2.5	0.4	50.2	6.4	0.2	2.0	90.9	0.0	150.0	1.3	0.0	152.5	0.0	152.5
1994	0.0	3.2	0.4	53.8	7.0	0.3	2.1	90.8	0.0	154.4	1.4	0.0	157.7	0.0	157.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Nebraska

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	256	0	256	31	96	64	0	160	0	959	48	0	0	–
1965	486	0	486	36	107	71	0	178	-5	1,115	0	0	0	–
1970	1,006	0	1,006	48	188	126	0	314	0	1,370	0	0	0	–
1971	947	0	947	49	76	140	0	217	0	1,359	0	0	0	–
1972	1,228	0	1,228	49	175	280	0	455	0	1,372	0	0	0	–
1973	1,350	0	1,350	54	153	229	0	382	599	1,371	0	0	0	–
1974	1,228	0	1,228	48	497	251	0	748	3,996	1,294	0	0	0	–
1975	1,278	0	1,278	38	658	308	0	967	5,916	1,213	0	0	0	–
1976	2,012	0	2,012	20	1,000	280	0	1,279	5,824	1,276	0	0	0	–
1977	2,277	0	2,277	16	610	278	0	888	7,452	1,221	0	0	0	–
1978	2,367	0	2,367	13	929	338	0	1,267	7,725	1,187	0	0	0	–
1979	3,461	0	3,461	14	546	205	0	750	8,658	1,246	0	0	0	–
1980	4,702	0	4,702	12	176	86	0	262	5,783	1,336	0	0	0	–
1981	5,067	0	5,067	5	13	80	0	93	5,988	1,197	0	0	0	–
1982	5,048	0	5,048	2	(s)	132	0	132	8,753	1,212	0	0	0	–
1983	5,656	0	5,656	2	(s)	80	0	80	6,082	1,346	0	0	0	–
1984	6,569	0	6,569	1	0	41	0	41	5,780	1,345	0	0	0	–
1985	6,380	0	6,380	1	0	62	0	62	4,134	1,441	0	0	0	–
1986	5,945	0	5,945	2	53	50	0	103	7,658	1,678	0	0	0	–
1987	6,428	0	6,428	2	59	33	0	92	8,589	1,567	0	0	0	–
1988	7,744	0	7,744	2	76	64	0	140	6,828	1,350	0	0	0	–
1989	7,303	0	7,303	3	61	49	0	110	8,077	1,158	0	0	0	–
1990	8,027	0	8,027	4	1	31	0	31	7,511	1,140	0	0	0	–
1991	8,524	0	8,524	4	3	27	0	30	8,048	1,045	0	0	0	–
1992	7,881	0	7,881	2	0	25	0	25	8,748	1,075	6	0	0	–
1993	9,297	0	9,297	2	0	42	0	42	6,805	1,002	6	0	0	–
1994	8,879	0	8,879	3	1	45	0	45	6,345	1,312	9	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	0.5	0.0	0.0	50.2
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	0.0	60.6
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	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	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	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	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	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	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	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	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	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	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	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	0.0	174.7
1982	90.1	0.0	90.1	1.5	(s)	0.8	0.0	0.8	96.9	12.7	0.0	0.0	0.0	202.0
1983	99.4	0.0	99.4	1.5	(s)	0.5	0.0	0.5	66.3	14.2	0.0	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	14.0	0.0	0.0	0.0	195.3
1985	110.4	0.0	110.4	1.2	0.0	0.4	0.0	0.4	44.7	15.1	0.0	0.0	0.0	171.7
1986	103.6	0.0	103.6	1.7	0.3	0.3	0.0	0.6	82.7	17.5	0.0	0.0	0.0	206.1
1987	110.6	0.0	110.6	1.7	0.4	0.2	0.0	0.6	92.6	16.3	0.0	0.0	0.0	221.7
1988	133.5	0.0	133.5	2.0	0.5	0.4	0.0	0.9	73.4	13.9	0.0	0.0	0.0	223.6
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	0.0	228.3
1990	137.4	0.0	137.4	3.6	(s)	0.2	0.0	0.2	80.2	11.8	0.0	0.0	0.0	233.2
1991	145.6	0.0	145.6	3.5	(s)	0.2	0.0	0.2	86.4	10.8	0.0	0.0	0.0	246.5
1992	134.8	0.0	134.8	1.8	0.0	0.1	0.0	0.1	93.4	11.1	0.1	0.0	0.0	241.3
1993	159.2	0.0	159.2	1.8	0.0	0.2	0.0	0.2	72.7	10.3	0.1	0.0	0.0	244.3
1994	152.2	0.0	152.2	3.0	(s)	0.3	0.0	0.3	67.7	13.5	0.1	0.0	0.0	236.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Nevada

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
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	–
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	793	106	11,558	219	43	25,112	0	5,613	0	0	-28,358	–
1985	5,539	39	844	105	5,410	5,715	53	1,043	99	11,625	165	36	25,094	0	4,374	0	0	-14,328	–
1986	7,195	34	567	124	5,517	5,952	52	924	97	12,212	641	36	26,120	0	4,584	0	0	-25,190	–
1987	6,920	41	864	101	6,507	6,431	35	938	109	13,045	525	44	28,599	0	2,545	0	0	-13,481	–
1988	8,276	48	931	120	6,809	6,416	28	1,098	105	14,078	1,004	56	30,645	0	2,091	0	0	-19,595	–
1989	7,667	64	1,398	118	7,450	6,105	26	1,762	108	14,563	667	58	32,256	0	1,931	0	0	-14,300	–
1990	7,442	65	1,083	111	7,355	6,114	19	1,430	111	14,856	454	0	31,533	0	I NA	I NA	I NA	R -8,888	–
1991	8,091	65	1,072	111	7,102	6,556	23	1,157	99	15,348	464	73	32,003	0	R NA	NA	NA	R -13,190	–
1992	8,088	68	841	105	7,356	6,162	23	1,009	101	16,043	598	92	32,332	0	R NA	NA	NA	R -10,280	–
1993	7,806	85	1,147	113	7,629	6,510	14	910	103	16,227	497	81	33,232	0	R NA	NA	NA	R -4,770	–
1994	7,968	102	1,258	108	7,576	6,813	8	1,446	108	17,237	382	90	35,025	0	NA	NA	NA	-5,554	–
			Trillion Btu																
1960	4.0	12.9	1.6	1.4	14.0	13.2	(s)	3.1	0.6	19.0	1.5	0.0	54.5	0.0	21.2	0.0	0.0	-2.2	90.3
1965	7.9	29.4	2.4	1.7	16.2	16.3	(s)	2.9	0.7	28.9	0.9	0.0	70.0	0.0	16.7	0.0	0.0	5.5	129.4
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	(s)	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	(s)	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	(s)	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	2.9	0.6	60.7	1.4	0.3	136.9	0.0	58.6	0.0	0.0	-96.8	299.1
1985	126.2	41.6	5.6	0.5	31.5	31.7	0.3	3.8	0.6	61.1	1.0	0.2	136.3	0.0	45.7	0.0	0.0	-48.9	300.9
1986	161.6	35.8	3.8	0.6	32.1	33.0	0.3	3.4	0.6	64.1	4.0	0.2	142.2	0.0	47.9	0.0	0.0	-85.9	301.5
1987	154.9	41.7	5.7	0.5	37.9	35.7	0.2	3.4	0.7	68.5	3.3	0.3	156.2	0.0	26.5	0.0	0.0	-46.0	333.3
1988	183.5	48.4	6.2	0.6	39.7	35.6	0.2	4.0	0.6	74.0	6.3	0.3	167.5	0.0	21.6	0.0	0.0	-66.9	354.1
1989	170.3	65.6	9.3	0.6	43.4	33.9	0.1	6.5	0.7	76.5	4.2	0.3	175.5	0.0	19.9	0.0	0.0	-48.8	382.5
1990	165.7	66.9	7.2	0.6	42.8	34.0	0.1	5.2	0.7	78.0	2.9	0.0	171.5	0.0	I 17.9	I 2.7	I 20.7	R -30.3	RI 415.1
1991	180.1	66.9	7.1	0.6	41.4	36.5	0.1	4.2	0.6	80.6	2.9	0.4	174.4	0.0	24.5	2.9	23.0	R -45.0	R 426.9
1992	178.9	70.5	5.6	0.5	42.9	34.4	0.1	3.7	0.6	84.3	3.8	0.6	176.4	0.0	20.8	3.0	25.5	-35.1	R 440.1
1993	172.2	87.8	7.6	0.6	44.4	36.5	0.1	3.3	0.6	85.2	3.1	0.5	182.0	0.0	20.5	3.1	33.3	-16.3	R 482.7
1994	180.1	105.4	8.3	0.5	44.1	38.6	(s)	5.3	0.7	90.5	2.4	0.5	191.1	0.0	19.3	3.1	34.3	-19.0	514.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
NA=Not available.
– =Not applicable.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Nevada

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	8	4	12	2	219	0	275	493	0	0	719	–	1,788	–
1965	22	3	25	4	286	0	519	805	0	0	1,268	–	3,029	–
1970	22	2	24	7	328	0	621	949	0	0	1,990	–	4,821	–
1971	10	2	11	8	470	0	623	1,093	0	0	2,251	–	5,441	–
1972	(s)	1	1	9	413	0	568	981	0	0	2,444	–	5,883	–
1973	(s)	1	2	9	425	0	514	939	0	0	2,739	–	6,558	–
1974	1	1	2	9	242	0	478	720	0	0	2,800	–	6,828	–
1975	3	1	3	11	265	0	316	581	0	0	2,803	–	6,762	–
1976	4	1	5	11	260	0	303	563	0	0	2,797	–	6,738	–
1977	17	1	18	11	304	0	312	616	0	0	2,922	–	7,057	–
1978	1	1	2	12	402	0	264	666	0	0	3,369	–	8,242	–
1979	1	(s)	2	13	211	0	402	613	0	0	3,767	–	9,091	–
1980	1	1	2	13	187	0	427	614	0	0	3,697	–	8,990	–
1981	2	1	3	13	151	36	404	590	0	0	3,501	–	8,344	–
1982	2	0	2	16	158	12	448	617	0	0	3,782	–	9,084	–
1983	1	0	1	11	218	43	529	790	0	0	3,662	–	8,772	–
1984	10	0	10	12	246	38	505	789	0	0	4,055	–	9,440	–
1985	1	0	1	13	284	47	650	982	0	0	4,126	–	9,693	–
1986	1	0	1	12	246	43	547	835	0	0	4,097	–	9,424	–
1987	1	0	1	14	325	20	523	869	0	0	4,537	–	10,366	–
1988	1	0	1	15	291	17	623	930	0	0	4,968	–	11,232	–
1989	1	0	1	17	252	14	852	1,119	0	0	5,169	–	11,592	–
1990	1	1	1	17	239	8	817	1,064	[e] 129	[e] 15	5,540	–	R 12,105	–
1991	1	0	1	19	221	10	733	965	135	17	5,782	–	R 12,571	–
1992	(s)	0	(s)	18	217	10	632	859	143	24	6,064	–	R 12,946	–
1993	1	0	1	21	179	11	623	813	148	25	6,281	–	R 13,264	–
1994	(s)	0	(s)	21	151	4	642	797	145	34	6,845	–	14,274	–
	Trillion Btu													
1960	0.2	0.1	0.3	2.0	1.3	0.0	1.1	2.4	0.0	0.0	2.5	7.1	6.1	13.2
1965	0.6	0.1	0.6	4.4	1.7	0.0	2.1	3.7	0.0	0.0	4.3	13.1	10.3	23.4
1970	0.5	(s)	0.6	7.9	1.9	0.0	2.3	4.3	0.0	0.0	6.8	19.5	16.5	35.9
1971	0.2	(s)	0.3	8.6	2.7	0.0	2.4	5.1	0.0	0.0	7.7	21.7	18.6	40.3
1972	(s)	(s)	(s)	9.9	2.4	0.0	2.1	4.5	0.0	0.0	8.3	22.8	20.1	42.9
1973	(s)	(s)	(s)	9.6	2.5	0.0	1.9	4.4	0.0	0.0	9.3	23.4	22.4	45.8
1974	(s)	(s)	(s)	10.0	1.4	0.0	1.8	3.2	0.0	0.0	9.6	22.8	23.3	46.1
1975	0.1	(s)	0.1	11.8	1.5	0.0	1.2	2.7	0.0	0.0	9.6	24.2	23.1	47.3
1976	0.1	(s)	0.1	11.4	1.5	0.0	1.1	2.6	0.0	0.0	9.5	23.7	23.0	46.6
1977	0.4	(s)	0.4	11.6	1.8	0.0	1.1	2.9	0.0	0.0	10.0	24.9	24.1	49.0
1978	(s)	(s)	(s)	11.8	2.3	0.0	1.0	3.3	0.0	0.0	11.5	26.7	28.1	54.8
1979	(s)	(s)	(s)	12.8	1.2	0.0	1.5	2.7	0.0	0.0	12.9	28.4	31.0	59.4
1980	(s)	(s)	(s)	13.9	1.1	0.0	1.6	2.7	0.0	0.0	12.6	29.2	30.7	59.9
1981	(s)	(s)	0.1	14.1	0.9	0.2	1.5	2.6	0.0	0.0	11.9	28.7	28.5	57.2
1982	(s)	0.0	(s)	17.1	0.9	0.1	1.6	2.6	0.0	0.0	12.9	32.7	31.0	63.7
1983	(s)	0.0	(s)	12.2	1.3	0.2	1.9	3.4	0.0	0.0	12.5	28.1	29.9	58.1
1984	0.2	0.0	0.2	12.6	1.4	0.2	1.8	3.5	0.0	0.0	13.8	30.1	32.2	62.3
1985	(s)	0.0	(s)	13.4	1.7	0.3	2.3	4.3	0.0	0.0	14.1	31.7	33.1	64.8
1986	(s)	0.0	(s)	13.0	1.4	0.2	2.0	3.7	0.0	0.0	14.0	30.6	32.2	62.8
1987	(s)	0.0	(s)	14.2	1.9	0.1	1.9	3.9	0.0	0.0	15.5	33.6	35.4	69.0
1988	(s)	0.0	(s)	15.2	1.7	0.1	2.3	4.1	0.0	0.0	17.0	36.2	38.3	74.6
1989	(s)	0.0	(s)	17.3	1.5	0.1	3.1	4.7	0.0	0.0	17.6	39.6	39.6	79.2
1990	(s)	(s)	(s)	17.7	1.4	(s)	3.0	4.4	[e] 2.6	[e] 0.1	18.9	R [e] 43.6	41.3	R [e] 84.9
1991	(s)	0.0	(s)	19.8	1.3	0.1	2.7	4.0	2.7	0.1	19.7	R 46.3	42.9	R 89.2
1992	(s)	0.0	(s)	18.8	1.3	0.1	2.3	3.6	2.9	0.1	20.7	R 46.0	44.2	R 90.2
1993	(s)	0.0	(s)	21.4	1.0	0.1	2.2	3.3	3.0	0.1	21.4	R 49.3	R 45.3	R 94.5
1994	(s)	0.0	(s)	22.0	0.9	(s)	2.3	3.2	2.9	0.1	23.4	51.6	48.7	100.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Nevada

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	15	3	18	1	107	0	48	29	86	271	655	–	1,629	–
1965	42	2	43	2	140	1	92	44	38	316	1,235	–	2,950	–
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	(s)	3	20	197	28	47	53	20	345	2,911	–	7,122	–
1979	2	(s)	3	20	104	6	71	57	1	238	2,183	–	5,268	–
1980	2	(s)	2	10	353	0	75	61	7	496	1,775	–	4,316	–
1981	4	(s)	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	89	202	27	716	3,183	–	7,410	–
1985	1	0	1	12	324	5	115	82	25	551	3,408	–	8,006	–
1986	1	0	1	11	492	5	96	83	14	690	3,454	–	7,945	–
1987	1	0	1	14	714	4	92	85	11	907	3,737	–	8,539	–
1988	1	0	1	15	455	8	110	81	5	660	4,032	–	9,114	–
1989	1	0	1	15	379	5	150	81	2	617	4,295	–	9,633	–
1990	1	(s)	2	15	349	4	144	84	2	582	4,550	–	R 9,942	–
1991	1	0	1	17	294	3	129	78	2	507	4,671	–	R 10,156	–
1992	1	0	1	16	297	4	112	69	(s)	483	4,909	–	R 10,479	–
1993	1	0	1	18	608	3	110	12	0	734	5,037	–	R 10,638	–
1994	1	0	1	19	528	2	113	12	0	656	5,417	–	11,296	–
	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
1965	1.0	(s)	1.1	2.5	0.8	(s)	0.4	0.2	0.2	1.7	4.2	9.5	10.1	19.6
1970	1.0	(s)	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	(s)	0.5	11.9	1.3	(s)	0.4	0.3	0.3	2.4	7.6	22.3	18.3	40.7
1972	(s)	(s)	(s)	14.0	1.2	(s)	0.4	0.3	0.5	2.4	8.4	24.8	20.2	45.1
1973	(s)	(s)	(s)	14.0	1.2	(s)	0.3	0.3	0.4	2.3	9.1	25.4	21.8	47.3
1974	(s)	(s)	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	(s)	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	(s)	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	(s)	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	(s)	(s)	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	(s)	(s)	0.1	19.0	0.6	(s)	0.3	0.3	(s)	1.2	7.4	27.7	18.0	45.7
1980	(s)	(s)	0.1	10.7	2.1	0.0	0.3	0.3	(s)	2.7	6.1	19.5	14.7	34.3
1981	0.1	(s)	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	(s)	0.3	0.4	0.1	1.2	6.5	16.8	15.6	32.5
1983	(s)	0.0	(s)	12.5	2.0	(s)	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	(s)	0.3	1.1	0.2	3.9	10.9	27.8	25.3	53.1
1985	(s)	0.0	(s)	13.0	1.9	(s)	0.4	0.4	0.2	2.9	11.6	27.6	27.3	54.9
1986	(s)	0.0	(s)	12.1	2.9	(s)	0.4	0.4	0.1	3.8	11.8	27.7	27.1	54.8
1987	(s)	0.0	(s)	13.8	4.2	(s)	0.3	0.4	0.1	5.0	12.8	31.6	29.1	60.8
1988	(s)	0.0	(s)	14.8	2.7	(s)	0.4	0.4	(s)	3.6	13.8	32.2	31.1	63.3
1989	(s)	0.0	(s)	15.6	2.2	(s)	0.6	0.4	(s)	3.2	14.7	33.5	32.9	66.4
1990	(s)	(s)	(s)	15.5	2.0	(s)	0.5	0.4	(s)	3.0	15.5	34.1	33.9	R 68.1
1991	(s)	0.0	(s)	17.6	1.7	(s)	0.5	0.4	(s)	2.6	15.9	36.2	R 34.7	70.8
1992	(s)	0.0	(s)	16.7	1.7	(s)	0.4	0.4	(s)	2.5	16.7	R 35.9	R 35.8	71.7
1993	(s)	0.0	(s)	18.2	3.5	(s)	0.4	0.1	0.0	4.0	17.2	39.4	36.3	75.7
1994	(s)	0.0	(s)	19.4	3.1	(s)	0.4	0.1	0.0	3.6	18.5	41.4	38.5	80.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Nevada

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	119	3	247	575	3	445	18	120	118	0	1,527	(s)	0	0	793	–	1,974	–
1965	61	8	367	740	4	101	36	131	40	0	1,419	(s)	0	0	1,059	–	2,529	–
1970	70	10	609	840	6	99	23	166	34	11	1,788	(s)	0	0	1,635	–	3,963	–
1971	115	10	620	1,156	6	94	21	148	47	0	2,093	(s)	0	0	1,584	–	3,829	–
1972	158	8	858	1,132	3	92	23	153	81	0	2,341	(s)	0	0	1,828	–	4,401	–
1973	137	10	965	986	2	79	24	108	61	0	2,226	0	0	0	2,026	–	4,849	–
1974	130	9	1,027	647	12	114	23	109	58	6	1,997	0	0	0	2,185	–	5,327	–
1975	77	10	837	705	17	107	26	115	44	0	1,852	0	0	0	1,964	–	4,737	–
1976	142	13	699	764	10	74	29	130	73	0	1,780	0	0	0	2,397	–	5,774	–
1977	131	10	682	929	23	48	25	120	57	37	1,921	(s)	0	0	2,592	–	6,259	–
1978	86	11	750	1,134	23	62	27	109	34	45	2,184	0	0	0	2,616	–	6,400	–
1979	105	12	794	716	0	315	28	133	1	55	2,042	0	0	0	4,390	–	10,595	–
1980	147	7	614	651	0	374	25	111	1	53	1,830	0	0	0	4,936	–	12,003	–
1981	192	7	498	584	18	349	24	112	40	28	1,652	0	0	0	4,777	–	11,385	–
1982	209	6	663	539	0	428	22	141	21	32	1,847	0	0	0	4,880	–	11,721	–
1983	171	9	751	1,530	11	328	23	73	67	43	2,825	0	0	0	4,849	–	11,618	–
1984	109	9	750	1,729	9	157	25	65	169	43	2,947	0	0	0	3,737	–	8,698	–
1985	110	6	844	1,540	1	247	23	131	88	36	2,910	0	0	0	3,808	–	8,946	–
1986	107	3	567	1,555	4	259	22	138	123	36	2,703	0	0	0	4,103	–	9,439	–
1987	111	6	864	1,637	11	305	25	153	90	44	3,130	0	0	0	4,480	–	10,236	–
1988	121	7	931	2,355	3	344	24	145	124	56	3,981	0	0	0	4,685	–	10,591	–
1989	178	8	1,398	2,966	7	740	25	148	64	58	5,406	0	0	0	5,504	–	12,343	–
1990	169	8	1,083	3,257	7	446	26	169	8	0	4,996	R f NA	f NA	f NA	6,263	–	R 13,685	–
1991	197	7	1,072	2,984	9	273	23	179	82	73	4,694	R NA	NA	NA	6,173	–	R 13,420	–
1992	173	9	841	3,000	10	241	23	172	80	92	4,459	R NA	NA	NA	6,723	–	R 14,353	–
1993	196	25	1,147	2,596	1	151	24	140	101	81	4,241	R NA	NA	NA	7,181	–	R 15,166	–
1994	195	29	1,258	2,531	1	647	25	191	141	90	4,884	NA	NA	NA	7,775	–	16,214	–
			Trillion Btu															
1960	3.2	3.4	1.6	3.3	(s)	1.8	0.1	0.6	0.7	0.0	8.3	(s)	0.0	0.0	2.7	17.6	6.7	24.3
1965	1.6	8.4	2.4	4.3	(s)	0.4	0.2	0.7	0.3	0.0	8.3	(s)	0.0	0.0	3.6	21.9	8.6	30.5
1970	1.7	11.2	4.0	4.9	(s)	0.4	0.1	0.9	0.2	0.1	10.6	(s)	0.0	0.0	5.6	29.1	13.5	42.7
1971	2.8	10.8	4.1	6.7	(s)	0.4	0.1	0.8	0.3	0.0	12.4	(s)	0.0	0.0	5.4	31.5	13.1	44.6
1972	3.9	8.4	5.7	6.6	(s)	0.3	0.1	0.8	0.5	0.0	14.1	(s)	0.0	0.0	6.2	32.6	15.0	47.6
1973	3.3	11.0	6.4	5.7	(s)	0.3	0.1	0.6	0.4	0.0	13.6	0.0	0.0	0.0	6.9	34.8	16.5	51.4
1974	3.2	9.9	6.8	3.8	0.1	0.4	0.1	0.6	0.4	(s)	12.2	0.0	0.0	0.0	7.5	32.7	18.2	50.8
1975	1.8	10.7	5.6	4.1	0.1	0.4	0.2	0.6	0.3	0.0	11.2	0.0	0.0	0.0	6.7	30.4	16.2	46.6
1976	3.1	13.5	4.6	4.5	0.1	0.3	0.2	0.7	0.5	0.0	10.7	0.0	0.0	0.0	8.2	35.5	19.7	55.2
1977	3.0	9.9	4.5	5.4	0.1	0.2	0.2	0.6	0.4	0.2	11.6	(s)	0.0	0.0	8.8	33.4	21.4	54.7
1978	2.0	11.1	5.0	6.6	0.1	0.2	0.2	0.6	0.2	0.3	13.2	0.0	0.0	0.0	8.9	35.1	21.8	57.0
1979	2.4	11.4	5.3	4.2	0.0	1.2	0.2	0.7	(s)	0.3	11.8	0.0	0.0	0.0	15.0	40.6	36.1	76.8
1980	3.4	7.7	4.1	3.8	0.0	1.4	0.2	0.6	(s)	0.3	10.3	0.0	0.0	0.0	16.8	38.3	41.0	79.2
1981	4.4	7.6	3.3	3.4	0.1	1.3	0.1	0.6	0.2	0.2	9.2	0.0	0.0	0.0	16.3	37.6	38.8	76.5
1982	4.9	6.6	4.4	3.1	0.0	1.5	0.1	0.7	0.1	0.2	10.3	0.0	0.0	0.0	16.7	38.4	40.0	78.4
1983	3.9	9.7	5.0	8.9	0.1	1.2	0.1	0.4	0.4	0.3	16.4	0.0	0.0	0.0	16.5	46.5	39.6	86.2
1984	2.5	9.4	5.0	10.1	0.1	0.6	0.1	0.3	1.1	0.3	17.5	0.0	0.0	0.0	12.8	42.2	29.7	71.8
1985	2.6	6.6	5.6	9.0	(s)	0.9	0.1	0.7	0.6	0.2	17.1	0.0	0.0	0.0	13.0	39.2	30.5	69.7
1986	2.5	3.7	3.8	9.1	(s)	0.9	0.1	0.7	0.8	0.2	15.6	0.0	0.0	0.0	14.0	35.8	32.2	68.0
1987	2.6	6.2	5.7	9.5	0.1	1.1	0.2	0.8	0.6	0.3	18.2	0.0	0.0	0.0	15.3	42.4	34.9	77.3
1988	2.8	7.2	6.2	13.7	(s)	1.3	0.1	0.8	0.8	0.3	23.2	0.0	0.0	0.0	16.0	49.2	36.1	85.3
1989	3.8	8.1	9.3	17.3	(s)	2.7	0.2	0.8	0.4	0.3	31.0	0.0	0.0	0.0	18.8	61.7	42.1	103.8
1990	3.9	7.7	7.2	19.0	(s)	1.6	0.2	0.9	(s)	0.0	28.9	(s)	f 0.2	f 20.6	21.4	R f 82.8	46.7	R f 129.5
1991	4.6	6.9	7.1	17.4	0.1	1.0	0.1	0.9	0.5	0.4	27.6	R (s)	0.2	22.9	21.1	R 83.2	45.8	R 129.0
1992	4.0	9.6	5.6	17.5	0.1	0.9	0.1	0.9	0.5	0.6	26.1	R (s)	0.2	25.4	22.9	R 88.2	R 49.0	R 137.2
1993	4.5	25.6	7.6	15.1	(s)	0.5	0.1	0.7	0.6	0.5	25.3	R 0.1	0.2	33.2	24.5	R 113.5	51.7	R 165.2
1994	4.5	29.9	8.3	14.7	(s)	2.4	0.2	1.0	0.9	0.5	28.0	0.1	0.2	34.2	26.5	123.5	55.3	178.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Nevada

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	2	0	281	1,501	2,462	5	73	3,472	0	7,795	0	0	–	0	–
1965	(s)	0	335	1,599	2,999	9	86	5,329	7	10,364	0	0	–	0	–
1970	(s)	0	186	1,492	4,584	9	83	7,158	1	13,512	0	0	–	0	–
1971	(s)	0	170	1,285	4,853	10	82	7,517	0	13,918	0	0	–	0	–
1972	(s)	0	166	1,196	5,287	9	88	8,286	4	15,037	0	0	–	0	–
1973	(s)	0	166	1,616	5,591	9	101	8,831	5	16,320	0	0	–	0	–
1974	(s)	0	180	1,491	5,572	12	97	8,785	4	16,140	0	0	–	0	–
1975	(s)	0	197	1,407	5,859	13	94	9,449	5	17,023	0	0	–	0	–
1976	(s)	0	143	1,555	6,157	11	104	9,821	5	17,797	0	0	–	0	–
1977	(s)	0	163	1,691	6,502	11	83	10,434	5	18,889	0	0	–	0	–
1978	0	0	186	2,171	6,884	7	89	11,536	3	20,877	0	0	–	0	–
1979	0	0	181	2,063	7,378	62	94	11,138	0	20,915	0	0	–	0	–
1980	0	(s)	206	2,754	7,223	3	83	11,052	0	21,322	0	0	–	0	–
1981	0	(s)	186	2,399	7,030	12	80	11,379	0	21,086	0	0	–	0	–
1982	0	(s)	122	2,714	6,722	21	73	11,097	0	20,749	0	0	–	0	–
1983	0	(s)	110	3,152	6,748	25	76	11,086	3	21,201	0	0	–	0	–
1984	0	(s)	98	3,156	5,927	43	81	11,291	2	20,598	0	0	–	0	–
1985	0	(s)	105	3,209	5,715	31	76	11,411	0	20,546	0	0	–	0	–
1986	0	(s)	124	3,197	5,952	22	74	11,991	3	21,364	0	0	–	0	–
1987	0	(s)	101	3,796	6,431	18	84	12,806	0	23,235	0	0	–	0	–
1988	0	(s)	120	3,639	6,416	22	81	13,852	0	24,130	0	0	–	0	–
1989	0	1	118	3,786	6,105	20	83	14,334	0	24,445	0	0	–	0	–
1990	0	1	111	3,420	6,114	23	85	14,604	0	24,356	[e]0	0	–	0	–
1991	0	(s)	111	3,536	6,556	21	76	15,091	0	25,391	0	0	–	0	–
1992	0	(s)	105	3,776	6,162	24	78	15,802	0	25,947	0	0	–	0	–
1993	0	1	113	4,206	6,510	26	79	16,075	0	27,010	0	0	–	0	–
1994	0	1	108	4,320	6,813	43	83	17,034	0	28,401	0	0	–	0	–
			Trillion Btu												
1960	0.1	0.0	1.4	8.7	13.2	(s)	0.4	18.2	0.0	42.1	0.0	0.0	42.1	0.0	42.1
1965	(s)	0.0	1.7	9.3	16.3	(s)	0.5	28.0	(s)	55.9	0.0	0.0	55.9	0.0	55.9
1970	(s)	0.0	0.9	8.7	25.3	(s)	0.5	37.6	(s)	73.1	0.0	0.0	73.1	0.0	73.1
1971	(s)	0.0	0.9	7.5	26.8	(s)	0.5	39.5	0.0	75.2	0.0	0.0	75.2	0.0	75.2
1972	(s)	0.0	0.8	7.0	29.3	(s)	0.5	43.5	(s)	81.3	0.0	0.0	81.3	0.0	81.3
1973	(s)	0.0	0.8	9.4	31.1	(s)	0.6	46.4	(s)	88.4	0.0	0.0	88.4	0.0	88.4
1974	(s)	0.0	0.9	8.7	31.0	(s)	0.6	46.1	(s)	87.4	0.0	0.0	87.4	0.0	87.4
1975	(s)	0.0	1.0	8.2	32.7	(s)	0.6	49.6	(s)	92.1	0.0	0.0	92.1	0.0	92.1
1976	(s)	0.0	0.7	9.1	34.4	(s)	0.6	51.6	(s)	96.5	0.0	0.0	96.5	0.0	96.5
1977	(s)	0.0	0.8	9.9	36.3	(s)	0.5	54.8	(s)	102.4	0.0	0.0	102.4	0.0	102.4
1978	0.0	0.0	0.9	12.6	38.5	(s)	0.5	60.6	(s)	113.3	0.0	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	0.0	113.5	0.0	113.5
1980	0.0	0.2	1.0	16.0	40.4	(s)	0.5	58.1	0.0	116.0	0.0	0.0	116.2	0.0	116.2
1981	0.0	0.5	0.9	14.0	39.2	(s)	0.5	59.8	0.0	114.5	0.0	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	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	(s)	115.3	0.0	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	(s)	111.7	0.0	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	0.0	111.5	0.0	111.5
1986	0.0	(s)	0.6	18.6	33.0	0.1	0.4	63.0	(s)	115.8	0.0	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	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	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	0.0	133.2	0.0	133.2
1990	0.0	0.8	0.6	19.9	34.0	0.1	0.5	76.7	0.0	131.8	[e]0.0	0.0	[e]132.6	0.0	[e]132.6
1991	0.0	0.4	0.6	20.6	36.5	0.1	0.5	79.3	0.0	137.5	0.0	0.0	137.8	0.0	137.8
1992	0.0	0.5	0.5	22.0	34.4	0.1	0.5	83.0	0.0	140.5	0.0	0.0	141.0	0.0	141.0
1993	0.0	0.7	0.6	24.5	36.5	0.1	0.5	84.4	0.0	146.6	0.0	0.0	147.3	0.0	147.3
1994	0.0	0.7	0.5	25.2	38.6	0.2	0.5	89.5	0.0	154.5	0.0	0.0	155.2	0.0	155.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Nevada

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	180	0	180	13	51	8	0	60	0	1,594	0	0	0	–
1970	544	0	544	25	80	13	0	93	0	1,645	0	0	0	–
1971	1,387	0	1,387	37	131	9	0	141	0	1,678	0	0	0	–
1972	3,576	0	3,576	40	116	16	0	131	0	1,563	0	0	0	–
1973	3,863	0	3,863	41	289	22	0	311	0	1,669	0	0	0	–
1974	4,333	0	4,333	31	692	28	0	720	0	1,600	0	0	0	–
1975	4,435	0	4,435	25	1,256	58	0	1,314	0	1,690	0	0	0	–
1976	4,850	0	4,850	25	606	55	0	662	0	1,555	0	0	0	–
1977	5,048	0	5,048	33	1,359	12	0	1,371	0	1,617	0	0	0	–
1978	4,043	0	4,043	22	2,801	24	0	2,825	0	1,666	0	0	0	–
1979	4,381	0	4,381	40	1,442	50	0	1,492	0	1,716	0	0	0	–
1980	4,064	0	4,064	28	2,431	22	0	2,453	0	2,372	0	0	0	–
1981	4,877	0	4,877	44	221	24	0	245	0	1,729	0	0	0	–
1982	6,403	0	6,403	16	204	37	0	241	0	1,420	0	0	0	–
1983	6,115	0	6,115	10	24	44	0	68	0	4,094	0	0	0	–
1984	6,811	0	6,811	9	21	41	0	62	0	5,613	0	0	0	–
1985	5,427	0	5,427	8	51	54	0	104	0	4,374	0	0	0	–
1986	7,086	0	7,086	7	501	26	0	527	0	4,584	0	0	0	–
1987	6,807	0	6,807	7	424	35	0	459	0	2,545	0	0	0	–
1988	8,153	0	8,153	11	875	69	0	945	0	2,091	0	0	0	–
1989	7,487	0	7,487	23	601	68	0	669	0	1,931	0	0	0	–
1990	7,270	0	7,270	24	444	91	0	535	0	1,732	0	0	0	–
1991	7,892	0	7,892	22	380	67	0	447	0	R2,364	0	0	0	–
1992	7,914	0	7,914	24	518	67	0	584	0	R2,012	0	0	0	–
1993	7,608	0	7,608	21	396	40	0	436	0	R1,985	0	0	0	–
1994	7,772	0	7,772	32	241	46	0	287	0	1,873	0	0	0	–
	Trillion Btu													
1960	0.0	0.0	0.0	6.6	0.3	(s)	0.0	0.3	0.0	21.2	0.0	0.0	0.0	28.0
1965	4.6	0.0	4.6	14.1	0.3	(s)	0.0	0.4	0.0	16.7	0.0	0.0	0.0	35.7
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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	189.9
1984	152.4	0.0	152.4	10.0	0.1	0.2	0.0	0.4	0.0	58.6	0.0	0.0	0.0	221.4
1985	123.6	0.0	123.6	8.6	0.3	0.3	0.0	0.6	0.0	45.7	0.0	0.0	0.0	178.5
1986	159.1	0.0	159.1	6.9	3.1	0.2	0.0	3.3	0.0	47.9	0.0	0.0	0.0	217.2
1987	152.2	0.0	152.2	7.3	2.7	0.2	0.0	2.9	0.0	26.5	0.0	0.0	0.0	188.9
1988	180.7	0.0	180.7	10.9	5.5	0.4	0.0	5.9	0.0	21.6	0.0	0.0	0.0	219.1
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	0.0	214.4
1990	161.7	0.0	161.7	25.1	2.8	0.5	0.0	3.3	0.0	17.9	0.0	0.0	0.0	208.0
1991	175.5	0.0	175.5	22.3	2.4	0.4	0.0	2.8	0.0	24.5	0.0	0.0	0.0	225.1
1992	174.9	0.0	174.9	25.0	3.3	0.4	0.0	3.6	0.0	R20.7	0.0	0.0	0.0	224.4
1993	167.6	0.0	167.6	21.9	2.5	0.2	0.0	2.7	0.0	R20.4	0.0	0.0	0.0	212.7
1994	175.5	0.0	175.5	33.3	1.5	0.3	0.0	1.8	0.0	19.2	0.0	0.0	0.0	229.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, New Hampshire

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	22	14,856	0	1,373	0	0	-1,500	–
1965	407	4	424	46	5,912	1,097	758	657	84	5,773	2,416	29	17,195	0	1,053	0	0	-692	–
1970	992	7	541	38	7,681	1,053	777	829	72	8,122	5,520	170	24,802	0	1,239	0	0	-3,659	–
1971	949	8	615	48	8,093	1,086	765	918	77	8,577	6,086	55	26,319	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	58	27,141	0	1,270	0	0	-1,605	–
1973	1,055	8	826	43	8,418	960	493	1,155	79	9,317	5,363	72	26,727	0	1,613	0	0	-186	–
1974	946	8	567	41	7,756	968	480	1,161	75	9,218	4,346	253	24,865	0	1,465	0	0	1,603	–
1975	982	8	431	33	7,194	916	463	1,436	70	9,373	4,611	181	24,707	0	1,251	0	0	1,442	–
1976	756	8	487	30	8,833	876	534	1,622	78	9,917	5,960	334	28,671	0	1,515	0	0	2,335	–
1977	994	8	434	37	8,349	919	439	1,893	83	10,312	5,782	375	28,622	0	1,404	0	0	2,027	–
1978	784	8	456	44	8,474	841	407	1,817	89	10,531	5,572	394	28,625	0	1,131	0	0	4,572	–
1979	1,083	8	426	40	5,856	774	236	1,379	94	9,787	5,781	424	24,797	0	1,212	0	0	726	–
1980	1,093	9	253	40	5,820	777	340	1,280	83	9,382	5,692	434	24,103	0	1,027	0	0	1,383	–
1981	900	10	350	30	5,301	585	215	1,216	80	9,256	4,919	199	22,150	0	1,361	0	0	2,443	–
1982	1,028	10	368	25	5,072	637	248	1,318	73	9,151	3,837	153	20,882	0	1,250	0	0	4,743	–
1983	1,091	10	391	26	4,516	574	225	1,325	76	9,405	3,843	144	20,526	0	1,353	0	0	4,563	–
1984	1,263	11	968	20	4,794	820	166	1,207	81	10,035	4,997	153	23,241	0	1,255	0	0	3,407	–
1985	1,481	11	854	24	5,243	521	902	1,586	76	10,337	3,442	153	23,139	0	2,023	0	0	3,441	–
1986	933	10	553	38	5,781	620	380	1,680	74	11,130	7,082	R 130	R 27,468	0	2,091	0	0	4,409	–
1987	1,176	12	779	28	7,541	644	466	2,056	84	11,819	5,499	R 135	R 29,050	0	2,163	0	0	5,638	–
1988	1,229	13	430	37	6,804	725	492	2,084	81	12,337	6,351	R 139	R 29,480	0	1,844	0	0	5,252	–
1989	1,183	14	742	33	7,559	759	538	2,470	83	12,279	6,186	R 137	R 30,785	0	1,428	0	0	7,071	–
1990	1,186	14	1,198	21	6,325	647	266	2,122	85	11,710	5,252	R 145	R 27,772	4,081	R I NA	I NA	I NA	R -5,531	–
1991	1,315	14	659	26	6,353	468	322	1,652	76	12,131	4,006	R 122	R 25,815	6,788	R NA	NA	NA	R -14,475	–
1992	1,311	17	791	19	6,612	378	293	1,761	78	12,113	3,763	R 126	R 25,934	7,869	R NA	NA	NA	R -16,336	–
1993	1,428	17	320	43	6,721	388	395	2,163	79	12,490	4,105	R 127	R 26,832	9,047	R NA	NA	NA	R -22,003	–
1994	1,287	20	381	33	6,848	342	337	2,221	83	12,816	4,199	132	27,391	6,204	NA	NA	NA	-12,815	–
			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	0.1	83.5	0.0	14.8	0.0	0.0	-5.1	101.5
1965	11.2	4.1	2.8	0.2	34.4	5.9	4.3	2.6	0.5	30.3	15.2	0.2	96.5	0.0	11.0	0.0	0.0	-2.4	120.4
1970	27.1	6.8	3.6	0.2	44.7	5.7	4.4	3.1	0.4	42.7	34.7	0.9	140.5	0.0	13.0	0.0	0.0	-12.5	174.9
1971	25.5	7.7	4.1	0.2	47.1	5.8	4.3	3.5	0.5	45.1	38.3	0.3	149.2	0.0	11.5	0.0	0.0	-5.9	187.9
1972	30.6	8.0	4.6	0.2	48.9	5.7	4.0	4.3	0.5	47.4	37.3	0.3	153.3	0.0	13.2	0.0	0.0	-5.5	199.6
1973	28.3	8.1	5.5	0.2	49.0	5.2	2.8	4.3	0.5	48.9	33.7	0.4	150.6	0.0	16.8	0.0	0.0	-0.6	203.1
1974	25.3	8.4	3.8	0.2	45.2	5.2	2.7	4.3	0.5	48.4	27.3	1.5	139.1	0.0	15.3	0.0	0.0	5.5	193.5
1975	26.2	7.7	2.9	0.2	41.9	4.9	2.6	5.3	0.4	49.2	29.0	1.1	137.5	0.0	13.0	0.0	0.0	4.9	189.3
1976	20.3	7.9	3.2	0.2	51.4	4.7	3.0	6.0	0.5	52.1	37.5	1.9	160.6	0.0	15.7	0.0	0.0	8.0	212.5
1977	26.5	7.6	2.9	0.2	48.6	4.9	2.5	7.0	0.5	54.2	36.3	2.2	159.3	0.0	14.7	0.0	0.0	6.9	214.9
1978	20.4	8.2	3.0	0.2	49.4	4.5	2.3	6.7	0.5	55.3	35.0	2.3	159.3	0.0	11.7	0.0	0.0	15.6	215.2
1979	29.1	8.7	2.8	0.2	34.1	4.2	1.3	5.1	0.6	51.4	36.3	2.4	138.5	0.0	12.5	0.0	0.0	2.5	191.3
1980	29.3	9.7	1.7	0.2	33.9	4.2	1.9	4.7	0.5	49.3	35.8	2.5	134.6	0.0	10.7	0.0	0.0	4.7	189.0
1981	24.2	10.4	2.3	0.1	30.9	3.1	1.2	4.4	0.5	48.6	30.9	1.1	123.3	0.0	14.2	0.0	0.0	8.3	180.5
1982	27.6	10.3	2.4	0.1	29.5	3.4	1.4	4.8	0.4	48.1	24.1	0.8	115.2	0.0	13.1	0.0	0.0	16.2	182.3
1983	29.4	9.9	2.6	0.1	26.3	3.1	1.3	4.8	0.5	49.4	24.2	0.8	113.0	0.0	14.2	0.0	0.0	15.6	182.1
1984	34.1	10.8	6.4	0.1	27.9	4.5	0.9	4.3	0.5	52.7	31.4	0.8	129.7	0.0	13.1	0.0	0.0	11.6	199.3
1985	39.7	10.9	5.7	0.1	30.5	2.8	5.1	5.7	0.5	54.3	21.6	0.8	127.2	0.0	21.1	0.0	0.0	11.7	210.7
1986	25.1	10.6	3.7	0.2	33.7	3.3	2.2	6.1	0.4	58.5	44.5	R 0.7	R 153.3	0.0	21.8	0.0	0.0	15.0	R 225.8
1987	31.6	12.3	5.2	0.1	43.9	3.5	2.6	7.5	0.5	62.1	34.6	R 0.7	R 160.8	0.0	22.5	0.0	0.0	19.2	R 246.4
1988	32.8	13.3	2.9	0.2	39.6	3.9	2.8	7.6	0.5	64.8	39.9	0.8	R 163.0	0.0	19.0	0.0	0.0	17.9	R 246.0
1989	31.6	14.2	4.9	0.2	44.0	4.1	3.0	9.1	0.5	64.5	38.9	0.8	R 170.0	0.0	14.7	0.0	0.0	24.1	R 254.7
1990	31.5	14.5	8.0	0.1	36.8	3.6	1.5	7.7	0.5	61.5	33.0	R 0.8	R 153.5	43.6	R I 20.5	I 31.8	I (s)	-18.9	R I 276.9
1991	34.8	14.2	4.4	0.1	37.0	2.6	1.8	6.0	0.5	63.7	25.2	R 0.7	R 141.9	72.9	R 23.3	31.9	(s)	-49.4	R 271.7
1992	34.7	17.0	5.2	0.1	38.5	2.1	1.7	6.4	0.5	63.6	23.7	R 0.7	R 142.4	84.0	R 21.9	33.6	(s)	R -55.7	R 280.2
1993	37.5	17.1	2.1	0.2	39.1	2.2	2.2	7.8	0.5	65.6	25.8	R 0.7	R 146.3	96.6	R 23.1	34.0	(s)	-75.1	R 282.1
1994	33.5	20.0	2.5	0.2	39.9	1.9	1.9	8.1	0.5	67.3	26.4	0.7	149.4	66.2	21.8	33.8	(s)	-43.7	285.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, New Hampshire

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	0	12	12	2	3,622	803	412	4,837	0	0	619	–	1,540	–
1965	0	8	8	3	4,724	710	460	5,894	0	0	868	–	2,072	–
1970	0	5	5	4	6,039	705	474	7,218	0	0	1,476	–	3,577	–
1971	0	5	5	4	6,378	690	512	7,580	0	0	1,666	–	4,029	–
1972	0	3	3	4	6,631	629	607	7,866	0	0	1,910	–	4,597	–
1973	0	3	3	4	6,643	452	589	7,685	0	0	2,065	–	4,944	–
1974	0	3	3	4	6,094	441	561	7,096	0	0	2,118	–	5,165	–
1975	0	3	3	4	5,709	406	692	6,807	0	0	2,148	–	5,181	–
1976	0	2	2	4	7,054	468	737	8,258	0	0	2,321	–	5,591	–
1977	0	2	2	4	6,620	394	752	7,767	0	0	2,345	–	5,663	–
1978	0	2	2	4	6,687	364	871	7,922	0	0	2,421	–	5,923	–
1979	0	1	1	4	4,314	216	559	5,089	0	0	2,464	–	5,946	–
1980	0	2	2	4	3,519	322	588	4,430	0	0	2,478	–	6,026	–
1981	0	4	4	4	3,477	206	587	4,269	0	0	2,481	–	5,913	–
1982	0	7	7	5	3,223	234	597	4,053	0	0	2,460	–	5,910	–
1983	(s)	8	8	4	3,023	217	710	3,950	0	0	2,514	–	6,022	–
1984	0	7	7	5	3,101	160	746	4,007	0	0	2,758	–	6,418	–
1985	0	5	5	5	3,241	855	856	4,951	0	0	2,851	–	6,697	–
1986	0	7	7	5	3,239	353	1,033	4,626	0	0	3,075	–	7,072	–
1987	0	6	6	6	3,943	403	1,226	5,572	0	0	3,261	–	7,452	–
1988	(s)	6	6	6	3,692	438	1,355	5,485	0	0	3,464	–	7,830	–
1989	(s)	4	5	6	4,308	469	1,614	6,391	0	0	3,542	–	7,944	–
1990	(s)	7	7	6	3,395	233	1,449	5,078	[e] 184	[e] 7	3,444	–	R 7,526	–
1991	0	13	13	6	3,566	269	1,229	5,064	194	7	3,357	–	R 7,298	–
1992	2	7	9	6	3,683	250	1,285	5,218	204	7	3,428	–	R 7,319	–
1993	0	6	6	6	3,815	351	1,480	5,646	212	7	3,420	–	R 7,223	–
1994	0	5	5	7	3,814	282	1,533	5,629	207	8	3,431	–	7,154	–
	Trillion Btu													
1960	0.0	0.3	0.3	1.8	21.1	4.6	1.7	27.3	0.0	0.0	2.1	31.5	5.3	36.7
1965	0.0	0.2	0.2	2.7	27.5	4.0	1.8	33.4	0.0	0.0	3.0	39.2	7.1	46.3
1970	0.0	0.1	0.1	3.7	35.2	4.0	1.8	41.0	0.0	0.0	5.0	49.8	12.2	62.0
1971	0.0	0.1	0.1	4.0	37.2	3.9	1.9	43.0	0.0	0.0	5.7	52.7	13.7	66.5
1972	0.0	0.1	0.1	4.3	38.6	3.6	2.3	44.5	0.0	0.0	6.5	55.3	15.7	71.0
1973	0.0	0.1	0.1	4.3	38.7	2.6	2.2	43.5	0.0	0.0	7.0	54.8	16.9	71.7
1974	0.0	0.1	0.1	4.4	35.5	2.5	2.1	40.1	0.0	0.0	7.2	51.7	17.6	69.4
1975	0.0	0.1	0.1	3.8	33.3	2.3	2.6	38.1	0.0	0.0	7.3	49.3	17.7	67.0
1976	0.0	0.1	0.1	4.1	41.1	2.7	2.7	46.5	0.0	0.0	7.9	58.6	19.1	77.7
1977	0.0	0.1	0.1	3.9	38.6	2.2	2.8	43.6	0.0	0.0	8.0	55.5	19.3	74.8
1978	0.0	(s)	(s)	4.0	39.0	2.1	3.2	44.2	0.0	0.0	8.3	56.5	20.2	76.7
1979	0.0	(s)	(s)	3.9	25.1	1.2	2.1	28.4	0.0	0.0	8.4	40.7	20.3	61.0
1980	0.0	(s)	(s)	4.4	20.5	1.8	2.2	24.5	0.0	0.0	8.5	37.4	20.6	58.0
1981	0.0	0.1	0.1	4.6	20.3	1.2	2.1	23.6	0.0	0.0	8.5	36.7	20.2	56.9
1982	0.0	0.2	0.2	4.6	18.8	1.3	2.2	22.3	0.0	0.0	8.4	35.4	20.2	55.6
1983	(s)	0.2	0.2	4.4	17.6	1.2	2.6	21.4	0.0	0.0	8.6	34.6	20.5	55.1
1984	0.0	0.2	0.2	4.7	18.1	0.9	2.7	21.7	0.0	0.0	9.4	36.0	21.9	57.9
1985	0.0	0.1	0.1	4.8	18.9	4.8	3.1	26.8	0.0	0.0	9.7	41.5	22.9	64.3
1986	0.0	0.2	0.2	5.2	18.9	2.0	3.8	24.6	0.0	0.0	10.5	40.5	24.1	64.7
1987	0.0	0.2	0.2	5.8	23.0	2.3	4.5	29.7	0.0	0.0	11.1	46.8	25.4	72.2
1988	(s)	0.2	0.2	6.1	21.5	2.5	4.9	28.9	0.0	0.0	11.8	47.0	26.7	73.7
1989	(s)	0.1	0.1	6.4	25.1	2.7	5.9	33.7	0.0	0.0	12.1	52.3	27.1	79.4
1990	(s)	0.2	0.2	6.0	19.8	1.3	5.3	26.4	[e] 3.7	[e] (s)	11.8	R [e] 48.0	25.7	R [e] 73.7
1991	0.0	0.3	0.3	5.6	20.8	1.5	4.4	26.7	3.9	(s)	11.5	R 48.1	24.9	R 73.0
1992	(s)	0.2	0.2	6.8	21.5	1.4	4.7	27.5	4.1	(s)	11.7	R 50.3	25.0	R 75.3
1993	0.0	0.1	0.1	6.6	22.2	2.0	5.3	29.5	4.2	(s)	11.7	R 52.2	24.6	R 76.8
1994	0.0	0.1	0.1	6.7	22.2	1.6	5.6	29.4	4.1	(s)	11.7	52.0	24.4	76.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, New Hampshire

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	0	8	8	1	376	30	73	37	18	534	371	–	922	–
1965	0	5	5	1	491	26	81	43	26	667	468	–	1,117	–
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	132	67	423	1,040	1,484	–	3,455	–
1985	0	3	3	5	550	41	151	126	87	956	1,582	–	3,718	–
1986	0	5	5	4	897	20	182	146	522	1,767	1,718	–	3,953	–
1987	0	4	4	5	1,675	36	216	129	282	2,339	1,910	–	4,363	–
1988	1	4	5	5	1,153	44	239	142	488	2,066	2,046	–	4,625	–
1989	1	3	3	5	1,186	54	285	128	478	2,131	2,123	–	4,762	–
1990	1	4	5	5	1,191	25	256	73	657	2,201	2,117	–	R 4,626	–
1991	0	9	9	5	1,140	21	217	55	675	2,109	2,140	–	R 4,653	–
1992	3	5	7	6	1,129	22	227	48	326	1,752	2,193	–	R 4,682	–
1993	0	4	4	6	1,123	35	261	11	380	1,809	2,241	–	R 4,733	–
1994	0	3	3	6	1,279	41	271	11	453	2,053	3,343	–	6,972	–
	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
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
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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	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	(s)	(s)	3.5	2.6	(s)	0.4	0.3	0.1	3.4	3.7	10.6	8.9	19.5
1980	0.0	(s)	(s)	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	(s)	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	(s)	0.4	0.4	3.9	8.2	4.2	17.0	10.0	27.0
1983	(s)	0.1	0.1	4.5	2.4	(s)	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	(s)	0.5	0.4	2.7	5.9	5.1	15.3	11.8	27.1
1985	0.0	0.1	0.1	5.1	3.2	0.2	0.5	0.7	0.5	5.2	5.4	15.8	12.7	28.4
1986	0.0	0.1	0.1	4.6	5.2	0.1	0.7	0.8	3.3	10.1	5.9	20.6	13.5	34.1
1987	0.0	0.1	0.1	4.7	9.8	0.2	0.8	0.7	1.8	13.2	6.5	24.6	14.9	39.5
1988	(s)	0.1	0.1	5.2	6.7	0.2	0.9	0.7	3.1	11.7	7.0	23.9	15.8	39.7
1989	(s)	0.1	0.1	5.5	6.9	0.3	1.0	0.7	3.0	11.9	7.2	24.8	16.2	41.0
1990	(s)	0.1	0.1	5.1	6.9	0.1	0.9	0.4	4.1	12.5	7.2	25.0	15.8	40.8
1991	0.0	0.2	0.2	5.1	6.6	0.1	0.8	0.3	4.2	12.1	7.3	24.7	15.9	40.5
1992	0.1	0.1	0.2	6.1	6.6	0.1	0.8	0.3	2.0	9.8	7.5	23.6	16.0	39.6
1993	0.0	0.1	0.1	6.2	6.5	0.2	0.9	0.1	2.4	10.1	7.6	24.1	16.1	40.2
1994	0.0	0.1	0.1	6.5	7.5	0.2	1.0	0.1	2.8	11.6	11.4	29.5	23.8	53.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, New Hampshire

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	100	1	470	280	10	47	22	66	727	22	1,644	239	0	0	596	–	1,483	–
1965	36	1	424	421	22	114	24	53	1,046	29	2,132	170	0	0	902	–	2,152	–
1970	9	1	541	511	46	267	17	38	2,842	170	4,432	184	0	0	1,452	–	3,519	–
1971	11	1	615	575	49	310	20	34	3,366	55	5,024	164	0	0	1,562	–	3,775	–
1972	5	1	697	584	54	424	21	37	3,580	58	5,455	176	0	0	1,693	–	4,076	–
1973	5	1	826	560	24	456	18	27	3,248	72	5,232	179	0	0	1,845	–	4,416	–
1974	10	1	567	486	23	495	18	40	2,398	253	4,279	173	0	0	1,806	–	4,403	–
1975	6	1	431	460	42	617	22	31	2,266	181	4,048	178	0	0	1,839	–	4,436	–
1976	1	1	487	528	49	749	24	29	2,830	334	5,030	185	0	0	2,025	–	4,877	–
1977	32	1	434	507	30	1,000	23	26	2,880	375	5,274	188	0	0	2,092	–	5,052	–
1978	2	1	456	492	30	767	25	22	2,023	394	4,209	166	0	0	2,317	–	5,669	–
1979	2	1	426	410	12	686	26	17	597	424	2,598	162	0	0	2,427	–	5,857	–
1980	10	1	253	558	9	514	23	27	923	434	2,741	155	0	0	2,406	–	5,851	–
1981	3	1	350	571	5	516	22	18	417	199	2,097	155	0	0	2,421	–	5,770	–
1982	58	1	368	489	6	607	20	19	589	153	2,251	155	0	0	2,345	–	5,632	–
1983	58	1	391	270	3	480	21	21	874	144	2,205	155	0	0	2,414	–	5,783	–
1984	53	2	968	277	2	304	23	31	1,194	153	2,950	155	0	0	2,545	–	5,923	–
1985	40	1	654	384	6	556	21	61	1,024	153	3,059	155	0	0	2,974	–	6,987	–
1986	4	1	553	341	7	448	21	67	1,976	R 130	R 3,542	155	0	0	3,079	–	7,083	–
1987	3	2	779	534	26	595	23	64	1,441	R 135	R 3,598	155	0	0	3,202	–	7,317	–
1988	1	2	430	497	11	476	23	68	909	R 139	R 2,551	155	0	0	3,339	–	7,548	–
1989	15	2	742	539	14	558	23	91	615	R 137	R 2,719	155	0	0	3,420	–	7,670	–
1990	28	3	1,198	435	8	402	24	55	529	R 145	R 2,796	R f NA	f NA	f NA	3,418	–	R 7,470	–
1991	51	3	659	446	31	198	21	50	461	R 122	R 1,988	R NA	NA	NA	3,265	–	R 7,099	–
1992	44	4	791	500	20	239	22	51	1,031	R 126	R 2,781	R NA	NA	NA	3,333	–	R 7,115	–
1993	79	4	320	423	9	405	22	91	1,432	R 127	R 2,830	R NA	NA	NA	3,100	–	R 6,546	–
1994	0	4	381	365	14	393	23	99	1,323	132	2,730	NA	NA	NA	2,182	–	4,551	–
			Trillion Btu															
1960	2.5	0.7	3.1	1.6	0.1	0.2	0.1	0.3	4.6	0.1	10.2	2.6	0.0	0.0	2.0	17.9	5.1	23.0
1965	0.9	0.7	2.8	2.5	0.1	0.5	0.1	0.3	6.6	0.2	13.0	1.8	0.0	0.0	3.1	19.4	7.3	26.7
1970	0.2	0.8	3.6	3.0	0.3	1.0	0.1	0.2	17.9	0.9	26.9	1.9	0.0	0.0	5.0	34.8	12.0	46.9
1971	0.3	1.0	4.1	3.4	0.3	1.2	0.1	0.2	21.2	0.3	30.6	1.7	0.0	0.0	5.3	38.9	12.9	51.8
1972	0.1	1.0	4.6	3.4	0.3	1.6	0.1	0.2	22.5	0.3	33.1	1.8	0.0	0.0	5.8	41.8	13.9	55.7
1973	0.1	1.4	5.5	3.3	0.1	1.7	0.1	0.1	20.4	0.4	31.7	1.9	0.0	0.0	6.3	41.3	15.1	56.4
1974	0.2	1.3	3.8	2.8	0.1	1.8	0.1	0.2	15.1	1.5	25.4	1.8	0.0	0.0	6.2	34.9	15.0	49.9
1975	0.1	1.1	2.9	2.7	0.2	2.3	0.1	0.2	14.2	1.1	23.7	1.9	0.0	0.0	6.3	33.0	15.1	48.2
1976	(s)	1.2	3.2	3.1	0.3	2.8	0.1	0.2	17.8	1.9	29.4	1.9	0.0	0.0	6.9	39.4	16.6	56.1
1977	0.7	1.2	2.9	3.0	0.2	3.7	0.1	0.1	18.1	2.2	30.2	2.0	0.0	0.0	7.1	41.3	17.2	58.5
1978	(s)	1.2	3.0	2.9	0.2	2.8	0.2	0.1	12.7	2.3	24.1	1.7	0.0	0.0	7.9	35.0	19.3	54.4
1979	(s)	1.3	2.8	2.4	0.1	2.5	0.2	0.1	3.8	2.4	14.2	1.7	0.0	0.0	8.3	25.5	20.0	45.5
1980	0.2	1.0	1.7	3.2	0.1	1.9	0.1	0.1	5.8	2.5	15.4	1.6	0.0	0.0	8.2	26.5	20.0	46.5
1981	0.1	1.2	2.3	3.3	(s)	1.9	0.1	0.1	2.6	1.1	11.5	1.6	0.0	0.0	8.3	22.7	19.7	42.3
1982	1.4	1.1	2.4	2.8	(s)	2.2	0.1	0.1	3.7	0.8	12.3	1.6	0.0	0.0	8.0	24.4	19.2	43.6
1983	1.4	0.9	2.6	1.6	(s)	1.7	0.1	0.1	5.5	0.8	12.5	1.6	0.0	0.0	8.2	24.6	19.7	44.4
1984	1.3	1.8	6.4	1.6	(s)	1.1	0.1	0.2	7.5	0.8	17.8	1.6	0.0	0.0	8.7	31.2	20.2	51.4
1985	1.0	0.9	5.7	2.2	(s)	2.0	0.1	0.3	6.4	0.8	17.7	1.6	0.0	0.0	10.1	31.3	23.8	55.2
1986	0.1	0.7	3.7	2.0	(s)	1.6	0.1	0.4	12.4	R 0.7	R 20.9	1.6	0.0	0.0	10.5	R 33.9	24.2	R 58.1
1987	0.1	1.8	5.2	3.1	0.1	2.2	0.1	0.3	9.1	R 0.7	R 20.9	1.6	0.0	0.0	10.9	R 35.3	25.0	R 60.2
1988	(s)	2.0	2.9	2.9	0.1	1.7	0.1	0.4	5.7	0.8	R 14.5	1.6	0.0	0.0	11.4	29.6	25.8	R 55.3
1989	0.4	2.3	4.9	3.1	0.1	2.1	0.1	0.5	3.9	0.8	R 15.4	1.6	0.0	0.0	11.7	31.4	26.2	R 57.5
1990	0.7	3.3	8.0	2.5	(s)	1.5	0.1	0.3	3.3	R 0.8	R 16.5	R f 3.8	f 28.1	f 0.0	11.7	R f 64.1	25.5	R f 89.6
1991	1.3	3.5	4.4	2.6	0.2	0.7	0.1	0.3	2.9	R 0.7	R 11.8	R 3.8	28.0	0.0	11.1	R 59.6	24.2	R 83.8
1992	1.1	4.0	5.2	2.9	0.1	0.9	0.1	0.3	6.5	R 0.7	R 16.7	R 4.5	29.5	0.0	11.4	R 67.1	24.3	R 91.4
1993	2.0	3.8	2.1	2.5	0.1	1.5	0.1	0.5	9.0	R 0.7	R 16.4	R 4.2	29.8	0.0	10.6	R 66.8	22.3	R 89.2
1994	0.0	4.5	2.5	2.1	0.1	1.4	0.1	0.5	8.3	0.7	15.9	4.4	29.6	0.0	7.4	61.9	15.5	77.4

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
NA=Not available.
– =Not applicable.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, New Hampshire

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	2	0	18	209	1,151	(s)	74	4,837	49	6,338	0	0	–	0	–
1965	(s)	0	46	178	1,097	1	60	5,677	1	7,061	0	0	–	0	–
1970	(s)	0	38	319	1,053	5	55	8,038	69	9,577	0	0	–	0	–
1971	(s)	0	48	281	1,086	6	57	8,495	36	10,009	0	0	–	0	–
1972	(s)	0	44	296	1,023	6	61	8,946	40	10,415	0	0	–	0	–
1973	(s)	0	43	436	935	6	60	9,240	20	10,741	0	0	–	0	–
1974	(s)	0	41	486	948	5	58	9,129	26	10,693	0	0	–	0	–
1975	(s)	0	33	418	903	5	48	9,290	9	10,706	0	0	–	0	–
1976	0	0	30	508	866	6	53	9,835	5	11,303	0	0	–	0	–
1977	(s)	0	37	530	913	8	60	10,232	0	11,780	0	0	–	0	–
1978	0	0	44	597	837	25	64	10,451	0	12,018	0	0	–	0	–
1979	0	0	40	681	771	35	67	9,714	861	12,170	0	0	–	0	–
1980	0	(s)	40	687	771	74	60	9,240	49	10,921	0	0	–	0	–
1981	0	(s)	30	705	582	10	58	9,147	49	10,580	0	0	–	0	–
1982	0	(s)	25	755	633	9	53	9,056	29	10,559	0	0	–	0	–
1983	0	(s)	26	798	574	11	55	9,317	0	10,781	0	0	–	0	–
1984	0	(s)	20	972	820	25	59	9,937	0	11,834	0	0	–	0	–
1985	0	(s)	24	1,038	521	24	55	10,149	0	11,811	0	0	–	0	–
1986	0	(s)	38	1,269	620	16	53	10,917	50	12,963	0	0	–	0	–
1987	0	(s)	28	1,361	644	19	60	11,626	227	13,965	0	0	–	0	–
1988	0	(s)	37	1,400	725	14	58	12,126	146	14,507	0	0	–	0	–
1989	0	(s)	33	1,464	759	14	60	12,060	20	14,409	0	0	–	0	–
1990	0	(s)	21	1,267	647	15	61	11,582	83	13,676	[e]0	0	–	0	–
1991	0	(s)	26	1,166	468	9	55	12,026	200	13,951	0	0	–	0	–
1992	0	(s)	19	1,268	378	10	56	12,015	122	13,868	0	0	–	0	–
1993	0	(s)	43	1,314	388	17	57	12,389	1	14,210	0	0	–	0	–
1994	0	1	33	1,362	342	24	60	12,706	10	14,536	0	0	–	0	–
			Trillion Btu												
1960	(s)	0.0	0.1	1.2	6.2	(s)	0.5	25.4	0.3	33.6	0.0	0.0	33.7	0.0	33.7
1965	(s)	0.0	0.2	1.0	5.9	(s)	0.4	29.8	(s)	37.3	0.0	0.0	37.3	0.0	37.3
1970	(s)	0.0	0.2	1.9	5.7	(s)	0.3	42.2	0.4	50.7	0.0	0.0	50.7	0.0	50.7
1971	(s)	0.0	0.2	1.6	5.8	(s)	0.3	44.6	0.2	52.9	0.0	0.0	52.9	0.0	52.9
1972	(s)	0.0	0.2	1.7	5.5	(s)	0.4	47.0	0.2	55.1	0.0	0.0	55.1	0.0	55.1
1973	(s)	0.0	0.2	2.5	5.0	(s)	0.4	48.5	0.1	56.8	0.0	0.0	56.8	0.0	56.8
1974	(s)	0.0	0.2	2.8	5.1	(s)	0.4	48.0	0.2	56.6	0.0	0.0	56.6	0.0	56.6
1975	(s)	0.0	0.2	2.4	4.8	(s)	0.3	48.8	0.1	56.6	0.0	0.0	56.6	0.0	56.6
1976	0.0	0.0	0.2	3.0	4.7	(s)	0.3	51.7	(s)	59.8	0.0	0.0	59.8	0.0	59.8
1977	(s)	0.0	0.2	3.1	4.9	(s)	0.4	53.8	0.0	62.3	0.0	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	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	0.0	65.3	0.0	65.3
1980	0.0	(s)	0.2	4.0	4.1	0.3	0.4	48.5	0.3	57.8	0.0	0.0	57.9	0.0	57.9
1981	0.0	0.1	0.1	4.1	3.1	(s)	0.3	48.1	0.3	56.1	0.0	0.0	56.2	0.0	56.2
1982	0.0	0.1	0.1	4.4	3.4	(s)	0.3	47.6	0.2	56.0	0.0	0.0	56.1	0.0	56.1
1983	0.0	(s)	0.1	4.6	3.1	(s)	0.3	48.9	0.0	57.2	0.0	0.0	57.2	0.0	57.2
1984	0.0	(s)	0.1	5.7	4.5	0.1	0.4	52.2	0.0	62.9	0.0	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	0.0	62.8	0.0	62.8
1986	0.0	(s)	0.2	7.4	3.3	0.1	0.3	57.3	0.3	69.0	0.0	0.0	69.0	0.0	69.0
1987	0.0	(s)	0.1	7.9	3.5	0.1	0.4	61.1	1.4	74.5	0.0	0.0	74.5	0.0	74.5
1988	0.0	(s)	0.2	8.2	3.9	0.1	0.4	63.7	0.9	77.3	0.0	0.0	77.3	0.0	77.3
1989	0.0	(s)	0.2	8.5	4.1	0.1	0.4	63.4	0.1	76.7	0.0	0.0	76.7	0.0	76.7
1990	0.0	(s)	0.1	7.4	3.6	0.1	0.4	60.8	0.5	72.8	[e]0.0	0.0	[e]72.8	0.0	[e]72.8
1991	0.0	(s)	0.1	6.8	2.6	(s)	0.3	63.2	1.3	74.3	0.0	0.0	74.4	0.0	74.4
1992	0.0	0.1	0.1	7.4	2.1	(s)	0.3	63.1	0.8	73.8	0.0	0.0	73.9	0.0	73.9
1993	0.0	0.3	0.2	7.7	2.2	0.1	0.3	65.1	(s)	75.5	0.0	0.0	75.9	0.0	75.9
1994	0.0	1.0	0.2	7.9	1.9	0.1	0.4	66.7	0.1	77.3	0.0	0.0	78.3	0.0	78.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, New Hampshire

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	358	0	358	0	1,343	98	0	1,441	0	882	0	0	0	–
1970	975	0	975	0	2,537	184	0	2,721	0	1,056	0	0	0	–
1971	930	0	930	(s)	2,601	195	0	2,796	0	929	0	0	0	–
1972	1,118	0	1,118	(s)	2,219	227	0	2,446	0	1,094	0	0	0	–
1973	1,045	0	1,045	(s)	2,015	113	0	2,127	0	1,435	0	0	0	–
1974	931	0	931	(s)	1,863	77	0	1,940	0	1,292	0	0	0	–
1975	972	0	972	(s)	2,279	27	0	2,306	0	1,073	0	0	0	–
1976	751	0	751	(s)	3,055	21	0	3,076	0	1,330	0	0	0	–
1977	959	0	959	(s)	2,830	10	0	2,840	0	1,216	0	0	0	–
1978	779	0	779	0	3,499	7	0	3,506	0	965	0	0	0	–
1979	1,079	0	1,079	(s)	4,308	7	0	4,314	0	1,050	0	0	0	–
1980	1,080	0	1,080	0	4,348	18	0	4,366	0	872	0	0	0	–
1981	890	0	890	(s)	3,984	19	0	4,003	0	1,206	0	0	0	–
1982	959	0	959	0	2,593	19	0	2,612	0	1,095	0	0	0	–
1983	1,019	0	1,019	(s)	2,659	20	0	2,680	0	1,198	0	0	0	–
1984	1,198	0	1,198	(s)	3,381	29	0	3,410	0	1,100	0	0	0	–
1985	1,433	0	1,433	0	2,332	31	0	2,363	0	1,868	0	0	0	–
1986	917	0	917	0	4,535	35	0	4,569	0	1,936	0	0	0	–
1987	1,163	0	1,163	(s)	3,548	28	0	3,576	0	2,007	0	0	0	–
1988	1,217	0	1,217	(s)	4,808	62	0	4,870	0	1,688	0	0	0	–
1989	1,160	0	1,160	(s)	5,074	61	0	5,135	0	1,273	0	0	0	–
1990	1,146	0	1,146	0	3,983	37	0	4,020	4,081	R 1,620	0	0	0	–
1991	1,242	0	1,242	0	2,669	35	0	2,704	6,788	R 1,878	0	0	0	–
1992	1,251	0	1,251	1	2,283	32	0	2,315	7,869	R 1,696	0	0	0	–
1993	1,339	0	1,339	(s)	2,291	46	0	2,338	9,047	R 1,830	0	0	0	–
1994	1,279	0	1,279	1	2,414	28	0	2,442	6,204	1,696	0	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	0.0	24.0
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	0.0	28.2
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	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	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	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	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	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	0.0	51.8
1976	20.2	0.0	20.2	(s)	19.2	0.1	0.0	19.3	0.0	13.8	0.0	0.0	0.0	53.3
1977	25.6	0.0	25.6	(s)	17.8	0.1	0.0	17.8	0.0	12.7	0.0	0.0	0.0	56.2
1978	20.3	0.0	20.3	0.0	22.0	(s)	0.0	22.0	0.0	10.0	0.0	0.0	0.0	52.3
1979	29.0	0.0	29.0	(s)	27.1	(s)	0.0	27.1	0.0	10.9	0.0	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	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	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	0.0	53.8
1983	27.6	0.0	27.6	(s)	16.7	0.1	0.0	16.8	0.0	12.6	0.0	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	11.5	0.0	0.0	0.0	65.4
1985	38.6	0.0	38.6	0.0	14.7	0.2	0.0	14.8	0.0	19.5	0.0	0.0	0.0	72.9
1986	24.7	0.0	24.7	0.0	28.5	0.2	0.0	28.7	0.0	20.2	0.0	0.0	0.0	73.6
1987	31.2	0.0	31.2	(s)	22.3	0.2	0.0	22.5	0.0	20.9	0.0	0.0	0.0	74.6
1988	32.4	0.0	32.4	0.1	30.2	0.4	0.0	30.6	0.0	17.4	0.0	0.0	0.0	80.5
1989	31.0	0.0	31.0	(s)	31.9	0.4	0.0	32.3	0.0	13.1	0.0	0.0	0.0	76.4
1990	30.5	0.0	30.5	0.0	25.0	0.2	0.0	25.3	43.6	R 16.7	0.0	0.0	0.0	116.5
1991	32.9	0.0	32.9	0.0	16.8	0.2	0.0	17.0	72.9	R 19.4	0.0	0.0	0.0	144.3
1992	33.2	0.0	33.2	0.0	14.4	0.2	0.0	14.5	84.0	R 17.5	0.0	0.0	0.0	151.5
1993	35.3	0.0	35.3	0.1	14.4	0.3	0.0	14.7	96.6	R 18.8	0.0	0.0	0.0	168.1
1994	33.3	0.0	33.3	1.3	15.2	0.2	0.0	15.3	66.2	17.4	0.0	0.0	0.0	138.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, New Jersey

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kero-sene [a]	LPG [a]	Lubri-cants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	12,732	165,832	0	45	0	0	4,034	–
1965	9,034	210	5,340	1,153	53,611	5,280	2,096	4,268	2,052	55,149	42,900	20,461	192,311	0	-31	0	0	5,282	–
1970	4,946	323	5,828	160	63,391	6,705	1,829	6,748	1,952	66,231	80,770	25,007	258,622	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	23,256	255,092	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	26,172	279,391	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	27,846	285,342	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	27,410	259,616	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	26,247	234,608	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	23,793	244,821	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	26,025	249,385	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	27,678	250,190	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	31,555	245,540	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	30,958	234,849	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	28,953	222,848	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	23,190	224,300	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	21,831	218,965	6,328	-228	0	0	83,997	–
1984	3,196	418	6,241	135	40,820	42,383	948	8,706	2,315	77,257	29,652	24,855	233,313	5,610	-246	0	0	89,849	–
1985	3,943	379	4,733	184	40,389	43,910	1,404	7,184	2,158	75,391	23,986	22,278	221,617	17,770	-244	0	0	68,612	–
1986	2,961	353	5,565	159	44,963	39,197	1,223	6,405	2,110	80,694	30,986	R27,233	R238,534	14,770	-286	0	0	90,455	–
1987	3,434	421	5,312	201	43,820	43,323	1,318	7,721	2,385	81,137	25,218	R28,248	R238,682	22,697	-309	0	0	65,237	–
1988	3,058	414	4,332	152	46,124	40,820	1,380	7,480	2,300	81,188	23,318	R29,372	R236,467	23,890	-219	0	0	74,131	–
1989	3,545	457	4,032	128	45,037	44,140	1,537	6,336	2,359	81,366	22,749	R29,920	R237,604	23,032	-258	0	0	73,641	–
1990	3,029	428	3,586	119	34,884	46,377	729	4,295	2,428	77,893	15,364	R31,092	R216,766	23,770	RNA	NA	NA	R84,014	–
1991	2,326	463	3,137	100	33,247	43,733	615	6,066	2,172	79,679	17,673	R28,919	R215,342	24,807	RNA	NA	NA	R86,649	–
1992	2,348	546	3,378	122	33,601	46,133	820	6,594	2,214	76,650	15,949	R30,487	R215,949	21,595	RNA	NA	NA	R98,434	–
1993	2,353	552	8,291	121	34,087	48,161	519	3,722	2,255	70,442	12,813	R30,753	R211,163	24,932	RNA	NA	NA	R95,244	–
1994	1,969	585	5,220	158	37,272	48,376	1,504	3,827	2,357	81,585	13,603	32,373	226,272	22,129	NA	NA	NA	102,145	–
			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	75.7	955.7	0.0	0.5	0.0	0.0	13.8	1,282.8
1965	236.6	219.2	35.4	5.8	312.3	29.4	11.9	17.1	12.4	289.7	269.7	117.3	1,101.1	0.0	-0.3	0.0	0.0	18.0	1,574.6
1970	123.3	331.2	38.7	0.8	369.3	37.5	10.4	25.5	11.8	347.9	507.8	141.7	1,491.4	37.9	-4.2	0.0	0.0	20.2	1,999.8
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	398.7	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	358.0	38.1	9.9	28.5	11.7	417.4	363.2	136.7	1,391.5	42.6	-2.5	0.0	0.0	243.8	2,078.4
1977	71.0	255.5	36.4	0.5	345.4	47.3	14.3	29.2	14.4	407.3	375.2	149.7	1,419.7	74.9	-1.7	0.0	0.0	204.3	2,023.8
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	179.8	1,397.2	71.9	-2.9	0.0	0.0	275.7	2,071.0
1980	68.7	351.0	29.0	0.4	307.9	49.3	9.6	27.1	14.4	382.1	337.1	175.0	1,331.9	83.2	-2.9	0.0	0.0	253.9	2,085.8
1981	75.5	403.4	32.7	0.4	295.1	102.2	8.3	22.7	13.8	380.2	237.5	163.4	1,256.4	128.8	-2.4	0.0	0.0	221.4	2,082.9
1982	78.4	387.3	32.1	0.7	264.9	193.3	8.0	22.6	12.6	385.2	210.1	130.7	1,260.2	155.5	-2.3	0.0	0.0	217.8	2,096.7
1983	91.6	418.0	40.6	0.8	229.0	209.8	10.2	22.7	13.2	407.9	167.1	124.9	1,226.1	69.0	-2.4	0.0	0.0	286.6	2,088.8
1984	84.0	428.3	41.4	0.7	237.8	239.9	5.4	31.3	14.0	405.8	186.4	139.0	1,301.8	60.8	-2.6	0.0	0.0	306.6	2,178.8
1985	103.3	389.1	31.4	0.9	235.3	248.6	8.0	25.9	13.1	396.0	150.8	124.8	1,234.7	192.1	-2.6	0.0	0.0	234.1	2,150.8
1986	77.9	363.0	36.9	0.8	261.9	221.8	6.9	23.3	12.8	423.9	194.8	R153.5	R1,336.7	159.5	-3.0	0.0	0.0	308.6	R2,242.8
1987	90.5	432.4	35.2	1.0	255.3	245.2	7.5	28.3	14.5	426.2	158.5	R158.1	R1,329.8	244.6	-3.2	0.0	0.0	222.6	R2,316.7
1988	81.1	425.0	28.7	0.8	268.7	231.1	7.8	27.3	13.9	426.5	146.6	R165.0	R1,316.5	256.7	-2.3	0.0	0.0	252.9	R2,330.0
1989	94.0	469.0	26.8	0.6	262.3	249.9	8.7	23.3	14.3	427.4	143.0	R167.9	R1,324.4	247.0	-2.7	0.0	0.0	251.3	R2,383.0
1990	80.9	439.0	23.8	0.6	203.2	262.6	4.1	15.6	14.7	409.2	96.6	R173.8	R1,204.2	253.9	RI-1.3	I37.5	I0.3	R286.7	RI2,300.9
1991	62.0	475.5	20.8	0.5	193.7	247.0	3.5	21.9	13.2	418.6	111.1	R162.8	R1,193.0	266.4	R-1.4	38.1	0.3	R295.6	R2,329.4
1992	62.8	560.5	22.4	0.6	195.7	261.2	4.7	23.9	13.4	402.6	100.3	R170.4	R1,195.2	230.6	R-1.2	40.0	0.4	R335.9	R2,424.0
1993	62.7	571.8	55.0	0.6	198.6	272.8	2.9	13.4	13.7	370.0	80.6	R172.3	R1,179.9	266.3	R-1.1	41.7	0.4	R325.0	R2,446.5
1994	52.4	607.7	34.6	0.8	217.1	274.2	8.5	13.9	14.3	428.6	85.5	181.5	1,259.1	236.3	-1.6	44.1	0.4	348.5	2,546.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[i] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, New Jersey

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	23	232	255	75	25,587	1,200	737	27,524	0	0	5,080	–	12,635	–
1965	12	146	158	114	29,038	969	672	30,679	0	0	7,410	–	17,692	–
1970	1	89	90	140	32,933	769	834	34,536	0	0	12,131	–	29,398	–
1971	1	85	85	143	32,623	863	810	34,296	0	0	12,855	–	31,079	–
1972	1	65	66	150	35,119	958	923	37,001	0	0	13,566	–	32,655	–
1973	8	64	72	137	35,546	796	883	37,225	0	0	14,836	–	35,517	–
1974	3	57	60	136	31,103	602	905	32,610	0	0	14,305	–	34,879	–
1975	1	47	47	129	30,655	431	964	32,050	0	0	14,495	–	34,964	–
1976	0	44	44	148	31,391	707	1,156	33,253	0	0	15,003	–	36,141	–
1977	0	43	43	134	29,738	1,026	1,184	31,948	0	0	15,393	–	37,169	–
1978	0	35	35	136	28,119	946	1,134	30,199	0	0	15,691	–	38,388	–
1979	0	28	28	125	21,486	247	798	22,530	0	0	15,797	–	38,123	–
1980	0	34	34	136	23,976	262	777	25,015	0	0	16,329	–	39,707	–
1981	2	56	58	146	23,162	193	946	24,301	0	0	16,026	–	38,195	–
1982	0	56	56	149	19,292	353	842	20,487	0	0	15,759	–	37,850	–
1983	0	50	50	147	16,041	310	1,000	17,352	0	0	16,869	–	40,415	–
1984	1	19	20	152	16,451	451	923	17,824	0	0	17,157	–	39,935	–
1985	4	58	62	151	18,071	907	918	19,896	0	0	17,177	–	40,356	–
1986	1	36	36	158	17,268	644	1,025	18,937	0	0	18,089	–	41,609	–
1987	0	17	17	169	17,440	513	1,108	19,061	0	0	19,308	–	44,118	–
1988	0	14	14	182	17,480	472	1,351	19,303	0	0	20,656	–	46,700	–
1989	(s)	8	9	196	15,926	570	1,303	17,800	0	0	20,695	–	46,410	–
1990	(s)	7	8	172	11,498	295	899	12,692	[e] 647	[e] 94	20,498	–	R 44,792	–
1991	(s)	6	7	177	11,069	329	1,108	12,505	681	98	21,539	–	R 46,830	–
1992	1	7	8	198	11,201	273	1,317	12,790	717	104	20,547	–	R 43,864	–
1993	0	5	5	196	11,535	223	1,391	13,149	767	109	R 22,042	–	R 46,551	–
1994	0	6	6	217	12,340	291	1,304	13,935	751	122	22,154	–	46,200	–
									Trillion Btu					
1960	0.6	5.7	6.3	77.7	149.0	6.8	3.0	158.8	0.0	0.0	17.3	260.2	43.1	303.3
1965	0.3	3.5	3.8	119.6	169.1	5.5	2.7	177.3	0.0	0.0	25.3	326.0	60.4	386.4
1970	(s)	2.1	2.1	143.9	191.8	4.4	3.2	199.3	0.0	0.0	41.4	386.7	100.3	487.0
1971	(s)	2.0	2.0	146.9	190.0	4.9	3.1	198.0	0.0	0.0	43.9	390.8	106.0	496.8
1972	(s)	1.5	1.5	153.8	204.6	5.4	3.5	213.5	0.0	0.0	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	0.0	0.0	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	0.0	0.0	48.8	377.5	119.0	496.5
1975	(s)	1.0	1.1	133.4	178.6	2.4	3.6	184.6	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	57.6	308.6	137.9	446.5
1984	(s)	0.5	0.5	154.9	95.8	2.6	3.3	101.7	0.0	0.0	58.5	315.6	136.3	451.9
1985	0.1	1.3	1.4	154.3	105.3	5.1	3.3	113.7	0.0	0.0	58.6	328.0	137.7	465.7
1986	(s)	0.9	0.9	162.4	100.6	3.7	3.7	108.0	0.0	0.0	61.7	332.9	142.0	474.9
1987	0.0	0.5	0.5	172.8	101.6	2.9	4.1	108.5	0.0	0.0	65.9	347.7	150.5	498.2
1988	0.0	0.4	0.4	186.0	101.8	2.7	4.9	109.4	0.0	0.0	70.5	366.3	159.3	525.7
1989	(s)	0.2	0.2	200.4	92.8	3.2	4.8	100.8	0.0	0.0	70.6	372.1	158.4	530.4
1990	(s)	0.2	0.2	176.0	67.0	1.7	3.3	71.9	[e] 12.9	[e] 0.3	69.9	R [e] 331.3	152.8	R [e] 484.1
1991	(s)	0.2	0.2	181.1	64.5	1.9	4.0	70.3	13.6	0.3	73.5	R 339.0	R 159.8	R 498.8
1992	(s)	0.2	0.2	203.5	65.2	1.5	4.8	71.6	14.3	0.4	70.1	R 360.1	R 149.7	R 509.7
1993	0.0	0.1	0.1	202.6	67.2	1.3	5.0	73.5	15.3	0.4	75.2	R 367.1	158.8	R 526.0
1994	0.0	0.2	0.2	225.4	71.9	1.7	4.7	78.3	15.0	0.4	75.6	394.9	157.6	552.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, New Jersey

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	23	97	120	20	9,805	377	119	420	7,473	18,194	6,945	–	16,583	–
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	163	647	3,634	11,820	19,691	–	45,833	–
1985	7	39	46	83	5,638	77	162	660	3,128	9,665	20,911	–	49,127	–
1986	1	24	25	86	8,889	108	181	652	2,717	12,546	22,181	–	51,023	–
1987	0	12	12	94	7,787	109	196	665	2,390	11,146	23,679	–	54,105	–
1988	0	10	10	101	7,899	116	238	647	2,854	11,756	25,527	–	57,710	–
1989	1	6	6	117	8,167	264	230	669	1,795	11,125	26,849	–	60,213	–
1990	1	5	5	116	6,916	178	159	750	1,480	9,483	27,216	–	R 59,472	–
1991	(s)	4	4	121	6,559	192	195	691	1,607	9,244	28,009	–	R 60,898	–
1992	2	5	7	131	6,364	389	232	613	1,371	8,970	27,783	–	R 59,310	–
1993	0	3	3	129	5,605	160	245	77	1,997	8,084	R 28,885	–	R 61,003	–
1994	0	4	4	132	4,983	615	230	84	2,109	8,022	29,753	–	62,049	–
	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
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
1970	(s)	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	(s)	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	(s)	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	(s)	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	22.8	69.8	67.2	223.0	156.4	379.4
1985	0.2	0.9	1.1	85.3	32.8	0.4	0.6	3.5	19.7	57.0	71.3	214.7	167.6	382.3
1986	(s)	0.6	0.6	88.0	51.8	0.6	0.7	3.4	17.1	73.6	75.7	237.8	174.1	411.9
1987	0.0	0.3	0.3	96.8	45.4	0.6	0.7	3.5	15.0	65.2	80.8	243.1	184.6	427.7
1988	0.0	0.2	0.2	103.9	46.0	0.7	0.9	3.4	17.9	68.9	87.1	260.1	196.9	457.0
1989	(s)	0.2	0.2	120.3	47.6	1.5	0.8	3.5	11.3	64.7	91.6	276.8	205.4	482.3
1990	(s)	0.1	0.1	118.5	40.3	1.0	0.6	3.9	9.3	55.1	92.9	266.6	202.9	469.5
1991	(s)	0.1	0.1	124.3	38.2	1.1	0.7	3.6	10.1	53.7	95.6	273.7	R 207.8	R 481.5
1992	(s)	0.1	0.2	134.2	37.1	2.2	0.8	3.2	8.6	52.0	94.8	281.1	R 202.4	R 483.5
1993	0.0	0.1	0.1	133.6	32.6	0.9	0.9	0.4	12.6	47.4	R 98.6	279.6	R 208.1	R 487.8
1994	0.0	0.1	0.1	137.2	29.0	3.5	0.8	0.4	13.3	47.1	101.5	285.9	211.7	497.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, New Jersey

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	2,368	28	4,657	6,719	802	2,340	1,194	612	18,822	12,732	47,878	10	0	0	8,021	–	19,952	–
1965	1,921	52	5,340	8,423	750	3,438	1,433	532	17,049	20,461	57,426	4	0	0	11,519	–	27,503	–
1970	740	80	5,828	9,560	761	5,665	1,379	401	22,609	25,007	71,209	4	0	0	15,215	–	36,872	–
1971	145	82	6,029	9,126	644	5,765	1,363	353	19,838	23,233	66,351	5	0	0	15,395	–	37,221	–
1972	62	83	6,310	9,786	645	6,764	1,459	311	18,066	26,172	69,514	6	0	0	15,970	–	38,441	–
1973	100	78	7,355	9,849	439	6,958	1,641	291	19,323	27,846	73,702	5	0	0	16,734	–	40,062	–
1974	159	65	6,308	8,252	430	6,665	1,572	308	17,025	27,410	67,970	3	0	0	16,224	–	39,558	–
1975	67	52	5,012	7,963	612	6,096	1,136	233	14,809	26,247	62,108	4	0	0	14,562	–	35,126	–
1976	39	73	4,452	8,212	758	6,207	1,262	219	18,347	23,793	63,251	3	0	0	15,313	–	36,886	–
1977	94	51	5,489	8,019	1,094	6,427	1,657	194	17,578	26,025	66,484	4	0	0	15,624	–	37,728	–
1978	56	43	6,017	7,419	1,065	6,643	1,780	189	16,475	27,678	67,267	5	0	0	16,365	–	40,037	–
1979	18	52	5,500	9,531	1,618	6,866	1,862	159	24,173	31,555	81,265	3	0	0	16,579	–	40,011	–
1980	33	63	4,369	7,339	1,393	6,429	1,658	147	17,694	30,958	69,988	3	0	0	16,345	–	39,745	–
1981	22	89	4,931	9,715	1,211	4,928	1,590	145	9,221	28,953	60,694	3	0	0	16,311	–	38,874	–
1982	148	82	4,835	8,400	957	5,102	1,450	121	9,019	23,190	53,074	3	0	0	15,233	–	36,587	–
1983	269	81	6,112	3,625	1,432	4,918	1,518	113	3,944	21,831	43,495	3	0	0	15,380	–	36,848	–
1984	308	85	6,241	3,718	470	7,427	1,619	94	5,385	24,855	49,809	3	0	0	15,681	–	36,500	–
1985	359	81	4,733	2,539	420	5,994	1,509	462	4,851	22,278	42,786	3	0	0	15,657	–	36,784	–
1986	263	70	5,565	3,430	470	5,097	1,476	466	5,360	R 27,233	R 49,097	3	0	0	15,631	–	35,955	–
1987	324	80	5,312	2,967	696	6,336	1,668	516	6,125	R 28,248	R 51,867	3	0	0	15,665	–	35,792	–
1988	261	78	4,332	3,199	793	5,803	1,609	525	5,266	R 29,372	R 50,898	3	0	0	15,844	–	35,819	–
1989	286	85	4,032	3,474	703	4,720	1,650	500	4,103	R 29,920	R 49,102	3	0	0	15,713	–	35,239	–
1990	276	90	3,586	2,907	256	3,162	1,698	457	3,673	R 31,092	R 46,830	R f NA	f NA	f NA	15,041	–	R 32,867	–
1991	234	101	3,137	2,529	95	4,693	1,519	420	3,146	R 28,919	R 44,459	R NA	NA	NA	15,031	–	R 32,681	–
1992	215	175	3,378	2,001	158	4,968	1,549	423	3,114	R 30,487	R 46,080	R NA	NA	NA	14,687	–	R 31,355	–
1993	222	189	8,291	2,074	136	2,005	1,577	541	2,615	R 30,753	R 47,995	R NA	NA	NA	14,596	–	R 30,825	–
1994	72	191	5,220	2,228	597	2,158	1,648	556	2,527	32,373	47,307	NA	NA	NA	14,251	–	29,720	–
			Trillion Btu															
1960	61.2	28.7	30.9	39.1	4.5	9.4	7.2	3.2	118.3	75.7	288.5	0.1	0.0	0.0	27.4	405.8	68.1	473.9
1965	49.0	54.6	35.4	49.1	4.3	13.8	8.7	2.8	107.2	117.3	338.5	(s)	0.0	0.0	39.3	481.5	93.8	575.3
1970	18.6	81.9	38.7	55.7	4.3	21.4	8.4	2.1	142.1	141.7	414.4	(s)	0.0	0.0	51.9	566.9	125.8	692.7
1971	3.4	84.6	40.0	53.2	3.7	21.7	8.3	1.9	124.7	132.3	385.7	0.1	0.0	0.0	52.5	526.3	127.0	653.3
1972	1.4	84.8	41.9	57.0	3.7	25.4	8.9	1.6	113.6	149.4	401.5	0.1	0.0	0.0	54.5	542.2	131.2	673.4
1973	2.3	80.0	48.8	57.4	2.5	26.1	10.0	1.5	121.5	159.2	426.9	0.1	0.0	0.0	57.1	566.4	136.7	703.1
1974	3.7	67.1	41.9	48.1	2.4	24.9	9.5	1.6	107.0	156.0	391.4	(s)	0.0	0.0	55.4	517.6	135.0	652.5
1975	1.6	54.0	33.3	46.4	3.5	22.6	6.9	1.2	93.1	149.9	356.9	(s)	0.0	0.0	49.7	462.2	119.9	582.0
1976	0.9	75.5	29.5	47.8	4.3	23.0	7.7	1.2	115.3	136.7	365.6	(s)	0.0	0.0	52.2	494.3	125.9	620.2
1977	2.3	53.1	36.4	46.7	6.2	23.6	10.1	1.0	110.5	149.7	384.2	(s)	0.0	0.0	53.3	492.9	128.7	621.7
1978	1.4	44.7	39.9	43.2	6.0	24.4	10.8	1.0	103.6	158.9	387.9	0.1	0.0	0.0	55.8	489.8	136.6	626.4
1979	0.4	53.9	36.5	55.5	9.2	25.3	11.3	0.8	152.0	179.8	470.4	(s)	0.0	0.0	56.6	581.3	136.5	717.8
1980	0.8	64.9	29.0	42.7	7.9	23.6	10.1	0.8	111.2	175.0	400.3	(s)	0.0	0.0	55.8	521.8	135.6	657.4
1981	0.5	91.8	32.7	56.6	6.9	18.0	9.6	0.8	58.0	163.4	345.9	(s)	0.0	0.0	55.7	493.9	132.6	626.6
1982	3.6	84.1	32.1	48.9	5.4	18.4	8.8	0.6	56.7	130.7	301.7	(s)	0.0	0.0	52.0	441.5	124.8	566.3
1983	6.8	83.6	40.6	21.1	8.1	17.8	9.2	0.6	24.8	124.9	247.0	(s)	0.0	0.0	52.5	389.9	125.7	515.6
1984	7.7	86.6	41.4	21.7	2.7	26.7	9.8	0.5	33.9	139.0	275.6	(s)	0.0	0.0	53.5	423.5	124.5	548.1
1985	8.8	83.0	31.4	14.8	2.4	21.6	9.2	2.4	30.5	124.8	237.1	(s)	0.0	0.0	53.4	382.3	125.5	507.8
1986	6.6	71.5	36.9	20.0	2.7	18.6	8.9	2.5	33.7	R 153.5	R 276.7	(s)	0.0	0.0	53.3	R 408.3	122.7	R 530.9
1987	8.2	81.7	35.2	17.3	3.9	23.2	10.1	2.7	38.5	R 158.1	R 289.1	(s)	0.0	0.0	53.4	R 432.5	122.1	R 554.7
1988	6.6	79.5	28.7	18.6	4.5	21.2	9.8	2.8	33.1	R 165.0	R 283.7	(s)	0.0	0.0	54.1	R 423.9	122.2	R 546.1
1989	7.2	86.9	26.8	20.2	4.0	17.4	10.0	2.6	25.8	R 167.9	R 274.7	(s)	0.0	0.0	53.6	R 422.4	120.2	R 542.7
1990	7.0	92.7	23.8	16.9	1.5	11.5	10.3	2.4	23.1	R 173.8	R 263.3	R f 0.2	f 24.3	f 0.0	51.3	R f 438.7	112.1	R f 550.9
1991	5.9	103.3	20.8	14.7	0.5	17.0	9.2	2.2	19.8	R 162.8	R 247.0	R 0.2	24.3	0.0	51.3	R 432.0	111.5	R 543.5
1992	5.4	179.0	22.4	11.7	0.9	18.0	9.4	2.2	19.6	R 170.4	R 254.5	R 0.2	25.5	0.0	50.1	R 514.8	R 107.0	R 621.8
1993	5.6	195.7	55.0	12.1	0.8	7.2	9.6	2.8	16.4	R 172.3	R 276.3	R 0.2	26.1	0.0	49.8	R 553.8	R 105.2	R 658.9
1994	1.8	198.3	34.6	13.0	3.4	7.8	10.0	2.9	15.9	181.5	269.2	0.2	28.8	0.0	48.6	546.9	101.4	648.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, New Jersey

Year	Coal [a]	Natural Gas [b]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	40	1	1,147	4,748	2,125	6	685	47,786	5,754	62,252	0	4	–	9	–
1965	6	(s)	1,153	5,964	5,280	40	619	54,198	6,431	73,684	0	4	–	9	–
1970	1	1	160	8,558	6,705	102	574	65,217	9,081	90,396	0	31	–	76	–
1971	(s)	1	121	8,936	6,712	115	630	67,204	9,784	93,502	0	32	–	77	–
1972	(s)	1	118	9,041	7,160	110	674	73,173	11,595	101,872	0	34	–	83	–
1973	(s)	1	106	9,926	7,166	113	637	74,919	9,771	102,637	0	33	–	80	–
1974	(s)	1	137	9,883	6,270	110	610	74,608	6,095	97,714	0	39	–	96	–
1975	(s)	(s)	92	8,907	5,777	98	605	76,750	4,246	96,475	0	44	–	106	–
1976	(s)	1	88	9,165	5,641	102	672	78,635	7,187	101,489	0	43	–	104	–
1977	(s)	1	104	9,783	6,012	120	712	76,828	7,850	101,408	0	38	–	93	–
1978	0	1	111	10,289	6,211	171	765	79,687	7,719	104,953	0	32	–	78	–
1979	0	1	92	11,112	7,606	108	800	74,419	7,532	101,671	0	34	–	83	–
1980	0	(s)	83	10,243	8,088	40	713	72,296	12,053	103,516	0	32	–	77	–
1981	0	1	75	9,367	17,518	202	683	71,926	12,290	112,061	0	35	–	84	–
1982	0	1	141	10,407	33,809	166	623	72,890	11,688	129,724	0	35	–	84	–
1983	0	1	155	11,477	37,077	196	653	76,807	12,374	138,740	0	27	–	65	–
1984	0	2	135	12,269	42,383	194	696	76,517	12,345	144,539	0	57	–	133	–
1985	0	2	184	13,470	43,910	111	649	74,270	11,010	143,602	0	88	–	206	–
1986	0	3	159	14,680	39,197	102	634	79,575	14,420	148,768	0	92	–	211	–
1987	0	3	201	14,603	43,323	80	717	79,956	12,032	150,913	0	94	–	214	–
1988	0	3	152	15,889	40,820	88	691	80,016	7,651	145,306	0	85	–	192	–
1989	0	4	128	15,347	44,140	83	709	80,196	8,992	149,595	0	101	–	227	–
1990	0	3	119	12,950	46,377	75	730	76,686	7,374	144,312	[e] 2,696	102	–	222	–
1991	0	3	100	12,515	43,733	69	653	78,568	10,203	145,841	2,137	103	–	R 224	–
1992	0	4	122	13,718	46,133	76	666	75,613	9,688	146,017	2,597	105	–	225	–
1993	0	3	121	14,486	48,161	80	678	69,823	6,492	139,841	2,899	R 98	–	R 207	–
1994	0	3	158	17,082	48,376	135	708	80,944	6,376	153,779	3,215	100	–	208	–
											Trillion Btu				
1960	1.0	0.6	5.8	27.7	11.5	(s)	4.2	251.0	36.2	336.3	0.0	(s)	337.9	(s)	338.0
1965	0.2	0.5	5.8	34.7	29.4	0.2	3.8	284.7	40.4	399.0	0.0	(s)	399.6	(s)	399.7
1970	(s)	1.0	0.8	49.8	37.5	0.4	3.5	342.6	57.1	491.7	0.0	0.1	492.8	0.3	493.1
1971	(s)	0.9	0.6	52.1	37.5	0.4	3.8	353.0	61.5	509.0	0.0	0.1	510.0	0.3	510.2
1972	(s)	0.7	0.6	52.7	40.1	0.4	4.1	384.4	72.9	555.1	0.0	0.1	556.0	0.3	556.3
1973	(s)	0.7	0.5	57.8	40.2	0.4	3.9	393.5	61.4	557.8	0.0	0.1	558.6	0.3	558.9
1974	(s)	0.6	0.7	57.6	35.1	0.4	3.7	391.9	38.3	527.7	0.0	0.1	528.4	0.3	528.7
1975	(s)	0.4	0.5	51.9	32.3	0.4	3.7	403.2	26.7	518.6	0.0	0.1	519.1	0.4	519.5
1976	(s)	0.5	0.4	53.4	31.6	0.4	4.1	413.1	45.2	548.1	0.0	0.1	548.8	0.4	549.1
1977	(s)	0.6	0.5	57.0	33.7	0.4	4.3	403.6	49.4	548.8	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.1	764.5	0.2	764.7
1984	0.0	2.4	0.7	71.5	239.9	0.7	4.2	401.9	77.6	796.5	0.0	0.2	799.1	0.5	799.6
1985	0.0	2.3	0.9	78.5	248.6	0.4	3.9	390.1	69.2	791.6	0.0	0.3	794.2	0.7	794.9
1986	0.0	2.9	0.8	85.5	221.8	0.4	3.8	418.0	90.7	821.0	0.0	0.3	824.3	0.7	825.0
1987	0.0	3.5	1.0	85.1	245.2	0.3	4.3	420.0	75.6	831.6	0.0	0.3	835.4	0.7	836.1
1988	0.0	2.9	0.8	92.6	231.1	0.3	4.2	420.3	48.1	797.3	0.0	0.3	800.5	0.7	801.2
1989	0.0	4.1	0.6	89.4	249.9	0.3	4.3	421.3	56.5	822.4	0.0	0.3	826.8	0.8	827.6
1990	0.0	2.7	0.6	75.4	262.6	0.3	4.4	402.8	46.4	792.5	[e] 0.2	0.3	[e] 795.6	0.8	[e] 796.3
1991	0.0	3.0	0.5	72.9	247.0	0.3	4.0	412.7	64.1	801.5	0.2	0.4	804.8	0.8	805.6
1992	0.0	3.7	0.6	79.9	261.2	0.3	4.0	397.2	60.9	804.1	0.2	0.4	808.1	0.8	808.9
1993	0.0	3.0	0.6	84.4	272.8	0.3	4.1	366.8	40.8	769.8	0.2	0.3	773.1	0.7	773.8
1994	0.0	2.6	0.8	99.5	274.2	0.5	4.3	425.2	40.1	844.6	0.2	0.3	847.5	0.7	848.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, New Jersey

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [a]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	6,829	(s)	6,829	22	11,947	382	0	12,329	0	-35	0	0	0	–
1970	4,054	0	4,054	46	37,665	1,220	0	38,885	3,454	-407	0	0	0	–
1971	3,442	0	3,442	40	36,028	2,850	23	38,902	3,825	-314	0	0	0	–
1972	1,107	0	1,107	25	41,093	7,440	0	48,533	4,356	-224	0	0	0	–
1973	2,380	0	2,380	24	40,343	8,607	0	48,950	3,585	-338	0	0	0	–
1974	3,117	0	3,117	15	32,123	9,418	0	41,541	3,673	-285	0	0	0	–
1975	2,250	0	2,250	9	23,924	2,244	0	26,168	3,146	-276	0	0	0	–
1976	2,604	0	2,604	10	23,012	2,897	0	25,909	3,855	-249	0	0	0	–
1977	2,581	0	2,581	7	25,901	4,129	0	30,030	6,959	-172	0	0	0	–
1978	2,222	0	2,222	1	26,471	3,008	0	29,479	8,169	-178	0	0	0	–
1979	2,209	0	2,209	31	18,853	2,195	0	21,049	6,611	-286	0	0	0	–
1980	2,545	0	2,545	80	12,919	2,821	0	15,740	7,627	-286	0	0	0	–
1981	2,768	0	2,768	80	9,861	1,334	0	11,195	11,675	-234	0	0	0	–
1982	2,744	0	2,744	66	8,086	709	0	8,794	14,039	-225	0	0	0	–
1983	3,132	0	3,132	97	7,597	996	0	8,593	6,328	-231	0	0	0	–
1984	2,853	0	2,853	95	8,287	1,033	0	9,320	5,610	-249	0	0	0	–
1985	3,476	0	3,476	61	4,997	671	0	5,668	17,770	-247	0	0	0	–
1986	2,637	0	2,637	37	8,489	697	0	9,186	14,770	-289	0	0	0	–
1987	3,081	0	3,081	75	4,671	1,024	0	5,695	22,697	-312	0	0	0	–
1988	2,773	0	2,773	51	7,547	1,657	0	9,204	23,890	-222	0	0	0	–
1989	3,244	0	3,244	55	7,859	2,123	0	9,982	23,032	-261	0	0	0	–
1990	2,740	0	2,740	48	2,836	613	0	3,450	23,770	-150	0	0	0	–
1991	2,081	0	2,081	62	2,717	576	0	3,293	24,807	-155	0	0	0	–
1992	2,118	0	2,118	39	1,775	317	0	2,092	21,595	-138	0	0	0	–
1993	2,123	0	2,123	36	1,708	387	0	2,095	24,932	-123	0	0	0	–
1994	1,887	0	1,887	43	2,590	639	0	3,229	22,129	-167	0	0	0	–
	Trillion Btu													
1960	95.4	(s)	95.4	26.4	70.2	2.1	0.0	72.2	0.0	0.4	0.0	0.0	0.0	194.4
1965	180.7	(s)	180.7	23.4	75.1	2.2	0.0	77.3	0.0	-0.4	0.0	0.0	0.0	281.1
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	321.9
1987	81.6	0.0	81.6	77.6	29.4	6.0	0.0	35.3	244.6	-3.3	0.0	0.0	0.0	435.8
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	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	0.0	449.7
1990	73.6	0.0	73.6	49.1	17.8	3.6	0.0	21.4	253.9	-1.5	0.0	0.0	0.0	396.5
1991	55.8	0.0	55.8	63.9	17.1	3.4	0.0	20.4	266.4	-1.6	0.0	0.0	0.0	404.9
1992	57.0	0.0	57.0	40.1	11.2	1.8	0.0	13.0	230.6	-1.4	0.0	0.0	0.0	339.3
1993	56.9	0.0	56.9	36.8	10.7	2.3	0.0	13.0	266.3	-1.3	0.0	0.0	0.0	371.8
1994	50.4	0.0	50.4	44.1	16.3	3.7	0.0	20.0	236.3	-1.7	0.0	0.0	0.0	349.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, New Mexico

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
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	–
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	5,716	324	17,447	2,287	1,041	41,418	0	94	0	0	-46,355	–
1985	14,589	151	1,501	95	8,517	2,873	191	3,002	302	17,900	825	1,013	36,218	0	128	0	0	-47,212	–
1986	13,245	134	1,616	104	9,711	2,783	68	1,757	295	18,298	263	R1,153	R36,048	0	166	0	0	-37,723	–
1987	14,395	153	2,069	87	10,654	2,983	60	1,537	334	18,897	87	R1,288	R37,994	0	164	0	0	-41,747	–
1988	14,715	173	2,113	55	10,229	2,812	51	1,497	322	19,328	120	R1,517	R38,043	0	100	0	0	-42,863	–
1989	15,295	196	1,666	96	8,977	2,849	70	3,879	330	18,888	183	R1,572	R38,510	0	232	0	0	-47,382	–
1990	15,111	239	1,451	86	9,127	2,912	56	7,943	340	18,540	149	R1,613	R42,216	0	RINA	INA	INA	R-44,935	–
1991	12,858	219	1,525	94	9,435	2,441	65	11,735	304	19,142	129	R1,856	R46,725	0	RNA	NA	NA	R-32,765	–
1992	14,832	203	1,874	94	9,980	2,834	23	10,457	310	19,436	130	R2,143	R47,280	0	RNA	NA	NA	R-40,414	–
1993	15,012	216	2,438	71	8,234	3,303	17	9,616	315	20,386	184	R2,020	R46,584	0	RNA	NA	NA	R-41,563	–
1994	15,374	221	2,114	62	7,278	2,576	11	8,767	330	20,813	179	2,121	44,251	0	NA	NA	NA	-42,520	–
			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
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
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	20.6	2.0	91.6	14.4	6.3	220.0	0.0	1.0	0.0	0.0	-158.2	485.4
1985	268.4	162.3	10.0	0.5	49.6	15.7	1.1	10.8	1.8	94.0	5.2	6.3	194.9	0.0	1.3	0.0	0.0	-161.1	465.9
1986	241.6	144.5	10.7	0.5	56.6	15.2	0.4	6.4	1.8	96.1	1.7	7.1	196.5	0.0	1.7	0.0	0.0	-128.7	R455.7
1987	260.7	164.6	13.7	0.4	62.1	16.4	0.3	5.6	2.0	99.3	0.5	7.8	208.2	0.0	1.7	0.0	0.0	-142.4	492.7
1988	266.1	185.2	14.0	0.3	59.6	15.4	0.3	5.5	2.0	101.5	0.8	9.1	208.4	0.0	1.0	0.0	0.0	-146.2	514.5
1989	279.5	205.1	11.1	0.5	52.3	15.6	0.4	14.3	2.0	99.2	1.2	9.4	205.9	0.0	2.4	0.0	0.0	-161.7	R531.3
1990	275.7	251.4	9.6	0.4	53.2	16.0	0.3	28.8	2.1	97.4	0.9	9.6	R218.4	0.0	I2.1	I4.9	I0.5	-153.3	RI599.3
1991	234.0	227.3	10.1	0.5	55.0	13.5	0.4	42.4	1.8	100.6	0.8	R11.1	R236.1	0.0	2.5	5.0	0.5	-111.8	R593.2
1992	267.5	211.0	12.4	0.5	58.1	15.6	0.1	37.9	1.9	102.1	0.8	R12.7	R242.1	0.0	2.6	5.3	0.5	-137.9	R590.8
1993	270.2	224.9	16.2	0.4	48.0	18.3	0.1	34.7	1.9	107.1	1.2	R12.0	R239.8	0.0	3.0	5.1	0.5	R-141.8	R601.3
1994	278.3	221.4	14.0	0.3	42.4	14.6	0.1	31.9	2.0	109.3	1.1	12.6	228.3	0.0	2.2	5.1	0.5	-145.1	590.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, New Mexico

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	15	0	15	20	3	17	1,441	1,461	0	0	872	–	2,169	–
1965	4	0	4	24	2	14	1,518	1,534	0	0	988	–	2,360	–
1970	(s)	0	(s)	31	3	29	2,004	2,036	0	0	1,475	–	3,574	–
1971	(s)	0	(s)	32	3	20	1,869	1,893	0	0	1,629	–	3,939	–
1972	0	0	0	35	4	25	2,083	2,112	0	0	1,775	–	4,273	–
1973	0	0	0	24	5	58	1,753	1,816	0	0	1,956	–	4,682	–
1974	0	0	0	25	4	29	1,600	1,633	0	0	2,044	–	4,983	–
1975	0	0	0	28	5	27	1,270	1,301	0	0	1,957	–	4,720	–
1976	0	0	0	36	5	31	1,231	1,267	0	0	2,053	–	4,944	–
1977	0	0	0	26	8	39	1,363	1,411	0	0	2,154	–	5,202	–
1978	0	0	0	26	7	38	1,124	1,170	0	0	2,249	–	5,502	–
1979	1	0	1	28	5	42	1,257	1,304	0	0	2,397	–	5,785	–
1980	15	0	15	29	11	132	1,209	1,352	0	0	2,453	–	5,965	–
1981	2	0	2	25	18	85	820	923	0	0	2,355	–	5,613	–
1982	4	0	4	26	24	178	1,078	1,280	0	0	2,419	–	5,809	–
1983	4	0	4	27	17	287	1,282	1,585	0	0	2,569	–	6,155	–
1984	3	0	3	27	17	450	593	1,059	0	0	3,039	–	7,074	–
1985	3	0	3	22	21	41	2,091	2,153	0	0	3,098	–	7,279	–
1986	2	0	2	24	35	21	1,000	1,056	0	0	3,144	–	7,231	–
1987	2	0	2	28	13	22	1,017	1,051	0	0	3,306	–	7,554	–
1988	1	0	1	28	12	11	903	926	0	0	3,394	–	7,672	–
1989	3	0	3	27	11	10	1,223	1,243	0	0	3,463	–	7,766	–
1990	2	0	2	28	12	4	1,705	1,721	[e] 157	[e] 148	3,566	–	[R] 7,791	–
1991	3	0	3	30	9	6	1,349	1,364	165	150	3,665	–	[R] 7,969	–
1992	3	(s)	3	31	14	5	1,096	1,115	174	152	3,791	–	[R] 8,094	–
1993	3	(s)	4	32	6	4	808	818	163	152	3,884	–	[R] 8,203	–
1994	3	(s)	3	31	8	3	772	784	160	155	4,080	–	8,508	–
	Trillion Btu													
1960	0.3	0.0	0.3	21.1	(s)	0.1	5.8	5.9	0.0	0.0	3.0	30.3	7.4	37.7
1965	0.1	0.0	0.1	26.9	(s)	0.1	6.1	6.2	0.0	0.0	3.4	36.5	8.1	44.5
1970	(s)	0.0	(s)	33.3	(s)	0.2	7.6	7.8	0.0	0.0	5.0	45.1	12.2	58.3
1971	(s)	0.0	(s)	35.1	(s)	0.1	7.1	7.2	0.0	0.0	5.6	47.8	13.4	61.3
1972	0.0	0.0	0.0	37.7	(s)	0.1	7.8	8.0	0.0	0.0	6.1	51.8	14.6	66.4
1973	0.0	0.0	0.0	25.6	(s)	0.3	6.6	6.9	0.0	0.0	6.7	39.2	16.0	55.1
1974	0.0	0.0	0.0	27.2	(s)	0.2	6.0	6.2	0.0	0.0	7.0	40.3	17.0	57.3
1975	0.0	0.0	0.0	29.9	(s)	0.2	4.7	4.9	0.0	0.0	6.7	41.5	16.1	57.6
1976	0.0	0.0	0.0	38.9	(s)	0.2	4.6	4.8	0.0	0.0	7.0	50.7	16.9	67.5
1977	0.0	0.0	0.0	27.3	(s)	0.2	5.0	5.3	0.0	0.0	7.4	39.9	17.7	57.7
1978	0.0	0.0	0.0	27.4	(s)	0.2	4.1	4.4	0.0	0.0	7.7	39.5	18.8	58.3
1979	(s)	0.0	(s)	29.7	(s)	0.2	4.6	4.9	0.0	0.0	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	0.0	0.0	8.4	43.9	20.4	64.2
1981	(s)	0.0	(s)	26.0	0.1	0.5	3.0	3.6	0.0	0.0	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	0.0	0.0	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	0.0	0.0	8.8	42.9	21.0	63.9
1984	0.1	0.0	0.1	29.1	0.1	2.5	2.1	4.8	0.0	0.0	10.4	44.3	24.1	68.4
1985	0.1	0.0	0.1	23.9	0.1	0.2	7.5	7.9	0.0	0.0	10.6	42.4	24.8	67.2
1986	(s)	0.0	(s)	26.0	0.2	0.1	3.6	4.0	0.0	0.0	10.7	40.7	24.7	65.4
1987	(s)	0.0	(s)	29.8	0.1	0.1	3.7	3.9	0.0	0.0	11.3	45.0	25.8	70.8
1988	(s)	0.0	(s)	29.9	0.1	0.1	3.3	3.4	0.0	0.0	11.6	44.9	26.2	71.1
1989	0.1	0.0	0.1	27.9	0.1	0.1	4.5	4.6	0.0	0.0	11.8	44.4	26.5	70.9
1990	(s)	0.0	(s)	29.7	0.1	(s)	6.2	6.3	[e] 3.1	[e] 0.5	12.2	[Re] 51.8	26.6	[Re] 78.4
1991	0.1	0.0	0.1	31.0	(s)	(s)	4.9	5.0	3.3	0.5	12.5	[R] 52.4	27.2	[R] 79.5
1992	0.1	(s)	0.1	32.8	0.1	(s)	4.0	4.1	3.5	0.5	12.9	[R] 53.9	27.6	[R] 81.5
1993	0.1	(s)	0.1	33.2	(s)	(s)	2.9	3.0	3.3	0.5	13.3	[R] 53.3	28.0	[R] 81.3
1994	0.1	(s)	0.1	30.9	(s)	(s)	2.8	2.9	3.2	0.5	13.9	51.4	29.0	80.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, New Mexico

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	27	0	27	9	107	4	254	46	0	412	963	–	2,395	–
1965	7	0	7	13	65	4	268	54	0	391	1,485	–	3,547	–
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	105	95	413	2,473	4,606	–	10,720	–
1985	5	0	5	17	452	61	369	113	4	999	4,664	–	10,958	–
1986	3	0	3	21	406	13	177	116	0	712	4,855	–	11,168	–
1987	4	0	4	20	707	15	179	122	0	1,024	5,171	–	11,816	–
1988	2	0	2	31	561	31	159	118	0	870	5,329	–	12,049	–
1989	5	0	5	28	506	14	216	119	0	855	5,699	–	12,781	–
1990	3	0	3	24	627	15	301	126	0	1,069	5,842	–	R 12,767	–
1991	5	0	5	25	462	20	238	113	0	833	5,872	–	R 12,768	–
1992	6	(s)	6	28	241	9	193	100	0	543	6,031	–	R 12,876	–
1993	6	(s)	6	28	339	6	143	18	0	506	6,226	–	R 13,150	–
1994	6	(s)	6	25	212	3	136	18	0	369	6,595	–	13,753	–
	Trillion Btu													
1960	0.6	0.0	0.6	9.3	0.6	(s)	1.0	0.2	0.0	1.9	3.3	15.2	8.2	23.3
1965	0.2	0.0	0.2	13.9	0.4	(s)	1.1	0.3	0.0	1.8	5.1	20.9	12.1	33.0
1970	(s)	0.0	(s)	35.8	0.7	(s)	1.3	0.4	0.0	2.4	7.6	45.8	18.3	64.1
1971	(s)	0.0	(s)	36.6	0.7	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	0.0	(s)	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	0.4	0.5	2.6	14.1	15.7	54.3	36.6	90.8
1985	0.1	0.0	0.1	18.2	2.6	0.3	1.3	0.6	(s)	4.9	15.9	39.1	37.4	76.5
1986	0.1	0.0	0.1	22.4	2.4	0.1	0.6	0.6	0.0	3.7	16.6	42.7	38.1	80.8
1987	0.1	0.0	0.1	21.5	4.1	0.1	0.7	0.6	0.0	5.5	17.6	44.8	40.3	85.1
1988	(s)	0.0	(s)	33.3	3.3	0.2	0.6	0.6	0.0	4.6	18.2	56.2	41.1	97.3
1989	0.1	0.0	0.1	29.9	2.9	0.1	0.8	0.6	0.0	4.5	19.4	53.9	43.6	97.5
1990	0.1	0.0	0.1	25.0	3.7	0.1	1.1	0.7	0.0	5.5	19.9	50.5	R 43.6	94.1
1991	0.1	0.0	0.1	26.1	2.7	0.1	0.9	0.6	0.0	4.3	20.0	50.4	R 43.6	94.0
1992	0.1	(s)	0.1	29.1	1.4	(s)	0.7	0.5	0.0	2.7	20.6	52.5	43.9	96.4
1993	0.1	(s)	0.1	29.1	2.0	(s)	0.5	0.1	0.0	2.6	21.2	53.1	R 44.9	97.9
1994	0.1	(s)	0.1	25.0	1.2	(s)	0.5	0.1	0.0	1.8	22.5	49.4	46.9	96.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, New Mexico

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	105	120	964	1,028	463	1,194	67	295	59	484	4,555	0	0	0	1,548	–	3,851	–
1965	22	97	1,388	1,206	358	1,345	72	241	621	645	5,876	0	0	0	1,299	–	3,103	–
1970	11	121	1,208	2,127	957	1,813	104	192	123	731	7,256	0	0	0	1,911	–	4,632	–
1971	12	125	813	1,995	605	1,830	116	200	75	723	6,357	0	0	0	2,057	–	4,973	–
1972	8	126	965	2,397	628	2,255	124	191	223	810	7,593	0	0	0	2,168	–	5,219	–
1973	19	112	995	2,864	1,077	2,223	104	155	825	941	9,186	0	0	0	2,182	–	5,223	–
1974	7	107	1,365	2,180	590	2,232	100	153	1,319	1,512	9,451	0	0	0	2,050	–	4,998	–
1975	0	95	1,632	2,299	620	2,160	120	145	1,342	1,450	9,769	0	0	0	1,960	–	4,728	–
1976	8	111	1,462	2,419	527	2,201	133	135	1,477	1,622	9,976	0	0	0	2,166	–	5,218	–
1977	18	86	1,198	3,254	782	2,113	118	128	1,304	1,437	10,336	0	0	0	2,382	–	5,752	–
1978	83	76	1,432	3,046	744	2,060	127	105	908	1,526	9,947	0	0	0	2,645	–	6,471	–
1979	93	67	1,421	3,576	842	3,008	133	104	245	1,831	11,159	0	0	0	2,922	–	7,052	–
1980	8	74	1,138	2,196	548	3,260	118	84	858	1,801	10,003	0	0	0	2,945	–	7,161	–
1981	126	57	1,164	3,514	156	2,029	113	72	801	1,085	8,935	0	0	0	3,212	–	7,656	–
1982	127	76	1,448	1,629	254	1,363	103	55	625	1,082	6,559	0	0	0	2,934	–	7,048	–
1983	99	69	1,774	2,477	465	1,122	108	47	2,671	1,386	10,051	0	0	0	2,778	–	6,655	–
1984	75	71	1,901	2,433	641	4,937	116	210	1,785	1,041	13,063	0	0	0	3,396	–	7,904	–
1985	83	58	1,501	3,669	89	447	108	361	781	1,013	7,968	0	0	0	4,111	–	9,658	–
1986	93	44	1,616	3,795	34	488	105	341	222	R1,153	R7,755	0	0	0	3,902	–	8,976	–
1987	49	62	2,069	4,026	23	268	119	328	57	R1,288	R8,178	0	0	0	3,855	–	8,808	–
1988	51	56	2,113	3,572	8	362	115	333	78	R1,517	R8,098	0	0	0	4,032	–	9,116	–
1989	37	61	1,666	2,244	46	2,331	118	347	148	R1,572	R8,471	0	0	0	4,208	–	9,437	–
1990	41	85	1,451	2,187	37	5,818	121	328	117	R1,613	R11,672	Rf NA	f NA	f NA	4,413	–	R9,643	–
1991	41	64	1,525	2,366	39	10,067	108	361	119	R1,856	R16,440	R NA	NA	NA	4,546	–	R9,885	–
1992	48	71	1,874	1,911	10	9,067	111	328	128	R2,143	R15,572	R NA	NA	NA	4,609	–	R9,839	–
1993	60	67	2,438	1,515	7	8,568	113	561	182	R2,020	R15,405	R NA	NA	NA	4,816	–	R10,171	–
1994	68	74	2,114	1,235	5	7,715	118	601	179	2,121	14,087	NA	NA	NA	5,184	–	10,811	–
			Trillion Btu															
1960	2.4	124.5	6.4	6.0	2.6	4.8	0.4	1.6	0.4	2.9	25.0	0.0	0.0	0.0	5.3	157.2	13.1	170.3
1965	0.5	107.1	9.2	7.0	2.0	5.4	0.4	1.3	3.9	3.9	33.1	0.0	0.0	0.0	4.4	145.2	10.6	155.8
1970	0.2	131.2	8.0	12.4	5.4	6.8	0.6	1.0	0.8	4.4	39.5	0.0	0.0	0.0	6.5	177.4	15.8	193.2
1971	0.3	135.3	5.4	11.6	3.4	6.9	0.7	1.1	0.5	4.3	33.9	0.0	0.0	0.0	7.0	176.5	17.0	193.4
1972	0.2	136.8	6.4	14.0	3.6	8.5	0.8	1.0	1.4	4.9	40.4	0.0	0.0	0.0	7.4	184.8	17.8	202.6
1973	0.4	120.2	6.6	16.7	6.1	8.3	0.6	0.8	5.2	5.7	50.0	0.0	0.0	0.0	7.4	178.0	17.8	195.9
1974	0.2	114.4	9.1	12.7	3.3	8.3	0.6	0.8	8.3	9.1	52.2	0.0	0.0	0.0	7.0	173.8	17.1	190.8
1975	0.0	102.6	10.8	13.4	3.5	8.0	0.7	0.8	8.4	8.7	54.4	0.0	0.0	0.0	6.7	163.7	16.1	179.8
1976	0.2	118.6	9.7	14.1	3.0	8.2	0.8	0.7	9.3	9.7	55.5	0.0	0.0	0.0	7.4	181.6	17.8	199.4
1977	0.4	92.5	8.0	19.0	4.4	7.8	0.7	0.7	8.2	8.6	57.3	0.0	0.0	0.0	8.1	158.3	19.6	177.9
1978	1.7	80.4	9.5	17.7	4.2	7.6	0.8	0.6	5.7	9.2	55.2	0.0	0.0	0.0	9.0	146.4	22.1	168.5
1979	2.0	71.8	9.4	20.8	4.8	11.1	0.8	0.5	1.5	11.0	60.0	0.0	0.0	0.0	10.0	143.8	24.1	167.8
1980	0.2	77.6	7.6	12.8	3.1	12.0	0.7	0.4	5.4	10.8	52.8	0.0	0.0	0.0	10.0	140.6	24.4	165.1
1981	2.7	60.3	7.7	20.5	0.9	7.4	0.7	0.4	5.0	6.8	49.4	0.0	0.0	0.0	11.0	123.4	26.1	149.6
1982	2.8	80.4	9.6	9.5	1.4	4.9	0.6	0.3	3.9	6.8	37.1	0.0	0.0	0.0	10.0	130.2	24.0	154.3
1983	2.1	71.6	11.8	14.4	2.6	4.1	0.7	0.2	16.8	8.5	59.1	0.0	0.0	0.0	9.5	142.3	22.7	165.0
1984	1.6	75.8	12.6	14.2	3.6	17.8	0.7	1.1	11.2	6.3	67.6	0.0	0.0	0.0	11.6	156.5	27.0	183.5
1985	1.8	63.5	10.0	21.4	0.5	1.6	0.7	1.9	4.9	6.3	47.2	0.0	0.0	0.0	14.0	126.5	33.0	159.4
1986	2.0	47.2	10.7	22.1	0.2	1.8	0.6	1.8	1.4	7.1	R45.8	0.0	0.0	0.0	13.3	108.3	30.6	R139.0
1987	1.0	66.6	13.7	23.5	0.1	1.0	0.7	1.7	0.4	7.8	48.9	0.0	0.0	0.0	13.2	129.7	30.1	159.7
1988	1.1	60.6	14.0	20.8	(s)	1.3	0.7	1.8	0.5	9.1	48.3	0.0	0.0	0.0	13.8	123.7	31.1	154.8
1989	0.9	64.0	11.1	13.1	0.3	8.6	0.7	1.8	0.9	9.4	45.8	0.0	0.0	0.0	14.4	125.1	32.2	157.3
1990	0.9	90.0	9.6	12.7	0.2	21.1	0.7	1.7	0.7	9.6	56.5	f0.0	f1.4	f0.0	15.1	Rf163.8	32.9	Rf196.7
1991	0.9	66.8	10.1	13.8	0.2	36.4	0.7	1.9	0.7	R11.1	R74.9	0.0	1.4	0.0	15.5	R159.5	33.7	R193.3
1992	1.0	73.8	12.4	11.1	0.1	32.9	0.7	1.7	0.8	R12.7	R72.4	0.0	1.5	0.0	15.7	R164.3	33.6	R197.9
1993	1.3	69.5	16.2	8.8	(s)	30.9	0.7	2.9	1.1	R12.0	R72.7	0.0	1.5	0.0	16.4	R161.5	34.7	R196.2
1994	1.5	73.5	14.0	7.2	(s)	28.0	0.7	3.2	1.1	12.6	66.9	0.0	1.5	0.0	17.7	161.1	36.9	198.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, New Mexico

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	2	17	201	1,919	2,186	124	159	9,213	25	13,826	0	0	–	0	–
1965	(s)	25	239	2,618	2,530	203	165	10,511	36	16,301	0	0	–	0	–
1970	(s)	30	111	3,158	3,110	243	166	12,884	11	19,684	0	0	–	0	–
1971	(s)	29	117	3,265	2,994	280	166	13,891	7	20,721	0	0	–	0	–
1972	(s)	36	107	4,015	2,862	320	178	14,825	0	22,306	0	0	–	0	–
1973	(s)	30	85	4,550	2,723	235	194	15,832	0	23,619	0	0	–	0	–
1974	(s)	32	107	4,538	2,749	224	186	15,480	0	23,285	0	0	–	0	–
1975	0	29	81	4,200	2,667	211	197	16,257	0	23,615	0	0	–	0	–
1976	(s)	28	79	4,664	2,440	204	219	17,193	0	24,799	0	0	–	0	–
1977	(s)	22	82	5,213	2,595	221	213	17,780	0	26,103	0	0	–	0	–
1978	0	23	82	6,156	2,338	220	229	18,716	0	27,741	0	0	–	0	–
1979	0	29	80	5,639	2,647	10	240	17,769	0	26,384	0	0	–	0	–
1980	0	38	167	5,411	2,673	29	213	16,721	0	25,214	0	0	–	0	–
1981	0	39	136	8,134	2,554	125	205	16,780	0	27,933	0	0	–	0	–
1982	0	35	129	5,608	2,629	89	187	16,966	0	25,607	0	0	–	0	–
1983	0	30	106	3,691	2,638	106	195	16,936	(s)	23,672	0	0	–	0	–
1984	0	9	83	4,184	2,999	83	208	17,142	(s)	24,699	0	0	–	0	–
1985	0	26	95	4,330	2,873	95	194	17,427	0	25,013	0	0	–	0	–
1986	0	26	104	5,433	2,783	92	190	17,841	0	26,443	0	0	–	0	–
1987	0	26	87	5,855	2,983	72	215	18,446	0	27,657	0	0	–	0	–
1988	0	37	55	6,032	2,812	73	207	18,877	0	28,055	0	0	–	0	–
1989	0	52	96	6,167	2,849	110	212	18,421	0	27,856	0	0	–	0	–
1990	0	76	86	6,264	2,912	119	218	18,085	0	27,684	[e] 4,354	0	–	0	–
1991	0	72	94	6,542	2,441	80	195	18,668	0	28,020	3,451	0	–	0	–
1992	0	50	94	7,743	2,834	100	199	19,008	0	29,977	4,194	0	–	0	–
1993	0	62	71	6,303	3,303	97	203	19,807	0	29,783	4,681	0	–	0	–
1994	0	59	62	5,777	2,576	143	212	20,194	0	28,965	5,192	0	–	0	–
			Trillion Btu												
1960	(s)	17.6	1.0	11.2	11.7	0.5	1.0	48.4	0.2	73.9	0.0	0.0	91.5	0.0	91.5
1965	(s)	27.6	1.2	15.3	13.7	0.8	1.0	55.2	0.2	87.4	0.0	0.0	115.0	0.0	115.0
1970	(s)	32.8	0.6	18.4	17.0	0.9	1.0	67.7	0.1	105.7	0.0	0.0	138.5	0.0	138.5
1971	(s)	31.5	0.6	19.0	16.3	1.1	1.0	73.0	(s)	111.0	0.0	0.0	142.5	0.0	142.5
1972	(s)	39.6	0.5	23.4	15.6	1.2	1.1	77.9	0.0	119.7	0.0	0.0	159.3	0.0	159.3
1973	(s)	31.8	0.4	26.5	14.9	0.9	1.2	83.2	0.0	127.1	0.0	0.0	158.9	0.0	158.9
1974	(s)	34.7	0.5	26.4	15.0	0.8	1.1	81.3	0.0	125.3	0.0	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	0.0	158.1	0.0	158.1
1976	(s)	29.8	0.4	27.2	13.4	0.8	1.3	90.3	0.0	133.3	0.0	0.0	163.1	0.0	163.1
1977	(s)	23.7	0.4	30.4	14.2	0.8	1.3	93.4	0.0	140.5	0.0	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	0.0	174.0	0.0	174.0
1979	0.0	31.0	0.4	32.8	14.5	(s)	1.5	93.3	0.0	142.6	0.0	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	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	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	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	(s)	126.9	0.0	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	(s)	132.8	0.0	0.0	142.7	0.0	142.7
1985	0.0	28.2	0.5	25.2	15.7	0.3	1.2	91.5	0.0	134.4	0.0	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	142.6	0.0	0.0	170.5	0.0	170.5
1987	0.0	27.8	0.4	34.1	16.4	0.3	1.3	96.9	0.0	149.4	0.0	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	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	0.0	205.5	0.0	205.5
1990	0.0	80.4	0.4	36.5	16.0	0.4	1.3	95.0	0.0	149.7	[e] 0.3	0.0	[e] 230.1	0.0	[e] 230.1
1991	0.0	74.8	0.5	38.1	13.5	0.3	1.2	98.1	0.0	151.6	0.3	0.0	226.4	0.0	226.4
1992	0.0	52.5	0.5	45.1	15.6	0.4	1.2	99.8	0.0	162.6	0.3	0.0	215.0	0.0	215.0
1993	0.0	64.9	0.4	36.7	18.3	0.3	1.2	104.0	0.0	161.0	0.4	0.0	225.9	0.0	225.9
1994	0.0	59.2	0.3	33.7	14.6	0.5	1.3	106.1	0.0	156.5	0.4	0.0	215.6	0.0	215.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, New Mexico

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	26	0	26	34	107	10	0	117	0	69	0	0	0	–
1965	2,418	0	2,418	44	42	4	0	46	0	43	0	0	0	–
1970	5,518	0	5,518	55	86	8	0	94	0	66	0	0	0	–
1971	6,677	0	6,677	49	349	14	0	363	0	27	0	0	0	–
1972	6,850	0	6,850	59	427	12	0	440	0	20	0	0	0	–
1973	7,514	0	7,514	66	763	22	0	785	0	65	0	0	0	–
1974	7,923	0	7,923	68	1,055	32	0	1,087	0	73	0	0	0	–
1975	7,425	0	7,425	65	1,704	34	0	1,738	0	63	0	0	0	–
1976	7,690	0	7,690	70	977	39	0	1,016	0	76	0	0	0	–
1977	8,571	0	8,571	70	970	31	0	1,000	0	28	0	0	0	–
1978	7,996	0	7,996	63	426	24	0	450	0	30	0	0	0	–
1979	8,467	0	8,467	60	796	19	0	815	0	68	0	0	0	–
1980	11,406	0	11,406	56	175	216	0	391	0	94	0	0	0	–
1981	10,619	0	10,619	55	53	124	0	178	0	88	0	0	0	–
1982	12,173	0	12,173	45	168	159	0	327	0	79	0	0	0	–
1983	14,359	0	14,359	31	151	83	0	234	0	89	0	0	0	–
1984	13,896	0	13,896	31	88	36	0	124	0	94	0	0	0	–
1985	14,498	0	14,498	28	41	45	0	86	0	128	0	0	0	–
1986	13,147	0	13,147	20	41	42	0	83	0	166	0	0	0	–
1987	14,340	0	14,340	18	30	52	0	83	0	164	0	0	0	–
1988	14,661	0	14,661	21	42	52	0	94	0	100	0	0	0	–
1989	15,250	0	15,250	27	36	49	0	84	0	232	0	0	0	–
1990	15,065	0	15,065	25	32	37	0	69	0	205	0	0	0	–
1991	12,809	0	12,809	28	10	57	0	67	0	237	0	0	0	–
1992	14,775	0	14,775	22	2	71	0	73	0	255	0	0	0	–
1993	14,942	0	14,942	28	1	70	0	72	0	294	0	0	0	–
1994	15,297	0	15,297	32	(s)	46	0	47	0	213	0	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	0.0	37.0
1965	43.5	0.0	43.5	48.7	0.3	(s)	0.0	0.3	0.0	0.4	0.0	0.0	0.0	93.0
1970	99.1	0.0	99.1	59.5	0.5	(s)	0.0	0.6	0.0	0.7	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	280.7
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	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	0.0	309.6
1990	274.7	0.0	274.7	26.3	0.2	0.2	0.0	0.4	0.0	2.1	0.0	0.0	0.0	303.5
1991	232.9	0.0	232.9	28.6	0.1	0.3	0.0	0.4	0.0	2.5	0.0	0.0	0.0	264.3
1992	266.3	0.0	266.3	22.9	(s)	0.4	0.0	0.4	0.0	2.6	0.0	0.0	0.0	292.2
1993	268.7	0.0	268.7	28.2	(s)	0.4	0.0	0.4	0.0	3.0	0.0	0.0	0.0	300.3
1994	276.7	0.0	276.7	32.9	(s)	0.3	0.0	0.3	0.0	2.2	0.0	0.0	0.0	312.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, New York

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	3,203	297,879	0	15,709	0	0	-18,429	–
1965	28,735	545	6,234	2,427	104,033	23,620	5,623	3,174	2,221	109,226	104,296	6,937	367,791	727	20,072	0	0	-10,286	–
1970	23,935	711	5,612	249	111,107	38,338	6,994	4,506	2,199	130,737	152,252	8,647	460,640	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	8,552	477,681	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	9,473	496,068	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	9,895	509,423	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	10,237	464,242	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	9,454	449,737	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	8,892	478,974	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	10,363	482,181	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	11,091	479,241	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	11,902	420,252	18,507	38,411	71	0	-12,261	–
1980	12,503	737	4,983	320	72,559	35,936	2,309	5,631	2,091	127,422	115,488	12,023	378,763	19,276	33,641	13	0	-5,317	–
1981	12,388	760	5,424	271	64,120	25,383	2,072	5,215	2,006	129,730	95,745	10,196	340,162	17,444	40,000	1	0	-16,047	–
1982	11,514	775	5,400	198	62,116	4,827	2,561	4,878	1,829	129,867	95,706	7,824	315,206	14,438	40,690	9	0	-8,319	–
1983	10,676	720	5,732	225	56,756	3,790	3,506	4,905	1,915	127,144	76,067	6,476	286,516	16,376	46,670	17	0	-20,606	–
1984	11,895	790	5,387	189	59,227	3,887	1,776	5,056	2,042	113,249	73,011	7,103	270,927	21,187	47,737	11	0	-36,116	–
1985	11,944	763	7,208	221	62,013	3,856	5,319	4,923	1,903	136,352	66,334	6,862	294,992	24,092	44,477	(s)	0	-25,342	–
1986	9,931	729	6,438	256	70,542	3,738	3,061	4,878	1,861	136,801	79,619	R7,683	R314,877	22,084	45,175	0	0	-14,093	–
1987	11,471	779	6,553	126	73,069	2,904	4,158	5,474	2,104	142,598	77,490	R9,158	R323,635	22,926	43,241	(s)	0	-20,539	–
1988	12,956	790	7,989	104	75,460	4,915	5,263	5,238	2,029	133,365	88,972	R9,410	R332,747	24,175	36,327	0	0	-8,492	–
1989	14,105	846	4,967	89	76,608	6,047	4,797	5,579	2,081	133,419	85,410	R9,186	R328,184	22,847	28,696	0	0	1,350	–
1990	13,465	863	5,524	78	66,310	5,447	2,283	5,606	2,141	138,380	77,570	R10,619	R313,957	23,623	R INA	I NA	I NA	R14,896	–
1991	13,338	875	6,375	65	61,552	5,300	2,646	7,206	1,916	133,940	67,888	R9,680	R296,568	28,448	R NA	NA	NA	R12,793	–
1992	12,996	959	6,904	74	65,721	5,357	1,862	7,076	1,953	129,092	51,559	R11,110	R280,708	24,155	R NA	NA	NA	R45,568	–
1993	11,878	944	8,068	60	70,070	5,131	2,421	6,139	1,989	131,669	48,130	R10,320	R283,996	26,889	R NA	NA	NA	R57,034	–
1994	11,474	1,012	7,439	99	67,740	5,729	2,289	6,351	2,079	128,273	40,402	10,812	271,212	29,231	NA	NA	NA	46,722	–
			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	18.9	1,702.6	0.0	169.0	0.0	0.0	-62.9	2,934.5
1965	755.2	558.7	41.4	12.3	606.0	133.2	31.9	12.7	13.5	573.8	655.7	39.6	2,120.0	8.6	209.8	0.0	0.0	-35.1	3,617.2
1970	598.9	725.8	37.2	1.3	647.2	216.7	39.7	17.0	13.3	686.8	957.2	48.7	2,665.1	46.9	272.8	0.0	0.0	-49.4	4,260.2
1971	435.7	731.6	38.2	1.1	663.3	222.1	43.3	17.9	13.6	719.7	995.6	48.3	2,763.1	70.7	275.3	0.0	0.0	-65.3	4,211.1
1972	355.4	707.3	37.6	0.9	695.5	246.1	43.8	19.9	14.5	740.5	1,014.9	53.7	2,867.5	69.8	305.0	0.0	0.0	-70.2	4,234.8
1973	369.3	703.0	50.2	0.8	704.9	245.5	33.7	19.4	12.5	762.2	1,063.2	56.1	2,948.5	78.8	328.9	0.0	0.0	-40.2	4,388.3
1974	374.2	641.9	45.4	1.1	637.7	216.2	30.6	17.7	12.0	705.7	960.5	57.9	2,684.8	103.5	333.2	0.0	0.0	-42.7	4,094.9
1975	312.5	585.5	38.0	1.4	612.3	218.5	29.5	19.3	11.8	701.1	909.9	53.6	2,595.4	144.4	311.7	0.0	0.0	-60.6	3,889.0
1976	363.8	604.3	36.6	1.3	670.4	218.2	38.6	20.7	13.1	753.6	959.6	50.6	2,762.8	173.0	324.4	0.0	0.0	-50.5	4,177.8
1977	336.9	567.9	37.1	1.4	672.6	221.7	32.5	21.6	12.7	741.1	984.0	59.3	2,783.9	221.7	300.0	0.0	0.0	-59.7	4,150.8
1978	297.3	576.5	40.4	1.4	661.4	220.1	31.2	21.8	13.6	761.3	947.6	63.3	2,762.1	237.4	320.7	0.0	0.0	-49.7	4,144.4
1979	315.2	633.6	37.6	1.6	524.7	202.2	20.5	20.8	14.2	720.1	803.8	67.1	2,412.6	201.3	397.7	0.7	0.0	-41.8	3,919.2
1980	313.7	755.9	33.1	1.6	422.7	203.3	13.1	20.7	12.7	669.3	726.1	67.3	2,169.8	210.3	349.5	0.1	0.0	-18.1	3,781.1
1981	308.7	775.7	36.0	1.4	373.5	143.5	11.7	19.0	12.2	681.5	602.0	57.6	1,938.3	192.4	418.1	(s)	0.0	-54.8	3,578.4
1982	289.0	793.1	35.8	1.0	361.8	27.0	14.5	17.6	11.1	682.2	601.7	44.0	1,796.7	159.9	425.4	0.1	0.0	-28.4	3,435.8
1983	268.0	739.8	38.0	1.1	330.6	21.1	19.9	17.7	11.6	667.9	478.2	36.6	1,622.8	178.6	491.0	0.2	0.0	-70.3	3,230.0
1984	299.9	811.3	35.7	1.0	345.0	21.5	10.1	18.2	12.4	594.9	459.0	39.0	1,536.8	229.7	498.4	0.1	0.0	-123.2	3,253.0
1985	301.4	784.7	47.8	1.1	361.2	21.4	30.2	17.7	11.5	716.3	417.0	38.0	1,662.3	260.5	464.6	(s)	0.0	-86.5	3,387.0
1986	253.3	749.9	42.7	1.3	410.9	20.8	17.4	17.8	11.3	718.6	500.6	R42.5	R1,783.8	238.5	471.9	0.0	0.0	-48.1	R3,449.3
1987	294.3	801.9	43.5	0.6	425.6	16.0	23.6	20.0	12.8	749.1	487.2	R51.2	R1,829.5	247.1	450.5	(s)	0.0	-70.1	R3,553.2
1988	333.0	813.1	53.0	0.5	439.6	27.4	29.8	19.1	12.3	700.6	559.4	R52.9	R1,894.6	259.7	375.0	0.0	0.0	-29.0	R3,646.5
1989	362.6	870.4	33.0	0.4	446.2	33.8	27.2	20.5	12.6	700.8	537.0	R51.5	R1,863.1	245.0	296.1	0.0	0.0	4.6	R3,641.8
1990	346.1	889.0	36.7	0.4	386.3	30.4	12.9	20.3	13.0	726.9	487.7	R59.8	R1,774.4	252.3	R I300.4	I127.7	I0.2	R50.8	RI3,723.5
1991	344.4	899.7	42.3	0.3	358.5	29.6	15.0	26.0	11.6	703.6	426.8	R54.3	R1,668.1	305.5	R310.6	129.9	0.2	R43.6	R3,698.3
1992	336.7	986.8	45.8	0.4	382.8	29.9	10.6	25.6	11.8	678.1	324.2	R62.5	R1,571.7	257.9	R319.7	136.6	0.3	R155.5	R3,763.7
1993	306.5	971.2	53.5	0.3	408.2	28.7	13.7	22.1	12.1	691.7	302.6	R57.7	R1,590.6	287.2	R353.3	143.5	0.3	R194.6	R3,854.9
1994	297.3	1,040.8	49.4	0.5	394.6	32.3	13.0	23.1	12.6	673.8	254.0	60.5	1,513.8	312.1	356.5	142.5	0.3	159.4	3,867.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– –=Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, New York

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	146	927	1,074	225	44,927	4,174	2,130	51,232	0	0	12,496	–	31,082	–
1965	111	583	694	288	57,623	4,161	2,254	64,037	0	0	17,027	–	40,655	–
1970	26	356	381	347	60,128	5,581	2,782	68,491	0	0	25,492	–	61,777	–
1971	20	339	359	352	59,366	5,783	2,869	68,018	0	0	26,691	–	64,529	–
1972	17	260	277	363	61,612	5,981	3,215	70,808	0	0	27,787	–	66,885	–
1973	22	257	279	343	62,320	4,867	3,094	70,281	0	0	29,508	–	70,643	–
1974	34	227	261	341	57,642	4,251	2,824	64,717	0	0	28,193	–	68,741	–
1975	41	187	228	327	55,966	3,746	3,078	62,790	0	0	28,710	–	69,253	–
1976	12	177	189	340	61,560	5,126	3,222	69,908	0	0	29,462	–	70,970	–
1977	24	170	194	326	61,894	3,909	3,311	69,113	0	0	29,780	–	71,910	–
1978	62	140	203	331	61,775	3,493	3,069	68,337	0	0	29,942	–	73,253	–
1979	43	111	154	313	44,455	1,962	2,560	48,978	0	0	30,204	–	72,892	–
1980	47	134	181	334	37,690	1,723	2,511	41,923	0	0	30,583	–	74,367	–
1981	78	157	234	337	35,045	1,509	2,668	39,222	0	0	30,702	–	73,170	–
1982	120	166	287	343	31,660	1,836	2,501	35,997	0	0	30,626	–	73,559	–
1983	76	104	180	322	29,404	1,497	2,974	33,874	0	0	31,803	–	76,194	–
1984	98	126	224	337	30,155	1,090	2,963	34,208	0	0	32,836	–	76,429	–
1985	73	134	208	320	30,992	3,219	3,227	37,438	0	0	32,757	–	76,961	–
1986	102	104	206	337	34,065	2,209	3,282	39,555	0	0	33,771	–	77,683	–
1987	69	104	173	334	36,220	3,212	3,834	43,266	0	0	35,294	–	80,645	–
1988	65	74	139	357	36,422	4,163	3,718	44,304	0	0	37,460	–	84,690	–
1989	59	78	137	365	34,788	2,771	3,931	41,490	0	0	37,878	–	84,948	–
1990	49	80	129	338	26,529	1,765	4,079	32,373	[e] 2,325	[e] 68	38,574	–	R 84,292	–
1991	52	78	130	339	25,021	2,098	5,051	32,170	2,450	72	39,177	–	R 85,180	–
1992	51	77	128	379	27,997	1,252	4,965	34,214	2,577	78	38,720	–	R 82,658	–
1993	26	94	120	384	28,707	1,565	4,293	34,565	2,758	84	39,897	–	R 84,261	–
1994	33	55	88	385	26,760	1,396	4,350	32,505	2,704	100	40,105	–	83,637	–
	Trillion Btu													
1960	3.6	22.9	26.5	232.5	261.7	23.7	8.5	293.9	0.0	0.0	42.6	595.5	106.1	701.6
1965	2.7	14.2	16.9	295.0	335.7	23.6	9.0	368.3	0.0	0.0	58.1	738.3	138.7	877.0
1970	0.6	8.3	9.0	353.8	350.2	31.6	10.5	392.4	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	108.5	633.8	260.0	893.8
1984	2.4	3.2	5.6	345.8	175.7	6.2	10.7	192.5	0.0	0.0	112.0	655.9	260.8	916.7
1985	1.8	3.1	4.9	328.8	180.5	18.3	11.6	210.4	0.0	0.0	111.8	655.9	262.6	918.5
1986	2.5	2.5	5.0	345.9	198.4	12.5	11.9	222.9	0.0	0.0	115.2	689.1	265.1	954.2
1987	1.7	2.7	4.5	344.4	211.0	18.2	14.0	243.2	0.0	0.0	120.4	712.5	275.2	987.7
1988	1.6	1.9	3.5	367.5	212.2	23.6	13.6	249.3	0.0	0.0	127.8	748.2	289.0	1,037.1
1989	1.5	2.1	3.6	375.4	202.6	15.7	14.5	232.8	0.0	0.0	129.2	741.0	289.8	1,030.9
1990	1.2	2.0	3.2	347.8	154.5	10.0	14.8	179.3	[e] 46.5	[e] 0.2	131.6	R [e] 708.7	R 287.6	R [e] 996.3
1991	1.3	2.0	3.3	348.1	145.7	11.9	18.3	175.9	49.0	0.2	133.7	R 710.1	R 290.6	R 1,000.8
1992	1.3	1.9	3.2	389.6	163.1	7.1	18.0	188.2	51.5	0.3	132.1	R 764.8	R 282.0	R 1,046.9
1993	0.7	2.3	2.9	395.2	167.2	8.9	15.5	191.6	55.2	0.3	136.1	R 781.3	R 287.5	R 1,068.8
1994	0.8	1.4	2.2	395.9	155.9	7.9	15.8	179.6	54.1	0.3	136.8	769.0	285.4	1,054.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, New York

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	207	389	596	87	19,527	467	398	828	37,514	58,733	23,617	–	56,387	–
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	523	1,073	16,986	31,252	48,026	–	111,785	–
1985	136	90	226	165	11,835	862	569	1,911	16,677	31,854	49,017	–	115,160	–
1986	189	69	258	168	16,471	228	579	1,856	19,955	39,090	50,743	–	116,724	–
1987	129	69	198	167	14,782	318	677	1,368	18,987	36,131	52,732	–	120,489	–
1988	121	49	170	188	14,720	207	656	1,105	18,154	34,843	55,701	–	125,928	–
1989	110	52	162	196	15,473	519	694	1,348	15,878	33,911	56,511	–	126,734	–
1990	91	53	144	195	12,974	269	720	1,194	17,643	32,800	56,393	–	R123,229	–
1991	96	52	148	200	12,758	213	891	716	17,102	31,679	56,795	–	R123,483	–
1992	96	51	147	217	13,899	408	876	682	15,951	31,816	R56,473	–	R120,557	–
1993	49	63	112	221	15,123	616	758	198	17,531	34,226	R57,922	–	R122,327	–
1994	60	37	97	223	14,592	538	768	180	16,301	32,379	59,381	–	123,836	–
	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
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
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	1.9	5.6	106.8	188.0	163.9	533.2	381.4	914.6
1985	3.4	2.1	5.4	170.0	68.9	4.9	2.1	10.0	104.8	190.8	167.2	533.4	392.9	926.4
1986	4.6	1.7	6.3	172.1	95.9	1.3	2.1	9.7	125.5	234.6	173.1	586.1	398.3	984.4
1987	3.2	1.8	5.0	172.2	86.1	1.8	2.5	7.2	119.4	216.9	179.9	574.1	411.1	985.2
1988	3.0	1.3	4.3	193.4	85.7	1.2	2.4	5.8	114.1	209.3	190.1	597.0	429.7	1,026.7
1989	2.7	1.4	4.1	202.1	90.1	2.9	2.6	7.1	99.8	202.5	192.8	601.6	432.4	1,034.0
1990	2.2	1.3	3.6	200.6	75.6	1.5	2.6	6.3	110.9	196.9	192.4	593.5	R420.5	R1,014.0
1991	2.4	1.3	3.7	205.0	74.3	1.2	3.2	3.8	107.5	190.0	193.8	592.5	R421.3	R1,013.8
1992	2.4	1.3	3.6	223.5	81.0	2.3	3.2	3.6	100.3	190.3	192.7	610.1	R411.3	R1,021.4
1993	1.2	1.5	2.7	R227.0	88.1	3.5	2.7	1.0	110.2	205.6	197.6	633.0	R417.4	R1,050.3
1994	1.5	0.9	2.4	229.4	85.0	3.1	2.8	0.9	102.5	194.3	202.6	628.7	422.5	1,051.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, New York

Year	Coal	Natural Gas [a]	Petroleum								Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	11,947	72	5,424	12,930	660	325	944	3,369	22,444	3,203	49,298	341	0	0	14,428	–	35,888	–
1965	13,811	93	6,234	16,909	996	485	1,099	3,708	29,213	6,937	65,581	275	0	0	23,101	–	55,156	–
1970	12,125	116	5,612	16,810	787	1,125	1,003	3,281	33,696	8,647	70,962	269	0	0	27,152	–	65,799	–
1971	8,830	117	5,763	16,769	1,208	1,244	1,149	3,085	30,975	8,552	68,745	253	0	0	27,006	–	65,292	–
1972	7,732	104	5,667	17,805	1,079	1,377	1,231	3,518	30,108	9,473	70,258	251	0	0	27,549	–	66,312	–
1973	8,324	125	7,558	18,373	533	1,386	1,014	2,787	30,592	9,895	72,138	209	0	0	29,883	–	71,540	–
1974	8,014	109	6,835	16,712	669	1,284	971	2,018	26,830	9,855	65,174	174	0	0	29,854	–	72,793	–
1975	6,125	105	5,733	15,761	1,039	1,442	998	1,351	23,039	9,454	58,817	188	0	0	27,247	–	65,723	–
1976	8,108	104	5,513	17,544	1,109	1,633	1,109	1,349	27,501	8,892	64,649	242	0	0	28,650	–	69,014	–
1977	6,537	98	5,595	18,223	1,379	1,796	1,027	1,779	28,537	10,363	68,700	237	0	0	30,914	–	74,649	–
1978	5,355	91	6,085	18,204	1,625	2,138	1,102	2,056	25,462	11,091	67,763	242	0	0	32,057	–	78,427	–
1979	6,003	88	5,659	17,711	1,439	2,536	1,154	1,221	25,405	11,902	67,026	243	0	0	32,894	–	79,384	–
1980	5,699	114	4,983	9,339	417	2,598	1,027	1,535	14,815	12,023	46,738	233	0	0	32,110	–	78,081	–
1981	5,420	122	5,424	6,129	405	1,917	985	4,155	7,987	10,196	37,198	233	0	0	32,240	–	76,837	–
1982	4,232	111	5,400	6,105	526	1,795	898	1,047	10,184	7,824	33,779	233	0	0	30,484	–	73,218	–
1983	3,575	98	5,732	4,883	720	1,240	941	829	4,164	6,476	24,985	233	0	0	31,424	–	75,285	–
1984	4,073	108	5,387	5,008	249	1,359	1,003	613	5,685	7,103	26,407	233	0	0	28,789	–	67,010	–
1985	3,723	101	7,208	4,816	1,238	980	935	1,224	5,553	6,862	28,815	233	0	0	28,659	–	67,331	–
1986	3,169	88	6,438	3,148	624	909	914	1,252	6,033	R7,683	R27,001	233	0	0	28,107	–	64,653	–
1987	3,272	97	6,553	3,866	628	878	1,033	1,284	5,232	R9,158	R28,632	233	0	0	28,726	–	65,637	–
1988	3,528	92	7,989	3,705	893	742	997	1,411	4,919	R9,410	R30,066	233	0	0	30,155	–	68,174	–
1989	3,649	97	4,967	3,846	1,507	801	1,022	1,389	4,366	R9,186	R27,084	233	0	0	31,448	–	70,527	–
1990	3,199	102	5,524	3,428	249	655	1,052	1,139	4,750	R10,619	R27,415	R[f]NA	[f]NA	[f]NA	31,929	–	R69,771	–
1991	3,185	120	6,375	3,043	335	1,107	941	1,097	2,383	R9,680	R24,961	RNA	NA	NA	31,112	–	R67,643	–
1992	2,758	148	6,904	3,117	201	1,092	959	1,110	3,095	R11,110	R27,587	RNA	NA	NA	R31,027	–	R66,237	–
1993	2,947	161	8,068	4,047	241	962	977	984	3,911	R10,320	R29,509	RNA	NA	NA	30,187	–	R63,753	–
1994	2,893	215	7,439	3,066	355	948	1,021	1,080	3,208	10,812	27,929	NA	NA	NA	29,467	–	61,452	–
			Trillion Btu															
1960	311.9	74.2	36.0	75.3	3.7	1.3	5.7	17.7	141.1	18.9	299.8	3.7	0.0	0.0	49.2	738.8	122.5	861.3
1965	360.1	95.3	41.4	98.5	5.6	1.9	6.7	19.5	183.7	39.6	396.9	2.9	0.0	0.0	78.8	934.0	188.2	1,122.2
1970	308.4	118.0	37.2	97.9	4.5	4.3	6.1	17.2	211.8	48.7	427.8	2.8	0.0	0.0	92.6	949.6	224.5	1,174.1
1971	222.8	119.5	38.2	97.7	6.8	4.7	7.0	16.2	194.7	48.3	413.7	2.7	0.0	0.0	92.1	850.8	222.8	1,073.6
1972	195.6	105.7	37.6	103.7	6.1	5.2	7.5	18.5	189.3	53.7	421.5	2.6	0.0	0.0	94.0	819.4	226.3	1,045.7
1973	214.6	128.3	50.2	107.0	3.0	5.2	6.2	14.6	192.3	56.1	434.6	2.2	0.0	0.0	102.0	881.7	244.1	1,125.8
1974	207.1	111.4	45.4	97.4	3.8	4.8	5.9	10.6	168.7	55.6	392.1	1.8	0.0	0.0	101.9	814.2	248.4	1,062.5
1975	155.5	106.2	38.0	91.8	5.9	5.4	6.1	7.1	144.8	53.6	352.7	2.0	0.0	0.0	93.0	709.4	224.2	933.6
1976	208.9	105.6	36.6	102.2	6.3	6.1	6.7	7.1	172.9	50.6	388.5	2.5	0.0	0.0	97.8	803.2	235.5	1,038.7
1977	167.6	99.5	37.1	106.1	7.8	6.6	6.2	9.3	179.4	59.3	412.0	2.5	0.0	0.0	105.5	787.0	254.7	1,041.7
1978	136.6	92.2	40.4	106.0	9.2	7.8	6.7	10.8	160.1	63.3	404.4	2.5	0.0	0.0	109.4	745.0	267.6	1,012.6
1979	154.0	89.2	37.6	103.2	8.2	9.3	7.0	6.4	159.7	67.1	398.5	2.5	0.0	0.0	112.2	756.4	270.9	1,027.3
1980	146.5	116.4	33.1	54.4	2.4	9.5	6.2	8.1	93.1	67.3	274.1	2.4	0.0	0.0	109.6	649.1	266.4	915.5
1981	138.7	124.2	36.0	35.7	2.3	7.0	6.0	21.8	50.2	57.6	216.6	2.4	0.0	0.0	110.0	591.9	262.2	854.1
1982	108.3	113.1	35.8	35.6	3.0	6.5	5.4	5.5	64.0	44.0	199.8	2.4	0.0	0.0	104.0	527.7	249.8	777.5
1983	90.9	100.1	38.0	28.4	4.1	4.5	5.7	4.4	26.2	36.6	147.9	2.5	0.0	0.0	107.2	448.5	256.9	705.4
1984	103.6	110.6	35.7	29.2	1.4	4.9	6.1	3.2	35.7	39.0	155.3	2.4	0.0	0.0	98.2	470.2	228.6	698.8
1985	94.8	103.6	47.8	28.1	7.0	3.5	5.7	6.4	34.9	38.0	171.4	2.4	0.0	0.0	97.8	470.1	229.7	699.8
1986	81.7	90.0	42.7	18.3	3.5	3.3	5.5	6.6	37.9	R42.5	R160.5	2.4	0.0	0.0	95.9	R430.6	220.6	R651.2
1987	84.7	100.0	43.5	22.5	3.6	3.2	6.3	6.7	32.9	R51.2	R169.8	2.4	0.0	0.0	98.0	R454.9	224.0	R678.9
1988	91.5	94.3	53.0	21.6	5.1	2.7	6.0	7.4	30.9	R52.9	R179.6	2.4	0.0	0.0	102.9	R470.7	232.6	R703.3
1989	94.4	100.3	33.0	22.4	8.5	2.9	6.2	7.3	27.4	R51.5	R159.3	2.4	0.0	0.0	107.3	R463.7	240.6	R704.3
1990	82.6	105.1	36.7	20.0	1.4	2.4	6.4	6.0	29.9	R59.8	R162.4	R[f]12.6	[f]80.8	[f]0.0	108.9	R[f]552.4	R238.1	R[f]790.4
1991	82.2	123.3	42.3	17.7	1.9	4.0	5.7	5.8	15.0	R54.3	R146.7	R12.7	80.6	0.0	106.2	R551.6	R230.8	R782.4
1992	71.3	152.7	45.8	18.2	1.1	4.0	5.8	5.8	19.5	R62.5	R162.6	R14.9	84.7	0.0	105.9	R592.1	R226.0	R818.1
1993	76.2	165.6	53.5	23.6	1.4	3.5	5.9	5.2	24.6	R57.7	R175.3	R13.7	87.7	0.0	103.0	R621.5	R217.5	R839.0
1994	75.1	221.1	49.4	17.9	2.0	3.4	6.2	5.7	20.2	60.5	165.2	15.0	87.8	0.0	100.5	664.7	209.7	874.4

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, New York

Year	Coal [a]	Natural Gas [b]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	201	2	13,729	8,758	9,411	18	1,368	91,701	17,060	142,046	0	2,095	–	5,211	–
1965	44	3	2,427	8,800	23,620	38	1,122	104,690	16,158	156,856	0	2,056	–	4,908	–
1970	19	3	249	10,653	38,338	107	1,196	126,403	18,450	195,396	0	1,906	–	4,618	–
1971	11	3	219	10,361	39,280	138	1,089	132,821	18,609	202,516	0	1,860	–	4,497	–
1972	8	3	183	10,359	39,669	144	1,166	136,302	14,957	202,780	0	1,868	–	4,497	–
1973	6	3	163	11,941	40,639	153	1,048	141,197	17,085	212,226	0	1,768	–	4,233	–
1974	4	3	215	10,867	35,979	147	1,004	131,210	12,503	191,925	0	1,896	–	4,624	–
1975	1	3	274	10,488	37,252	125	950	130,948	8,862	188,899	0	2,080	–	5,017	–
1976	1	3	254	11,979	36,887	156	1,055	140,984	8,772	200,087	0	2,067	–	4,979	–
1977	(s)	3	272	11,931	38,210	174	1,063	138,202	7,575	197,427	0	2,105	–	5,082	–
1978	0	3	277	11,593	38,286	179	1,142	141,734	6,159	199,371	0	1,749	–	4,279	–
1979	0	3	312	12,006	35,327	115	1,195	134,695	12,188	195,838	0	1,989	–	4,800	–
1980	0	4	320	10,309	35,916	79	1,064	124,853	11,344	183,885	0	2,061	–	5,012	–
1981	0	4	271	9,443	25,381	159	1,020	124,431	11,737	172,443	0	2,093	–	4,988	–
1982	0	4	198	10,110	4,815	140	931	127,775	11,214	155,184	0	2,051	–	4,926	–
1983	0	3	225	9,938	3,790	167	974	125,340	2,100	142,534	0	2,081	–	4,987	–
1984	0	5	189	11,019	3,887	210	1,039	111,563	1,988	129,895	0	2,259	–	5,258	–
1985	0	4	221	13,551	3,856	147	968	133,217	884	152,844	0	2,241	–	5,266	–
1986	0	3	256	15,509	3,738	108	947	133,693	1,526	155,778	0	2,287	–	5,262	–
1987	0	7	126	16,759	2,904	87	1,070	139,946	2,175	163,067	0	2,217	–	5,066	–
1988	0	5	104	18,450	4,915	122	1,032	130,848	3,059	158,531	0	2,326	–	5,258	–
1989	0	5	89	18,865	6,047	153	1,059	130,682	531	157,427	0	2,365	–	5,305	–
1990	0	5	78	22,363	5,447	152	1,089	136,048	1,377	166,554	[e] 5,833	2,428	–	[R] 5,305	–
1991	0	5	65	19,846	5,300	158	975	132,127	3,971	162,442	4,623	2,327	–	[R] 5,060	–
1992	0	6	74	20,290	5,357	144	994	127,300	3,730	157,890	5,619	2,250	–	[R] 4,804	–
1993	0	6	60	21,625	5,131	126	1,012	130,488	3,258	161,699	6,271	[R] 2,164	–	[R] 4,570	–
1994	0	6	99	22,381	5,729	286	1,058	127,014	3,169	159,735	6,956	2,224	–	4,639	–
			Trillion Btu												
1960	5.2	2.4	69.3	51.0	52.6	0.1	8.3	481.7	107.3	770.3	0.0	7.1	785.0	17.8	802.8
1965	1.1	3.4	12.3	51.3	133.2	0.2	6.8	549.9	101.6	855.2	0.0	7.0	866.8	16.7	883.5
1970	0.5	3.2	1.3	62.1	216.7	0.4	7.3	664.0	116.0	1,067.7	0.0	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	0.0	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	0.0	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	0.0	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	0.0	6.5	1,052.0	15.8	1,067.7
1975	(s)	3.0	1.4	61.1	210.7	0.5	5.8	687.9	55.7	1,023.0	0.0	7.1	1,033.0	17.1	1,050.2
1976	(s)	3.0	1.3	69.8	208.6	0.6	6.4	740.6	55.1	1,082.4	0.0	7.1	1,092.5	17.0	1,109.5
1977	(s)	2.7	1.4	69.5	216.1	0.6	6.4	726.0	47.6	1,067.7	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	7.1	768.7	17.0	785.7
1984	0.0	5.1	1.0	64.2	21.5	0.8	6.3	586.0	12.5	692.2	0.0	7.7	705.0	17.9	723.0
1985	0.0	3.6	1.1	78.9	21.4	0.5	5.9	699.8	5.6	813.1	0.0	7.6	824.4	18.0	842.4
1986	0.0	3.5	1.3	90.3	20.8	0.4	5.7	702.3	9.6	830.4	0.0	7.8	841.7	18.0	859.6
1987	0.0	6.8	0.6	97.6	16.0	0.3	6.5	735.1	13.7	869.9	0.0	7.6	884.2	17.3	901.5
1988	0.0	4.9	0.5	107.5	27.4	0.4	6.3	687.3	19.2	848.7	0.0	7.9	861.5	17.9	879.4
1989	0.0	5.4	0.4	109.9	33.8	0.6	6.4	686.5	3.3	841.0	0.0	8.1	854.5	18.1	872.6
1990	0.0	4.9	0.4	130.3	30.4	0.5	6.6	714.7	8.7	891.6	[e] 0.4	8.3	[e] 904.7	18.1	[e] 922.8
1991	0.0	[R] 5.2	0.3	115.6	29.6	0.6	5.9	694.1	25.0	871.0	0.4	7.9	884.1	17.3	[R] 901.4
1992	0.0	[R] 6.1	0.4	118.2	29.9	0.5	6.0	668.7	23.4	847.2	0.4	7.7	860.9	16.4	877.3
1993	0.0	6.3	0.3	126.0	28.7	0.5	6.1	685.5	20.5	867.5	0.5	7.4	881.2	15.6	896.8
1994	0.0	6.3	0.5	130.4	32.3	1.0	6.4	667.2	19.9	857.8	0.5	7.6	871.6	15.8	887.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, New York

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	13,591	0	13,591	74	21,410	1,174	0	22,584	727	19,797	0	0	0	–
1970	11,125	0	11,125	106	56,787	3,139	0	59,927	4,273	25,726	0	0	0	–
1971	8,130	0	8,130	99	69,014	7,263	0	76,277	6,521	26,021	0	0	0	–
1972	6,060	0	6,060	75	78,017	12,592	0	90,609	6,465	29,135	0	0	0	–
1973	5,793	0	5,793	70	82,665	10,024	0	92,689	7,227	31,448	0	0	0	–
1974	6,653	0	6,653	38	79,751	6,978	382	87,111	9,272	31,735	0	0	0	–
1975	6,124	0	6,124	14	84,338	5,319	0	89,658	13,111	29,766	0	0	0	–
1976	6,017	0	6,017	5	82,579	4,832	0	87,411	15,659	31,030	0	0	0	–
1977	6,629	0	6,629	4	85,307	3,433	0	88,740	20,590	28,517	0	0	0	–
1978	6,267	0	6,267	1	87,186	1,669	0	88,855	21,701	30,710	0	0	0	–
1979	6,274	0	6,274	76	67,918	1,253	0	69,171	18,507	38,168	71	0	0	–
1980	6,446	0	6,446	124	63,898	749	0	64,647	19,276	33,408	13	0	0	–
1981	6,485	0	6,485	131	62,258	907	0	63,165	17,444	39,767	1	0	0	–
1982	6,662	0	6,662	153	55,531	655	0	56,186	14,438	40,457	9	0	0	–
1983	6,711	0	6,711	136	57,361	603	0	57,964	16,376	46,436	17	0	0	–
1984	7,333	0	7,333	170	48,352	813	0	49,165	21,187	47,504	11	0	0	–
1985	7,787	0	7,787	173	43,220	821	0	44,041	24,092	44,243	(s)	0	0	–
1986	6,298	0	6,298	134	52,104	1,349	0	53,453	22,084	44,942	0	0	0	–
1987	7,828	0	7,828	173	51,096	1,442	0	52,538	22,926	43,007	(s)	0	0	–
1988	9,120	0	9,120	148	62,840	2,162	0	65,002	24,175	36,094	0	0	0	–
1989	10,158	0	10,158	182	64,636	3,636	0	68,272	22,847	28,463	0	0	0	–
1990	9,993	0	9,993	223	53,800	1,016	0	54,816	23,623	R27,855	0	0	0	–
1991	9,874	0	9,874	212	44,432	884	0	45,315	28,448	R28,778	0	0	0	–
1992	9,963	0	9,963	209	28,784	417	0	29,201	24,155	R29,586	0	0	0	–
1993	8,699	0	8,699	172	23,430	567	0	23,998	26,889	R33,038	13	0	0	–
1994	8,395	0	8,395	183	17,724	941	0	18,664	29,231	33,241	11	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	0.0	616.4
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	0.0	795.7
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	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	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	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	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	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	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	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	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	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	0.7	0.0	0.0	1,263.4
1980	158.8	0.0	158.8	128.9	401.7	4.4	0.0	406.1	210.3	347.0	0.1	0.0	0.0	1,251.2
1981	158.4	0.0	158.4	134.7	391.4	5.3	0.0	396.7	192.4	415.7	(s)	0.0	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	0.1	0.0	0.0	1,258.5
1983	167.6	0.0	167.6	140.0	360.6	3.5	0.0	364.1	178.6	488.5	0.2	0.0	0.0	1,339.0
1984	184.1	0.0	184.1	175.2	304.0	4.7	0.0	308.7	229.7	495.9	0.1	0.0	0.0	1,393.8
1985	196.2	0.0	196.2	178.7	271.7	4.8	0.0	276.5	260.5	462.2	(s)	0.0	0.0	1,374.1
1986	160.2	0.0	160.2	138.4	327.6	7.9	0.0	335.4	238.5	469.5	0.0	0.0	0.0	1,342.0
1987	200.2	0.0	200.2	178.5	321.2	8.4	0.0	329.6	247.1	448.1	(s)	0.0	0.0	1,403.5
1988	233.7	0.0	233.7	153.1	395.1	12.6	0.0	407.7	259.7	372.6	0.0	0.0	0.0	1,426.8
1989	260.5	0.0	260.5	187.1	406.4	21.2	0.0	427.5	245.0	293.6	0.0	0.0	0.0	1,413.8
1990	256.7	0.0	256.7	230.6	338.2	5.9	0.0	344.2	252.3	R287.9	0.0	0.0	0.0	1,354.6
1991	255.2	0.0	255.2	218.2	279.3	5.1	0.0	284.5	305.5	R297.9	0.0	0.0	0.0	1,357.9
1992	258.6	0.0	258.6	215.0	181.0	2.4	0.0	183.4	257.9	R304.8	0.0	0.0	0.0	1,218.6
1993	224.7	0.0	224.7	177.1	147.3	3.3	0.0	150.6	287.2	R339.6	0.1	0.0	0.0	1,187.5
1994	217.6	0.0	217.6	188.2	111.4	5.5	0.0	116.9	312.1	341.5	0.1	0.0	0.0	1,221.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, North Carolina

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	186	76,268	0	4,998	0	0	735	–
1965	12,708	76	2,699	714	17,182	3,649	12,717	4,188	835	43,144	4,723	835	90,687	0	5,385	0	0	-6,408	–
1970	20,417	151	3,621	151	22,612	4,702	11,612	5,489	851	56,348	6,778	1,416	113,580	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	1,744	118,472	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	1,962	129,222	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	2,121	132,653	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	1,881	125,659	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	1,815	118,083	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	2,363	130,516	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	2,830	138,836	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	2,927	138,071	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	3,086	136,642	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	3,112	123,465	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	3,195	115,349	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	2,577	112,835	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	2,143	119,234	12,363	6,142	0	0	5,745	–
1984	22,417	144	3,850	167	26,065	6,413	1,514	6,797	1,177	69,921	7,906	2,672	126,483	20,232	6,369	0	0	5,591	–
1985	22,052	134	3,450	174	24,824	6,668	4,775	7,546	1,097	70,839	6,233	2,493	128,099	19,303	4,094	0	0	23,946	–
1986	23,242	136	4,533	227	27,613	7,123	3,941	7,289	1,073	74,006	6,338	R 4,155	R 136,297	20,286	2,521	0	0	31,547	–
1987	19,965	149	4,022	218	28,380	7,749	3,662	8,791	1,213	76,542	6,281	R 4,599	R 141,457	28,600	5,101	0	0	37,444	–
1988	20,506	152	4,490	236	31,546	8,318	4,803	7,863	1,170	79,036	6,119	R 4,655	R 148,236	29,146	2,893	0	0	46,352	–
1989	22,239	162	3,766	231	27,059	7,689	3,372	9,308	1,200	77,740	5,512	R 4,504	R 140,381	29,212	6,999	0	0	28,258	–
1990	21,150	161	4,207	213	25,075	5,567	1,625	8,892	1,235	77,079	5,939	R 5,173	R 135,004	25,905	R I NA	I NA	I NA	R 50,498	–
1991	20,877	166	3,821	170	23,954	4,384	1,937	10,308	1,104	77,021	6,108	R 5,192	R 134,000	30,312	R NA	NA	NA	R 45,307	–
1992	24,075	180	4,250	154	25,733	4,684	2,026	11,092	1,126	77,219	7,529	R 5,801	R 139,615	22,754	R NA	NA	NA	R 51,545	–
1993	25,760	186	4,645	118	26,479	4,897	2,097	11,870	1,147	81,407	8,090	R 5,541	R 146,292	23,759	R NA	NA	NA	R 50,500	–
1994	23,282	188	4,824	136	28,599	4,359	1,732	12,331	1,198	83,475	6,395	5,693	148,742	32,346	NA	NA	NA	38,684	–
			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	1.1	419.4	0.0	53.8	0.0	0.0	2.5	754.1
1965	325.9	78.2	17.9	3.6	100.1	19.7	72.1	16.8	5.1	226.6	29.7	4.7	496.3	0.0	56.3	0.0	0.0	-21.9	934.9
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	9.8	649.7	0.0	62.0	0.0	0.0	-19.5	1,341.2
1972	492.8	167.8	27.4	1.2	134.4	22.6	54.0	22.2	5.9	333.0	99.8	11.1	711.6	0.0	66.8	0.0	0.0	-22.8	1,416.2
1973	531.7	165.2	30.6	1.4	146.5	21.4	43.4	22.7	6.5	346.1	99.9	12.0	730.6	0.0	73.9	0.0	0.0	-12.3	1,489.2
1974	522.8	143.7	26.0	1.2	132.2	21.3	34.5	21.8	6.3	348.6	86.1	10.5	688.5	0.0	71.9	0.0	0.0	14.1	1,441.1
1975	476.5	116.9	20.2	1.1	123.8	20.8	33.1	23.9	5.7	351.6	48.9	10.2	639.5	15.5	73.4	0.0	0.0	76.1	1,397.9
1976	544.5	103.0	19.8	0.8	141.0	20.3	35.1	26.1	6.4	367.9	80.4	13.3	711.1	27.7	58.6	0.0	0.0	42.9	1,487.9
1977	548.1	73.9	23.5	1.1	158.9	22.4	35.9	23.4	7.3	379.8	92.3	16.1	760.7	61.0	55.2	0.0	0.0	54.4	1,553.2
1978	499.9	83.7	23.6	1.3	143.5	23.8	32.9	28.3	7.8	395.0	77.7	16.5	750.5	108.5	56.8	0.0	0.0	75.5	1,574.9
1979	558.6	133.8	23.3	1.2	171.5	23.8	20.8	29.0	8.2	373.8	75.4	17.2	744.1	74.1	82.0	0.0	0.0	42.2	1,634.7
1980	624.7	155.2	20.5	1.1	140.5	28.7	18.5	29.3	7.3	347.9	56.9	17.2	667.9	63.0	57.0	0.0	0.0	36.1	1,603.9
1981	655.3	154.3	14.3	1.4	123.6	29.4	13.4	27.4	7.0	349.4	35.3	17.8	619.1	68.9	30.6	0.0	0.0	40.9	1,569.1
1982	622.1	146.8	14.7	0.9	117.5	31.8	13.2	25.1	6.4	345.9	36.2	14.3	606.1	101.1	56.5	0.0	0.0	-13.6	1,519.0
1983	595.0	141.1	21.3	1.0	143.6	35.6	8.8	25.2	6.7	353.0	36.5	11.9	643.5	134.8	64.6	0.0	0.0	19.6	1,598.6
1984	558.9	148.7	25.5	0.8	151.8	35.5	8.6	24.5	7.1	367.3	49.7	14.6	685.5	219.4	66.5	0.0	0.0	19.1	1,698.2
1985	550.5	138.4	22.9	0.9	144.6	37.0	27.1	27.2	6.7	372.1	39.2	13.7	691.4	208.7	42.8	0.0	0.0	81.7	1,713.4
1986	583.2	140.3	30.1	1.1	160.8	39.7	22.3	26.5	6.5	388.8	39.8	R 22.8	R 738.5	219.1	26.3	0.0	0.0	107.6	R 1,815.0
1987	500.9	153.3	26.7	1.1	165.3	43.2	20.8	32.2	7.4	402.1	39.5	R 25.3	R 763.4	308.2	53.1	0.0	0.0	127.8	R 1,906.7
1988	515.4	156.6	29.8	1.2	183.8	46.4	27.2	28.7	7.1	415.2	38.5	R 25.8	R 803.6	313.1	29.9	0.0	0.0	158.2	R 1,976.7
1989	556.8	166.8	25.0	1.2	157.6	42.8	19.1	34.3	7.3	408.4	34.7	R 24.9	R 755.1	313.3	72.2	0.0	0.0	96.4	R 1,960.7
1990	530.2	166.4	27.9	1.1	146.1	30.8	9.2	32.2	7.5	404.9	37.3	R 28.7	R 725.7	276.7	R I 72.3	I 81.1	I 0.1	R 172.3	R I 2,024.1
1991	522.5	171.7	25.4	0.9	139.5	24.3	11.0	37.3	6.7	404.6	38.4	R 28.8	R 716.7	325.6	R 62.7	81.6	0.1	R 154.6	R 2,035.1
1992	600.3	185.7	28.2	0.8	149.9	26.0	11.5	40.2	6.8	405.6	47.3	R 32.2	R 748.5	243.0	R 60.6	85.9	0.1	R 175.9	R 2,099.3
1993	642.7	192.1	30.8	0.6	154.2	27.2	11.9	42.8	7.0	427.6	50.9	R 30.6	R 783.6	253.8	R 53.8	88.2	0.1	R 172.3	R 2,186.1
1994	578.8	194.6	32.0	0.7	166.6	24.5	9.8	44.8	7.3	438.5	40.2	31.5	795.9	345.3	78.0	90.1	0.1	132.0	2,214.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– –=Not applicable.

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

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

Table 216. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, North Carolina

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	348	0	348	9	5,887	10,429	1,615	17,931	0	0	5,796	–	14,417	–
1965	190	0	190	15	6,654	10,547	2,563	19,765	0	0	8,601	–	20,537	–
1970	153	0	153	27	8,663	10,045	3,003	21,711	0	0	14,660	–	35,527	–
1971	131	0	131	30	8,243	9,539	2,926	20,709	0	0	15,787	–	38,167	–
1972	124	0	124	33	8,960	8,119	3,107	20,185	0	0	16,578	–	39,903	–
1973	142	0	142	28	8,899	6,904	2,597	18,401	0	0	18,480	–	44,243	–
1974	140	0	140	27	7,502	5,434	2,303	15,240	0	0	18,591	–	45,329	–
1975	129	0	129	27	7,261	4,901	2,245	14,408	0	0	18,999	–	45,828	–
1976	101	0	101	34	8,126	5,295	2,400	15,821	0	0	19,987	–	48,145	–
1977	83	0	83	32	8,551	4,924	2,360	15,835	0	0	21,851	–	52,764	–
1978	83	0	83	35	7,414	4,427	2,788	14,629	0	0	22,648	–	55,408	–
1979	52	0	52	32	9,434	3,106	2,664	15,204	0	0	22,614	–	54,575	–
1980	60	0	60	34	7,044	2,747	2,846	12,637	0	0	24,377	–	59,277	–
1981	48	0	48	33	5,516	1,939	2,784	10,239	0	0	24,928	–	59,410	–
1982	54	0	54	32	4,910	2,025	2,521	9,456	0	0	24,007	–	57,662	–
1983	45	1	45	31	5,582	1,214	2,997	9,793	0	0	25,237	–	60,464	–
1984	42	0	42	32	5,724	1,292	3,163	10,179	0	0	26,930	–	62,683	–
1985	68	1	69	29	4,880	3,994	3,194	12,067	0	0	26,852	–	63,086	–
1986	54	0	54	32	4,980	3,324	3,180	11,483	0	0	29,506	–	67,871	–
1987	57	0	57	36	5,684	3,210	3,877	12,770	0	0	31,507	–	71,990	–
1988	71	(s)	71	38	5,735	4,079	3,591	13,405	0	0	32,212	–	72,824	–
1989	53	(s)	54	39	4,676	3,012	4,823	12,512	0	0	32,784	–	73,522	–
1990	55	0	55	35	3,556	1,408	4,277	9,241	[e] 772	[e] 42	33,144	–	R 72,426	–
1991	34	(s)	34	38	3,201	1,674	4,790	9,664	813	42	34,391	–	R 74,773	–
1992	71	(s)	71	43	3,501	1,834	5,377	10,713	856	42	34,761	–	R 74,208	–
1993	80	(s)	80	47	3,701	1,888	5,552	11,140	933	43	37,742	–	R 79,709	–
1994	92	(s)	92	47	3,258	1,308	5,568	10,133	914	43	37,207	–	77,593	–
									Trillion Btu					
1960	8.6	0.0	8.6	8.9	34.3	59.1	6.5	99.9	0.0	0.0	19.8	137.2	49.2	186.4
1965	4.7	0.0	4.7	15.1	38.8	59.8	10.3	108.8	0.0	0.0	29.3	157.9	70.1	228.0
1970	3.6	0.0	3.6	28.0	50.5	57.0	11.3	118.8	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	81.9	165.1	196.7	361.8
1983	1.1	(s)	1.1	32.3	32.5	6.9	10.8	50.2	0.0	0.0	86.1	169.7	206.3	376.0
1984	1.0	0.0	1.0	33.5	33.3	7.3	11.4	52.1	0.0	0.0	91.9	178.5	213.9	392.4
1985	1.7	(s)	1.7	29.6	28.4	22.6	11.5	62.6	0.0	0.0	91.6	185.5	215.2	400.8
1986	1.4	0.0	1.4	32.7	29.0	18.8	11.6	59.4	0.0	0.0	100.7	194.2	231.6	425.8
1987	1.4	0.0	1.4	37.0	33.1	18.2	14.2	65.5	0.0	0.0	107.5	211.4	245.6	457.1
1988	1.8	(s)	1.8	39.5	33.4	23.1	13.1	69.7	0.0	0.0	109.9	220.9	248.5	469.4
1989	1.3	(s)	1.3	39.9	27.2	17.1	17.8	62.1	0.0	0.0	111.9	215.1	250.9	466.0
1990	1.4	0.0	1.4	36.1	20.7	8.0	15.5	44.2	[e] 15.4	[e] 0.1	113.1	R [e] 210.4	R 247.1	R [e] 457.5
1991	0.9	(s)	0.9	39.2	18.6	9.5	17.3	45.4	16.3	0.1	117.3	R 219.3	R 255.1	R 474.4
1992	1.8	(s)	1.8	44.0	20.4	10.4	19.5	50.3	17.1	0.1	118.6	R 232.0	R 253.2	R 485.2
1993	2.0	(s)	2.0	48.8	21.6	10.7	20.0	52.3	18.7	0.1	128.8	R 250.6	R 272.0	R 522.6
1994	2.3	(s)	2.3	49.2	19.0	7.4	20.2	46.6	18.3	0.1	126.9	243.5	264.7	508.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 217. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, North Carolina

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	352	0	352	7	1,307	251	452	278	120	2,409	5,360	–	12,797	–
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	(s)	83	25	2,932	94	529	664	169	4,388	16,357	–	39,188	–
1984	78	0	78	26	3,007	41	558	1,524	230	5,361	18,264	–	42,510	–
1985	125	1	126	25	2,649	245	564	632	322	4,412	19,163	–	45,021	–
1986	101	0	101	25	2,418	172	561	647	241	4,040	20,858	–	47,979	–
1987	105	0	105	30	2,934	137	684	722	63	4,541	22,110	–	50,519	–
1988	132	(s)	132	32	3,087	257	634	683	282	4,943	23,117	–	52,262	–
1989	99	(s)	99	33	2,351	176	851	625	226	4,230	24,273	–	54,436	–
1990	102	0	102	31	1,938	78	755	777	226	3,774	25,516	–	R 55,757	–
1991	63	(s)	63	34	1,821	93	845	375	118	3,252	26,411	–	R 57,424	–
1992	132	(s)	132	36	1,639	46	949	323	112	3,070	26,912	–	R 57,452	–
1993	149	(s)	149	37	1,886	50	980	59	288	3,264	28,547	–	R 60,290	–
1994	170	(s)	171	39	1,959	340	983	78	268	3,627	29,275	–	61,052	–
	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
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
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	(s)	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	2.0	8.0	1.4	29.2	62.3	120.5	145.0	265.6
1985	3.1	(s)	3.1	25.9	15.4	1.4	2.0	3.3	2.0	24.2	65.4	118.6	153.6	272.2
1986	2.5	0.0	2.5	26.3	14.1	1.0	2.0	3.4	1.5	22.0	71.2	122.0	163.7	285.7
1987	2.6	0.0	2.6	30.9	17.1	0.8	2.5	3.8	0.4	24.6	75.4	133.6	172.4	305.9
1988	3.3	(s)	3.3	33.4	18.0	1.5	2.3	3.6	1.8	27.1	78.9	142.7	178.3	321.1
1989	2.5	(s)	2.5	34.2	13.7	1.0	3.1	3.3	1.4	22.5	82.8	142.0	185.7	327.7
1990	2.6	0.0	2.6	32.3	11.3	0.4	2.7	4.1	1.4	20.0	87.1	141.9	190.2	332.1
1991	1.6	(s)	1.6	35.4	10.6	0.5	3.1	2.0	0.7	16.9	90.1	144.0	195.9	R 340.0
1992	3.3	(s)	3.3	37.7	9.5	0.3	3.4	1.7	0.7	15.7	91.8	R 148.4	R 196.0	R 344.5
1993	3.7	(s)	3.7	38.7	11.0	0.3	3.5	0.3	1.8	16.9	97.4	156.7	R 205.7	362.4
1994	4.3	(s)	4.3	40.3	11.4	1.9	3.6	0.4	1.7	19.0	99.9	163.5	208.3	371.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 218. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, North Carolina

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	2,421	26	2,617	3,155	1,413	730	179	1,089	3,967	186	13,336	48	0	0	8,773	–	21,822	–
1965	2,563	47	2,699	4,710	1,919	1,156	258	1,315	4,005	835	16,896	37	0	0	10,707	–	25,565	–
1970	2,267	75	3,621	4,514	1,328	1,891	328	1,004	5,809	1,416	19,911	10	0	0	16,099	–	39,013	–
1971	1,872	77	3,779	4,618	1,285	1,849	386	983	8,874	1,744	23,517	7	0	0	17,147	–	41,455	–
1972	1,535	84	4,124	4,913	1,216	2,163	413	908	11,264	1,962	26,963	9	0	0	18,448	–	44,404	–
1973	1,549	96	4,610	4,905	586	2,885	505	850	9,341	2,121	25,803	6	0	0	20,259	–	48,501	–
1974	1,529	87	3,919	4,163	517	3,009	484	855	8,419	1,881	23,247	3	0	0	20,083	–	48,967	–
1975	1,479	62	3,049	4,271	814	3,695	446	782	7,045	1,815	21,915	5	0	0	20,875	–	50,354	–
1976	1,356	45	2,989	5,294	770	4,079	495	750	11,574	2,363	28,315	2	0	0	22,721	–	54,732	–
1977	1,512	20	3,542	6,175	1,286	3,446	571	591	13,787	2,830	32,229	5	0	0	23,698	–	57,223	–
1978	1,581	24	3,554	4,688	1,275	4,271	613	591	10,605	2,927	28,525	4	0	0	24,075	–	58,699	–
1979	1,661	69	3,509	4,894	486	4,665	641	529	11,261	3,086	29,071	3	0	0	25,229	–	60,886	–
1980	1,375	86	3,089	4,131	394	4,581	571	514	8,468	3,112	24,859	3	0	0	25,254	–	61,409	–
1981	1,729	86	2,160	3,289	372	4,118	548	488	5,098	3,195	19,268	3	0	0	24,700	–	58,867	–
1982	1,661	79	2,209	3,171	274	3,832	499	434	5,330	2,577	18,326	3	0	0	22,575	–	54,222	–
1983	1,876	75	3,216	2,951	241	3,284	523	386	5,591	2,143	18,336	3	0	0	24,623	–	58,993	–
1984	1,992	80	3,850	3,026	181	2,868	558	926	7,633	2,672	21,714	3	0	0	26,474	–	61,620	–
1985	2,247	75	3,450	3,236	537	3,606	520	832	5,814	2,493	20,486	3	0	0	26,272	–	61,725	–
1986	2,545	72	4,533	4,584	445	3,378	508	815	5,967	R4,155	R24,386	3	0	0	27,072	–	62,273	–
1987	2,548	76	4,022	3,808	315	4,105	574	820	5,569	R4,599	R23,814	3	0	0	28,993	–	66,247	–
1988	2,536	75	4,490	3,717	467	3,490	554	740	5,421	R4,655	R23,534	3	0	0	30,211	–	68,301	–
1989	2,570	83	3,766	3,564	184	3,481	568	837	4,616	R4,504	R21,520	3	0	0	31,152	–	69,864	–
1990	2,989	86	4,207	2,918	139	3,698	585	802	5,193	R5,173	R22,716	Rf NA	f NA	f NA	31,265	–	R68,319	–
1991	2,702	85	3,821	2,977	170	4,487	523	860	5,244	R5,192	R23,275	R NA	NA	NA	31,514	–	R68,518	–
1992	2,860	91	4,250	3,205	146	4,622	533	819	6,758	R5,801	R26,135	R NA	NA	NA	32,522	–	R69,427	–
1993	2,476	92	4,645	3,138	158	5,185	543	845	7,374	R5,541	R27,430	R NA	NA	NA	33,488	–	R70,724	–
1994	2,396	95	4,824	3,117	84	5,503	568	890	5,915	5,693	26,593	NA	NA	NA	33,307	–	69,461	–
			Trillion Btu															
1960	61.6	27.0	17.4	18.4	8.0	2.9	1.1	5.7	24.9	1.1	79.5	0.5	0.0	0.0	29.9	198.6	74.5	273.0
1965	64.6	48.3	17.9	27.4	10.9	4.6	1.6	6.9	25.2	4.7	99.2	0.4	0.0	0.0	36.5	249.1	87.2	336.3
1970	53.9	76.9	24.0	26.3	7.5	7.1	2.0	5.3	36.5	8.0	116.8	0.1	0.0	0.0	54.9	302.5	133.1	435.6
1971	43.9	78.5	25.1	26.9	7.3	7.0	2.3	5.2	55.8	9.8	139.3	0.1	0.0	0.0	58.5	320.2	141.4	461.7
1972	35.8	85.6	27.4	28.6	6.9	8.1	2.5	4.8	70.8	11.1	160.2	0.1	0.0	0.0	62.9	344.6	151.5	496.1
1973	36.2	98.2	30.6	28.6	3.3	10.8	3.1	4.5	58.7	12.0	151.5	0.1	0.0	0.0	69.1	355.1	165.5	520.6
1974	35.4	89.0	26.0	24.2	2.9	11.2	2.9	4.5	52.9	10.5	135.3	(s)	0.0	0.0	68.5	328.3	167.1	495.3
1975	34.7	63.2	20.2	24.9	4.6	13.7	2.7	4.1	44.3	10.2	124.8	0.1	0.0	0.0	71.2	294.0	171.8	465.8
1976	32.4	45.4	19.8	30.8	4.4	15.1	3.0	3.9	72.8	13.3	163.2	(s)	0.0	0.0	77.5	318.5	186.7	505.3
1977	35.7	20.1	23.5	36.0	7.3	12.7	3.5	3.1	86.7	16.1	188.7	0.1	0.0	0.0	80.9	325.5	195.2	520.7
1978	37.4	24.4	23.6	27.3	7.2	15.7	3.7	3.1	66.7	16.5	163.8	(s)	0.0	0.0	82.1	307.8	201.0	508.8
1979	40.0	70.6	23.3	28.5	2.8	17.2	3.9	2.8	70.8	17.2	166.4	(s)	0.0	0.0	86.1	363.2	207.7	570.9
1980	33.6	86.6	20.5	24.1	2.2	16.8	3.5	2.7	53.2	17.2	140.2	(s)	0.0	0.0	86.2	346.6	209.5	556.2
1981	42.1	86.9	14.3	19.2	2.1	15.0	3.3	2.6	32.1	17.8	106.3	(s)	0.0	0.0	84.3	319.7	200.9	520.5
1982	40.7	81.5	14.7	18.5	1.6	13.9	3.0	2.3	33.5	14.3	101.7	(s)	0.0	0.0	77.0	301.0	185.0	486.0
1983	46.5	77.2	21.3	17.2	1.4	11.9	3.2	2.0	35.2	11.9	104.0	(s)	0.0	0.0	84.0	311.7	201.3	513.0
1984	49.3	82.2	25.5	17.6	1.0	10.3	3.4	4.9	48.0	14.6	125.4	(s)	0.0	0.0	90.3	347.3	210.2	557.5
1985	55.9	77.4	22.9	18.8	3.0	13.0	3.2	4.4	36.6	13.7	115.6	(s)	0.0	0.0	89.6	338.5	210.6	549.1
1986	63.5	74.9	30.1	26.7	2.5	12.3	3.1	4.3	37.5	R22.8	R139.3	(s)	0.0	0.0	92.4	R370.1	212.5	R582.5
1987	63.8	78.8	26.7	22.2	1.8	15.0	3.5	4.3	35.0	R25.3	R133.8	(s)	0.0	0.0	98.9	R375.3	226.0	R601.3
1988	63.5	77.1	29.8	21.6	2.6	12.7	3.4	3.9	34.1	R25.8	R133.9	(s)	0.0	0.0	103.1	R377.7	233.0	R610.7
1989	63.9	85.2	25.0	20.8	1.0	12.8	3.4	4.4	29.0	R24.9	R121.3	(s)	0.0	0.0	106.3	R376.8	238.4	R615.2
1990	74.5	88.9	27.9	17.0	0.8	13.4	3.5	4.2	32.6	R28.7	R128.2	Rf 0.4	f 65.0	f 0.0	106.7	Rf 463.8	R233.1	Rf 696.9
1991	67.8	87.6	25.4	17.3	1.0	16.2	3.2	4.5	33.0	R28.8	R129.3	R0.4	64.9	0.0	107.5	R457.5	R233.8	R691.3
1992	71.7	94.1	28.2	18.7	0.8	16.8	3.2	4.3	42.5	R32.2	R146.6	R0.4	68.2	0.0	111.0	R492.0	R236.9	R728.9
1993	62.3	95.5	30.8	18.3	0.9	18.7	3.3	4.4	46.4	R30.6	R153.4	R0.3	68.9	0.0	114.3	R494.6	R241.3	R735.9
1994	60.1	98.3	32.0	18.2	0.5	20.0	3.4	4.7	37.2	31.5	147.4	20.4	71.1	0.0	113.6	510.9	237.0	747.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, North Carolina

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	43	2	692	3,187	3,401	5	545	34,580	494	42,905	0	0	–	0	–
1965	9	4	714	4,458	3,649	17	578	41,551	581	51,548	0	0	–	0	–
1970	4	6	151	6,301	4,702	65	523	54,989	345	67,077	0	0	–	0	–
1971	2	6	201	6,164	4,740	80	529	57,331	154	69,199	0	0	–	0	–
1972	2	6	245	6,550	4,144	98	566	62,105	132	73,838	0	0	–	0	–
1973	1	6	285	9,031	3,914	110	575	64,638	181	78,734	0	0	–	0	–
1974	1	4	237	8,963	3,907	115	550	65,110	191	79,072	0	0	–	0	–
1975	(s)	4	219	8,207	3,809	108	498	65,739	263	78,844	0	0	–	0	–
1976	(s)	3	155	8,969	3,715	119	553	68,849	206	82,567	0	0	–	0	–
1977	(s)	2	228	10,012	4,087	137	634	71,270	119	86,487	0	0	–	0	–
1978	0	3	256	10,437	4,338	156	681	74,159	88	90,115	0	0	–	0	–
1979	0	5	237	13,090	4,332	74	713	70,168	130	88,743	0	0	–	0	–
1980	0	6	215	10,707	5,209	50	635	64,918	99	81,834	0	0	–	0	–
1981	0	6	268	10,598	5,319	139	609	65,227	421	82,581	0	0	–	0	–
1982	0	7	185	10,883	5,747	144	555	64,731	240	82,485	0	0	–	0	–
1983	0	6	188	12,716	6,404	171	581	66,151	41	86,253	0	0	–	0	–
1984	0	6	167	13,972	6,413	208	620	67,471	42	88,892	0	0	–	0	–
1985	0	5	174	13,617	6,668	183	578	69,375	97	90,691	0	0	–	0	–
1986	0	5	227	15,281	7,123	170	565	72,544	130	96,040	0	0	–	0	–
1987	0	5	218	15,519	7,749	125	638	74,999	648	99,897	0	0	–	0	–
1988	0	5	236	18,549	8,318	148	616	77,613	415	105,895	0	0	–	0	–
1989	0	6	231	15,910	7,689	153	631	76,278	670	101,562	0	0	–	0	–
1990	0	6	213	16,289	5,567	161	650	75,500	520	98,900	[e] 8,481	0	–	0	–
1991	0	6	170	15,605	4,384	186	581	75,787	746	97,460	6,723	0	–	0	–
1992	0	6	154	17,073	4,684	144	593	76,077	659	99,383	8,170	0	–	0	–
1993	0	6	118	17,403	4,897	154	604	80,503	428	104,107	9,118	0	–	0	–
1994	0	6	136	19,819	4,359	277	631	82,506	213	107,941	10,114	0	–	0	–
			Trillion Btu												
1960	1.1	2.5	3.5	18.6	18.2	(s)	3.3	181.6	3.1	228.4	0.0	0.0	232.0	0.0	232.0
1965	0.2	4.4	3.6	26.0	19.7	0.1	3.5	218.3	3.7	274.8	0.0	0.0	279.4	0.0	279.4
1970	0.1	6.3	0.8	36.7	25.7	0.2	3.2	288.9	2.2	357.7	0.0	0.0	364.0	0.0	364.0
1971	0.1	6.4	1.0	35.9	25.9	0.3	3.2	301.2	1.0	368.5	0.0	0.0	374.9	0.0	374.9
1972	(s)	6.2	1.2	38.2	22.6	0.4	3.4	326.2	0.8	392.9	0.0	0.0	399.1	0.0	399.1
1973	(s)	6.2	1.4	52.6	21.4	0.4	3.5	339.5	1.1	420.0	0.0	0.0	426.2	0.0	426.2
1974	(s)	4.6	1.2	52.2	21.3	0.4	3.3	342.0	1.2	421.7	0.0	0.0	426.4	0.0	426.4
1975	(s)	3.6	1.1	47.8	20.8	0.4	3.0	345.3	1.7	420.1	0.0	0.0	423.8	0.0	423.8
1976	(s)	2.8	0.8	52.2	20.3	0.4	3.4	361.7	1.3	440.1	0.0	0.0	443.0	0.0	443.0
1977	(s)	2.2	1.1	58.3	22.4	0.5	3.8	374.4	0.7	461.4	0.0	0.0	463.6	0.0	463.6
1978	0.0	2.7	1.3	60.8	23.8	0.6	4.1	389.6	0.6	480.7	0.0	0.0	483.4	0.0	483.4
1979	0.0	5.1	1.2	76.3	23.8	0.3	4.3	368.6	0.8	475.2	0.0	0.0	480.4	0.0	480.4
1980	0.0	5.9	1.1	62.4	28.7	0.2	3.8	341.0	0.6	437.8	0.0	0.0	443.7	0.0	443.7
1981	0.0	6.3	1.4	61.7	29.4	0.5	3.7	342.6	2.6	441.9	0.0	0.0	448.3	0.0	448.3
1982	0.0	6.9	0.9	63.4	31.8	0.5	3.4	340.0	1.5	441.6	0.0	0.0	448.4	0.0	448.4
1983	0.0	6.0	1.0	74.1	35.6	0.6	3.5	347.5	0.3	462.5	0.0	0.0	468.5	0.0	468.5
1984	0.0	5.8	0.8	81.4	35.5	0.7	3.8	354.4	0.3	476.9	0.0	0.0	482.7	0.0	482.7
1985	0.0	4.9	0.9	79.3	37.0	0.7	3.5	364.4	0.6	486.4	0.0	0.0	491.3	0.0	491.3
1986	0.0	5.2	1.1	89.0	39.7	0.6	3.4	381.1	0.8	515.8	0.0	0.0	521.0	0.0	521.0
1987	0.0	5.3	1.1	90.4	43.2	0.5	3.9	394.0	4.1	537.1	0.0	0.0	542.4	0.0	542.4
1988	0.0	5.4	1.2	108.0	46.4	0.5	3.7	407.7	2.6	570.2	0.0	0.0	575.6	0.0	575.6
1989	0.0	5.9	1.2	92.7	42.8	0.6	3.8	400.7	4.2	545.9	0.0	0.0	551.8	0.0	551.8
1990	0.0	6.5	1.1	94.9	30.8	0.6	3.9	396.6	3.3	531.2	[e] 0.6	0.0	[e] 537.7	0.0	[e] 537.7
1931	0.0	6.4	0.9	90.9	24.3	0.7	3.5	398.1	4.7	523.1	0.5	0.0	529.5	0.0	529.5
1992	0.0	6.7	0.8	99.5	26.0	0.5	3.6	399.6	4.1	534.1	0.6	0.0	540.7	0.0	540.7
1993	0.0	6.2	0.6	101.4	27.2	0.6	3.7	422.9	2.7	559.0	0.7	0.0	565.2	0.0	565.2
1994	0.0	6.0	0.7	115.4	24.5	1.0	3.8	433.4	1.3	580.2	0.8	0.0	586.2	0.0	586.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, North Carolina

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	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	0	–
1965	9,595	0	9,595	3	16	53	0	70	0	5,349	0	0	0	–
1970	17,709	0	17,709	21	445	1,432	0	1,877	0	4,363	0	0	0	–
1971	18,142	0	18,142	21	1,098	939	0	2,037	0	5,910	0	0	0	–
1972	18,763	0	18,763	17	4,111	883	0	4,995	0	6,428	0	0	0	–
1973	19,900	0	19,900	8	6,067	573	0	6,640	0	7,107	0	0	0	–
1974	20,014	0	20,014	1	4,812	601	0	5,413	0	6,887	0	0	0	–
1975	18,206	0	18,206	(s)	237	93	0	330	1,405	7,050	0	0	0	–
1976	20,981	0	20,981	(s)	626	228	0	853	2,511	5,650	0	0	0	–
1977	21,235	0	21,235	(s)	329	859	0	1,188	5,664	5,282	0	0	0	–
1978	18,998	0	18,998	(s)	1,316	639	0	1,955	9,917	5,478	0	0	0	–
1979	21,138	0	21,138	1	236	163	0	398	6,809	7,913	0	0	0	–
1980	23,920	0	23,920	2	(s)	561	0	561	5,775	5,483	0	0	0	–
1981	24,950	0	24,950	1	0	480	0	480	6,246	2,927	0	0	0	–
1982	23,540	0	23,540	(s)	1	330	0	331	9,126	5,405	0	0	0	–
1983	21,913	0	21,913	(s)	0	464	0	464	12,363	6,139	0	0	0	–
1984	20,306	0	20,306	(s)	1	335	0	336	20,232	6,366	0	0	0	–
1985	19,610	0	19,610	1	0	443	0	443	19,303	4,091	0	0	0	–
1986	20,542	0	20,542	1	0	349	0	349	20,286	2,518	0	0	0	–
1987	17,255	0	17,255	1	0	435	0	435	28,600	5,098	0	0	0	–
1988	17,766	0	17,766	1	0	458	0	458	29,146	2,890	0	0	0	–
1989	19,516	0	19,516	2	0	557	0	557	29,212	6,996	0	0	0	–
1990	18,005	0	18,005	2	0	373	0	373	25,905	6,957	0	0	0	–
1991	18,078	0	18,078	3	0	349	0	349	30,312	6,024	0	0	0	–
1992	21,011	0	21,011	3	0	314	0	314	22,754	5,835	0	0	0	–
1993	23,055	0	23,055	3	0	351	0	351	23,759	5,207	0	0	0	–
1994	20,624	0	20,624	1	0	447	0	447	32,346	5,606	0	0	0	–
	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	0.0	202.6
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	0.0	307.0
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	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	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	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	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	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	0.0	524.1
1976	505.2	0.0	505.2	(s)	3.9	1.3	0.0	5.3	27.7	58.6	0.0	0.0	0.0	596.9
1977	506.8	0.0	506.8	(s)	2.1	5.0	0.0	7.1	61.0	55.1	0.0	0.0	0.0	630.0
1978	457.0	0.0	457.0	(s)	8.3	3.7	0.0	12.0	108.5	56.8	0.0	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	0.0	674.0
1980	586.9	0.0	586.9	1.8	(s)	3.3	0.0	3.3	63.0	57.0	0.0	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	0.0	713.1
1982	577.6	0.0	577.6	0.1	(s)	1.9	0.0	1.9	101.1	56.5	0.0	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	0.0	747.6
1984	506.7	0.0	506.7	0.1	(s)	2.0	0.0	2.0	219.4	66.5	0.0	0.0	0.0	794.6
1985	489.8	0.0	489.8	0.6	0.0	2.6	0.0	2.6	208.7	42.7	0.0	0.0	0.0	744.4
1986	515.7	0.0	515.7	1.2	0.0	2.0	0.0	2.0	219.1	26.3	0.0	0.0	0.0	764.3
1987	433.1	0.0	433.1	1.2	0.0	2.5	0.0	2.5	308.2	53.1	0.0	0.0	0.0	798.1
1988	446.8	0.0	446.8	1.1	0.0	2.7	0.0	2.7	313.1	29.8	0.0	0.0	0.0	793.5
1989	489.1	0.0	489.1	1.7	0.0	3.2	0.0	3.2	313.3	72.2	0.0	0.0	0.0	879.5
1990	451.7	0.0	451.7	2.5	0.0	2.2	0.0	2.2	276.7	71.9	0.0	0.0	0.0	805.0
1991	452.2	0.0	452.2	3.1	0.0	2.0	0.0	2.0	325.6	62.4	0.0	0.0	0.0	845.2
1992	523.4	0.0	523.4	3.3	0.0	1.8	0.0	1.8	243.0	60.1	0.0	0.0	0.0	831.6
1993	574.8	0.0	574.8	3.0	0.0	2.0	0.0	2.0	253.8	53.5	0.0	0.0	0.0	887.1
1994	512.1	0.0	512.1	0.9	0.0	2.6	0.0	2.6	345.3	57.6	0.0	0.0	0.0	918.5

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, North Dakota

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
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	–
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	477	173	8,867	1,006	920	21,684	0	7,105	0	0	-64,392	–
1985	22,958	28	1,047	4	7,505	1,682	15	549	162	8,820	505	871	21,159	0	4,816	0	(s)	-58,231	–
1986	23,587	25	877	37	7,405	1,646	16	1,730	158	8,580	377	877	21,703	0	3,304	0	(s)	-54,289	–
1987	24,101	25	884	29	6,819	1,254	8	1,773	179	8,816	355	980	21,098	0	3,365	0	(s)	-56,153	–
1988	28,029	29	956	32	6,776	1,315	15	1,606	172	8,599	349	1,159	20,978	0	2,273	0	0	-67,478	–
1989	27,401	30	924	31	7,010	1,336	11	1,747	177	8,394	297	1,172	21,099	0	1,948	0	0	-62,329	–
1990	28,114	32	814	28	6,764	1,178	6	1,426	182	8,105	331	1,151	19,984	0	R NA	NA	NA	R -68,863	–
1991	28,597	40	778	28	7,413	964	10	2,025	163	8,253	306	1,008	20,948	0	R NA	NA	NA	R -69,672	–
1992	30,301	37	1,465	28	7,034	1,405	7	1,771	166	8,235	291	1,197	21,599	0	R NA	NA	NA	R -74,095	–
1993	30,302	40	915	62	7,443	1,254	10	1,369	169	8,479	399	1,124	21,224	0	R NA	NA	NA	R -75,230	–
1994	30,363	43	1,252	43	8,338	846	7	1,316	176	8,390	343	1,175	21,887	0	NA	NA	NA	-74,106	–
			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
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
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	1.7	1.1	46.6	6.3	5.6	121.0	0.0	74.2	0.0	0.0	-219.7	263.7
1985	302.0	29.8	6.9	(s)	43.7	9.1	0.1	2.0	1.0	46.3	3.2	5.4	117.7	0.0	50.3	0.0	(s)	-198.7	301.1
1986	310.9	26.6	5.8	0.2	43.1	8.9	0.1	6.3	1.0	45.1	2.4	5.5	118.3	0.0	34.5	0.0	(s)	-185.2	305.0
1987	319.3	26.0	5.9	0.1	39.7	6.8	(s)	6.5	1.1	46.3	2.2	6.0	114.7	0.0	35.1	0.0	(s)	-191.6	303.5
1988	369.8	30.2	6.3	0.2	39.5	7.1	0.1	5.9	1.0	45.2	2.2	7.0	114.5	0.0	23.5	0.0	0.0	-230.2	307.7
1989	361.7	31.6	6.1	0.2	40.8	7.2	0.1	6.4	1.1	44.1	1.9	7.1	114.9	0.0	20.1	0.0	0.0	-212.7	315.7
1990	374.6	33.5	5.4	0.1	39.4	6.4	(s)	5.2	1.1	42.6	2.1	6.9	109.2	0.0	R 24.1	I 2.1	I (s)	-235.0	R 308.5
1991	379.2	41.6	5.2	0.1	43.2	5.2	0.1	7.3	1.0	43.4	1.9	6.1	113.5	0.0	R 25.1	2.1	(s)	-237.7	R 321.3
1992	399.1	38.2	9.7	0.1	41.0	7.6	(s)	6.4	1.0	43.3	1.8	7.2	118.2	0.0	R 23.3	2.2	(s)	-252.8	R 329.1
1993	399.7	42.4	6.1	0.3	43.4	6.8	0.1	4.9	1.0	44.5	2.5	6.8	116.4	0.0	R 29.0	1.9	(s)	-256.7	R 332.5
1994	402.4	45.3	8.3	0.2	48.6	4.6	(s)	4.8	1.1	44.1	2.2	7.1	120.9	0.0	24.2	2.1	(s)	-252.8	344.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

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

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

Table 222. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, North Dakota

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	195	0	195	4	874	860	787	2,521	0	0	728	–	1,810	–
1965	108	0	108	7	1,269	40	758	2,067	0	0	911	–	2,176	–
1970	50	0	50	8	1,103	190	1,283	2,576	0	0	1,399	–	3,391	–
1971	43	0	43	9	891	184	1,261	2,336	0	0	1,472	–	3,558	–
1972	36	0	36	10	1,016	139	1,318	2,473	0	0	1,598	–	3,847	–
1973	35	0	35	8	811	91	1,196	2,098	0	0	1,623	–	3,885	–
1974	59	0	59	10	809	23	1,172	2,004	0	0	1,739	–	4,240	–
1975	53	0	53	10	776	21	1,181	1,978	0	0	1,901	–	4,584	–
1976	45	0	45	10	655	27	1,268	1,949	0	0	2,050	–	4,938	–
1977	65	0	65	10	441	24	1,183	1,647	0	0	2,148	–	5,188	–
1978	95	0	95	12	448	17	1,355	1,820	0	0	2,399	–	5,869	–
1979	65	0	65	12	1,596	0	772	2,368	0	0	2,516	–	6,072	–
1980	50	0	50	10	1,173	5	511	1,689	0	0	2,456	–	5,972	–
1981	59	0	59	9	1,065	14	653	1,733	0	0	2,651	–	6,317	–
1982	75	0	75	11	912	22	376	1,310	0	0	2,900	–	6,965	–
1983	83	0	83	10	915	18	447	1,380	0	0	2,702	–	6,472	–
1984	88	0	88	10	988	18	129	1,135	0	0	2,953	–	6,874	–
1985	69	0	69	10	1,119	14	169	1,302	0	0	3,012	–	7,075	–
1986	62	0	62	9	1,056	8	623	1,687	0	0	2,954	–	6,795	–
1987	36	0	36	8	895	6	637	1,538	0	0	2,788	–	6,370	–
1988	49	(s)	49	9	965	8	751	1,724	0	0	3,050	–	6,896	–
1989	61	(s)	61	10	913	10	838	1,761	0	0	3,060	–	6,863	–
1990	47	0	47	9	845	5	653	1,502	[e] 84	[e] (s)	2,954	–	R 6,455	–
1991	47	(s)	47	10	902	7	976	1,885	88	(s)	3,096	–	R 6,732	–
1992	42	0	42	10	642	6	1,081	1,729	93	(s)	3,020	–	R 6,447	–
1993	48	0	48	11	751	8	762	1,521	77	(s)	3,209	–	R 6,777	–
1994	49	0	49	11	733	6	693	1,432	76	(s)	3,243	–	6,763	–
							Trillion Btu							
1960	3.0	0.0	3.0	4.0	5.1	4.9	3.2	13.1	0.0	0.0	2.5	22.6	6.2	28.8
1965	1.7	0.0	1.7	6.6	7.4	0.2	3.0	10.7	0.0	0.0	3.1	22.0	7.4	29.5
1970	0.7	0.0	0.7	8.4	6.4	1.1	4.8	12.4	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	8.6	33.2	20.7	53.9
1980	0.7	0.0	0.7	10.1	6.8	(s)	1.9	8.7	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	9.2	27.5	22.1	49.6
1984	1.1	0.0	1.1	10.5	5.8	0.1	0.5	6.3	0.0	0.0	10.1	28.0	23.5	51.5
1985	0.9	0.0	0.9	11.0	6.5	0.1	0.6	7.2	0.0	0.0	10.3	29.4	24.1	53.5
1986	0.8	0.0	0.8	9.8	6.2	(s)	2.3	8.5	0.0	0.0	10.1	29.1	23.2	52.3
1987	0.5	0.0	0.5	8.5	5.2	(s)	2.3	7.6	0.0	0.0	9.5	26.0	21.7	47.8
1988	0.6	(s)	0.6	9.7	5.6	(s)	2.7	8.4	0.0	0.0	10.4	29.1	23.5	52.6
1989	0.8	(s)	0.8	10.3	5.3	0.1	3.1	8.5	0.0	0.0	10.4	30.0	23.4	53.4
1990	0.7	0.0	0.7	9.5	4.9	(s)	2.4	7.3	[e] 1.7	[e] (s)	10.1	R [e] 29.2	22.0	R [e] 51.2
1991	0.7	(s)	0.7	10.8	5.3	(s)	3.5	8.8	1.8	(s)	10.6	R 32.6	23.0	R 55.6
1992	0.6	0.0	0.6	10.1	3.7	(s)	3.9	7.7	1.9	(s)	10.3	R 30.6	22.0	R 52.6
1993	0.7	0.0	0.7	11.4	4.4	(s)	2.7	7.2	1.5	(s)	10.9	R 31.7	23.1	R 54.9
1994	0.7	0.0	0.7	11.3	4.3	(s)	2.5	6.8	1.5	(s)	11.1	31.4	23.1	54.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 223. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, North Dakota

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	362	0	362	3	198	0	139	32	73	442	304	–	757	–
1965	201	0	201	5	288	0	134	179	209	809	443	–	1,058	–
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	(s)	79	85	139	725	1,264	–	3,029	–
1984	163	0	163	10	456	(s)	23	20	93	592	1,950	–	4,540	–
1985	128	0	128	10	484	(s)	30	69	64	647	2,026	–	4,760	–
1986	114	0	114	9	314	(s)	110	71	78	573	2,005	–	4,611	–
1987	67	0	67	8	242	1	112	73	33	462	1,970	–	4,502	–
1988	90	(s)	90	10	154	1	133	73	46	407	1,987	–	4,491	–
1989	114	(s)	114	11	186	1	148	61	27	423	1,989	–	4,460	–
1990	88	0	88	10	151	(s)	115	70	23	359	2,300	–	R 5,026	–
1991	88	(s)	88	11	160	1	172	44	8	384	2,397	–	R 5,211	–
1992	79	0	79	10	157	(s)	191	37	12	397	2,273	–	R 4,852	–
1993	89	0	89	11	143	1	134	10	16	305	2,318	–	R 4,896	–
1994	90	0	90	11	192	1	122	10	15	340	2,427	–	5,061	–
	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
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
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	(s)	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	(s)	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	(s)	0.1	0.1	0.6	3.4	6.7	22.7	15.5	38.1
1985	1.7	0.0	1.7	10.7	2.8	(s)	0.1	0.4	0.4	3.7	6.9	23.0	16.2	39.3
1986	1.5	0.0	1.5	9.5	1.8	(s)	0.4	0.4	0.5	3.1	6.8	20.9	15.7	36.6
1987	0.9	0.0	0.9	8.3	1.4	(s)	0.4	0.4	0.2	2.4	6.7	18.3	15.4	33.7
1988	1.2	(s)	1.2	10.4	0.9	(s)	0.5	0.4	0.3	2.1	6.8	20.4	15.3	35.7
1989	1.5	(s)	1.5	11.1	1.1	(s)	0.5	0.3	0.2	2.1	6.8	21.5	15.2	36.7
1990	1.2	0.0	1.2	10.6	0.9	(s)	0.4	0.4	0.1	1.8	7.8	21.4	17.1	38.6
1991	1.2	(s)	1.2	11.2	0.9	(s)	0.6	0.2	(s)	1.8	8.2	22.5	17.8	40.2
1992	1.1	0.0	1.1	10.2	0.9	(s)	0.7	0.2	0.1	1.9	7.8	21.0	R 16.6	37.5
1993	1.3	0.0	1.3	11.3	0.8	(s)	0.5	0.1	0.1	1.5	7.9	22.0	16.7	38.7
1994	1.3	0.0	1.3	11.4	1.1	(s)	0.4	0.1	0.1	1.7	8.3	22.8	17.3	40.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, North Dakota

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	521	20	1,123	2,104	44	257	44	2,927	530	803	7,832	0	0	0	121	–	300	–
1965	444	21	795	2,696	12	240	20	2,533	632	925	7,853	0	0	0	241	–	576	–
1970	523	16	1,402	2,174	55	206	28	2,315	558	985	7,723	0	0	0	720	–	1,745	–
1971	439	16	1,716	2,080	55	224	20	2,437	352	954	7,838	0	0	0	849	–	2,053	–
1972	435	16	1,211	2,091	46	278	21	2,353	581	964	7,545	0	0	0	1,023	–	2,463	–
1973	342	14	1,514	1,701	45	198	54	2,346	665	1,043	7,566	0	0	0	1,222	–	2,925	–
1974	326	14	1,335	1,614	80	204	52	2,262	621	1,069	7,237	0	0	0	1,210	–	2,951	–
1975	570	14	1,054	1,613	49	189	21	2,193	577	1,071	6,767	0	0	0	1,007	–	2,428	–
1976	372	19	1,095	1,296	35	168	23	2,096	541	1,078	6,334	0	0	0	1,049	–	2,526	–
1977	484	16	911	999	48	199	26	1,956	536	1,075	5,751	0	0	0	1,175	–	2,837	–
1978	688	15	1,143	991	59	360	28	1,924	465	1,127	6,098	0	0	0	1,418	–	3,469	–
1979	774	5	919	2,844	0	797	29	1,824	375	1,174	7,962	0	0	0	1,572	–	3,794	–
1980	585	2	753	2,460	10	690	26	1,540	315	1,127	6,921	0	0	0	1,576	–	3,832	–
1981	491	16	745	2,973	0	563	25	1,164	1,058	699	7,226	0	0	0	1,677	–	3,997	–
1982	664	6	761	2,816	0	842	23	1,305	607	725	7,079	0	0	0	1,736	–	4,171	–
1983	566	6	1,090	2,371	2	737	24	1,147	1,368	906	7,645	0	0	0	1,773	–	4,249	–
1984	2,452	10	996	2,561	3	306	25	843	913	920	6,566	0	0	0	1,839	–	4,281	–
1985	5,407	7	1,047	2,783	1	340	24	1,080	440	871	6,585	0	0	0	1,988	–	4,672	–
1986	6,120	7	877	3,084	8	973	23	924	297	877	7,065	0	0	0	1,890	–	4,348	–
1987	6,563	8	884	2,574	1	1,010	26	1,025	322	980	6,822	0	0	0	1,839	–	4,202	–
1988	6,204	8	956	2,466	6	706	25	897	303	1,159	6,518	0	0	0	2,070	–	4,680	–
1989	6,688	8	924	2,782	1	743	26	819	269	1,172	6,736	0	0	0	2,013	–	4,514	–
1990	6,400	11	814	2,596	1	644	27	795	308	1,151	6,335	R[f] NA	[f] NA	[f] NA	1,760	–	R 3,845	–
1991	6,287	17	778	3,063	2	862	24	784	298	1,008	6,820	R NA	NA	NA	1,762	–	R 3,831	–
1992	6,988	14	1,465	2,940	(s)	483	24	720	279	1,197	7,108	R NA	NA	NA	1,835	–	R 3,918	–
1993	6,875	14	915	2,952	1	455	25	674	383	1,124	6,528	R NA	NA	NA	1,905	–	R 4,022	–
1994	6,976	17	1,252	3,234	1	480	26	699	328	1,175	7,195	NA	NA	NA	2,011	–	4,194	–
			Trillion Btu															
1960	7.7	20.3	7.5	12.3	0.2	1.0	0.3	15.4	3.3	4.8	44.8	0.0	0.0	0.0	0.4	73.3	1.0	74.3
1965	6.5	20.9	5.3	15.7	0.1	1.0	0.1	13.3	4.0	5.6	45.0	0.0	0.0	0.0	0.8	73.2	2.0	75.1
1970	7.2	16.3	9.3	12.7	0.3	0.8	0.2	12.2	3.5	5.9	44.8	0.0	0.0	0.0	2.5	70.8	6.0	76.8
1971	6.0	16.1	11.4	12.1	0.3	0.8	0.1	12.8	2.2	5.7	45.5	0.0	0.0	0.0	2.9	70.5	7.0	77.5
1972	5.9	16.1	8.0	12.2	0.3	1.0	0.1	12.4	3.7	5.8	43.4	0.0	0.0	0.0	3.5	69.0	8.4	77.4
1973	4.7	14.3	10.0	9.9	0.3	0.7	0.3	12.3	4.2	6.3	44.1	0.0	0.0	0.0	4.2	67.2	10.0	77.2
1974	4.4	14.3	8.9	9.4	0.5	0.8	0.3	11.9	3.9	6.4	42.0	0.0	0.0	0.0	4.1	64.8	10.1	74.9
1975	7.4	14.0	7.0	9.4	0.3	0.7	0.1	11.5	3.6	6.4	39.1	0.0	0.0	0.0	3.4	63.9	8.3	72.2
1976	4.9	18.7	7.3	7.6	0.2	0.6	0.1	11.0	3.4	6.5	36.7	0.0	0.0	0.0	3.6	63.8	8.6	72.4
1977	6.4	16.1	6.0	5.8	0.3	0.7	0.2	10.3	3.4	6.5	33.1	0.0	0.0	0.0	4.0	59.6	9.7	69.3
1978	9.1	14.7	7.6	5.8	0.3	1.3	0.2	10.1	2.9	6.8	35.0	0.0	0.0	0.0	4.8	63.6	11.8	75.4
1979	10.2	5.5	6.1	16.6	0.0	2.9	0.2	9.6	2.4	7.1	44.8	0.0	0.0	0.0	5.4	65.8	12.9	78.8
1980	7.7	2.1	5.0	14.3	0.1	2.5	0.2	8.1	2.0	6.8	38.9	0.0	0.0	0.0	5.4	54.1	13.1	67.1
1981	6.5	16.5	4.9	17.3	0.0	2.1	0.2	6.1	6.7	4.4	41.6	0.0	0.0	0.0	5.7	70.3	13.6	83.9
1982	8.8	5.7	5.0	16.4	0.0	3.0	0.1	6.9	3.8	4.5	39.8	0.0	0.0	0.0	5.9	60.2	14.2	74.4
1983	7.4	6.2	7.2	13.8	(s)	2.7	0.1	6.0	8.6	5.5	44.0	0.0	0.0	0.0	6.1	63.7	14.5	78.2
1984	32.3	10.2	6.6	14.9	(s)	1.1	0.2	4.4	5.7	5.6	38.6	0.0	0.0	0.0	6.3	87.3	14.6	101.9
1985	71.2	7.3	6.9	16.2	(s)	1.2	0.1	5.7	2.8	5.4	38.4	0.0	0.0	0.0	6.8	123.6	15.9	139.6
1986	81.0	7.0	5.8	18.0	(s)	3.5	0.1	4.9	1.9	5.5	39.7	0.0	0.0	0.0	6.4	134.2	14.8	149.1
1987	87.8	8.3	5.9	15.0	(s)	3.7	0.2	5.4	2.0	6.0	38.1	0.0	0.0	0.0	6.3	140.4	14.3	154.8
1988	82.4	8.4	6.3	14.4	(s)	2.6	0.2	4.7	1.9	7.0	37.1	0.0	0.0	0.0	7.1	134.9	16.0	150.9
1989	89.1	8.3	6.1	16.2	(s)	2.7	0.2	4.3	1.7	7.1	38.3	0.0	0.0	0.0	6.9	142.6	15.4	158.0
1990	86.3	11.7	5.4	15.1	(s)	2.3	0.2	4.2	1.9	6.9	36.1	[f] 0.0	[f] 0.0	[f] 0.0	6.0	[f] 140.1	13.1	[f] 153.2
1991	84.3	17.5	5.2	17.8	(s)	3.1	0.1	4.1	1.9	6.1	38.4	0.0	0.0	0.0	6.0	146.2	13.1	159.3
1992	93.1	15.1	9.7	17.1	(s)	1.8	0.1	3.8	1.8	7.2	41.5	0.0	0.0	0.0	6.3	155.9	13.4	169.3
1993	91.6	15.2	6.1	17.2	(s)	1.6	0.1	3.5	2.4	6.8	37.8	0.0	0.0	0.0	6.5	151.2	13.7	164.9
1994	93.8	18.1	8.3	18.8	(s)	1.7	0.2	3.7	2.1	7.1	41.9	0.0	0.1	0.0	6.9	160.9	14.3	175.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, North Dakota

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	9	(s)	66	592	2,103	29	158	4,760	69	7,778	0	0	–	0	–
1965	1	(s)	165	916	2,069	22	147	5,499	25	8,843	0	0	–	0	–
1970	1	(s)	95	1,441	2,074	3	138	6,300	41	10,092	0	0	–	0	–
1971	1	(s)	113	1,744	2,225	3	128	6,586	18	10,817	0	0	–	0	–
1972	(s)	(s)	96	1,861	2,044	3	137	7,109	0	11,249	0	0	–	0	–
1973	(s)	(s)	93	2,050	1,857	2	105	7,538	0	11,646	0	0	–	0	–
1974	(s)	(s)	92	1,812	1,941	2	100	7,260	0	11,207	0	0	–	0	–
1975	(s)	(s)	85	1,880	1,855	2	137	7,756	0	11,715	0	0	–	0	–
1976	(s)	(s)	85	1,962	1,800	3	152	8,236	0	12,239	0	0	–	0	–
1977	(s)	(s)	79	2,536	1,905	4	151	8,398	0	13,073	0	0	–	0	–
1978	0	(s)	97	2,662	1,837	7	163	8,777	0	13,542	0	0	–	0	–
1979	0	(s)	102	3,376	1,824	7	170	7,899	44	13,422	0	0	–	0	–
1980	0	(s)	64	3,795	1,702	12	151	7,553	0	13,278	0	0	–	0	–
1981	0	(s)	47	3,168	1,629	120	145	8,280	0	13,390	0	0	–	0	–
1982	0	(s)	35	3,222	1,583	162	132	7,953	313	13,401	0	0	–	0	–
1983	0	1	24	3,060	1,495	193	139	7,786	(s)	12,696	0	0	–	0	–
1984	0	(s)	31	3,318	1,707	20	148	8,004	(s)	13,228	0	0	–	0	–
1985	0	1	4	3,046	1,682	11	138	7,671	0	12,551	0	0	–	0	–
1986	0	(s)	37	2,894	1,646	23	135	7,584	2	12,320	0	0	–	0	–
1987	0	1	29	3,058	1,254	14	152	7,718	0	12,226	0	0	–	0	–
1988	0	2	32	3,145	1,315	16	147	7,629	0	12,283	0	0	–	0	–
1989	0	2	31	3,056	1,336	18	151	7,514	0	12,107	0	0	–	0	–
1990	0	2	28	3,116	1,178	14	155	7,240	0	11,732	[e] 4,942	0	–	0	–
1991	0	2	28	3,219	964	15	139	7,425	0	11,790	3,918	0	–	0	–
1992	0	3	28	3,238	1,405	16	141	7,479	0	12,307	4,761	0	–	0	–
1993	0	4	62	3,527	1,254	17	144	7,795	0	12,801	5,314	0	–	0	–
1994	0	4	43	4,067	846	20	151	7,681	0	12,808	5,894	0	–	0	–
			Trillion Btu												
1960	0.1	(s)	0.3	3.5	11.3	0.1	1.0	25.0	0.4	41.6	0.0	0.0	41.7	0.0	41.7
1965	(s)	(s)	0.8	5.3	11.1	0.1	0.9	28.9	0.2	47.3	0.0	0.0	47.3	0.0	47.3
1970	(s)	(s)	0.5	8.4	11.2	(s)	0.8	33.1	0.3	54.2	0.0	0.0	54.3	0.0	54.3
1971	(s)	(s)	0.6	10.2	12.0	(s)	0.8	34.6	0.1	58.2	0.0	0.0	58.3	0.0	58.3
1972	(s)	0.3	0.5	10.8	11.0	(s)	0.8	37.3	0.0	60.5	0.0	0.0	60.8	0.0	60.8
1973	(s)	(s)	0.5	11.9	10.0	(s)	0.6	39.6	0.0	62.7	0.0	0.0	62.7	0.0	62.7
1974	(s)	(s)	0.5	10.6	10.5	(s)	0.6	38.1	0.0	60.3	0.0	0.0	60.3	0.0	60.3
1975	(s)	0.1	0.4	11.0	10.0	(s)	0.8	40.7	0.0	63.0	0.0	0.0	63.1	0.0	63.1
1976	(s)	0.1	0.4	11.4	9.7	(s)	0.9	43.3	0.0	65.8	0.0	0.0	65.9	0.0	65.9
1977	(s)	0.1	0.4	14.8	10.3	(s)	0.9	44.1	0.0	70.5	0.0	0.0	70.6	0.0	70.6
1978	0.0	0.1	0.5	15.5	9.9	(s)	1.0	46.1	0.0	73.1	0.0	0.0	73.2	0.0	73.2
1979	0.0	0.1	0.5	19.7	9.9	(s)	1.0	41.5	0.3	72.9	0.0	0.0	73.0	0.0	73.0
1980	0.0	0.2	0.3	22.1	9.2	(s)	0.9	39.7	0.0	72.3	0.0	0.0	72.5	0.0	72.5
1981	0.0	0.2	0.2	18.5	8.8	0.4	0.9	43.5	0.0	72.3	0.0	0.0	72.5	0.0	72.5
1982	0.0	0.5	0.2	18.8	8.5	0.6	0.8	41.8	2.0	72.6	0.0	0.0	73.1	0.0	73.1
1983	0.0	0.7	0.1	17.8	8.1	0.7	0.8	40.9	(s)	68.4	0.0	0.0	69.1	0.0	69.1
1984	0.0	0.5	0.2	19.3	9.2	0.1	0.9	42.0	(s)	71.7	0.0	0.0	72.2	0.0	72.2
1985	0.0	0.7	(s)	17.7	9.1	(s)	0.8	40.3	0.0	68.0	0.0	0.0	68.7	0.0	68.7
1986	0.0	0.3	0.2	16.9	8.9	0.1	0.8	39.8	(s)	66.7	0.0	0.0	67.0	0.0	67.0
1987	0.0	1.0	0.1	17.8	6.8	0.1	0.9	40.5	0.0	66.3	0.0	0.0	67.3	0.0	67.3
1988	0.0	1.8	0.2	18.3	7.1	0.1	0.9	40.1	0.0	66.6	0.0	0.0	68.4	0.0	68.4
1989	0.0	1.9	0.2	17.8	7.2	0.1	0.9	39.5	0.0	65.6	0.0	0.0	67.5	0.0	67.5
1990	0.0	1.8	0.1	18.2	6.4	0.1	0.9	38.0	0.0	63.7	[e] 0.4	0.0	[e] 65.5	0.0	[e] 65.5
1991	0.0	2.1	0.1	18.8	5.2	0.1	0.8	39.0	0.0	64.0	0.3	0.0	66.1	0.0	66.1
1992	0.0	2.9	0.1	18.9	7.6	0.1	0.9	39.3	0.0	66.8	0.4	0.0	69.7	0.0	69.7
1993	0.0	4.5	0.3	20.5	6.8	0.1	0.9	40.9	0.0	69.5	0.4	0.0	74.0	0.0	74.0
1994	0.0	4.5	0.2	23.7	4.6	0.1	0.9	40.4	0.0	69.9	0.5	0.0	74.4	0.0	74.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, North Dakota

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	1,014	0	1,014	(s)	15	4	0	20	0	1,060	0	0	0	–
1965	964	0	964	(s)	2	1	0	3	0	2,497	0	0	0	–
1970	3,519	0	3,519	(s)	25	7	0	32	0	3,108	0	0	0	–
1971	4,486	0	4,486	(s)	213	5	0	219	0	3,919	0	0	0	–
1972	4,896	0	4,896	(s)	29	8	0	38	0	3,939	0	0	0	–
1973	4,830	0	4,830	(s)	10	4	0	14	0	3,367	0	0	0	–
1974	5,200	0	5,200	(s)	19	2	0	21	0	4,084	0	0	0	–
1975	4,377	0	4,377	(s)	18	2	0	20	0	4,511	0	0	0	–
1976	6,423	0	6,423	(s)	30	18	0	47	0	3,720	0	0	0	–
1977	7,404	0	7,404	(s)	75	21	0	96	0	1,569	0	0	0	–
1978	8,746	0	8,746	(s)	47	26	0	74	0	5,214	0	0	0	–
1979	10,138	0	10,138	(s)	61	145	0	207	0	6,009	0	0	0	–
1980	11,618	0	11,618	(s)	0	68	0	68	0	5,364	0	0	0	–
1981	12,358	0	12,358	(s)	0	91	0	91	0	5,265	0	0	0	–
1982	14,100	0	14,100	(s)	0	88	0	88	0	7,155	0	0	0	–
1983	15,386	0	15,386	(s)	0	98	0	98	0	8,029	0	0	0	–
1984	16,953	0	16,953	(s)	0	163	0	163	0	7,105	0	0	0	–
1985	17,354	0	17,354	(s)	0	74	0	74	0	4,818	0	0	(s)	–
1986	17,291	0	17,291	(s)	0	57	0	57	0	3,304	0	0	(s)	–
1987	17,434	0	17,434	(s)	0	50	0	50	0	3,365	0	0	(s)	–
1988	21,686	0	21,686	(s)	0	46	0	46	0	2,273	0	0	0	–
1989	20,538	0	20,538	(s)	0	72	0	72	0	1,948	0	0	0	–
1990	21,579	0	21,579	(s)	0	57	0	57	0	R2,334	0	0	0	–
1991	22,174	0	22,174	(s)	0	69	0	69	0	R2,426	0	0	0	–
1992	23,192	0	23,192	(s)	0	58	0	58	0	R2,259	0	0	0	–
1993	23,290	0	23,290	(s)	0	69	0	69	0	R2,817	0	0	0	–
1994	23,248	0	23,248	(s)	0	112	0	112	0	2,353	0	0	0	–
	Trillion Btu													
1960	14.0	0.0	14.0	0.1	0.1	(s)	0.0	0.1	0.0	11.4	0.0	0.0	0.0	25.7
1965	13.4	0.0	13.4	(s)	(s)	(s)	0.0	(s)	0.0	26.1	0.0	0.0	0.0	39.6
1970	48.1	0.0	48.1	0.4	0.2	(s)	0.0	0.2	0.0	32.6	0.0	0.0	0.0	81.3
1971	59.9	0.0	59.9	0.4	1.3	(s)	0.0	1.4	0.0	41.1	0.0	0.0	0.0	102.7
1972	65.4	0.0	65.4	0.3	0.2	(s)	0.0	0.2	0.0	40.9	0.0	0.0	0.0	106.8
1973	65.0	0.0	65.0	0.4	0.1	(s)	0.0	0.1	0.0	35.0	0.0	0.0	0.0	100.4
1974	69.6	0.0	69.6	0.1	0.1	(s)	0.0	0.1	0.0	42.6	0.0	0.0	0.0	112.4
1975	58.4	0.0	58.4	0.2	0.1	(s)	0.0	0.1	0.0	46.9	0.0	0.0	0.0	105.6
1976	84.9	0.0	84.9	(s)	0.2	0.1	0.0	0.3	0.0	38.6	0.0	0.0	0.0	123.8
1977	98.4	0.0	98.4	(s)	0.5	0.1	0.0	0.6	0.0	16.4	0.0	0.0	0.0	115.4
1978	117.1	0.0	117.1	(s)	0.3	0.2	0.0	0.5	0.0	54.0	0.0	0.0	0.0	171.6
1979	135.3	0.0	135.3	(s)	0.4	0.8	0.0	1.2	0.0	62.2	0.0	0.0	0.0	198.8
1980	153.8	0.0	153.8	(s)	0.0	0.4	0.0	0.4	0.0	55.7	0.0	0.0	0.0	209.9
1981	163.7	0.0	163.7	(s)	0.0	0.5	0.0	0.5	0.0	55.0	0.0	0.0	0.0	219.3
1982	187.3	0.0	187.3	(s)	0.0	0.5	0.0	0.5	0.0	74.8	0.0	0.0	0.0	262.7
1983	202.9	0.0	202.9	(s)	0.0	0.6	0.0	0.6	0.0	84.5	0.0	0.0	0.0	287.9
1984	221.1	0.0	221.1	(s)	0.0	0.9	0.0	0.9	0.0	74.2	0.0	0.0	0.0	296.3
1985	228.2	0.0	228.2	(s)	0.0	0.4	0.0	0.4	0.0	50.3	0.0	0.0	(s)	279.0
1986	227.5	0.0	227.5	(s)	0.0	0.3	0.0	0.3	0.0	34.5	0.0	0.0	(s)	262.4
1987	230.2	0.0	230.2	(s)	0.0	0.3	0.0	0.3	0.0	35.1	0.0	0.0	(s)	265.5
1988	285.6	0.0	285.6	(s)	0.0	0.3	0.0	0.3	0.0	23.5	0.0	0.0	0.0	309.3
1989	270.3	0.0	270.3	(s)	0.0	0.4	0.0	0.4	0.0	20.1	0.0	0.0	0.0	290.8
1990	286.4	0.0	286.4	(s)	0.0	0.3	0.0	0.3	0.0	R24.1	0.0	0.0	0.0	311.2
1991	293.0	0.0	293.0	(s)	0.0	0.4	0.0	0.4	0.0	R25.1	0.0	0.0	0.0	316.3
1992	304.2	0.0	304.2	(s)	0.0	0.3	0.0	0.3	0.0	R23.3	0.0	0.0	0.0	329.1
1993	306.0	0.0	306.0	(s)	0.0	0.4	0.0	0.4	0.0	R29.0	0.0	0.0	0.0	335.6
1994	306.5	0.0	306.5	(s)	0.0	0.7	0.0	0.7	0.0	24.2	0.0	0.0	0.0	333.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Ohio

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	9,158	143,617	0	20	8	0	49,779	–
1965	54,023	880	7,344	2,125	27,663	3,075	6,328	5,441	3,312	86,271	10,963	14,615	167,137	22	11	7	0	52,423	–
1970	66,863	1,053	9,017	712	34,458	5,857	6,494	8,712	3,631	106,296	6,445	16,283	197,905	0	7	5	0	49,736	–
1971	64,537	1,087	8,555	682	35,209	6,448	6,079	8,988	3,535	108,167	5,254	15,605	198,522	0	9	4	0	45,590	–
1972	66,683	1,148	9,125	628	41,416	6,961	4,991	10,148	3,785	113,594	5,849	16,760	213,277	0	9	4	0	58,067	–
1973	68,942	1,104	10,867	625	41,933	6,967	4,843	10,292	4,266	119,261	7,119	17,840	224,014	0	8	3	0	63,277	–
1974	71,570	1,087	9,099	593	41,270	5,812	4,054	10,222	4,086	117,606	8,398	17,339	218,479	0	10	3	0	63,611	–
1975	70,764	957	8,749	491	42,168	6,039	3,600	9,910	3,609	118,808	10,399	16,834	220,607	0	7	(s)	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	18,888	238,031	0	8	1	0	55,802	–
1977	73,227	847	9,210	467	52,239	6,882	5,069	10,507	3,818	126,130	15,251	20,495	250,067	468	6	1	0	75,372	–
1978	71,124	930	9,608	455	54,670	7,075	4,525	11,423	4,100	126,987	14,109	21,727	254,678	2,425	5	1	0	72,239	–
1979	72,252	898	8,967	442	45,290	6,815	3,573	46,635	4,290	121,618	11,316	22,920	271,867	3,163	4	1	0	55,948	–
1980	64,914	897	7,324	473	48,833	7,219	2,452	44,263	3,821	113,232	6,918	22,807	257,344	2,119	6	1	0	47,144	–
1981	65,595	870	6,903	408	45,122	5,745	2,751	39,689	3,664	110,193	5,846	17,038	237,358	4,407	6	(s)	0	43,633	–
1982	58,953	814	7,364	393	40,393	5,485	2,563	40,793	3,341	105,904	2,444	14,770	223,450	3,226	5	(s)	0	24,499	–
1983	55,301	747	6,744	397	33,347	5,821	1,895	41,043	3,498	107,106	4,093	15,402	219,346	4,904	135	9	0	41,134	–
1984	57,049	785	6,881	322	36,139	6,832	1,971	29,239	3,730	109,043	2,800	17,357	214,315	4,312	164	203	0	77,273	–
1985	57,979	733	6,339	330	35,980	7,204	1,709	27,919	3,477	108,737	2,322	15,991	210,008	1,943	175	265	0	84,049	–
1986	59,324	717	7,341	375	35,839	9,924	1,566	14,652	3,399	111,935	2,313	R 16,813	R 204,159	24	172	279	0	73,779	–
1987	59,350	715	9,006	239	33,518	10,800	1,458	15,912	3,843	115,823	2,079	R 18,825	R 211,503	7,513	225	352	0	69,918	–
1988	61,096	805	6,356	331	37,060	9,218	1,743	11,025	3,706	117,047	2,814	R 19,580	R 208,881	8,455	187	351	0	66,907	–
1989	61,016	814	10,622	250	38,238	10,405	1,337	13,213	3,801	116,158	2,316	R 19,511	R 215,852	12,661	130	316	0	65,819	–
1990	59,205	747	9,880	239	36,666	10,602	901	10,994	3,912	109,852	1,677	R 20,528	R 205,251	10,664	R I NA	I NA	I NA	R 77,457	–
1991	58,578	766	8,993	214	35,684	10,400	971	11,120	3,500	109,886	1,345	R 18,722	R 200,835	14,833	R NA	NA	NA	R 64,917	–
1992	58,671	810	9,910	224	38,323	10,631	932	14,638	3,568	108,720	1,623	R 21,698	R 210,266	14,805	R NA	NA	NA	R 51,150	–
1993	59,031	834	7,682	207	39,642	10,650	1,352	15,065	3,633	114,720	2,164	R 20,518	R 215,633	10,011	R NA	NA	NA	R 65,051	–
1994	56,711	843	8,847	186	43,195	11,678	1,063	15,234	3,797	113,219	2,048	21,242	220,508	10,952	NA	NA	NA	90,670	–
			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	54.9	796.0	0.0	0.2	0.1	0.0	169.8	2,960.3
1965	1,324.4	909.4	48.7	10.7	161.1	17.0	35.9	21.8	20.1	453.2	68.9	85.3	922.8	0.3	0.1	0.1	0.0	178.9	3,335.9
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	94.1	1,081.7	0.0	0.1	0.1	0.0	169.7	3,900.1
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	90.4	1,082.9	0.0	0.1	(s)	0.0	155.6	3,841.2
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	97.3	1,164.2	0.0	0.1	(s)	0.0	198.1	4,097.7
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	103.5	1,225.3	0.0	0.1	(s)	0.0	215.9	4,195.9
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	100.4	1,193.3	0.0	0.1	(s)	0.0	217.0	4,167.5
1975	1,619.1	978.9	58.1	2.5	245.6	33.9	20.4	36.8	21.9	624.1	65.4	97.8	1,206.5	0.0	0.1	(s)	0.0	140.1	3,944.6
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	109.1	1,304.0	0.0	0.1	(s)	0.0	190.4	4,178.9
1977	1,669.2	867.8	61.1	2.4	304.3	38.7	28.7	38.6	23.2	662.6	95.9	118.4	1,373.9	5.0	0.1	(s)	0.0	257.2	4,173.1
1978	1,622.4	951.0	63.8	2.3	318.5	39.8	25.7	41.9	24.9	667.1	88.7	125.3	1,397.8	26.5	(s)	(s)	0.0	246.5	4,244.2
1979	1,668.4	920.4	59.5	2.2	263.8	38.4	20.3	171.6	26.0	638.9	71.1	131.1	1,422.9	34.4	(s)	(s)	0.0	190.9	4,237.1
1980	1,528.1	911.3	48.6	2.4	284.5	40.6	13.9	162.6	23.2	594.8	43.5	129.8	1,343.9	23.1	0.1	(s)	0.0	160.9	3,967.4
1981	1,534.9	890.4	45.8	2.1	262.8	32.4	15.6	144.6	22.2	578.8	36.8	98.1	1,239.2	48.6	0.1	(s)	0.0	148.9	3,862.0
1982	1,392.0	837.1	48.9	2.0	235.3	30.9	14.5	147.5	20.3	556.3	15.4	85.2	1,156.2	35.7	0.1	(s)	0.0	83.6	3,504.7
1983	1,321.1	772.7	44.8	2.0	194.2	32.8	10.7	148.3	21.2	562.6	25.7	89.4	1,131.8	53.5	1.4	0.1	0.0	140.4	3,420.9
1984	1,361.8	814.4	45.7	1.6	210.5	38.5	11.2	105.2	22.6	572.8	17.6	99.0	1,124.7	46.8	1.7	2.1	0.0	263.7	3,615.2
1985	1,389.5	765.4	42.1	1.7	209.6	40.6	9.7	100.6	21.1	571.2	14.6	92.3	1,103.4	21.0	1.8	2.8	0.0	286.8	3,570.6
1986	1,431.8	749.7	48.7	1.9	208.8	56.0	8.9	53.3	20.6	588.0	14.5	R 96.9	R 1,097.7	0.3	1.8	2.9	0.0	251.7	R 3,536.0
1987	1,433.1	747.1	59.8	1.2	195.2	61.0	8.3	58.2	23.3	608.4	13.1	R 107.8	R 1,136.3	81.0	2.3	3.7	0.0	238.6	R 3,642.0
1988	1,474.7	837.5	42.2	1.7	215.9	52.0	9.9	40.3	22.5	614.8	17.7	R 112.6	R 1,129.5	90.8	1.9	3.6	0.0	228.3	R 3,766.3
1989	1,463.9	848.3	70.5	1.3	222.7	58.7	7.6	48.7	23.1	610.2	14.6	R 111.8	R 1,169.1	135.8	1.3	3.3	0.0	224.6	R 3,846.2
1990	1,424.8	776.6	65.6	1.2	213.6	59.9	5.1	39.9	23.7	577.1	10.5	R 117.6	R 1,114.1	113.9	R I 1.9	I 106.4	I (s)	R 264.3	R I 3,790.0
1991	1,413.0	799.3	59.7	1.1	207.9	58.8	5.5	40.2	21.2	577.2	8.5	R 107.5	R 1,087.5	159.3	R 1.6	105.7	(s)	R 221.5	R 3,778.5
1992	1,418.7	839.3	65.8	1.1	223.2	60.1	5.3	53.0	21.6	571.1	10.2	R 124.1	R 1,135.6	158.1	R 2.6	112.7	(s)	R 174.5	R 3,830.0
1993	1,432.3	865.5	51.0	1.0	230.9	60.2	7.7	54.3	22.0	602.6	13.6	R 117.4	R 1,160.8	106.9	1.9	94.9	(s)	R 222.0	R 3,871.5
1994	1,377.1	874.5	58.7	0.9	251.6	66.1	6.0	55.4	23.0	594.7	12.9	121.8	1,191.2	116.9	2.0	97.3	(s)	309.4	3,954.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

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

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

Table 228. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Ohio

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	1,177	29	1,206	362	7,270	1,837	1,750	10,857	0	0	10,786	–	26,830	–
1965	778	18	797	412	7,795	3,626	2,293	13,715	0	0	14,504	–	34,630	–
1970	560	11	571	460	9,320	2,979	3,892	16,191	0	0	22,266	–	53,958	–
1971	479	11	489	461	9,212	2,797	4,096	16,105	0	0	23,606	–	57,071	–
1972	414	8	422	478	10,149	2,464	4,697	17,310	0	0	25,269	–	60,824	–
1973	393	8	401	439	10,698	2,449	4,784	17,931	0	0	27,227	–	65,183	–
1974	533	7	540	436	10,397	2,237	4,704	17,337	0	0	27,859	–	67,928	–
1975	393	6	399	428	10,776	2,060	4,876	17,713	0	0	27,890	–	67,275	–
1976	416	6	421	440	13,494	2,904	5,013	21,411	0	0	28,725	–	69,194	–
1977	481	5	486	402	14,389	2,948	4,721	22,058	0	0	30,679	–	74,080	–
1978	512	4	516	417	14,204	2,637	4,601	21,443	0	0	31,466	–	76,982	–
1979	332	3	336	374	7,746	1,618	3,184	12,548	0	0	31,899	–	76,983	–
1980	192	4	196	394	7,430	1,016	2,556	11,003	0	0	33,459	–	81,361	–
1981	245	2	246	377	5,696	1,016	2,780	9,493	0	0	32,863	–	78,320	–
1982	250	2	252	369	4,488	912	2,640	8,040	0	0	32,798	–	78,776	–
1983	295	2	297	330	3,118	877	3,140	7,135	0	0	33,418	–	80,063	–
1984	333	2	335	350	3,367	1,222	3,308	7,898	0	0	34,090	–	79,347	–
1985	296	7	304	328	4,474	941	3,339	8,754	0	0	33,945	–	79,750	–
1986	368	1	369	327	4,583	1,181	3,444	9,207	0	0	35,220	–	81,017	–
1987	283	2	285	326	4,162	1,072	4,058	9,291	0	0	36,711	–	83,882	–
1988	252	4	256	351	4,656	1,259	3,985	9,899	0	0	38,713	–	87,522	–
1989	189	4	192	359	4,573	874	4,519	9,966	0	0	38,792	–	86,997	–
1990	228	1	229	308	4,080	625	4,205	8,909	[e] 1,560	[e] 5	37,889	–	R 82,795	–
1991	170	2	172	322	4,221	677	4,451	9,348	1,644	5	40,942	–	R 89,017	–
1992	202	7	209	341	4,662	728	3,987	9,377	1,729	6	39,141	–	R 83,557	–
1993	203	3	205	354	4,473	839	4,721	10,032	882	7	41,950	–	R 88,596	–
1994	171	6	177	343	4,895	709	4,623	10,227	865	8	41,791	–	87,154	–
	Trillion Btu													
1960	28.1	0.7	28.8	374.5	42.3	10.4	7.0	59.8	0.0	0.0	36.8	499.9	91.5	591.4
1965	18.5	0.4	18.9	425.6	45.4	20.6	9.2	75.2	0.0	0.0	49.5	569.2	118.2	687.3
1970	12.8	0.3	13.1	470.6	54.3	16.9	14.7	85.9	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	114.2	577.2	277.6	854.8
1981	5.7	(s)	5.8	385.8	33.2	5.8	10.1	49.1	0.0	0.0	112.1	552.8	267.2	820.0
1982	5.9	(s)	5.9	380.2	26.1	5.2	9.5	40.9	0.0	0.0	111.9	538.9	268.8	807.6
1983	7.0	(s)	7.1	340.9	18.2	5.0	11.3	34.5	0.0	0.0	114.0	496.4	273.2	769.6
1984	7.9	(s)	8.0	363.3	19.6	6.9	11.9	38.5	0.0	0.0	116.3	526.0	270.7	796.7
1985	7.1	0.2	7.2	342.0	26.1	5.3	12.0	43.4	0.0	0.0	115.8	508.5	272.1	780.6
1986	8.8	(s)	8.8	342.4	26.7	6.7	12.5	45.9	0.0	0.0	120.2	517.3	276.4	793.7
1987	6.8	(s)	6.9	341.2	24.2	6.1	14.8	45.2	0.0	0.0	125.3	518.5	286.2	804.7
1988	6.1	0.1	6.2	364.6	27.1	7.1	14.6	48.8	0.0	0.0	132.1	551.8	298.6	850.4
1989	4.5	0.1	4.6	374.2	26.6	5.0	16.6	48.2	0.0	0.0	132.4	559.4	296.8	856.3
1990	5.5	(s)	5.5	320.7	23.8	3.5	15.2	42.5	[e] 31.2	[e] (s)	129.3	R [e] 529.3	R 282.5	R [e] 811.7
1991	4.1	(s)	4.2	335.9	24.6	3.8	16.1	44.5	32.9	(s)	139.7	R 557.2	R 303.7	R 860.9
1992	4.9	0.2	5.1	352.9	27.2	4.1	14.4	45.7	34.6	(s)	133.5	R 571.9	R 285.1	R 857.0
1993	4.9	0.1	5.0	367.6	26.1	4.8	17.0	47.8	17.6	(s)	143.1	R 581.2	R 302.3	R 883.5
1994	4.2	0.1	4.3	356.0	28.5	4.0	16.8	49.3	17.3	(s)	142.6	569.6	297.4	867.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 229. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Ohio

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	1,446	12	1,458	127	1,548	188	405	572	1,997	4,710	10,386	–	24,799	–
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	584	2,142	19	6,905	27,984	–	65,136	–
1985	550	5	555	143	2,036	440	589	603	83	3,752	29,179	–	68,555	–
1986	683	(s)	684	139	2,127	190	608	1,863	160	4,947	30,481	–	70,115	–
1987	526	1	527	147	2,116	189	716	2,016	50	5,086	31,779	–	72,612	–
1988	468	2	470	159	2,232	264	703	3,028	79	6,305	33,325	–	75,339	–
1989	351	2	353	162	1,687	240	798	2,058	18	4,801	34,478	–	77,321	–
1990	424	(s)	425	144	1,652	189	742	1,053	22	3,659	34,856	–	R76,166	–
1991	316	1	317	150	1,615	180	785	925	40	3,546	36,820	–	R80,054	–
1992	374	5	379	161	1,683	68	704	673	74	3,201	36,158	–	R77,190	–
1993	376	2	378	164	1,384	201	833	393	27	2,838	R37,749	–	R79,724	–
1994	318	4	322	167	1,501	144	816	448	8	2,917	38,536	–	80,366	–
	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
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
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	(s)	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	(s)	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	(s)	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	(s)	14.8	161.1	22.5	1.7	2.1	11.2	0.1	37.7	95.5	309.0	222.2	531.2
1985	13.1	0.1	13.2	149.6	11.9	2.5	2.1	3.2	0.5	20.2	99.6	282.6	233.9	516.5
1986	16.4	(s)	16.4	145.5	12.4	1.1	2.2	9.8	1.0	26.5	104.0	292.4	239.2	531.6
1987	12.7	(s)	12.7	153.6	12.3	1.1	2.6	10.6	0.3	26.9	108.4	301.7	247.8	549.4
1988	11.4	0.1	11.4	165.1	13.0	1.5	2.6	15.9	0.5	33.5	113.7	323.7	257.1	580.8
1989	8.4	0.1	8.4	168.3	9.8	1.4	2.9	10.8	0.1	25.1	117.6	319.4	263.8	583.3
1990	10.2	(s)	10.3	149.3	9.6	1.1	2.7	5.5	0.1	19.1	118.9	R297.5	R259.9	557.4
1991	7.6	(s)	7.7	157.0	9.4	1.0	2.8	4.9	0.3	18.4	125.6	308.7	R273.1	581.8
1992	9.1	0.1	9.2	R166.4	9.8	0.4	2.5	3.5	0.5	16.7	123.4	315.8	R263.4	579.1
1993	9.2	(s)	9.2	170.3	8.1	1.1	3.0	2.1	0.2	14.4	128.8	R322.7	R272.0	R594.7
1994	7.7	0.1	7.8	173.0	8.7	0.8	3.0	2.4	(s)	14.9	131.5	327.2	274.2	601.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Ohio

Year	Coal	Natural Gas [a]	Petroleum									Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	25,835	218	6,862	7,112	2,023	1,585	1,683	3,354	9,082	9,158	40,860	12	0	0	39,246	–	97,619	–
1965	26,758	327	7,344	8,479	2,513	2,649	2,050	2,598	8,228	14,615	48,476	1	0	0	41,757	–	99,701	–
1970	29,875	376	9,017	11,429	3,360	3,999	2,390	1,926	4,166	16,283	52,571	0	0	0	45,827	–	111,055	–
1971	24,695	403	8,555	10,740	3,137	4,005	2,294	1,938	3,579	15,605	49,852	0	0	0	47,337	–	114,444	–
1972	25,291	433	9,125	10,864	2,399	4,442	2,456	1,697	4,177	16,780	51,940	0	0	0	53,074	–	127,750	–
1973	24,156	439	10,867	11,260	2,267	4,454	2,721	1,624	4,533	17,840	55,566	0	0	0	58,922	–	141,062	–
1974	25,271	428	9,099	10,879	1,701	4,483	2,606	1,777	4,667	17,339	52,552	0	0	0	57,366	–	139,872	–
1975	22,307	345	8,749	11,150	1,433	3,993	1,987	1,519	7,038	16,834	52,704	0	0	0	55,597	–	134,108	–
1976	21,385	373	7,918	14,096	1,839	4,266	2,208	1,355	7,834	18,888	58,403	0	0	0	62,642	–	150,894	–
1977	21,336	285	9,210	14,552	1,968	4,698	2,394	1,266	9,913	20,495	64,495	1	0	0	67,615	–	163,270	–
1978	19,998	328	9,608	14,457	1,751	5,720	2,571	1,168	7,976	21,727	64,976	1	0	0	66,195	–	161,946	–
1979	19,222	346	8,967	14,544	1,871	42,656	2,690	1,000	6,550	22,920	101,199	0	0	0	67,164	–	162,089	–
1980	15,821	321	7,324	12,591	1,306	41,031	2,395	1,154	5,678	22,807	94,285	0	0	0	55,283	–	134,429	–
1981	16,433	317	6,903	12,365	1,668	36,074	2,297	866	5,552	17,038	82,763	0	0	0	54,209	–	129,194	–
1982	12,476	271	7,364	10,901	1,590	37,343	2,095	470	2,122	14,770	76,654	0	0	0	42,565	–	102,235	–
1983	10,438	263	6,744	4,545	673	36,938	2,193	1,042	3,942	15,402	71,479	0	0	0	46,290	–	110,900	–
1984	11,069	266	6,881	4,908	448	24,804	2,339	1,466	2,630	17,357	60,833	0	0	0	59,208	–	137,812	–
1985	10,420	253	6,339	6,688	328	23,612	2,180	1,073	2,098	15,991	58,310	0	0	0	61,109	–	143,571	–
1986	10,487	241	7,341	5,841	196	10,190	2,131	1,019	2,067	R16,813	R45,598	0	0	0	58,497	–	134,560	–
1987	11,019	229	9,006	5,302	198	10,789	2,409	1,028	1,909	R18,825	R49,466	0	0	0	61,855	–	141,334	–
1988	11,478	285	6,356	5,193	220	5,989	2,324	1,027	2,336	R19,580	R43,024	0	0	0	62,238	–	140,706	–
1989	9,992	282	10,622	5,255	223	7,523	2,383	1,016	1,778	R19,511	R48,312	0	0	0	68,314	–	153,203	–
1990	9,703	284	9,880	5,141	87	5,686	2,453	967	1,514	R20,528	R46,257	R[f]NA	[f]NA	[f]NA	69,682	–	R152,267	–
1991	8,511	281	8,993	5,254	114	5,592	2,194	963	1,128	R18,722	R42,961	RNA	NA	NA	67,856	–	R147,533	–
1992	7,725	296	9,910	6,395	136	9,696	2,237	2,794	1,433	R21,698	R54,299	RNA	NA	NA	69,674	–	R148,740	–
1993	6,992	303	7,682	6,524	313	9,266	2,278	1,123	2,100	R20,518	R49,804	RNA	NA	NA	68,831	–	R145,366	–
1994	6,886	312	8,847	7,127	209	9,335	2,381	1,099	1,949	21,242	52,189	NA	NA	NA	74,010	–	154,345	–
			Trillion Btu															
1960	664.3	226.1	45.5	41.4	11.5	6.4	10.2	17.6	57.1	54.9	244.6	0.1	0.0	0.0	133.9	1,269.1	333.1	1,602.2
1965	681.5	338.3	48.7	49.4	14.2	10.6	12.4	13.6	51.7	85.3	286.1	(s)	0.0	0.0	142.5	1,448.3	340.2	1,788.5
1970	738.5	384.8	59.8	66.6	19.1	15.1	14.5	10.1	26.2	94.1	305.4	0.0	0.0	0.0	156.4	1,585.1	378.9	1,964.1
1971	607.3	412.3	56.8	62.6	17.8	15.1	13.9	10.2	22.5	90.4	289.2	0.0	0.0	0.0	161.5	1,470.4	390.5	1,860.9
1972	626.4	443.0	60.6	63.3	13.6	16.7	14.9	8.9	26.3	97.3	301.5	0.0	0.0	0.0	181.1	1,552.0	435.9	1,987.8
1973	606.2	450.8	72.1	65.6	12.9	16.7	16.5	8.5	28.5	103.5	324.3	0.0	0.0	0.0	201.0	1,582.3	481.3	2,063.6
1974	628.0	439.3	60.4	63.4	9.6	16.7	15.8	9.3	29.3	100.4	305.0	0.0	0.0	0.0	195.7	1,568.0	477.2	2,045.3
1975	556.5	352.8	58.1	64.9	8.1	14.8	12.1	8.0	44.2	97.8	308.1	0.0	0.0	0.0	189.7	1,407.0	457.6	1,864.6
1976	539.9	383.0	52.5	82.1	10.4	15.8	13.4	7.1	49.2	109.1	339.7	0.0	0.0	0.0	213.7	1,476.4	514.9	1,991.3
1977	537.2	292.3	61.1	84.8	11.2	17.3	14.5	6.6	62.3	118.4	376.2	(s)	0.0	0.0	230.7	1,436.5	557.1	1,993.6
1978	505.2	336.3	63.8	84.2	9.9	21.0	15.6	6.1	50.1	125.3	376.0	(s)	0.0	0.0	225.9	1,443.5	552.6	1,996.0
1979	488.3	355.1	59.5	84.7	10.6	157.0	16.3	5.3	41.2	131.1	505.7	0.0	0.0	0.0	229.2	1,578.3	553.0	2,131.3
1980	404.7	326.0	48.6	73.3	7.4	150.7	14.5	6.1	35.7	129.8	466.2	0.0	0.0	0.0	188.6	1,385.5	458.7	1,844.2
1981	418.1	324.5	45.8	72.0	9.5	131.4	13.9	4.5	34.9	98.1	410.2	0.0	0.0	0.0	185.0	1,337.7	440.8	1,778.5
1982	317.8	279.2	48.9	63.5	9.0	135.0	12.7	2.5	13.3	85.2	370.1	0.0	0.0	0.0	145.2	1,112.3	348.8	1,461.1
1983	263.4	271.7	44.8	26.5	3.8	133.5	13.3	5.5	24.8	89.4	341.5	0.0	0.0	0.0	157.9	1,034.6	378.4	1,413.0
1984	280.1	276.4	45.7	28.6	2.5	89.3	14.2	7.7	16.5	99.0	303.5	0.0	0.0	0.0	202.0	1,062.0	470.2	1,532.2
1985	265.7	264.4	42.1	39.0	1.9	85.1	13.2	5.6	13.2	92.3	292.4	0.0	0.0	0.0	208.5	1,030.9	489.9	1,520.8
1986	268.3	252.2	48.7	34.0	1.1	37.1	12.9	5.4	13.0	R96.9	R249.2	0.0	0.0	0.0	199.6	R969.2	459.1	R1,428.4
1987	282.1	239.7	59.8	30.9	1.1	39.5	14.6	5.4	12.0	R107.8	R271.1	0.0	0.0	0.0	211.0	R1,003.9	482.2	R1,486.2
1988	293.9	296.3	42.2	30.3	1.2	21.9	14.1	5.4	14.7	R112.6	R242.3	0.0	0.0	0.0	212.4	R1,044.9	480.1	R1,525.0
1989	256.0	293.9	70.5	30.6	1.3	27.7	14.5	5.3	11.2	R111.8	R272.8	0.0	0.0	0.0	233.1	R1,055.9	522.7	R1,578.6
1990	248.2	294.9	65.6	29.9	0.5	20.6	14.9	5.1	9.5	R117.6	R263.7	R[f]0.1	[f]60.5	[f]0.0	237.8	R[f]1,105.1	R519.5	R[f]1,624.6
1991	216.8	293.6	59.7	30.6	0.6	20.2	13.3	5.1	7.1	R107.5	R244.1	R0.1	60.3	0.0	231.5	R1,046.4	R503.4	R1,549.8
1992	197.6	306.9	65.8	37.3	0.8	35.1	13.6	14.7	9.0	R124.1	R300.3	R0.1	63.4	0.0	237.7	R1,106.0	R507.5	R1,613.5
1993	178.2	314.1	51.0	38.0	1.8	33.4	13.8	5.9	13.2	R117.4	R274.5	R0.1	63.8	0.0	234.9	R1,065.4	R496.0	R1,561.4
1994	176.0	324.0	58.7	41.5	1.2	33.9	14.4	5.8	12.3	121.8	289.6	(s)	65.7	0.0	252.5	1,107.9	526.6	1,634.5

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Ohio

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	449	9	1,395	7,987	1,808	36	1,381	74,274	310	87,192	0	93	–	232	–
1965	88	11	2,125	9,722	3,075	94	1,263	83,101	633	100,013	0	54	–	130	–
1970	48	12	712	11,068	5,857	133	1,241	103,970	758	123,739	0	43	–	105	–
1971	32	13	682	12,156	6,448	164	1,241	105,837	322	126,850	0	41	–	98	–
1972	26	13	628	16,371	6,647	181	1,329	111,380	202	136,738	0	40	–	96	–
1973	17	13	625	16,370	6,741	210	1,545	117,011	96	142,598	0	38	–	91	–
1974	13	10	593	15,381	5,628	205	1,480	115,221	323	138,830	0	42	–	102	–
1975	4	9	491	15,647	5,926	160	1,622	116,333	592	140,790	0	45	–	109	–
1976	2	8	468	18,270	6,168	219	1,802	119,951	897	147,775	0	45	–	108	–
1977	1	8	467	17,444	6,662	254	1,424	124,121	639	151,011	0	43	–	103	–
1978	0	9	455	19,940	6,875	290	1,530	125,053	587	154,729	0	40	–	99	–
1979	0	15	442	19,845	6,753	233	1,601	119,663	712	149,249	0	46	–	112	–
1980	0	11	473	24,578	7,219	225	1,425	110,021	255	144,198	0	44	–	106	–
1981	0	13	408	23,624	5,745	343	1,367	108,141	50	139,678	0	49	–	116	–
1982	0	14	393	22,167	5,485	345	1,247	104,596	1	134,233	0	45	–	108	–
1983	0	10	397	21,587	5,821	410	1,305	105,275	19	134,813	0	36	–	85	–
1984	0	12	322	23,525	6,832	542	1,392	105,436	40	138,088	0	35	–	81	–
1985	0	8	330	22,274	7,204	379	1,297	107,060	0	138,544	0	42	–	98	–
1986	0	9	375	22,795	9,924	411	1,268	109,053	4	143,830	0	40	–	92	–
1987	0	11	239	21,419	10,800	350	1,434	112,779	31	147,051	0	37	–	86	–
1988	0	10	331	24,446	9,218	349	1,383	112,993	12	148,731	0	40	–	91	–
1989	0	10	250	26,215	10,405	373	1,418	113,084	10	151,756	0	41	–	91	–
1990	0	10	239	25,341	10,602	361	1,459	107,832	5	145,838	[e]156,542	38	–	84	–
1991	0	9	214	24,010	10,400	292	1,306	107,998	8	144,226	124,088	40	–	86	–
1992	0	10	224	25,156	10,631	252	1,331	105,252	55	142,901	150,815	44	–	93	–
1993	0	10	207	26,716	10,650	245	1,355	113,204	16	152,394	168,313	R40	–	R85	–
1994	0	18	186	28,828	11,678	460	1,417	111,672	64	154,304	186,690	39	–	82	–
			Trillion Btu												
1960	11.1	9.4	7.0	46.5	9.8	0.1	8.4	390.2	2.0	464.0	0.0	0.3	484.9	0.8	485.7
1965	2.2	11.4	10.7	56.6	17.0	0.4	7.7	436.5	4.0	532.9	0.0	0.2	546.7	0.4	547.1
1970	1.1	12.3	3.6	64.5	32.8	0.5	7.5	546.2	4.8	659.8	0.0	0.1	673.4	0.4	673.7
1971	0.7	13.0	3.4	70.8	36.2	0.6	7.5	556.0	2.0	676.5	0.0	0.1	690.4	0.3	690.7
1972	0.6	13.0	3.2	95.4	37.3	0.7	8.1	585.1	1.3	730.9	0.0	0.1	744.7	0.3	745.0
1973	0.4	13.1	3.2	95.4	37.9	0.8	9.4	614.7	0.6	761.8	0.0	0.1	775.5	0.3	775.8
1974	0.3	10.3	3.0	89.6	31.6	0.8	9.0	605.3	2.0	741.2	0.0	0.1	751.9	0.3	752.3
1975	0.1	9.2	2.5	91.1	33.3	0.7	9.8	611.1	3.7	752.2	0.0	0.2	761.7	0.4	762.1
1976	(s)	7.9	2.4	106.4	34.7	0.8	10.9	630.1	5.6	790.9	0.0	0.2	799.0	0.4	799.4
1977	(s)	8.3	2.4	101.6	37.4	0.9	8.6	652.0	4.0	807.0	0.0	0.1	815.4	0.4	815.8
1978	0.0	9.1	2.3	116.1	38.7	1.1	9.3	656.9	3.7	828.1	0.0	0.1	837.3	0.3	837.7
1979	0.0	14.9	2.2	115.6	38.0	0.9	9.7	628.6	4.5	799.5	0.0	0.2	814.6	0.4	814.9
1980	0.0	11.6	2.4	143.2	40.6	0.8	8.6	577.9	1.6	775.2	0.0	0.1	787.0	0.4	787.3
1981	0.0	13.2	2.1	137.6	32.4	1.3	8.3	568.1	0.3	750.0	0.0	0.2	763.3	0.4	763.7
1982	0.0	14.3	2.0	129.1	30.9	1.2	7.6	549.4	(s)	720.2	0.0	0.2	734.7	0.4	735.1
1983	0.0	10.6	2.0	125.7	32.8	1.5	7.9	553.0	0.1	723.0	0.0	0.1	733.7	0.3	734.0
1984	0.0	12.9	1.6	137.0	38.5	2.0	8.4	553.9	0.2	741.6	0.0	0.1	754.7	0.3	754.9
1985	0.0	8.6	1.7	129.7	40.6	1.4	7.9	562.4	0.0	743.6	0.0	0.1	752.4	0.3	752.7
1986	0.0	9.1	1.9	132.8	56.0	1.5	7.7	572.9	(s)	772.8	0.0	0.1	782.0	0.3	782.3
1987	0.0	11.7	1.2	124.8	61.0	1.3	8.7	592.4	0.2	789.5	0.0	0.1	801.4	0.3	801.7
1988	0.0	10.4	1.7	142.4	52.0	1.3	8.4	593.6	0.1	799.4	0.0	0.1	809.9	0.3	810.2
1989	0.0	10.8	1.3	152.7	58.7	1.4	8.6	594.0	0.1	816.8	0.0	0.1	827.7	0.3	828.0
1990	0.0	R10.5	1.2	147.6	59.9	1.3	8.9	566.4	(s)	785.4	[e]12.0	0.1	[e]795.9	0.3	[e]796.2
1991	0.0	R9.5	1.1	139.9	58.8	1.1	7.9	567.3	(s)	776.1	9.5	0.1	785.7	0.3	786.0
1992	0.0	R10.0	1.1	146.5	60.1	0.9	8.1	552.9	0.3	770.0	11.5	0.1	R780.1	0.3	R780.4
1993	0.0	10.7	1.0	155.6	60.2	0.9	8.2	594.7	0.1	820.7	12.9	0.1	831.6	0.3	831.9
1994	0.0	18.6	0.9	167.9	66.1	1.7	8.6	586.6	0.4	832.2	14.3	0.1	850.9	0.3	851.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.5, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Ohio

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	21,559	0	21,559	3	94	107	0	201	0	7	8	0	0	–
1965	24,923	0	24,923	3	105	119	0	223	22	10	7	0	0	–
1970	35,321	0	35,321	21	697	791	0	1,487	0	7	5	0	0	–
1971	38,424	0	38,424	21	635	1,272	0	1,907	0	9	4	0	0	–
1972	40,171	0	40,171	16	885	2,331	0	3,216	0	9	4	0	0	–
1973	43,631	0	43,631	16	1,820	1,708	0	3,528	0	8	3	0	0	–
1974	44,751	0	44,751	21	2,610	2,734	0	5,343	0	10	3	0	0	–
1975	47,321	0	47,321	6	1,312	2,568	0	3,880	0	7	(s)	0	0	–
1976	49,349	0	49,349	5	1,226	2,949	0	4,175	0	8	1	0	0	–
1977	50,507	0	50,507	3	2,600	3,218	0	5,817	468	5	1	0	0	–
1978	49,656	0	49,656	3	3,716	3,448	0	7,164	2,425	4	1	0	0	–
1979	52,075	0	52,075	6	2,715	1,679	0	4,394	3,163	4	1	0	0	–
1980	48,537	0	48,537	5	605	1,643	0	2,248	2,119	6	1	0	0	–
1981	48,460	0	48,460	2	216	840	0	1,056	4,407	6	(s)	0	0	–
1982	45,759	0	45,759	1	143	734	0	876	3,226	5	(s)	0	0	–
1983	44,017	0	44,017	1	104	523	0	626	4,904	135	9	0	0	–
1984	45,025	0	45,025	1	111	478	0	589	4,312	164	203	0	0	–
1985	46,700	0	46,700	1	141	508	0	649	1,943	175	265	0	0	–
1986	47,785	0	47,785	1	82	493	0	576	24	172	279	0	0	–
1987	47,520	0	47,520	1	90	519	0	608	7,513	225	352	0	0	–
1988	48,893	0	48,893	1	387	533	0	921	8,455	187	351	0	0	–
1989	50,479	0	50,479	1	510	508	0	1,018	12,661	130	316	0	0	–
1990	48,848	0	48,848	1	136	452	0	588	10,664	173	267	0	0	–
1991	49,577	0	49,577	3	169	584	0	753	14,833	145	298	0	0	–
1992	50,358	0	50,358	3	62	427	0	489	14,805	244	310	0	0	–
1993	51,456	0	51,456	3	21	545	0	565	10,011	183	64	0	0	–
1994	49,326	0	49,326	3	28	844	0	872	10,952	189	0	0	0	–
					Trillion Btu									
1960	512.5	0.0	512.5	3.1	0.6	0.6	0.0	1.2	0.0	0.1	0.1	0.0	0.0	516.9
1965	587.3	0.0	587.3	3.0	0.7	0.7	0.0	1.3	0.3	0.1	0.1	0.0	0.0	592.1
1970	794.7	0.0	794.7	21.9	4.4	4.6	0.0	9.0	0.0	0.1	0.1	0.0	0.0	825.7
1971	850.9	0.0	850.9	21.3	4.0	7.4	0.0	11.4	0.0	0.1	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	(s)	0.0	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	(s)	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	(s)	0.0	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	0.1	0.0	0.0	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	2.1	0.0	0.0	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	2.8	0.0	0.0	1,133.5
1986	1,138.3	0.0	1,138.3	0.6	0.5	2.9	0.0	3.4	0.3	1.8	2.9	0.0	0.0	1,147.3
1987	1,131.4	0.0	1,131.4	0.9	0.6	3.0	0.0	3.6	81.0	2.3	3.7	0.0	0.0	1,222.8
1988	1,163.2	0.0	1,163.2	1.0	2.4	3.1	0.0	5.5	90.8	1.9	3.6	0.0	0.0	1,266.1
1989	1,194.8	0.0	1,194.8	1.0	3.2	3.0	0.0	6.2	135.8	1.3	3.3	0.0	0.0	1,342.3
1990	1,160.8	0.0	1,160.8	1.3	0.9	2.6	0.0	3.5	113.9	1.8	2.8	0.0	0.0	1,284.0
1991	1,184.4	0.0	1,184.4	3.3	1.1	3.4	0.0	4.5	159.3	1.5	3.1	0.0	0.0	1,356.0
1992	1,206.8	0.0	1,206.8	3.1	0.4	2.5	0.0	2.9	158.1	2.5	3.2	0.0	0.0	1,376.6
1993	1,240.0	0.0	1,240.0	2.8	0.1	3.2	0.0	3.3	106.9	1.9	0.7	0.0	0.0	1,355.6
1994	1,189.0	0.0	1,189.0	2.9	0.2	4.9	0.0	5.1	116.9	1.9	0.0	0.0	0.0	1,315.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Oklahoma

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	–
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	–
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	7,138	1,324	41,908	358	5,359	84,494	0	2,339	0	0	-19,881	–
1985	13,602	587	4,003	217	18,377	5,870	114	8,035	1,234	42,160	219	4,955	85,185	0	3,980	0	0	-15,019	–
1986	12,395	554	3,281	250	13,948	5,942	77	5,950	1,207	40,569	393	R5,139	R76,756	0	2,951	0	0	-10,571	–
1987	13,476	596	2,729	179	13,960	7,440	63	5,487	1,364	38,642	332	R5,874	R76,070	0	2,948	0	0	-14,929	–
1988	15,006	589	3,564	172	14,916	7,224	89	4,911	1,316	38,857	660	R7,003	R78,712	0	2,045	0	0	-13,947	–
1989	15,086	601	2,750	165	14,762	9,239	120	5,681	1,349	38,870	394	R7,294	R80,625	0	2,392	0	0	-16,365	–
1990	15,423	604	3,508	146	15,348	7,832	38	3,289	1,389	39,168	631	R7,544	R78,893	0	RINA	INA	INA	R-2,353	–
1991	16,345	570	3,433	111	14,175	10,569	31	4,878	1,242	38,804	242	R6,931	R80,417	0	RNA	NA	NA	R-12,335	–
1992	17,430	544	2,930	124	16,287	12,948	31	4,502	1,267	39,892	628	R8,192	R86,799	0	RNA	NA	NA	R-20,220	–
1993	18,866	579	3,721	104	16,391	9,012	26	5,687	1,290	40,801	713	R7,770	R85,515	0	RNA	NA	NA	R-22,940	–
1994	17,726	572	3,542	84	17,325	10,345	32	5,626	1,348	41,539	557	7,610	88,008	0	NA	NA	NA	-12,149	–
			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
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
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	25.7	8.0	220.1	2.3	32.6	454.6	0.0	24.4	0.0	0.0	-67.8	1,311.4
1985	237.2	603.9	26.6	1.1	107.0	32.5	0.6	29.0	7.5	221.5	1.4	30.7	457.8	0.0	41.6	0.0	0.0	-51.2	1,289.2
1986	217.9	570.7	21.8	1.3	81.2	32.9	0.4	21.7	7.3	213.1	2.5	R32.0	R414.2	0.0	30.8	0.0	0.0	-36.1	R1,197.6
1987	240.7	617.6	18.1	0.9	81.3	41.4	0.4	20.1	8.3	203.0	2.1	R35.8	R411.4	0.0	30.7	0.0	0.0	-50.9	R1,249.4
1988	269.4	611.2	23.7	0.9	86.9	40.2	0.5	17.9	8.0	204.1	4.2	R42.3	R428.6	0.0	21.1	0.0	0.0	-47.6	R1,282.7
1989	268.7	617.6	18.3	0.8	86.0	51.7	0.7	20.9	8.2	204.2	2.5	R43.7	R436.9	0.0	24.7	0.0	0.0	-55.8	R1,292.1
1990	277.1	620.7	23.3	0.7	89.4	43.8	0.2	11.9	8.4	205.7	4.0	R45.2	R432.7	0.0	I28.4	I22.3	I0.1	R-8.0	RI1,373.4
1991	291.6	582.1	22.8	0.6	82.6	59.1	0.2	17.6	7.5	203.8	1.5	R41.7	R437.4	0.0	19.2	22.6	0.1	R-42.1	R1,311.0
1992	307.2	558.0	19.4	0.6	94.9	72.8	0.2	16.3	7.7	209.6	3.9	R48.8	R474.1	0.0	33.1	23.8	0.1	R-69.0	R1,327.3
1993	331.5	593.8	24.7	0.5	95.5	50.5	0.1	20.5	7.8	214.3	4.5	R46.6	R465.1	0.0	44.2	23.2	0.1	R-78.3	R1,379.6
1994	307.0	588.1	23.5	0.4	100.9	58.1	0.2	20.5	8.2	218.2	3.5	45.5	478.9	0.0	25.3	23.6	0.1	-41.5	1,381.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Oklahoma

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	18	0	18	60	2	18	3,938	3,959	0	0	2,372	–	5,900	–
1965	6	0	6	65	2	78	4,642	4,722	0	0	4,086	–	9,756	–
1970	2	0	2	77	3	52	5,802	5,856	0	0	7,293	–	17,674	–
1971	1	0	1	75	5	41	5,567	5,613	0	0	7,776	–	18,800	–
1972	1	0	1	78	10	39	5,861	5,910	0	0	9,161	–	22,050	–
1973	1	0	1	74	12	41	5,637	5,690	0	0	9,659	–	23,124	–
1974	1	0	1	73	12	32	5,287	5,332	0	0	10,188	–	24,841	–
1975	1	0	1	80	12	24	5,628	5,663	0	0	9,222	–	22,245	–
1976	1	0	1	82	16	13	5,742	5,770	0	0	9,303	–	22,408	–
1977	2	0	2	87	14	14	5,657	5,685	0	0	10,304	–	24,882	–
1978	1	0	1	84	17	18	5,663	5,698	0	0	11,053	–	27,041	–
1979	5	0	5	85	6	6	1,887	1,899	0	0	10,635	–	25,666	–
1980	11	0	11	77	15	21	1,759	1,795	0	0	12,309	–	29,931	–
1981	1	0	1	70	96	15	1,888	1,999	0	0	13,351	–	31,819	–
1982	6	0	6	80	1	14	2,177	2,192	0	0	14,138	–	33,957	–
1983	1	0	1	79	75	13	2,590	2,678	0	0	14,644	–	35,085	–
1984	2	0	2	81	81	25	1,625	1,731	0	0	14,259	–	33,189	–
1985	1	0	1	76	82	30	2,027	2,140	0	0	14,400	–	33,831	–
1986	1	0	1	67	30	9	1,477	1,516	0	0	13,903	–	31,981	–
1987	1	0	1	64	10	22	1,362	1,394	0	0	14,085	–	32,183	–
1988	3	(s)	3	72	28	25	1,323	1,376	0	0	14,475	–	32,724	–
1989	(s)	0	(s)	72	(s)	19	1,509	1,528	0	0	14,083	–	31,582	–
1990	(s)	0	(s)	66	(s)	10	1,274	1,284	°345	°23	17,077	–	R37,317	–
1991	(s)	0	(s)	69	(s)	10	1,373	1,383	364	23	15,325	–	R33,319	–
1992	(s)	(s)	(s)	66	2	11	1,112	1,124	383	23	R14,254	–	R30,429	–
1993	(s)	0	(s)	78	(s)	7	1,286	1,293	335	23	15,901	–	R33,583	–
1994	(s)	(s)	(s)	69	(s)	5	1,198	1,203	328	23	16,128	–	33,634	–
	Trillion Btu													
1960	0.4	0.0	0.4	61.9	(s)	0.1	15.8	15.9	0.0	0.0	8.1	86.3	20.1	106.4
1965	0.1	0.0	0.1	66.5	(s)	0.4	18.6	19.1	0.0	0.0	13.9	99.7	33.3	133.0
1970	(s)	0.0	(s)	79.9	(s)	0.3	21.9	22.2	0.0	0.0	24.9	127.1	60.3	187.4
1971	(s)	0.0	(s)	77.6	(s)	0.2	21.0	21.3	0.0	0.0	26.5	125.5	64.1	189.6
1972	(s)	0.0	(s)	79.1	0.1	0.2	22.0	22.3	0.0	0.0	31.3	132.6	75.2	207.9
1973	(s)	0.0	(s)	74.4	0.1	0.2	21.1	21.4	0.0	0.0	33.0	128.8	78.9	207.7
1974	(s)	0.0	(s)	74.7	0.1	0.2	19.7	20.0	0.0	0.0	34.8	129.5	84.8	214.3
1975	(s)	0.0	(s)	79.6	0.1	0.1	20.9	21.1	0.0	0.0	31.5	132.2	75.9	208.1
1976	(s)	0.0	(s)	81.5	0.1	0.1	21.3	21.5	0.0	0.0	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	0.0	0.0	35.2	144.1	84.9	229.0
1978	(s)	0.0	(s)	84.4	0.1	0.1	20.8	21.0	0.0	0.0	37.7	143.1	92.3	235.4
1979	0.1	0.0	0.1	85.7	(s)	(s)	6.9	7.0	0.0	0.0	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	0.0	0.0	42.0	125.7	102.1	227.8
1981	(s)	0.0	(s)	71.6	0.6	0.1	6.9	7.5	0.0	0.0	45.6	124.7	108.6	233.3
1982	0.1	0.0	0.1	80.4	(s)	0.1	7.9	8.0	0.0	0.0	48.2	136.7	115.9	252.5
1983	(s)	0.0	(s)	82.1	0.4	0.1	9.4	9.9	0.0	0.0	50.0	142.0	119.7	261.7
1984	(s)	0.0	(s)	82.8	0.5	0.1	5.8	6.5	0.0	0.0	48.7	137.9	113.2	251.2
1985	(s)	0.0	(s)	77.6	0.5	0.2	7.3	8.0	0.0	0.0	49.1	134.7	115.4	250.2
1986	(s)	0.0	(s)	68.2	0.2	0.1	5.4	5.6	0.0	0.0	47.4	121.2	109.1	230.4
1987	(s)	0.0	(s)	66.1	0.1	0.1	5.0	5.2	0.0	0.0	48.1	119.4	109.8	229.2
1988	0.1	(s)	0.1	74.7	0.2	0.1	4.8	5.1	0.0	0.0	49.4	129.3	111.7	240.9
1989	(s)	0.0	(s)	73.3	(s)	0.1	5.6	5.7	0.0	0.0	48.0	127.1	107.8	234.8
1990	(s)	0.0	(s)	66.9	(s)	0.1	4.6	4.7	°6.9	°0.1	58.3	R°136.9	127.3	R°264.2
1991	(s)	0.0	(s)	70.1	(s)	0.1	5.0	5.0	7.3	0.1	52.3	R134.8	R113.7	R248.5
1992	(s)	(s)	(s)	67.2	(s)	0.1	4.0	4.1	7.7	0.1	48.6	R127.7	103.8	R231.6
1993	(s)	0.0	(s)	80.0	(s)	(s)	4.6	4.7	6.7	0.1	54.3	R145.7	R114.6	R260.3
1994	(s)	(s)	(s)	71.0	(s)	(s)	4.4	4.4	6.6	0.1	55.0	137.1	114.8	251.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
° There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Oklahoma

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	12	0	12	27	68	353	819	204	233	1,677	2,945	–	7,032	–
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	287	599	0	1,546	11,228	–	26,134	–
1985	2	0	2	41	705	20	358	338	0	1,420	11,706	–	27,501	–
1986	3	0	3	37	282	5	261	346	0	893	11,650	–	26,798	–
1987	1	0	1	32	408	5	240	358	16	1,028	11,594	–	26,491	–
1988	5	(s)	5	48	624	43	234	341	6	1,247	12,132	–	27,428	–
1989	(s)	0	(s)	39	638	88	266	312	45	1,350	11,885	–	26,655	–
1990	(s)	0	(s)	37	539	13	225	371	82	1,229	13,663	–	R 29,856	–
1991	1	0	1	40	485	10	242	231	76	1,044	12,665	–	R 27,535	–
1992	(s)	(s)	1	35	374	4	196	172	43	790	R 12,414	–	R 26,502	–
1993	(s)	0	(s)	41	324	5	227	37	0	593	12,931	–	R 27,309	–
1994	(s)	(s)	1	37	263	4	211	37	0	515	13,294	–	27,724	–
	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
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
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	(s)	0.0	(s)	43.3	1.0	1.0	3.7	1.2	1.3	8.2	16.2	67.8	39.1	106.9
1972	(s)	0.0	(s)	44.7	2.1	1.0	3.9	1.3	2.3	10.6	18.3	73.5	43.9	117.5
1973	(s)	0.0	(s)	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	(s)	0.0	(s)	41.6	2.4	0.6	3.7	1.4	1.2	9.3	23.2	74.2	56.0	130.2
1976	(s)	0.0	(s)	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	(s)	0.0	(s)	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	1.0	3.1	0.0	8.0	38.3	91.6	89.2	180.8
1985	(s)	0.0	(s)	41.6	4.1	0.1	1.3	1.8	0.0	7.3	39.9	88.9	93.8	182.7
1986	0.1	0.0	0.1	37.4	1.6	(s)	0.9	1.8	0.0	4.4	39.7	81.6	91.4	173.0
1987	(s)	0.0	(s)	33.4	2.4	(s)	0.9	1.9	0.1	5.3	39.6	78.3	90.4	168.7
1988	0.1	(s)	0.1	49.7	3.6	0.2	0.9	1.8	(s)	6.6	41.4	97.7	93.6	191.3
1989	(s)	0.0	(s)	39.3	3.7	0.5	1.0	1.6	0.3	7.1	40.6	87.0	90.9	178.0
1990	(s)	0.0	(s)	38.0	3.1	0.1	0.8	2.0	0.5	6.5	46.6	91.1	R 101.9	192.9
1991	(s)	0.0	(s)	40.1	2.8	0.1	0.9	1.2	0.5	5.4	43.2	88.8	R 94.0	182.7
1992	(s)	(s)	(s)	36.0	2.2	(s)	0.7	0.9	0.3	4.1	42.4	R 82.4	90.4	R 172.8
1993	(s)	0.0	(s)	R 41.6	1.9	(s)	0.8	0.2	0.0	2.9	44.1	R 88.7	R 93.2	181.9
1994	(s)	(s)	(s)	37.4	1.5	(s)	0.8	0.2	0.0	2.5	45.4	85.3	94.6	179.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Oklahoma

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	25	128	2,034	1,193	330	1,511	176	1,383	1,017	7,938	15,581	0	0	0	2,561	–	6,371	–
1965	11	236	3,586	1,203	514	1,704	152	812	346	8,617	16,934	0	0	0	3,563	–	8,507	–
1970	0	218	4,598	2,084	819	2,277	166	515	477	8,730	19,667	0	0	0	4,888	–	11,845	–
1971	3	228	5,227	2,488	663	2,047	319	479	354	8,231	19,808	0	0	0	5,243	–	12,676	–
1972	3	223	4,842	3,801	466	2,258	341	449	652	8,845	21,654	0	0	0	5,962	–	14,352	–
1973	170	201	5,049	4,382	433	2,528	526	485	891	9,107	23,401	0	0	0	6,430	–	15,392	–
1974	177	228	5,506	4,102	316	2,396	503	437	642	8,956	22,858	0	0	0	6,840	–	16,678	–
1975	20	223	5,675	4,166	198	2,248	274	437	374	9,555	22,928	0	0	0	7,233	–	17,447	–
1976	69	275	4,728	5,569	194	2,234	304	369	428	9,441	23,268	0	0	0	8,034	–	19,353	–
1977	231	271	4,646	6,180	165	2,253	579	344	489	9,512	24,168	0	0	0	8,743	–	21,111	–
1978	384	274	4,385	7,072	158	2,835	621	306	771	9,591	25,740	0	0	0	9,316	–	22,792	–
1979	391	328	4,662	6,136	612	6,051	650	404	601	9,620	28,737	0	0	0	9,835	–	23,735	–
1980	264	246	4,826	3,705	306	6,683	579	359	702	9,296	26,455	0	0	0	9,795	–	23,818	–
1981	676	253	3,353	5,052	249	4,592	555	346	738	5,733	20,618	0	0	0	10,383	–	24,745	–
1982	669	276	3,436	4,632	205	5,093	506	325	675	5,193	20,066	0	0	0	10,284	–	24,700	–
1983	585	244	4,332	5,873	95	4,579	530	286	515	6,151	22,360	0	0	0	10,557	–	25,292	–
1984	707	275	3,093	6,343	77	5,092	565	747	343	5,359	21,619	0	0	0	10,343	–	24,074	–
1985	852	245	4,003	6,949	64	5,517	527	976	211	4,955	23,203	0	0	0	10,576	–	24,848	–
1986	763	233	3,281	3,480	62	4,106	515	907	386	R5,139	R17,877	0	0	0	10,206	–	23,477	–
1987	613	288	2,729	2,930	36	3,792	583	819	314	R5,874	R17,077	0	0	0	10,417	–	23,803	–
1988	563	264	3,564	3,163	21	3,252	562	793	651	R7,003	R19,008	0	0	0	10,719	–	24,234	–
1989	663	276	2,750	2,778	12	3,821	576	907	339	R7,294	R18,479	0	0	0	11,039	–	24,757	–
1990	557	307	3,508	3,091	16	1,692	593	829	491	R7,544	R17,764	R[f]NA	[f]NA	[f]NA	11,764	–	R25,706	–
1991	676	269	3,433	3,200	12	3,154	530	894	154	R6,931	R18,309	RNA	NA	NA	11,415	–	R24,818	–
1992	730	268	2,930	4,200	17	3,114	541	831	574	R8,192	R20,399	RNA	NA	NA	11,599	–	R24,761	–
1993	1,198	279	3,721	3,135	14	4,081	551	1,026	708	R7,770	R21,004	RNA	NA	NA	11,699	–	R24,707	–
1994	764	287	3,542	3,484	23	4,073	576	1,110	550	7,610	20,968	NA	NA	NA	11,721	–	24,445	–
			Trillion Btu															
1960	0.6	132.5	13.5	7.0	1.9	6.1	1.1	7.3	6.4	47.7	90.8	0.0	0.0	0.0	8.7	232.7	21.7	254.4
1965	0.3	242.2	23.8	7.0	2.9	6.8	0.9	4.3	2.2	51.7	99.6	0.0	0.0	0.0	12.2	354.2	29.0	383.2
1970	0.0	225.3	30.5	12.1	4.6	8.6	1.0	2.7	3.0	52.3	114.9	0.0	0.0	0.0	16.7	356.9	40.4	397.3
1971	0.1	235.0	34.7	14.5	3.8	7.7	1.9	2.5	2.2	49.4	116.7	0.0	0.0	0.0	17.9	369.7	43.2	412.9
1972	0.1	227.4	32.1	22.1	2.6	8.5	2.1	2.4	4.1	53.0	127.0	0.0	0.0	0.0	20.3	374.8	49.0	423.7
1973	4.0	203.0	33.5	25.5	2.5	9.5	3.2	2.5	5.6	54.6	136.9	0.0	0.0	0.0	21.9	365.8	52.5	418.3
1974	4.1	233.7	36.5	23.9	1.8	8.9	3.1	2.3	4.0	53.7	134.2	0.0	0.0	0.0	23.3	395.4	56.9	452.3
1975	0.5	221.7	37.7	24.3	1.1	8.4	1.7	2.3	2.4	57.3	135.0	0.0	0.0	0.0	24.7	381.8	59.5	441.4
1976	1.5	272.9	31.4	32.4	1.1	8.3	1.8	1.9	2.7	56.6	136.3	0.0	0.0	0.0	27.4	438.1	66.0	504.2
1977	4.9	274.1	30.8	36.0	0.9	8.3	3.5	1.8	3.1	57.0	141.5	0.0	0.0	0.0	29.8	450.3	72.0	522.3
1978	8.2	274.9	29.1	41.2	0.9	10.4	3.8	1.6	4.8	57.5	149.3	0.0	0.0	0.0	31.8	464.2	77.8	541.9
1979	8.2	329.5	30.9	35.7	3.5	22.3	3.9	2.1	3.8	57.7	159.9	0.0	0.0	0.0	33.6	531.2	81.0	612.2
1980	5.6	246.4	32.0	21.6	1.7	24.6	3.5	1.9	4.4	55.7	145.4	0.0	0.0	0.0	33.4	430.8	81.3	512.1
1981	14.4	259.3	22.2	29.4	1.4	16.7	3.4	1.8	4.6	35.8	115.5	0.0	0.0	0.0	35.4	424.6	84.4	509.0
1982	14.2	278.7	22.8	27.0	1.2	18.4	3.1	1.7	4.2	32.2	110.6	0.0	0.0	0.0	35.1	438.6	84.3	522.9
1983	12.6	252.9	28.7	34.2	0.5	16.5	3.2	1.5	3.2	37.6	125.6	0.0	0.0	0.0	36.0	427.2	86.3	513.5
1984	15.0	279.3	20.5	36.9	0.4	18.3	3.4	3.9	2.2	32.6	118.3	0.0	0.0	0.0	35.3	447.9	82.1	530.1
1985	18.3	249.3	26.6	40.5	0.4	19.9	3.2	5.1	1.3	30.7	127.6	0.0	0.0	0.0	36.1	431.3	84.8	516.1
1986	16.4	237.9	21.8	20.3	0.4	14.9	3.1	4.8	2.4	R32.0	R99.6	0.0	0.0	0.0	34.8	R388.8	80.1	R468.9
1987	12.9	296.8	18.1	17.1	0.2	13.9	3.5	4.3	2.0	R35.8	R94.9	0.0	0.0	0.0	35.5	R440.2	81.2	R521.4
1988	12.0	273.9	23.7	18.4	0.1	11.9	3.4	4.2	4.1	R42.3	R108.0	0.0	0.0	0.0	36.6	R430.5	82.7	R513.2
1989	14.1	282.0	18.3	16.2	0.1	14.1	3.5	4.8	2.1	R43.7	R102.7	0.0	0.0	0.0	37.7	R436.5	84.5	R521.0
1990	12.7	312.7	23.3	18.0	0.1	6.1	3.6	4.4	3.1	R45.2	R103.8	[f]0.0	[f]15.4	[f]0.0	40.1	R[f]484.7	87.7	R[f]572.5
1991	16.1	272.6	22.8	18.6	0.1	11.4	3.2	4.7	1.0	R41.7	R103.5	0.0	15.4	0.0	38.9	R446.5	R84.7	R531.2
1992	16.6	274.0	19.4	24.5	0.1	11.3	3.3	4.4	3.6	R48.8	R115.3	0.0	16.2	0.0	39.6	R461.7	R84.5	R546.2
1993	26.9	285.2	24.7	18.3	0.1	14.7	3.3	5.4	4.4	R46.6	R117.5	0.0	16.5	0.0	39.9	R486.0	84.3	R570.3
1994	16.1	294.4	23.5	20.3	0.1	14.8	3.5	5.8	3.5	45.5	117.0	0.0	17.1	0.0	40.0	484.5	83.4	567.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
–=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Oklahoma

Year	Coal [a]	Natural Gas [b]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	(s)	9	562	1,325	2,920	290	485	21,148	8	26,737	0	0	–	0	–
1965	(s)	13	745	1,582	3,453	489	527	24,799	244	31,839	0	0	–	0	–
1970	0	23	448	3,351	4,378	516	457	31,776	75	41,000	0	0	–	0	–
1971	(s)	26	421	2,773	4,378	570	433	32,997	34	41,606	0	0	–	0	–
1972	(s)	25	398	3,719	4,143	553	464	35,064	294	44,635	0	0	–	0	–
1973	(s)	26	387	4,094	4,017	517	549	36,701	37	46,302	0	0	–	0	–
1974	(s)	24	368	4,281	4,001	471	526	36,309	15	45,970	0	0	–	0	–
1975	(s)	24	309	4,809	3,916	474	537	37,768	42	47,854	0	0	–	0	–
1976	(s)	27	300	5,673	3,967	500	596	39,833	0	50,869	0	0	–	0	–
1977	(s)	27	331	6,210	4,183	600	777	41,277	0	53,377	0	0	–	0	–
1978	0	19	351	6,745	4,750	681	834	43,166	0	56,527	0	0	–	0	–
1979	0	25	307	8,149	4,564	165	873	40,580	0	54,638	0	0	–	0	–
1980	0	23	328	8,030	4,900	235	777	38,974	0	53,244	0	0	–	0	–
1981	0	22	268	9,779	5,009	332	745	41,012	0	57,146	0	0	–	0	–
1982	0	29	155	9,666	5,911	419	680	42,763	0	59,594	0	0	–	0	–
1983	0	25	121	9,994	5,974	497	712	42,034	0	59,331	0	0	–	0	–
1984	0	28	188	10,865	7,017	134	759	40,562	0	59,525	0	0	–	0	–
1985	0	25	217	10,562	5,870	133	707	40,845	0	58,335	0	0	–	0	–
1986	0	21	250	10,041	5,942	105	692	39,316	0	56,346	0	0	–	0	–
1987	0	24	179	10,545	7,440	92	782	37,465	0	56,503	0	0	–	0	–
1988	0	28	172	11,045	7,224	102	754	37,723	0	57,020	0	0	–	0	–
1989	0	36	165	11,293	9,239	85	773	37,650	0	59,206	0	0	–	0	–
1990	0	26	146	11,690	7,832	98	796	37,967	0	58,529	[e]0	0	–	0	–
1991	0	25	111	10,464	10,569	109	712	37,678	0	59,643	0	0	–	0	–
1992	0	26	124	11,692	12,948	80	726	38,889	0	64,459	0	0	–	0	–
1993	0	27	104	12,911	9,012	94	739	39,738	0	62,598	0	0	–	0	–
1994	0	26	84	13,559	10,345	144	772	40,392	0	65,297	0	0	–	0	–
			Trillion Btu												
1960	(s)	9.3	2.8	7.7	15.7	1.2	2.9	111.1	0.1	141.4	0.0	0.0	150.8	0.0	150.8
1965	(s)	12.9	3.8	9.2	18.7	2.0	3.2	130.3	1.5	168.7	0.0	0.0	181.5	0.0	181.5
1970	0.0	23.5	2.3	19.5	24.0	1.9	2.8	166.9	0.5	217.9	0.0	0.0	241.4	0.0	241.4
1971	(s)	26.7	2.1	16.2	24.0	2.2	2.6	173.3	0.2	220.6	0.0	0.0	247.3	0.0	247.3
1972	(s)	25.1	2.0	21.7	22.7	2.1	2.8	184.2	1.8	237.3	0.0	0.0	262.4	0.0	262.4
1973	(s)	26.3	2.0	23.8	22.1	1.9	3.3	192.8	0.2	246.2	0.0	0.0	272.5	0.0	272.5
1974	(s)	24.7	1.9	24.9	22.0	1.8	3.2	190.7	0.1	244.5	0.0	0.0	269.2	0.0	269.2
1975	(s)	23.6	1.6	28.0	21.5	1.8	3.3	198.4	0.3	254.8	0.0	0.0	278.4	0.0	278.4
1976	(s)	26.9	1.5	33.0	21.9	1.9	3.6	209.2	0.0	271.1	0.0	0.0	298.0	0.0	298.0
1977	(s)	27.8	1.7	36.2	23.0	2.2	4.7	216.8	0.0	284.6	0.0	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	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	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	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	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	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	0.0	344.3	0.0	344.3
1984	0.0	28.0	1.0	63.3	39.0	0.5	4.6	213.1	0.0	321.4	0.0	0.0	349.4	0.0	349.4
1985	0.0	25.8	1.1	61.5	32.5	0.5	4.3	214.6	0.0	314.4	0.0	0.0	340.3	0.0	340.3
1986	0.0	21.6	1.3	58.5	32.9	0.4	4.2	206.5	0.0	303.8	0.0	0.0	325.4	0.0	325.4
1987	0.0	24.5	0.9	61.4	41.4	0.3	4.7	196.8	0.0	305.7	0.0	0.0	330.1	0.0	330.1
1988	0.0	28.8	0.9	64.3	40.2	0.4	4.6	198.2	0.0	308.5	0.0	0.0	337.3	0.0	337.3
1989	0.0	37.3	0.8	65.8	51.7	0.3	4.7	197.8	0.0	321.1	0.0	0.0	358.3	0.0	358.3
1990	0.0	26.6	0.7	68.1	43.8	0.4	4.8	199.4	0.0	317.2	[e]0.0	0.0	[e]343.8	0.0	[e]343.8
1991	0.0	25.4	0.6	61.0	59.1	0.4	4.3	197.9	0.0	323.2	0.0	0.0	348.6	0.0	348.6
1992	0.0	R26.3	0.6	68.1	72.8	0.3	4.4	204.3	0.0	350.5	0.0	0.0	376.7	0.0	376.7
1993	0.0	R27.3	0.5	75.2	50.5	0.3	4.5	208.7	0.0	339.8	0.0	0.0	R367.1	0.0	R367.1
1994	0.0	27.0	0.4	79.0	58.1	0.5	4.7	212.2	0.0	354.9	0.0	0.0	381.9	0.0	381.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Oklahoma

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	(s)	0	(s)	83	33	26	0	59	0	705	0	0	0	–
1965	1	0	1	127	28	22	0	50	0	825	0	0	0	–
1970	1	0	1	235	64	51	0	116	0	1,406	0	0	0	–
1971	1	0	1	241	23	45	0	68	0	1,383	0	0	0	–
1972	1	0	1	260	102	53	0	155	0	1,447	0	0	0	–
1973	2	0	2	270	73	49	0	123	0	3,761	0	0	0	–
1974	1	0	1	294	174	40	0	214	0	3,590	0	0	0	–
1975	(s)	0	(s)	301	29	55	0	85	0	2,945	0	0	0	–
1976	0	0	0	331	42	51	0	93	0	1,541	0	0	0	–
1977	438	0	438	334	134	72	0	206	0	1,749	0	0	0	–
1978	2,075	0	2,075	348	137	84	0	221	0	1,763	0	0	0	–
1979	2,975	0	2,975	334	59	60	0	119	0	2,323	0	0	0	–
1980	5,752	0	5,752	330	(s)	59	0	59	0	1,315	0	0	0	–
1981	8,368	0	8,368	286	4	37	0	41	0	1,122	0	0	0	–
1982	11,096	0	11,096	247	2	56	0	58	0	2,090	0	0	0	–
1983	12,042	0	12,042	237	2	50	0	51	0	2,500	0	0	0	–
1984	12,541	0	12,541	225	15	58	0	73	0	2,339	0	0	0	–
1985	12,747	0	12,747	201	9	79	0	87	0	3,980	0	0	0	–
1986	11,628	0	11,628	197	7	116	0	123	0	2,951	0	0	0	–
1987	12,861	0	12,861	188	1	67	0	68	0	2,948	0	0	0	–
1988	14,435	0	14,435	177	4	56	0	60	0	2,045	0	0	0	–
1989	14,423	0	14,423	178	10	52	0	62	0	2,392	0	0	0	–
1990	14,866	0	14,866	169	58	28	0	86	0	2,750	0	0	0	–
1991	15,668	0	15,668	167	12	26	0	38	0	1,857	0	0	0	–
1992	16,699	0	16,699	149	10	18	0	28	0	3,210	0	0	0	–
1993	17,668	0	17,668	154	6	21	0	27	0	4,296	0	0	0	–
1994	16,961	0	16,961	153	6	19	0	25	0	2,465	0	0	0	–
	Trillion Btu													
1960	(s)	0.0	(s)	85.7	0.2	0.2	0.0	0.4	0.0	7.6	0.0	0.0	0.0	93.7
1965	(s)	0.0	(s)	130.5	0.2	0.1	0.0	0.3	0.0	8.6	0.0	0.0	0.0	139.5
1970	(s)	0.0	(s)	242.2	0.4	0.3	0.0	0.7	0.0	14.8	0.0	0.0	0.0	257.7
1971	(s)	0.0	(s)	248.5	0.1	0.3	0.0	0.4	0.0	14.5	0.0	0.0	0.0	263.4
1972	(s)	0.0	(s)	273.7	0.6	0.3	0.0	0.9	0.0	15.0	0.0	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	0.0	321.2
1974	(s)	0.0	(s)	305.9	1.1	0.2	0.0	1.3	0.0	37.5	0.0	0.0	0.0	344.7
1975	(s)	0.0	(s)	312.3	0.2	0.3	0.0	0.5	0.0	30.6	0.0	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	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	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	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	0.0	427.7
1980	100.0	0.0	100.0	345.8	(s)	0.3	0.0	0.3	0.0	13.7	0.0	0.0	0.0	459.8
1981	143.2	0.0	143.2	299.1	(s)	0.2	0.0	0.2	0.0	11.7	0.0	0.0	0.0	454.3
1982	189.3	0.0	189.3	258.0	(s)	0.3	0.0	0.3	0.0	21.8	0.0	0.0	0.0	469.5
1983	206.6	0.0	206.6	249.0	(s)	0.3	0.0	0.3	0.0	26.3	0.0	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	24.4	0.0	0.0	0.0	474.6
1985	218.8	0.0	218.8	209.5	0.1	0.5	0.0	0.5	0.0	41.6	0.0	0.0	0.0	470.4
1986	201.5	0.0	201.5	205.7	(s)	0.7	0.0	0.7	0.0	30.8	0.0	0.0	0.0	438.7
1987	227.7	0.0	227.7	196.7	(s)	0.4	0.0	0.4	0.0	30.7	0.0	0.0	0.0	455.5
1988	257.3	0.0	257.3	184.1	(s)	0.3	0.0	0.4	0.0	21.1	0.0	0.0	0.0	462.9
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	0.0	465.3
1990	264.4	0.0	264.4	176.6	0.4	0.2	0.0	0.5	0.0	28.4	0.0	0.0	0.0	470.0
1991	275.5	0.0	275.5	173.9	0.1	0.2	0.0	0.2	0.0	19.2	0.0	0.0	0.0	468.9
1992	290.6	0.0	290.6	154.5	0.1	0.1	0.0	0.2	0.0	33.1	0.0	0.0	0.0	478.3
1993	304.6	0.0	304.6	159.7	(s)	0.1	0.0	0.2	0.0	44.2	0.0	0.0	0.0	508.6
1994	290.8	0.0	290.8	158.3	(s)	0.1	0.0	0.1	0.0	25.3	0.0	0.0	0.0	474.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Oregon

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	434	37,866	0	12,466	24	0	8,038	–
1965	305	56	1,960	277	13,085	812	19	961	612	19,838	5,115	1,653	44,332	0	16,508	26	0	13,499	–
1970	140	95	2,167	305	12,904	2,086	218	1,251	768	24,958	6,632	1,613	52,903	0	29,912	44	0	-4,443	–
1971	157	101	2,735	165	14,178	2,072	155	1,350	649	26,147	6,577	1,577	55,606	0	34,364	32	0	-12,298	–
1972	104	110	3,141	178	15,695	2,085	117	1,214	695	27,756	7,880	1,769	60,530	0	36,477	60	0	-16,153	–
1973	101	108	2,862	189	16,256	2,386	91	1,089	803	28,953	7,372	1,354	61,356	0	28,150	62	0	13,322	–
1974	156	98	2,595	205	13,937	2,212	253	1,113	769	28,253	6,542	1,128	57,006	0	36,004	47	0	-5,040	–
1975	130	110	3,218	171	13,267	2,079	225	726	679	28,904	4,321	1,395	54,984	2	34,562	(s)	0	8,289	–
1976	306	93	2,790	169	14,220	2,055	210	710	754	30,747	3,463	1,152	56,270	2,103	35,384	46	0	4,749	–
1977	277	73	2,803	199	16,804	2,307	368	749	751	32,054	3,362	1,490	60,887	6,492	24,385	260	0	20,865	–
1978	251	86	3,030	193	17,193	2,534	522	835	806	33,497	4,595	1,487	64,691	1,563	31,911	131	0	21,578	–
1979	255	94	3,253	209	18,285	2,631	160	1,466	844	31,845	5,445	1,178	65,315	4,495	29,866	210	0	22,818	–
1980	715	79	2,483	260	16,764	2,465	112	1,354	751	30,511	4,511	1,043	60,254	5,395	30,222	160	0	17,611	–
1981	1,514	76	1,839	219	16,423	1,694	142	1,259	720	29,713	6,344	1,558	59,911	6,424	32,160	120	0	1,859	–
1982	700	71	1,669	127	14,974	1,785	96	1,322	657	28,386	10,531	1,316	60,865	4,792	45,223	39	0	-38,436	–
1983	578	67	2,173	125	16,035	1,777	74	1,321	688	28,309	4,244	847	55,594	3,685	45,077	0	(s)	-37,922	–
1984	685	79	2,519	125	15,750	1,962	61	1,301	733	29,354	5,766	691	58,262	4,736	46,635	0	0	-33,472	–
1985	591	83	2,838	141	15,394	2,142	68	1,527	684	29,041	4,961	813	57,608	6,911	45,876	0	0	-43,920	–
1986	163	71	2,225	193	14,894	2,618	31	1,517	668	29,947	5,491	1,210	58,793	7,081	42,096	0	0	-35,483	–
1987	205	80	2,140	127	16,207	2,928	17	1,490	756	30,579	5,089	1,845	61,176	4,348	40,717	0	0	-14,098	–
1988	177	87	2,423	98	16,473	3,189	20	1,581	729	32,134	6,155	1,818	64,621	6,339	36,309	99	0	-1,850	–
1989	396	108	2,802	102	16,254	3,377	50	1,612	747	31,874	5,385	1,743	63,947	5,299	39,975	28	0	-8,155	–
1990	934	109	3,026	121	17,051	3,319	26	1,384	769	31,545	4,492	2,150	63,884	6,074	R NA	I NA	I NA	R -19,234	–
1991	1,940	123	2,657	126	16,152	3,744	21	1,559	688	32,115	6,333	R 2,167	R 65,561	1,465	R NA	NA	NA	R -13,198	–
1992	2,124	122	3,297	129	15,351	4,011	31	1,430	702	31,928	6,570	R 2,904	R 66,353	4,573	R NA	NA	NA	R -9,035	–
1993	2,100	136	3,329	110	14,126	4,310	41	1,561	714	33,517	4,656	R 2,389	R 64,755	-21	R NA	NA	NA	R 6,684	–
1994	2,479	146	3,422	156	14,008	4,649	74	1,423	747	33,849	4,452	2,578	65,358	0	NA	NA	NA	13,740	–
			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	2.6	212.7	0.0	134.1	0.3	0.0	27.4	415.4
1965	7.1	60.0	13.0	1.4	76.2	4.5	0.1	3.9	3.7	104.2	32.2	9.8	249.0	0.0	172.6	0.3	0.0	46.1	535.0
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	295.7	0.0	313.9	0.5	0.0	-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	9.4	311.2	0.0	360.1	0.3	0.0	-42.0	738.5
1972	2.2	115.3	20.8	0.9	91.4	11.8	0.7	4.6	4.2	145.8	49.5	10.5	340.2	0.0	378.6	0.6	0.0	-55.1	781.9
1973	2.1	114.3	19.0	1.0	94.7	13.5	0.5	4.1	4.9	152.1	46.3	8.0	344.0	0.0	292.4	0.6	0.0	45.5	799.1
1974	3.3	102.4	17.2	1.0	81.2	12.5	1.4	4.2	4.7	148.4	41.1	6.7	318.4	0.0	376.0	0.5	0.0	-17.2	783.2
1975	2.7	114.2	21.4	0.9	77.3	11.7	1.3	2.7	4.1	151.8	27.2	8.3	306.6	(s)	359.6	(s)	0.0	28.3	811.4
1976	5.9	95.8	18.5	0.9	82.8	11.6	1.2	2.6	4.6	161.5	21.8	6.8	312.3	23.2	367.0	0.5	0.0	16.2	821.0
1977	5.2	75.6	18.6	1.0	97.9	13.0	2.1	2.8	4.6	168.4	21.1	8.9	338.3	69.9	254.5	2.7	0.0	71.2	817.3
1978	4.7	90.0	20.1	1.0	100.1	14.3	3.0	3.1	4.9	176.0	28.9	8.8	360.1	17.1	330.6	1.4	0.0	73.6	877.5
1979	4.7	97.9	21.6	1.1	106.5	14.9	0.9	5.4	5.1	167.3	34.2	6.9	363.9	48.9	309.2	2.2	0.0	77.9	904.6
1980	12.1	82.3	16.5	1.3	97.7	13.9	0.6	5.0	4.6	160.3	28.4	6.1	334.3	58.8	314.0	1.7	0.0	60.1	863.3
1981	25.8	78.9	12.2	1.1	95.7	9.6	0.8	4.6	4.4	156.1	39.9	9.3	333.6	70.9	336.2	1.3	0.0	6.3	852.9
1982	11.8	73.9	11.1	0.6	87.2	10.1	0.5	4.8	4.0	149.1	66.2	7.9	341.5	53.1	472.8	0.4	0.0	-131.1	822.4
1983	9.9	69.8	14.4	0.6	93.4	10.0	0.4	4.8	4.2	148.7	26.7	5.0	308.3	40.2	474.2	0.0	(s)	-129.4	773.0
1984	11.8	81.5	16.7	0.6	91.7	11.1	0.3	4.7	4.4	154.2	36.3	4.0	324.1	51.3	486.9	0.0	0.0	-114.2	841.4
1985	10.0	85.5	18.8	0.7	89.7	12.1	0.4	5.5	4.1	152.5	31.2	4.8	319.9	74.7	479.3	0.0	0.0	-149.9	819.6
1986	2.9	72.5	14.8	1.0	86.8	14.8	0.2	5.5	4.1	157.3	34.5	7.1	326.0	76.5	439.7	0.0	0.0	-121.1	796.6
1987	3.7	82.5	14.2	0.6	94.4	16.5	0.1	5.5	4.6	160.6	32.0	11.0	339.5	46.9	424.2	0.0	0.0	-48.1	848.6
1988	3.1	89.2	16.1	0.5	96.0	18.0	0.1	5.8	4.4	168.8	38.7	10.8	359.2	68.1	374.9	1.0	0.0	-6.3	889.1
1989	6.8	111.8	18.6	0.5	94.7	19.1	0.3	5.9	4.5	167.4	33.9	10.4	355.3	56.8	412.4	0.3	0.0	-27.8	915.7
1990	15.7	111.7	20.1	0.6	99.3	18.8	0.1	5.0	4.7	165.7	28.2	12.8	355.4	64.9	RI 443.2	I 67.6	I 0.3	R -65.6	RI 997.7
1991	32.8	127.0	17.6	0.6	94.1	21.1	0.1	5.6	4.2	168.7	39.8	R 12.8	R 364.7	15.7	R 453.9	68.0	0.3	R -45.0	R 1,025.7
1992	40.8	126.6	21.9	0.7	89.4	22.7	0.2	5.2	4.3	167.7	41.3	R 17.2	R 370.5	48.8	R 375.6	71.5	0.3	R -30.8	R 1,018.2
1993	37.1	140.6	22.1	0.6	82.3	24.4	0.2	5.6	4.3	176.1	29.3	R 14.1	R 358.9	-0.2	R 394.8	69.8	0.4	R 22.8	R 1,032.0
1994	44.6	152.3	22.7	0.8	81.6	26.4	0.4	5.2	4.5	177.8	28.0	15.3	362.6	0.0	345.5	69.9	0.4	46.9	1,038.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
NA=Not available.
– =Not applicable.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Oregon

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	56	0	56	7	2,865	1	507	3,373	0	0	5,263	–	13,090	–
1965	45	0	45	11	3,382	5	785	4,172	0	0	7,169	–	17,118	–
1970	11	0	11	20	3,101	65	867	4,033	0	0	9,850	–	23,871	–
1971	15	0	15	21	3,254	33	945	4,232	0	0	10,835	–	26,195	–
1972	10	0	10	23	3,321	19	808	4,148	0	0	11,303	–	27,207	–
1973	6	0	6	22	3,057	8	714	3,779	0	0	11,694	–	27,996	–
1974	4	0	4	22	2,594	48	637	3,279	0	0	11,809	–	28,794	–
1975	5	0	5	29	2,390	48	362	2,800	0	0	12,096	–	29,178	–
1976	8	0	8	21	2,659	40	355	3,054	0	0	12,152	–	29,271	–
1977	7	0	7	10	3,115	69	375	3,559	0	0	12,377	–	29,887	–
1978	7	0	7	18	2,880	143	361	3,384	0	0	12,779	–	31,264	–
1979	7	0	7	19	2,703	63	608	3,374	0	0	13,749	–	33,181	–
1980	6	0	6	18	2,019	37	574	2,630	0	0	13,545	–	32,937	–
1981	1	0	1	17	2,535	71	629	3,235	0	0	13,182	–	31,416	–
1982	2	0	2	19	2,111	60	611	2,782	0	0	13,825	–	33,206	–
1983	1	0	1	17	1,845	28	722	2,595	0	0	13,116	–	31,423	–
1984	2	0	2	19	2,086	26	441	2,553	0	0	14,050	–	32,702	–
1985	1	0	1	21	2,374	41	517	2,932	0	0	14,526	–	34,128	–
1986	(s)	0	(s)	19	2,045	22	435	2,501	0	0	13,722	–	31,565	–
1987	1	0	1	19	1,747	10	419	2,176	0	0	13,711	–	31,328	–
1988	2	0	2	21	1,843	10	316	2,168	0	0	14,338	–	32,416	–
1989	2	(s)	2	23	1,889	38	359	2,286	0	0	15,085	–	33,830	–
1990	1	0	1	23	1,784	13	380	2,177	[e] 501	[e] 81	15,380	–	R 33,607	–
1991	(s)	0	(s)	26	1,487	13	488	1,989	528	91	15,949	–	R 34,677	–
1992	(s)	0	(s)	23	1,068	17	432	1,517	556	98	15,202	–	R 32,453	–
1993	(s)	1	1	30	1,036	18	483	1,537	469	107	16,696	–	R 35,261	–
1994	(s)	(s)	(s)	29	933	50	510	1,493	459	121	16,462	–	34,331	–
	Trillion Btu													
1960	1.4	0.0	1.4	7.0	16.7	(s)	2.0	18.7	0.0	0.0	18.0	45.1	44.7	89.7
1965	1.1	0.0	1.1	11.6	19.7	(s)	3.2	22.9	0.0	0.0	24.5	60.1	58.4	118.5
1970	0.3	0.0	0.3	20.6	18.1	0.4	3.3	21.7	0.0	0.0	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	0.0	0.0	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	0.0	0.0	38.6	85.7	92.8	178.5
1973	0.1	0.0	0.1	23.6	17.8	(s)	2.7	20.5	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	46.2	79.7	112.4	192.0
1981	(s)	0.0	(s)	17.9	14.8	0.4	2.3	17.5	0.0	0.0	45.0	80.4	107.2	187.6
1982	(s)	0.0	(s)	19.5	12.3	0.3	2.2	14.8	0.0	0.0	47.2	81.6	113.3	194.9
1983	(s)	0.0	(s)	17.5	10.7	0.2	2.6	13.5	0.0	0.0	44.8	75.8	107.2	183.0
1984	(s)	0.0	(s)	20.2	12.1	0.1	1.6	13.9	0.0	0.0	47.9	82.1	111.6	193.6
1985	(s)	0.0	(s)	22.1	13.8	0.2	1.9	15.9	0.0	0.0	49.6	87.6	116.4	204.1
1986	(s)	0.0	(s)	19.5	11.9	0.1	1.6	13.6	0.0	0.0	46.8	79.9	107.7	187.6
1987	(s)	0.0	(s)	19.3	10.2	0.1	1.5	11.8	0.0	0.0	46.8	77.8	106.9	184.7
1988	(s)	0.0	(s)	21.3	10.7	0.1	1.2	11.9	0.0	0.0	48.9	82.2	110.6	192.8
1989	(s)	(s)	0.1	23.3	11.0	0.2	1.3	12.5	0.0	0.0	51.5	87.4	115.4	202.8
1990	(s)	0.0	(s)	23.9	10.4	0.1	1.4	11.8	[e] 10.0	[e] 0.3	52.5	R [e] 98.6	R 114.7	R [e] 213.2
1991	(s)	0.0	(s)	27.1	8.7	0.1	1.8	10.5	10.6	0.3	54.4	R 102.9	118.3	R 221.3
1992	(s)	0.0	(s)	24.0	6.2	0.1	1.6	7.9	11.1	0.3	51.9	R 95.2	110.7	R 205.9
1993	(s)	(s)	(s)	31.0	6.0	0.1	1.7	7.9	9.4	0.4	57.0	R 105.6	120.3	R 225.9
1994	(s)	(s)	(s)	30.2	5.4	0.3	1.9	7.6	9.2	0.4	56.2	103.5	117.1	220.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Oregon

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	104	0	104	3	1,485	(s)	89	139	991	2,704	3,083	–	7,669	–
1965	84	0	84	6	1,752	4	139	206	1,046	3,147	4,557	–	10,881	–
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	78	296	295	2,735	9,773	–	22,747	–
1985	2	0	2	19	1,384	26	91	231	191	1,922	10,340	–	24,292	–
1986	1	0	1	17	1,341	7	77	234	328	1,987	10,350	–	23,809	–
1987	2	0	2	17	1,622	5	74	243	220	2,163	10,786	–	24,645	–
1988	3	0	3	18	1,520	9	56	238	331	2,154	11,333	–	25,621	–
1989	4	(s)	4	20	1,075	7	63	220	264	1,630	11,614	–	26,046	–
1990	1	0	1	20	1,336	8	67	271	287	1,969	12,092	–	R 26,423	–
1991	1	0	1	22	995	4	86	174	256	1,514	12,396	–	R 26,952	–
1992	1	0	1	20	767	5	76	165	243	1,256	12,576	–	R 26,847	–
1993	1	(s)	1	24	548	11	85	32	175	851	12,861	–	R 27,162	–
1994	(s)	(s)	1	23	513	14	90	33	111	760	13,428	–	28,004	–
	Trillion Btu													
1960	2.6	0.0	2.6	3.2	8.6	(s)	0.4	0.7	6.2	16.0	10.5	32.3	26.2	58.4
1965	2.1	0.0	2.1	6.0	10.2	(s)	0.6	1.1	6.6	18.4	15.5	42.0	37.1	79.2
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	(s)	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	1.9	15.7	33.3	66.8	77.6	144.4
1985	(s)	0.0	(s)	19.6	8.1	0.1	0.3	1.2	1.2	10.9	35.3	65.9	82.9	148.8
1986	(s)	0.0	(s)	17.2	7.8	(s)	0.3	1.2	2.1	11.4	35.3	64.0	81.2	145.2
1987	(s)	0.0	(s)	17.2	9.4	(s)	0.3	1.3	1.4	12.4	36.8	66.4	84.1	150.5
1988	0.1	0.0	0.1	18.8	8.9	0.1	0.2	1.2	2.1	12.4	38.7	70.0	87.4	157.4
1989	0.1	(s)	0.1	21.0	6.3	(s)	0.2	1.2	1.7	9.4	39.6	70.0	88.9	158.9
1990	(s)	0.0	(s)	20.9	7.8	(s)	0.2	1.4	1.8	11.3	41.3	73.5	R 90.2	R 163.7
1991	(s)	0.0	(s)	23.0	5.8	(s)	0.3	0.9	1.6	8.6	42.3	74.0	R 92.0	165.9
1992	(s)	0.0	(s)	20.3	4.5	(s)	0.3	0.9	1.5	7.2	42.9	70.4	91.6	162.0
1993	(s)	(s)	(s)	25.0	3.2	0.1	0.3	0.2	1.1	4.8	43.9	73.8	R 92.7	166.4
1994	(s)	(s)	(s)	24.0	3.0	0.1	0.3	0.2	0.7	4.3	45.8	74.1	95.5	169.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Oregon

Year	Coal	Natural Gas [a]	Petroleum: Asphalt and Road Oil [b]	Petroleum: Distillate Fuel [b]	Petroleum: Kerosene [b]	Petroleum: LPG [b]	Petroleum: Lubricants [b]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [b]	Petroleum: Other [b,c]	Petroleum: Total	Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	217	20	1,820	3,723	44	558	175	1,080	3,411	434	11,244	77	0	0	5,247	–	13,051	–
1965	175	39	1,960	4,287	10	33	208	808	3,398	1,653	12,358	61	0	0	7,167	–	17,111	–
1970	109	58	2,167	3,413	107	212	281	722	4,217	1,613	12,733	77	0	0	9,123	–	22,109	–
1971	114	59	2,735	3,548	99	218	236	599	4,641	1,577	13,652	60	0	0	9,268	–	22,406	–
1972	74	63	3,141	4,251	84	244	252	623	5,743	1,769	16,109	8	0	0	8,743	–	21,045	–
1973	85	60	2,862	4,108	78	235	304	597	5,324	1,354	14,862	10	0	0	9,598	–	22,978	–
1974	144	55	2,595	3,075	171	350	291	587	4,664	1,128	12,861	40	0	0	10,657	–	25,984	–
1975	116	57	3,218	2,827	143	287	189	560	2,922	1,395	11,541	40	0	0	12,402	–	29,916	–
1976	283	49	2,790	3,077	141	277	210	504	2,307	1,152	10,459	27	0	0	14,108	–	33,983	–
1977	256	43	2,803	3,626	251	288	221	482	2,204	1,490	11,366	32	0	0	12,815	–	30,944	–
1978	232	48	3,030	3,619	277	335	238	407	2,207	1,487	11,600	16	0	0	13,623	–	33,329	–
1979	236	49	3,253	3,986	52	654	249	403	1,299	1,178	11,073	29	0	0	14,010	–	33,811	–
1980	213	39	2,483	3,992	38	614	221	417	2,528	1,043	11,337	28	0	0	13,847	–	33,671	–
1981	313	40	1,839	3,264	18	379	212	315	1,751	1,558	9,336	28	0	0	15,376	–	36,645	–
1982	157	32	1,669	2,922	24	530	194	284	3,481	1,316	10,420	28	0	0	11,847	–	28,454	–
1983	216	32	2,173	3,238	1	385	203	188	857	847	7,892	28	0	0	11,613	–	27,822	–
1984	174	39	2,519	3,659	2	493	216	486	2,162	691	10,227	28	0	0	14,245	–	33,157	–
1985	170	38	2,838	2,545	1	728	201	482	1,679	813	9,289	28	0	0	11,081	–	26,033	–
1986	162	32	2,225	2,476	2	850	197	500	2,153	1,210	9,613	28	0	0	10,994	–	25,289	–
1987	202	37	2,140	3,045	1	822	223	481	1,576	1,845	10,134	28	0	0	13,210	–	30,183	–
1988	172	40	2,423	2,914	2	1,008	215	417	1,606	1,818	10,404	28	0	0	13,633	–	30,821	–
1989	84	44	2,802	2,898	4	1,005	220	478	366	1,743	9,517	28	0	0	14,913	–	33,445	–
1990	82	49	3,026	2,843	4	753	227	423	453	2,150	9,880	R[f]NA	[f]NA	[f]NA	15,498	–	R33,866	–
1991	108	55	2,657	2,291	4	826	203	489	349	R2,167	R8,985	RNA	NA	NA	15,297	–	R33,258	–
1992	129	59	3,297	2,270	9	776	207	254	503	R2,904	R10,220	RNA	NA	NA	15,123	–	R32,285	–
1993	117	61	3,329	2,433	12	850	211	452	677	R2,389	R10,352	RNA	NA	NA	15,012	–	R31,705	–
1994	145	63	3,422	2,091	10	604	220	498	420	2,578	9,844	NA	NA	NA	15,072	–	31,432	–
			Trillion Btu															
1960	4.9	20.9	12.1	21.7	0.3	2.2	1.1	5.7	21.4	2.6	67.0	0.8	0.0	0.0	17.9	111.6	44.5	156.1
1965	3.9	41.5	13.0	25.0	0.1	0.1	1.3	4.2	21.4	9.8	74.8	0.6	0.0	0.0	24.5	145.4	58.4	203.8
1970	2.3	60.3	14.4	19.9	0.6	0.8	1.7	3.8	26.5	9.5	77.1	0.8	0.0	0.0	31.1	171.6	75.4	247.1
1971	2.4	62.0	18.1	20.7	0.6	0.8	1.4	3.1	29.2	9.4	83.3	0.6	0.0	0.0	31.6	179.9	76.4	256.4
1972	1.5	65.4	20.8	24.8	0.5	0.9	1.5	3.3	36.1	10.5	98.4	0.1	0.0	0.0	29.8	195.3	71.8	267.1
1973	1.8	64.0	19.0	23.9	0.4	0.9	1.8	3.1	33.5	8.0	90.7	0.1	0.0	0.0	32.7	189.3	78.4	267.8
1974	3.0	57.6	17.2	17.9	1.0	1.3	1.8	3.1	29.3	6.7	78.2	0.4	0.0	0.0	36.4	175.6	88.7	264.3
1975	2.4	59.6	21.4	16.5	0.8	1.1	1.1	2.9	18.4	8.3	70.4	0.4	0.0	0.0	42.3	175.1	102.1	277.2
1976	5.4	50.4	18.5	17.9	0.8	1.0	1.3	2.6	14.5	6.8	63.5	0.3	0.0	0.0	48.1	167.7	115.9	283.7
1977	4.8	44.7	18.6	21.1	1.4	1.1	1.3	2.5	13.9	8.9	68.8	0.3	0.0	0.0	43.7	162.3	105.6	267.9
1978	4.3	49.9	20.1	21.1	1.6	1.2	1.4	2.1	13.9	8.8	70.3	0.2	0.0	0.0	46.5	171.1	113.7	284.8
1979	4.3	51.6	21.6	23.2	0.3	2.4	1.5	2.1	8.2	6.9	66.2	0.3	0.0	0.0	47.8	170.3	115.4	285.6
1980	3.8	41.0	16.5	23.3	0.2	2.3	1.3	2.2	15.9	6.1	67.8	0.3	0.0	0.0	47.2	160.1	114.9	275.0
1981	5.9	41.4	12.2	19.0	0.1	1.4	1.3	1.7	11.0	9.3	55.9	0.3	0.0	0.0	52.5	156.0	125.0	281.0
1982	2.8	33.8	11.1	17.0	0.1	1.9	1.2	1.5	21.9	7.9	62.6	0.3	0.0	0.0	40.4	139.8	97.1	236.9
1983	3.9	33.4	14.4	18.9	(s)	1.4	1.2	1.0	5.4	5.0	47.3	0.3	0.0	0.0	39.6	124.5	94.9	219.4
1984	3.3	40.9	16.7	21.3	(s)	1.8	1.3	2.6	13.6	4.0	61.3	0.3	0.0	0.0	48.6	154.3	113.1	267.5
1985	3.0	39.0	18.8	14.8	(s)	2.6	1.2	2.5	10.6	4.8	55.4	0.3	0.0	0.0	37.8	135.6	88.8	224.4
1986	2.9	32.3	14.8	14.4	(s)	3.1	1.2	2.6	13.5	7.1	56.8	0.3	0.0	0.0	37.5	129.8	86.3	216.0
1987	3.6	37.8	14.2	17.7	(s)	3.0	1.4	2.5	9.9	11.0	59.7	0.3	0.0	0.0	45.1	146.5	103.0	249.5
1988	3.0	40.8	16.1	17.0	(s)	3.7	1.3	2.2	10.1	10.8	61.2	0.3	0.0	0.0	46.5	151.8	105.2	256.9
1989	1.5	45.3	18.6	16.9	(s)	3.7	1.3	2.5	2.3	10.4	55.7	0.3	0.0	0.0	50.9	153.7	114.1	267.8
1990	1.4	50.1	20.1	16.6	(s)	2.7	1.4	2.2	2.8	12.8	58.7	R[f]2.1	[f]57.5	[e](s)	52.9	R[f]222.8	R115.6	R[f]338.3
1991	1.9	56.8	17.6	13.3	(s)	3.0	1.2	2.6	2.2	R12.8	R52.8	R2.2	57.4	(s)	52.2	R223.2	R113.5	R336.7
1992	2.3	60.8	21.9	13.2	0.1	2.8	1.3	1.3	3.2	R17.2	R60.9	R2.5	60.3	(s)	51.6	R238.5	R110.2	R348.7
1993	2.2	63.2	22.1	14.2	0.1	3.1	1.3	2.4	4.3	R14.1	R61.4	R3.5	60.3	0.0	51.2	R241.8	R108.2	R350.0
1994	2.9	65.6	22.7	12.2	0.1	2.2	1.3	2.6	2.6	15.3	59.0	3.2	60.7	0.0	51.4	242.7	107.2	349.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
–=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Oregon

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	4	(s)	655	2,893	384	10	301	15,142	1,157	20,542	0	0	–	0	–
1965	1	1	277	3,664	812	4	404	18,824	670	24,654	0	0	–	0	–
1970	(s)	6	305	4,782	2,086	18	487	23,987	1,070	32,736	0	0	–	0	–
1971	(s)	7	165	5,688	2,072	21	414	25,312	464	34,136	0	0	–	0	–
1972	(s)	10	178	6,401	2,085	19	443	26,906	271	36,303	0	0	–	0	–
1973	(s)	9	189	7,478	2,386	15	498	28,147	290	39,004	0	0	–	0	–
1974	(s)	7	205	6,870	2,212	14	477	27,451	326	37,554	0	0	–	0	–
1975	(s)	8	171	6,783	2,079	13	490	28,125	438	38,098	0	0	–	0	–
1976	(s)	9	169	7,086	2,055	16	545	30,026	392	40,288	0	0	–	0	–
1977	(s)	9	199	8,183	2,307	19	529	31,366	424	43,026	0	0	–	0	–
1978	0	9	193	9,059	2,534	76	569	32,894	1,666	46,990	0	0	–	0	–
1979	0	9	209	9,265	2,631	96	595	31,268	3,733	47,796	0	0	–	0	–
1980	0	6	260	8,851	2,465	65	530	29,803	1,107	43,080	0	0	–	0	–
1981	0	4	219	9,631	1,694	140	508	29,102	3,608	44,903	0	0	–	0	–
1982	0	3	127	8,927	1,785	74	463	27,798	5,562	44,736	0	0	–	0	–
1983	0	3	125	9,128	1,777	87	485	27,714	3,270	42,587	0	0	–	0	–
1984	0	3	125	7,962	1,962	289	517	28,572	3,309	42,737	0	0	–	0	–
1985	0	5	141	9,088	2,142	191	482	28,328	3,091	43,463	0	0	–	0	–
1986	0	3	193	9,028	2,618	156	471	29,213	3,010	44,688	0	0	–	0	–
1987	0	8	127	9,791	2,928	174	533	29,855	3,293	46,701	0	7	–	15	–
1988	0	8	98	10,195	3,189	201	514	31,479	4,218	49,894	0	8	–	18	–
1989	0	9	102	10,317	3,377	185	527	31,176	4,755	50,439	0	7	–	16	–
1990	0	9	121	11,032	3,319	184	542	30,852	3,752	49,802	[e]0	8	–	17	–
1991	0	9	126	11,356	3,744	158	485	31,452	5,729	53,050	0	9	–	19	–
1992	0	7	129	11,227	4,011	146	495	31,509	5,824	53,341	0	9	–	19	–
1993	0	5	110	10,054	4,310	143	504	33,034	3,804	51,959	0	8	–	R17	–
1994	0	6	156	10,460	4,649	219	527	33,318	3,921	53,251	0	8	–	18	–
			Trillion Btu												
1960	0.1	0.1	3.3	16.9	2.1	(s)	1.8	79.5	7.3	111.0	0.0	0.0	111.1	0.0	111.1
1965	(s)	0.7	1.4	21.3	4.5	(s)	2.4	98.9	4.2	132.8	0.0	0.0	133.6	0.0	133.6
1970	(s)	5.8	1.5	27.9	11.8	0.1	3.0	126.0	6.7	176.9	0.0	0.0	182.7	0.0	182.7
1971	(s)	7.1	0.8	33.1	11.7	0.1	2.5	133.0	2.9	184.1	0.0	0.0	191.2	0.0	191.2
1972	(s)	10.4	0.9	37.3	11.8	0.1	2.7	141.3	1.7	195.7	0.0	0.0	206.1	0.0	206.1
1973	(s)	9.2	1.0	43.6	13.5	0.1	3.0	147.9	1.8	210.8	0.0	0.0	220.0	0.0	220.0
1974	(s)	7.6	1.0	40.0	12.5	0.1	2.9	144.2	2.0	202.7	0.0	0.0	210.4	0.0	210.4
1975	(s)	8.2	0.9	39.5	11.7	(s)	3.0	147.7	2.8	205.6	0.0	0.0	213.8	0.0	213.8
1976	(s)	9.1	0.9	41.3	11.6	0.1	3.3	157.7	2.5	217.3	0.0	0.0	226.4	0.0	226.4
1977	(s)	9.0	1.0	47.7	13.0	0.1	3.2	164.8	2.7	232.4	0.0	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	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	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	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	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	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	0.0	236.4	0.0	236.4
1984	0.0	2.8	0.6	46.4	11.1	1.0	3.1	150.1	20.8	233.1	0.0	0.0	235.9	0.0	235.9
1985	0.0	4.7	0.7	52.9	12.1	0.7	2.9	148.8	19.4	237.6	0.0	0.0	242.3	0.0	242.3
1986	0.0	3.6	1.0	52.6	14.8	0.6	2.9	153.5	18.9	244.1	0.0	0.0	247.7	0.0	247.7
1987	0.0	8.2	0.6	57.0	16.5	0.6	3.2	156.8	20.7	255.6	0.0	(s)	263.8	0.1	263.8
1988	0.0	8.2	0.5	59.4	18.0	0.7	3.1	165.4	26.5	273.6	0.0	(s)	281.9	0.1	281.9
1989	0.0	8.8	0.5	60.1	19.1	0.7	3.2	163.8	29.9	277.2	0.0	(s)	286.1	0.1	286.1
1990	0.0	9.2	0.6	64.3	18.8	0.7	3.3	162.1	23.6	273.2	[e]0.0	(s)	[e]282.5	0.1	[e]282.5
1991	0.0	9.1	0.6	66.2	21.1	0.6	2.9	165.2	36.0	292.7	0.0	(s)	301.8	0.1	301.9
1992	0.0	7.1	0.7	65.4	22.7	0.5	3.0	165.5	36.6	294.4	0.0	(s)	301.5	0.1	301.5
1993	0.0	5.1	0.6	58.6	24.4	0.5	3.1	173.5	23.9	284.5	0.0	(s)	289.6	0.1	289.7
1994	0.0	6.1	0.8	60.9	26.4	0.8	3.2	175.0	24.7	291.7	0.0	(s)	297.8	0.1	297.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Oregon

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	0	0	0	1	3	(s)	0	3	0	12,389	24	0	0	–
1965	0	0	0	(s)	1	(s)	0	1	0	16,447	26	0	0	–
1970	0	0	0	1	18	(s)	0	19	0	29,836	44	0	0	–
1971	0	0	0	0	0	1	0	1	0	34,304	32	0	0	–
1972	0	0	0	0	0	1	0	1	0	36,469	60	0	0	–
1973	0	0	0	3	1	28	0	28	0	28,140	62	0	0	–
1974	0	0	0	(s)	(s)	54	0	54	0	35,964	47	0	0	–
1975	0	0	0	(s)	0	29	0	29	2	34,522	(s)	0	0	–
1976	0	0	0	(s)	0	20	0	20	2,103	35,356	46	0	0	–
1977	0	0	0	(s)	0	266	0	266	6,492	24,352	260	0	0	–
1978	0	0	0	0	0	142	0	142	1,563	31,896	131	0	0	–
1979	0	0	0	2	0	931	0	931	4,495	29,837	210	0	0	–
1980	485	0	485	(s)	0	110	0	110	5,395	30,194	160	0	0	–
1981	1,197	0	1,197	(s)	0	36	0	36	6,424	32,132	120	0	0	–
1982	537	0	537	(s)	0	14	0	14	4,792	45,195	39	0	0	–
1983	358	0	358	(s)	0	25	0	25	3,685	45,049	0	0	(s)	–
1984	506	0	506	(s)	0	10	0	10	4,736	46,607	0	0	0	–
1985	418	0	418	0	0	3	0	3	6,911	45,848	0	0	0	–
1986	0	0	0	(s)	0	4	0	4	7,081	42,068	0	0	0	–
1987	0	0	0	0	0	2	0	2	4,348	40,689	0	0	0	–
1988	0	0	0	0	0	1	0	1	6,339	36,281	99	0	0	–
1989	306	0	306	13	0	76	0	76	5,299	39,946	28	0	0	–
1990	850	0	850	7	0	56	0	56	6,074	R 42,682	1	0	0	–
1991	1,831	0	1,831	11	0	23	0	23	1,465	R 43,643	(s)	0	0	–
1992	1,994	0	1,994	14	0	19	0	19	4,573	R 36,209	6	0	0	–
1993	1,981	0	1,981	16	0	56	0	56	-21	R 38,066	11	0	0	–
1994	2,333	0	2,333	26	0	11	0	11	0	33,327	0	0	0	–
	Trillion Btu													
1960	0.0	0.0	0.0	0.7	(s)	(s)	0.0	(s)	0.0	133.3	0.3	0.0	0.0	134.3
1965	0.0	0.0	0.0	0.1	(s)	(s)	0.0	(s)	0.0	171.9	0.3	0.0	0.0	172.3
1970	0.0	0.0	0.0	1.1	0.1	(s)	0.0	0.1	0.0	313.1	0.5	0.0	0.0	314.7
1971	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	359.4	0.3	0.0	0.0	359.8
1972	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	0.0	378.5	0.6	0.0	0.0	379.1
1973	0.0	0.0	0.0	3.0	(s)	0.2	0.0	0.2	0.0	292.3	0.6	0.0	0.0	296.1
1974	0.0	0.0	0.0	0.3	(s)	0.3	0.0	0.3	0.0	375.5	0.5	0.0	0.0	376.6
1975	0.0	0.0	0.0	(s)	0.0	0.2	0.0	0.2	(s)	359.2	(s)	0.0	0.0	359.4
1976	0.0	0.0	0.0	(s)	0.0	0.1	0.0	0.1	23.2	366.8	0.5	0.0	0.0	390.6
1977	0.0	0.0	0.0	(s)	0.0	1.5	0.0	1.5	69.9	254.1	2.7	0.0	0.0	328.3
1978	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	17.1	330.5	1.4	0.0	0.0	349.8
1979	0.0	0.0	0.0	2.5	0.0	5.4	0.0	5.4	48.9	308.9	2.2	0.0	0.0	367.9
1980	7.9	0.0	7.9	0.3	0.0	0.6	0.0	0.6	58.8	313.7	1.7	0.0	0.0	383.1
1981	19.8	0.0	19.8	0.2	0.0	0.2	0.0	0.2	70.9	335.9	1.3	0.0	0.0	428.2
1982	8.9	0.0	8.9	(s)	0.0	0.1	0.0	0.1	53.1	472.5	0.4	0.0	0.0	535.0
1983	6.0	0.0	6.0	(s)	0.0	0.1	0.0	0.1	40.2	473.9	0.0	0.0	(s)	520.2
1984	8.4	0.0	8.4	(s)	0.0	0.1	0.0	0.1	51.3	486.6	0.0	0.0	0.0	546.4
1985	6.9	0.0	6.9	0.0	0.0	(s)	0.0	(s)	74.7	479.0	0.0	0.0	0.0	560.7
1986	0.0	0.0	0.0	(s)	0.0	(s)	0.0	(s)	76.5	439.4	0.0	0.0	0.0	515.9
1987	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	46.9	423.9	0.0	0.0	0.0	470.8
1988	0.0	0.0	0.0	0.0	0.0	(s)	0.0	(s)	68.1	374.6	1.0	0.0	0.0	443.7
1989	5.2	0.0	5.2	13.4	0.0	0.4	0.0	0.4	56.8	412.1	0.3	0.0	0.0	488.3
1990	14.2	0.0	14.2	7.6	0.0	0.3	0.0	0.3	64.9	R 441.1	(s)	0.0	0.0	532.7
1991	30.9	0.0	30.9	11.0	0.0	0.1	0.0	0.1	15.7	R 451.8	(s)	0.0	0.0	517.8
1992	38.4	0.0	38.4	14.4	0.0	0.1	0.0	0.1	48.8	R 373.0	0.1	0.0	0.0	489.8
1993	34.9	0.0	34.9	16.3	0.0	0.3	0.0	0.3	-0.2	R 391.3	0.1	0.0	0.0	450.5
1994	41.7	0.0	41.7	26.4	0.0	0.1	0.0	0.1	0.0	342.3	0.0	0.0	0.0	426.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Pennsylvania

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	11,573	197,271	230	1,826	0	0	-1,496	–
1965	68,907	629	6,201	1,922	54,459	3,406	3,851	3,030	3,540	85,723	43,238	14,972	220,342	313	1,329	0	0	4,970	–
1970	68,573	772	6,600	662	63,489	9,083	4,251	4,754	3,844	101,718	60,436	14,808	269,645	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	14,444	274,746	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	15,125	292,069	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	15,575	293,176	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	15,280	282,859	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	15,678	261,552	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	17,526	289,497	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	18,719	305,953	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	20,997	306,614	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	20,728	292,669	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	19,451	260,795	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	15,955	238,779	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	14,993	218,823	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	16,781	222,556	14,718	1,170	0	0	-46,670	–
1984	58,648	677	4,061	186	55,036	10,465	1,351	8,778	3,973	102,159	22,962	17,717	226,688	21,564	1,447	0	0	-59,437	–
1985	56,703	626	4,913	208	53,862	10,126	3,557	7,577	3,703	101,955	17,799	16,397	220,097	26,232	972	0	0	-75,188	–
1986	53,103	610	5,956	251	54,276	9,915	3,813	8,430	3,620	104,105	23,616	R 15,605	R 229,588	39,820	1,453	0	0	-111,574	–
1987	55,413	636	6,572	147	57,723	10,530	2,918	8,398	4,093	106,382	23,878	R 17,245	R 237,886	34,982	1,132	0	0	-84,175	–
1988	58,799	669	5,473	189	58,748	11,705	3,693	6,105	3,947	110,875	22,033	R 19,078	R 241,845	37,862	705	0	0	-88,875	–
1989	58,687	682	6,718	177	61,381	9,661	3,071	6,967	4,048	108,862	21,871	R 19,147	R 241,903	39,166	1,290	0	0	-95,006	–
1990	57,319	644	7,466	145	53,913	12,042	1,654	6,313	4,166	106,849	17,687	R 19,780	R 230,016	57,787	R NA	I NA	I NA	R -131,697	–
1991	54,931	639	6,192	116	52,993	11,355	1,781	7,585	3,727	107,047	15,965	R 18,258	R 225,020	57,476	R NA	NA	NA	R -117,700	–
1992	56,074	683	6,036	163	55,063	10,932	1,828	9,176	3,800	107,430	14,904	R 20,913	R 230,246	60,133	R NA	NA	NA	R -129,007	–
1993	56,158	691	6,087	150	61,246	11,787	2,056	5,759	3,869	109,936	18,266	R 18,963	R 238,119	59,331	R NA	NA	NA	R -125,107	–
1994	54,094	698	7,610	136	62,323	11,748	2,078	5,634	4,044	109,571	18,981	19,877	242,003	67,207	NA	NA	NA	-131,602	–
			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	69.3	1,122.9	2.7	19.6	0.0	0.0	-5.1	3,210.2
1965	1,751.2	652.9	41.2	9.7	317.2	19.2	21.8	12.2	21.5	450.3	271.8	88.0	1,252.9	3.7	13.9	0.0	0.0	17.0	3,691.6
1970	1,699.0	797.9	43.8	3.3	369.8	51.4	24.1	18.0	23.3	534.3	380.0	87.0	1,535.0	5.1	14.3	0.0	0.0	9.6	4,060.9
1971	1,619.6	828.6	44.2	3.1	368.0	48.4	26.7	18.5	22.0	563.8	381.8	84.7	1,561.2	4.8	8.2	0.0	0.0	-25.1	3,997.2
1972	1,662.3	856.3	47.5	3.0	403.6	49.0	31.1	21.0	23.6	610.1	378.2	88.7	1,655.7	3.1	15.9	0.0	0.0	-50.9	4,142.4
1973	1,798.6	811.5	46.3	2.9	420.2	52.2	22.5	21.8	29.1	603.3	372.5	91.3	1,662.1	3.9	14.3	0.0	0.0	-39.7	4,250.7
1974	1,661.4	732.7	44.3	2.7	419.5	50.7	20.7	21.2	27.9	571.6	356.1	89.5	1,604.2	78.1	14.5	0.0	0.0	-16.7	4,074.1
1975	1,646.7	670.1	37.6	2.1	396.2	48.4	19.3	22.6	20.3	571.3	261.7	92.2	1,471.7	174.8	16.4	0.0	0.0	-116.8	3,862.8
1976	1,682.8	731.4	41.8	2.1	437.5	47.7	20.2	23.7	22.6	618.3	316.3	102.5	1,632.8	181.4	14.7	0.0	0.0	-130.9	4,112.3
1977	1,578.0	682.4	43.6	2.2	454.5	48.1	14.5	25.2	24.7	631.7	377.0	109.5	1,731.0	191.9	12.6	0.0	0.0	-118.4	4,077.4
1978	1,572.5	688.3	42.0	1.9	439.1	50.7	14.3	26.9	26.5	640.7	366.9	122.9	1,731.9	244.3	7.9	0.0	0.0	-172.5	4,072.3
1979	1,756.3	756.1	42.2	1.7	446.9	56.0	16.7	31.3	27.7	610.2	292.1	120.4	1,645.1	204.5	12.7	0.0	0.0	-186.3	4,188.3
1980	1,636.1	792.8	34.2	1.7	399.6	57.4	15.7	26.7	24.7	566.9	220.7	112.4	1,459.8	131.9	7.6	0.0	0.0	-124.5	3,903.7
1981	1,495.9	802.0	36.0	1.4	348.8	51.0	15.0	27.8	23.7	547.1	187.8	93.1	1,331.8	157.5	6.9	0.0	0.0	-65.8	3,728.3
1982	1,291.5	714.1	35.8	1.0	308.4	48.8	16.6	25.9	21.6	536.5	131.2	88.2	1,214.0	182.4	19.1	0.0	0.0	-148.0	3,273.1
1983	1,337.5	662.6	26.4	1.1	308.0	51.8	10.4	26.1	22.6	539.4	151.5	99.2	1,236.4	160.5	12.3	0.0	0.0	-159.2	3,250.1
1984	1,462.3	699.7	26.9	0.9	320.6	59.2	7.7	31.6	24.1	536.6	144.4	103.1	1,255.1	233.8	15.1	0.0	0.0	-202.8	3,463.3
1985	1,409.1	646.9	32.6	1.0	313.7	57.3	20.2	27.3	22.5	535.6	111.9	96.5	1,218.6	283.6	10.1	0.0	0.0	-256.5	3,311.9
1986	1,318.4	631.9	39.5	1.3	316.2	56.1	21.6	30.7	22.0	546.9	148.5	R 93.1	R 1,275.7	430.0	15.2	0.0	0.0	-380.7	R 3,290.5
1987	1,381.1	659.1	43.6	0.7	336.2	59.6	16.5	30.7	24.8	558.8	150.1	R 101.6	R 1,322.8	377.0	11.8	0.0	0.0	-287.2	R 3,464.5
1988	1,466.2	692.7	36.3	1.0	342.2	66.2	20.9	22.3	23.9	582.4	138.5	R 112.3	R 1,346.1	406.8	7.3	0.0	0.0	-303.2	R 3,615.8
1989	1,463.7	706.8	44.6	0.9	357.5	54.6	17.4	25.7	24.6	571.9	137.5	R 112.0	R 1,346.7	420.0	13.3	0.0	0.0	-324.2	R 3,626.4
1990	1,427.3	667.6	49.5	0.7	314.0	68.2	9.4	22.9	25.3	561.3	111.2	R 115.6	R 1,278.1	617.2	R I 21.5	I 100.7	I 0.4	R -449.3	R I 3,662.3
1991	1,364.8	661.7	41.1	0.6	308.7	64.3	10.1	27.4	22.6	562.3	100.4	R 107.0	R 1,244.4	617.3	R 10.7	101.4	0.4	R -401.6	R 3,598.2
1992	1,407.7	707.1	40.1	0.8	320.7	61.9	10.4	33.3	23.0	564.3	93.7	R 121.6	R 1,269.8	642.1	R 17.1	106.8	0.4	R -440.2	R 3,709.7
1993	1,409.7	716.6	40.4	0.8	356.8	66.7	11.7	20.8	23.5	577.5	114.8	R 110.5	R 1,323.3	633.8	R 15.4	111.5	0.4	R -426.9	R 3,782.4
1994	1,357.8	723.3	50.5	0.7	363.0	66.5	11.8	20.5	24.5	575.6	119.3	115.8	1,348.3	717.5	19.6	114.4	0.4	-449.0	3,830.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Pennsylvania

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	435	4,579	5,014	232	25,101	2,763	1,125	28,989	0	0	11,094	–	27,594	–
1965	277	2,878	3,155	256	28,391	2,753	1,349	32,493	0	0	14,807	–	35,352	–
1970	244	1,755	1,999	297	31,242	3,368	1,890	36,500	0	0	23,007	–	55,754	–
1971	236	1,672	1,908	304	31,383	3,650	1,865	36,897	0	0	24,297	–	58,741	–
1972	149	1,286	1,435	305	33,912	4,284	2,026	40,222	0	0	25,705	–	61,873	–
1973	245	1,267	1,511	293	34,319	3,232	2,016	39,567	0	0	27,423	–	65,651	–
1974	134	1,119	1,253	272	31,931	2,528	1,945	36,403	0	0	27,343	–	66,670	–
1975	115	924	1,039	273	31,587	2,023	2,109	35,719	0	0	27,678	–	66,762	–
1976	115	876	991	290	34,802	2,172	2,217	39,191	0	0	28,850	–	69,495	–
1977	99	840	939	277	35,199	1,836	2,303	39,338	0	0	30,203	–	72,931	–
1978	266	694	959	286	33,102	1,661	2,116	36,879	0	0	30,767	–	75,271	–
1979	140	546	686	289	32,391	2,040	1,379	35,809	0	0	31,410	–	75,803	–
1980	162	664	825	288	27,838	2,362	1,589	31,789	0	0	31,767	–	77,247	–
1981	147	831	978	286	24,202	1,992	1,827	28,022	0	0	31,714	–	75,583	–
1982	223	643	866	272	20,702	2,194	1,777	24,674	0	0	31,467	–	75,578	–
1983	193	558	751	252	20,703	1,260	2,113	24,076	0	0	32,334	–	77,465	–
1984	181	607	788	265	21,232	1,077	2,284	24,593	0	0	33,132	–	77,117	–
1985	171	472	642	245	21,658	2,853	2,299	26,810	0	0	32,686	–	76,794	–
1986	202	515	716	255	18,868	2,973	1,978	23,819	0	0	34,241	–	78,763	–
1987	246	513	759	251	19,067	2,150	2,245	23,462	0	0	35,761	–	81,711	–
1988	210	484	694	268	19,779	2,920	2,360	25,059	0	0	37,828	–	85,520	–
1989	214	492	706	271	22,046	2,534	2,526	27,105	0	0	38,141	–	85,536	–
1990	116	586	702	240	17,007	1,377	2,533	20,917	[e] 1,039	[e] 115	38,164	–	R 83,396	–
1991	192	515	708	243	17,482	1,508	2,940	21,930	1,094	117	39,598	–	R 86,093	–
1992	264	523	787	267	17,640	1,585	3,109	22,333	1,152	119	39,245	–	R 83,780	–
1993	144	507	651	269	20,914	1,655	2,840	25,409	1,233	120	41,455	–	R 87,551	–
1994	89	541	630	268	19,796	1,490	2,890	24,176	1,209	127	42,239	–	88,088	–
	Trillion Btu													
1960	10.8	113.2	124.0	240.2	146.2	15.7	4.5	166.4	0.0	0.0	37.9	568.4	94.1	662.5
1965	6.8	70.0	76.8	265.3	165.4	15.6	5.4	186.4	0.0	0.0	50.5	579.1	120.6	699.7
1970	5.8	41.2	47.0	306.8	182.0	19.1	7.1	208.2	0.0	0.0	78.5	640.6	190.2	830.8
1971	5.6	39.4	45.0	314.4	182.8	20.7	7.0	210.5	0.0	0.0	82.9	652.8	200.4	853.2
1972	3.5	30.1	33.6	315.6	197.5	24.3	7.6	229.4	0.0	0.0	87.7	666.3	211.1	877.5
1973	5.8	28.7	34.5	303.1	199.9	18.3	7.6	225.8	0.0	0.0	93.6	656.9	224.0	880.9
1974	3.1	25.0	28.1	278.4	186.0	14.3	7.3	207.6	0.0	0.0	93.3	607.4	227.5	834.8
1975	2.7	20.6	23.3	279.5	184.0	11.5	7.8	203.3	0.0	0.0	94.4	600.5	227.8	828.3
1976	2.7	19.8	22.6	297.7	202.7	12.3	8.2	223.3	0.0	0.0	98.4	642.0	237.1	879.1
1977	2.4	20.2	22.6	283.2	205.0	10.4	8.5	223.9	0.0	0.0	103.1	632.7	248.8	881.6
1978	6.4	16.9	23.3	292.3	192.8	9.4	7.8	210.0	0.0	0.0	105.0	630.6	256.8	887.4
1979	3.4	13.3	16.6	294.5	188.7	11.6	5.1	205.3	0.0	0.0	107.2	623.6	258.6	882.3
1980	3.9	15.1	19.0	294.7	162.2	13.4	5.8	181.4	0.0	0.0	108.4	603.4	263.6	867.0
1981	3.5	19.7	23.3	292.1	141.0	11.3	6.7	158.9	0.0	0.0	108.2	582.5	257.9	840.4
1982	5.5	15.8	21.3	280.1	120.6	12.4	6.4	139.5	0.0	0.0	107.4	548.2	257.9	806.0
1983	4.8	13.7	18.4	259.6	120.6	7.1	7.6	135.4	0.0	0.0	110.3	523.7	264.3	788.1
1984	4.5	15.3	19.7	274.3	123.7	6.1	8.2	138.0	0.0	0.0	113.0	545.1	263.1	808.2
1985	4.2	10.9	15.1	253.2	126.2	16.2	8.3	150.6	0.0	0.0	111.5	530.5	262.0	792.5
1986	5.0	12.6	17.6	264.0	109.9	16.9	7.2	134.0	0.0	0.0	116.8	532.4	268.7	801.2
1987	6.1	13.5	19.6	260.2	111.1	12.2	8.2	131.5	0.0	0.0	122.0	533.3	278.8	812.1
1988	5.2	12.6	17.8	277.7	115.2	16.6	8.6	140.4	0.0	0.0	129.1	565.0	291.8	856.8
1989	5.4	13.4	18.7	280.8	128.4	14.4	9.3	152.1	0.0	0.0	130.1	581.7	291.8	873.6
1990	2.9	14.8	17.7	248.9	99.1	7.8	9.2	116.1	[e] 20.8	[e] 0.4	130.2	R [e] 534.0	284.5	R [e] 818.5
1991	4.8	13.0	17.8	251.2	101.8	8.5	10.6	121.0	21.9	0.4	135.1	R 547.5	R 293.7	R 841.2
1992	6.7	12.9	19.5	276.1	102.8	9.0	11.3	123.0	23.0	0.4	133.9	R 576.0	R 285.9	R 861.8
1993	3.6	12.2	15.9	279.0	121.8	9.4	10.2	141.4	24.7	0.4	141.4	R 602.8	R 298.7	R 901.5
1994	2.2	13.6	15.8	278.1	115.3	8.4	10.5	134.3	24.2	0.4	144.1	596.9	300.6	897.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Pennsylvania

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	514	1,919	2,433	68	4,935	240	238	2,585	5,899	13,897	9,426	–	22,507	–
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	403	393	2,087	8,887	23,962	–	55,773	–
1985	317	315	631	115	4,933	359	406	448	1,414	7,559	24,610	–	57,820	–
1986	374	343	717	114	6,004	394	349	459	946	8,153	25,922	–	59,628	–
1987	457	342	799	115	5,649	328	396	485	1,202	8,059	27,066	–	61,844	–
1988	390	323	713	127	5,585	421	417	473	1,147	8,042	28,428	–	64,268	–
1989	397	328	725	132	7,296	284	446	452	913	9,391	29,497	–	66,152	–
1990	215	391	606	126	5,588	150	447	697	805	7,688	30,250	–	R 66,103	–
1991	357	343	701	126	5,450	131	519	555	632	7,286	31,669	–	R 68,855	–
1992	491	348	839	134	5,409	102	549	335	885	7,279	31,867	–	R 68,029	–
1993	267	338	606	132	6,001	173	501	87	1,125	7,887	R 33,298	–	R 70,322	–
1994	165	361	526	138	6,916	334	510	87	1,385	9,232	34,437	–	71,817	–
	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
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
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	13.1	51.6	81.8	282.3	190.3	472.6
1985	7.9	7.2	15.1	119.3	28.7	2.0	1.5	2.4	8.9	43.5	84.0	261.8	197.3	459.1
1986	9.3	8.4	17.7	118.6	35.0	2.2	1.3	2.4	5.9	46.8	88.4	271.6	203.4	475.0
1987	11.4	9.0	20.4	118.9	32.9	1.9	1.4	2.5	7.6	46.3	92.4	278.0	211.0	489.0
1988	9.7	8.4	18.1	132.0	32.5	2.4	1.5	2.5	7.2	46.1	97.0	293.2	219.3	512.5
1989	10.0	8.9	18.9	137.3	42.5	1.6	1.6	2.4	5.7	53.9	100.6	310.7	225.7	536.4
1990	5.4	9.8	15.2	130.3	32.6	0.9	1.6	3.7	5.1	43.7	103.2	292.5	225.5	518.0
1991	8.9	8.7	17.6	129.9	31.7	0.7	1.9	2.9	4.0	41.3	108.1	296.9	R 234.9	R 531.8
1992	12.4	8.6	20.9	139.1	31.5	0.6	2.0	1.8	5.6	41.4	108.7	310.1	R 232.1	R 542.3
1993	6.7	8.2	14.9	136.7	35.0	1.0	1.8	0.5	7.1	45.3	113.6	310.4	R 239.9	R 550.4
1994	4.2	9.0	13.2	143.5	40.3	1.9	1.9	0.5	8.7	53.2	117.5	327.4	245.0	572.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Pennsylvania

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	33,140	213	4,731	8,645	503	992	1,432	1,456	29,692	11,573	59,025	16	0	0	20,693	–	51,470	–
1965	40,010	285	6,201	11,641	858	1,383	2,419	1,480	29,434	14,972	68,387	15	0	0	29,075	–	69,421	–
1970	35,753	340	6,600	10,196	589	2,396	2,518	1,181	27,132	14,808	65,420	12	0	0	38,993	–	94,494	–
1971	30,078	350	6,660	9,894	743	2,542	2,309	1,327	27,448	14,444	65,366	6	0	0	39,848	–	96,337	–
1972	29,516	368	7,153	10,256	828	3,033	2,472	1,153	27,881	15,125	67,902	1	0	0	42,641	–	102,639	–
1973	30,845	350	6,976	11,572	460	3,261	3,621	1,142	29,864	15,575	72,472	1	0	0	46,201	–	110,607	–
1974	30,285	312	6,678	11,362	894	3,220	3,468	1,167	28,339	15,280	70,408	1	0	0	45,854	–	111,803	–
1975	28,510	263	5,663	11,033	1,198	3,439	2,255	1,098	21,941	15,678	62,305	1	0	0	41,256	–	99,516	–
1976	28,413	277	6,305	12,581	1,206	3,604	2,505	1,093	25,286	17,526	70,105	1	0	0	43,610	–	105,049	–
1977	25,405	256	6,569	13,872	555	3,931	2,755	1,022	27,630	18,719	75,052	(s)	0	0	44,839	–	108,274	–
1978	24,888	252	6,330	12,583	711	4,618	2,958	830	23,133	19,683	70,847	1	0	0	45,949	–	112,414	–
1979	27,616	313	6,354	15,239	719	6,717	3,096	1,108	18,744	20,103	72,080	1	0	0	47,943	–	115,702	–
1980	21,877	337	5,148	11,128	208	5,238	2,756	586	11,555	19,135	55,755	1	0	0	46,045	–	111,966	–
1981	19,045	333	5,424	10,081	476	5,251	2,644	1,218	7,777	15,618	48,489	1	0	0	46,596	–	111,052	–
1982	10,790	264	5,400	8,920	502	4,862	2,411	1,122	8,190	14,534	45,942	1	0	0	40,280	–	96,747	–
1983	12,319	246	3,985	6,238	211	4,467	2,524	732	3,888	15,830	37,875	1	0	0	41,047	–	98,340	–
1984	16,283	248	4,061	6,398	124	5,726	2,691	558	5,308	16,813	41,679	1	0	0	44,061	–	102,557	–
1985	13,716	231	4,913	5,762	345	4,624	2,508	1,276	2,624	15,615	37,668	1	0	0	42,520	–	99,898	–
1986	11,080	207	5,956	6,590	446	5,911	2,453	1,259	5,105	R 14,714	R 42,433	1	0	0	42,020	–	96,658	–
1987	12,591	232	6,572	7,709	441	5,605	2,773	1,311	5,547	R 16,160	R 46,117	1	0	0	43,989	–	100,512	–
1988	14,226	234	5,473	6,838	353	3,152	2,674	1,387	4,435	R 17,848	R 42,161	1	0	0	46,291	–	104,654	–
1989	14,016	247	6,718	6,332	253	3,825	2,743	1,342	5,612	R 18,012	R 44,837	1	0	0	45,916	–	102,974	–
1990	14,546	241	7,466	6,303	127	3,176	2,822	1,174	5,814	R 18,775	R 45,656	R[f] NA	[f] NA	[f] NA	45,992	–	R 100,501	–
1991	12,860	235	6,192	5,354	143	3,938	2,525	1,253	4,467	R 17,272	R 41,144	R NA	NA	NA	44,728	–	R 97,248	–
1992	14,041	240	6,036	6,260	142	5,330	2,574	1,343	4,205	R 19,891	R 45,780	R NA	NA	NA	44,869	–	R 95,787	–
1993	14,644	246	6,087	6,101	227	2,223	2,621	959	4,302	R 18,031	R 40,551	R NA	NA	NA	44,949	–	R 94,930	–
1994	14,894	241	7,610	5,151	254	1,874	2,740	908	4,125	18,774	41,435	NA	NA	NA	46,076	–	96,089	–
			Trillion Btu															
1960	873.1	220.0	31.4	50.4	2.9	4.0	8.7	7.6	186.7	69.3	360.9	0.2	0.0	0.0	70.6	1,524.8	175.6	1,700.4
1965	1,053.3	296.1	41.2	67.8	4.9	5.5	14.7	7.8	185.0	88.0	414.9	0.2	0.0	0.0	99.2	1,863.7	236.9	2,100.5
1970	932.1	351.2	43.8	59.4	3.3	9.1	15.3	6.2	170.6	87.0	394.7	0.1	0.0	0.0	133.0	1,811.2	322.4	2,133.6
1971	781.6	361.7	44.2	57.6	4.2	9.6	14.0	7.0	172.6	84.7	393.9	0.1	0.0	0.0	136.0	1,673.1	328.7	2,001.8
1972	769.6	380.1	47.5	59.7	4.7	11.4	15.0	6.1	175.3	88.7	408.3	(s)	0.0	0.0	145.5	1,703.5	350.2	2,053.7
1973	804.2	362.2	46.3	67.4	2.6	12.2	22.0	6.0	187.8	91.3	435.5	(s)	0.0	0.0	157.6	1,759.6	377.4	2,137.0
1974	788.9	319.9	44.3	66.2	5.1	12.0	21.0	6.1	178.2	89.5	422.4	(s)	0.0	0.0	156.5	1,687.7	381.5	2,069.1
1975	743.1	269.8	37.6	64.3	6.8	12.8	13.7	5.8	137.9	92.2	371.0	(s)	0.0	0.0	140.8	1,524.7	339.5	1,864.2
1976	745.3	283.4	41.8	73.3	6.8	13.4	15.2	5.7	159.0	102.5	417.7	(s)	0.0	0.0	148.8	1,595.3	358.4	1,953.7
1977	667.1	260.9	43.6	80.8	3.1	14.5	16.7	5.4	173.7	109.5	447.3	(s)	0.0	0.0	153.0	1,528.3	369.4	1,897.7
1978	653.2	257.5	42.0	73.3	4.0	16.9	17.9	4.4	145.4	115.0	419.0	(s)	0.0	0.0	156.8	1,486.5	383.6	1,870.0
1979	725.5	319.1	42.2	88.8	4.1	24.7	18.8	5.8	117.8	116.7	418.8	(s)	0.0	0.0	163.6	1,627.0	394.8	2,021.8
1980	573.1	344.0	34.2	64.8	1.2	19.2	16.7	3.1	72.6	110.5	322.3	(s)	0.0	0.0	157.1	1,396.5	382.0	1,778.5
1981	499.0	340.7	36.0	58.7	2.7	19.1	16.0	6.4	48.9	91.1	279.0	(s)	0.0	0.0	159.0	1,277.6	378.9	1,656.5
1982	280.5	271.3	35.8	52.0	2.8	17.6	14.6	5.9	51.5	85.4	265.6	(s)	0.0	0.0	137.4	954.9	330.1	1,285.0
1983	321.9	252.7	26.4	36.3	1.2	16.1	15.3	3.8	24.4	93.5	217.2	(s)	0.0	0.0	140.1	931.9	335.5	1,267.4
1984	426.5	256.6	26.9	37.3	0.7	20.6	16.3	2.9	33.4	97.6	235.8	(s)	0.0	0.0	150.3	1,069.2	349.9	1,419.1
1985	359.2	238.7	32.6	33.6	2.0	16.7	15.2	6.7	16.5	91.8	215.0	(s)	0.0	0.0	145.1	958.0	340.9	1,298.9
1986	289.3	214.3	39.5	38.4	2.5	21.5	14.9	6.6	32.1	R 87.7	R 243.2	(s)	0.0	0.0	143.4	R 890.3	329.8	R 1,220.1
1987	330.1	240.5	43.6	44.9	2.5	20.5	16.8	6.9	34.9	R 95.1	R 265.2	(s)	0.0	0.0	150.1	R 985.9	342.9	R 1,328.8
1988	373.9	242.0	36.3	39.8	2.0	11.5	16.2	7.3	27.9	R 104.9	R 245.9	(s)	0.0	0.0	157.9	R 1,019.8	357.1	R 1,376.9
1989	368.2	256.2	44.6	36.9	1.4	14.1	16.6	7.1	35.3	R 105.2	R 261.2	(s)	0.0	0.0	156.7	R 1,042.3	351.3	R 1,393.6
1990	382.1	250.3	49.5	36.7	0.7	11.5	17.1	6.2	36.6	R 109.6	R 267.9	R[f] 3.9	[f] 78.8	[f] 0.0	156.9	R[f] 1,139.9	R 342.9	R[f] 1,482.8
1991	337.6	243.1	41.1	31.2	0.8	14.2	15.3	6.6	28.1	R 101.0	R 238.4	R 3.9	78.6	0.0	152.6	R 1,054.2	R 331.8	R 1,386.0
1992	369.2	248.7	40.1	36.5	0.8	19.3	15.6	7.1	26.4	R 115.5	R 261.2	R 4.6	82.6	0.0	153.1	R 1,119.4	R 326.8	R 1,446.2
1993	385.0	254.8	40.4	35.5	1.3	8.0	15.9	5.0	27.0	R 104.8	R 238.1	R 3.8	85.5	0.0	153.4	R 1,120.6	R 323.9	R 1,444.5
1994	392.4	249.3	50.5	30.0	1.4	6.8	16.6	4.8	25.9	109.2	245.2	4.1	88.7	0.0	157.2	1,136.9	327.9	1,464.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Pennsylvania

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	547	15	1,994	7,662	1,036	20	1,343	76,565	5,005	93,625	0	313	–	779	–
1965	127	19	1,922	8,900	3,406	60	1,121	81,658	4,554	101,622	0	222	–	530	–
1970	56	27	662	12,662	9,083	134	1,327	98,082	5,548	127,497	0	149	–	360	–
1971	39	28	623	12,164	8,552	160	1,320	103,900	6,024	132,742	0	161	–	388	–
1972	30	28	599	14,488	8,449	161	1,413	112,575	5,109	142,794	0	157	–	379	–
1973	22	22	573	16,854	9,067	176	1,174	111,839	6,315	145,999	0	156	–	375	–
1974	15	21	542	17,478	8,825	179	1,125	106,340	6,048	140,537	0	178	–	435	–
1975	5	18	426	16,566	8,469	157	1,094	106,357	5,788	138,857	0	196	–	472	–
1976	2	22	425	18,742	8,436	187	1,215	115,655	6,227	150,887	0	200	–	482	–
1977	2	23	436	19,258	8,498	216	1,312	118,036	6,346	154,102	0	192	–	464	–
1978	0	24	382	20,260	8,945	237	1,408	119,584	5,007	155,822	0	172	–	420	–
1979	0	26	342	21,501	9,890	172	1,474	114,074	4,755	152,208	0	192	–	463	–
1980	0	29	337	21,539	10,148	147	1,312	107,026	4,796	145,306	0	178	–	434	–
1981	0	34	278	18,709	9,017	234	1,259	102,264	5,177	136,939	0	177	–	422	–
1982	0	31	197	17,161	8,624	216	1,148	100,522	1,624	129,491	0	184	–	443	–
1983	0	29	210	18,041	9,152	257	1,202	101,281	1,638	131,781	0	256	–	614	–
1984	0	34	186	19,479	10,465	364	1,281	101,209	1,599	134,584	0	289	–	672	–
1985	0	33	208	20,087	10,126	249	1,194	100,231	2,139	134,234	0	335	–	788	–
1986	0	33	251	21,378	9,915	191	1,168	102,387	4,561	139,852	0	345	–	793	–
1987	0	36	147	23,731	10,530	152	1,320	104,587	5,898	146,365	0	324	–	740	–
1988	0	37	189	24,872	11,705	176	1,273	109,015	5,470	152,700	0	345	–	779	–
1989	0	27	177	23,728	9,661	170	1,306	107,068	4,119	146,228	0	346	–	775	–
1990	0	34	145	23,830	12,042	158	1,344	104,979	5,662	148,160	[e] 15,833	344	–	752	–
1991	0	34	116	23,801	11,355	188	1,202	105,239	5,713	147,614	12,550	342	–	744	–
1992	0	39	163	25,036	10,932	189	1,226	105,752	6,994	150,292	15,254	307	–	654	–
1993	0	36	150	27,385	11,787	195	1,248	108,890	6,082	155,737	17,023	R279	–	R589	–
1994	0	38	136	29,058	11,748	360	1,304	108,576	5,994	157,177	18,882	293	–	612	–
			Trillion Btu												
1960	14.0	15.6	10.1	44.6	5.7	0.1	8.1	402.2	31.5	502.3	0.0	1.1	533.0	2.7	535.7
1965	3.2	20.1	9.7	51.8	19.2	0.2	6.8	429.0	28.6	545.4	0.0	0.8	569.4	1.8	571.2
1970	1.3	27.5	3.3	73.8	51.4	0.5	8.0	515.2	34.9	687.1	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.7	836.7	1.6	838.3
1977	(s)	23.7	2.2	112.2	48.1	0.8	8.0	620.0	39.9	831.2	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.9	739.4	2.1	741.5
1984	0.0	35.7	0.9	113.5	59.2	1.3	7.8	531.7	10.1	724.4	0.0	1.0	761.0	2.3	763.3
1985	0.0	34.1	1.0	117.0	57.3	0.9	7.2	526.5	13.4	723.4	0.0	1.1	758.7	2.7	761.4
1986	0.0	34.2	1.3	124.5	56.1	0.7	7.1	537.8	28.7	756.2	0.0	1.2	791.6	2.7	794.3
1987	0.0	37.3	0.7	138.2	59.6	0.6	8.0	549.4	37.1	793.6	0.0	1.1	832.0	2.5	834.6
1988	0.0	38.3	1.0	144.9	66.2	0.6	7.7	572.7	34.4	827.5	0.0	1.2	867.0	2.7	869.6
1989	0.0	28.4	0.9	138.2	54.6	0.6	7.9	562.4	25.9	790.6	0.0	1.2	820.2	2.6	822.8
1990	0.0	35.7	0.7	138.8	68.2	0.6	8.1	551.5	35.6	803.5	[e] 1.2	1.2	[e] 840.3	2.6	[e] 842.9
1991	0.0	35.3	0.6	138.6	64.3	0.7	7.3	552.8	35.9	800.2	1.0	1.2	836.7	2.5	839.2
1992	0.0	39.9	0.8	145.8	61.9	0.7	7.4	555.5	44.0	816.1	1.2	1.0	857.1	2.2	859.4
1993	0.0	37.6	0.8	159.5	66.7	0.7	7.6	572.0	38.2	845.5	1.3	1.0	884.1	R2.0	R886.1
1994	0.0	39.3	0.7	169.3	66.5	1.3	7.9	570.4	37.7	853.7	1.4	1.0	894.1	2.1	896.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Pennsylvania

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	21,024	2,158	23,182	1	3,351	591	0	3,943	313	1,313	0	0	0	–
1970	27,245	1,897	29,141	9	22,502	3,959	0	26,460	465	1,354	0	0	0	–
1971	30,592	1,646	32,238	10	22,013	4,276	0	26,289	445	772	0	0	0	–
1972	33,469	1,584	35,053	5	22,105	4,949	0	27,053	288	1,533	0	0	0	–
1973	37,351	1,443	38,794	3	17,686	3,586	0	21,272	361	1,371	0	0	0	–
1974	33,554	1,498	35,052	8	17,428	5,824	0	23,252	6,998	1,392	0	0	0	–
1975	35,180	1,480	36,659	1	10,273	3,419	0	13,691	15,869	1,575	0	0	0	–
1976	36,097	1,350	37,447	(s)	14,668	2,933	0	17,600	16,425	1,415	0	0	0	–
1977	35,026	1,425	36,451	(s)	21,567	3,584	0	25,151	17,821	1,205	0	0	0	–
1978	35,312	1,064	36,376	(s)	26,234	3,692	1,314	31,240	22,329	759	0	0	0	–
1979	40,402	1,046	41,448	2	19,797	1,958	625	22,380	18,796	1,221	0	0	0	–
1980	41,515	951	42,466	3	17,226	2,238	316	19,780	12,091	734	0	0	0	–
1981	38,656	1,029	39,685	3	15,334	1,735	337	17,405	14,276	659	0	0	0	–
1982	38,898	1,075	39,972	2	9,949	1,442	459	11,850	16,472	1,828	0	0	0	–
1983	39,010	1,036	40,046	2	17,049	2,182	950	20,182	14,718	1,169	0	0	0	–
1984	39,766	1,070	40,836	3	13,967	2,073	904	16,944	21,564	1,446	0	0	0	–
1985	40,681	1,033	41,713	2	11,622	1,423	782	13,827	26,232	971	0	0	0	–
1986	39,760	829	40,589	1	13,005	1,436	891	15,332	39,820	1,452	0	0	0	–
1987	40,291	972	41,263	2	11,231	1,567	1,085	13,882	34,982	1,131	0	0	0	–
1988	42,103	1,063	43,166	3	10,980	1,673	1,230	13,883	37,862	705	0	0	0	–
1989	42,191	1,049	43,241	4	11,228	1,979	1,135	14,342	39,166	1,290	0	0	0	–
1990	40,434	1,031	41,465	2	5,406	1,185	1,005	7,596	57,787	1,703	0	0	0	–
1991	39,667	994	40,662	2	5,153	907	986	7,046	57,476	656	0	0	0	–
1992	39,421	986	40,407	3	2,820	719	1,022	4,560	60,133	1,217	0	0	0	–
1993	39,306	951	40,257	8	6,758	845	932	8,535	59,331	1,124	0	0	0	–
1994	36,921	1,123	38,044	13	7,478	1,402	1,103	9,982	67,207	1,512	0	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	0.0	471.7
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	0.0	601.8
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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	1,279.3
1984	979.5	18.2	997.7	2.6	87.8	12.1	5.4	105.3	233.8	15.1	0.0	0.0	0.0	1,354.6
1985	1,002.3	17.3	1,019.7	1.6	73.1	8.3	4.7	86.1	283.6	10.1	0.0	0.0	0.0	1,401.1
1986	980.9	12.9	993.8	0.7	81.8	8.4	5.4	95.5	430.0	15.2	0.0	0.0	0.0	1,535.2
1987	995.5	15.5	1,011.0	2.1	70.6	9.1	6.5	86.3	377.0	11.8	0.0	0.0	0.0	1,488.1
1988	1,037.9	18.4	1,056.3	2.7	69.0	9.7	7.4	86.2	406.8	7.3	0.0	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	0.0	1,584.3
1990	995.7	16.6	1,012.3	2.4	34.0	6.9	6.1	46.9	617.2	17.6	0.0	0.0	0.0	1,696.4
1991	976.0	15.8	991.8	2.1	32.4	5.3	5.9	43.6	617.3	6.8	0.0	0.0	0.0	1,661.6
1992	981.4	16.7	998.1	3.2	17.7	4.2	6.2	28.1	642.1	12.5	0.0	0.0	0.0	1,684.0
1993	978.2	15.7	993.9	8.6	42.5	4.9	5.6	53.0	633.8	11.6	0.0	0.0	0.0	1,700.8
1994	919.9	16.5	936.4	13.1	47.0	8.2	6.6	61.8	717.5	15.5	0.0	0.0	0.0	1,744.4

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Rhode Island

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	221	26,170	0	9	0	0	467	–
1965	419	16	907	63	6,879	49	666	223	153	6,492	6,276	337	22,045	0	2	0	0	4,095	–
1970	10	25	937	148	8,631	137	432	375	125	8,009	9,727	313	28,833	0	3	0	0	7,135	–
1971	9	26	1,102	157	9,073	125	423	363	122	8,220	10,100	223	29,909	0	1	0	0	8,921	–
1972	7	22	799	181	9,301	174	383	428	131	8,604	9,744	236	29,981	0	6	0	0	10,379	–
1973	7	21	1,306	221	8,881	175	230	449	134	8,625	8,440	261	28,722	0	5	0	0	11,808	–
1974	40	24	1,151	139	8,288	165	175	408	128	8,719	6,381	260	25,814	0	4	0	0	11,109	–
1975	7	23	1,330	285	8,003	271	128	498	97	8,972	4,389	149	24,122	0	3	0	0	12,289	–
1976	6	21	1,282	226	8,633	241	183	549	108	8,813	4,478	364	24,878	0	3	0	0	14,515	–
1977	5	26	1,429	157	8,401	209	128	600	132	9,207	4,738	405	25,406	0	4	0	0	14,364	–
1978	5	23	1,295	200	7,887	260	115	518	141	9,098	3,671	433	23,618	0	4	0	0	14,903	–
1979	5	27	1,014	241	7,237	312	96	317	148	8,873	2,178	512	20,927	0	3	0	0	15,065	–
1980	7	28	1,041	269	5,032	348	84	293	132	8,416	2,525	539	18,680	0	1	0	0	14,042	–
1981	8	29	996	23	3,983	303	54	278	126	8,519	2,204	182	16,668	0	(s)	0	0	13,969	–
1982	8	28	1,203	28	3,972	281	125	328	115	8,415	1,649	138	16,254	0	3	0	0	14,943	–
1983	7	29	1,212	23	4,706	329	60	330	121	8,299	1,465	115	16,661	0	3	0	0	15,254	–
1984	9	32	1,336	21	4,901	571	40	314	129	8,562	1,690	130	17,693	0	2	0	0	15,553	–
1985	9	30	2,974	30	4,452	498	135	501	120	8,663	2,232	127	19,733	0	421	0	0	14,794	–
1986	28	26	1,479	35	5,302	387	168	585	117	8,938	3,771	71	20,853	0	6	0	0	15,916	–
1987	5	36	1,773	42	6,055	528	110	669	133	9,119	2,318	79	20,824	0	9	0	0	16,351	–
1988	175	31	1,741	46	5,935	636	115	564	128	9,289	3,042	62	21,559	0	678	0	0	15,346	–
1989	27	34	1,605	46	5,902	724	63	502	131	8,869	1,701	59	19,601	0	96	0	0	18,373	–
1990	5	36	1,634	42	4,636	776	54	501	135	8,715	1,439	58	17,990	0	R NA	NA	NA	R 17,584	–
1991	4	54	461	30	5,065	656	52	466	121	8,678	1,099	R 13	R 16,640	0	R NA	NA	NA	R 19,017	–
1992	5	78	1,502	30	5,307	556	51	456	123	8,757	1,204	R 14	R 18,001	0	R NA	NA	NA	R 16,687	–
1993	3	76	819	8	5,470	527	50	513	125	8,880	1,320	R 15	R 17,727	0	R NA	NA	NA	R 16,887	–
1994	3	71	1,256	10	5,930	529	50	501	131	8,633	1,180	15	18,236	0	NA	NA	NA	18,303	–
			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	1.3	153.7	0.0	0.1	0.0	0.0	1.6	184.4
1965	11.5	17.0	6.0	0.3	40.1	0.3	3.8	0.9	0.9	34.1	39.5	1.9	127.8	0.0	(s)	0.0	0.0	14.0	170.2
1970	0.2	25.6	6.2	0.7	50.3	0.8	2.4	1.4	0.8	42.1	61.2	1.8	167.6	0.0	(s)	0.0	0.0	24.3	217.8
1971	0.2	26.2	7.3	0.8	52.9	0.7	2.4	1.4	0.7	43.2	63.5	1.3	174.1	0.0	(s)	0.0	0.0	30.4	231.0
1972	0.2	23.0	5.3	0.9	54.2	1.0	2.2	1.6	0.8	45.2	61.3	1.4	173.8	0.0	0.1	0.0	0.0	35.4	232.4
1973	0.1	20.9	8.7	1.1	51.7	1.0	1.3	1.7	0.8	45.3	53.1	1.5	166.2	0.0	(s)	0.0	0.0	40.3	227.5
1974	1.0	24.1	7.6	0.7	48.3	0.9	1.0	1.5	0.8	45.8	40.1	1.5	148.2	0.0	(s)	0.0	0.0	37.9	211.2
1975	0.1	23.5	8.8	1.4	46.6	1.5	0.7	1.8	0.6	47.1	27.6	0.8	137.1	0.0	(s)	0.0	0.0	41.9	202.7
1976	0.1	21.0	8.5	1.1	50.3	1.4	1.0	2.0	0.7	46.3	28.2	2.0	141.5	0.0	(s)	0.0	0.0	49.5	212.2
1977	0.1	26.0	9.5	0.8	48.9	1.2	0.7	2.2	0.8	48.4	29.8	2.3	144.5	0.0	(s)	0.0	0.0	49.0	219.7
1978	0.1	23.3	8.6	1.0	45.9	1.5	0.7	1.9	0.9	47.8	23.1	2.4	133.7	0.0	(s)	0.0	0.0	50.8	208.1
1979	0.1	27.5	6.7	1.2	42.2	1.8	0.5	1.2	0.9	46.6	13.7	2.8	117.6	0.0	(s)	0.0	0.0	51.4	196.7
1980	0.2	28.2	6.9	1.4	29.3	2.0	0.5	1.1	0.8	44.2	15.9	3.0	104.9	0.0	(s)	0.0	0.0	47.9	181.2
1981	0.2	29.8	6.6	0.1	23.2	1.7	0.3	1.0	0.8	44.8	13.9	1.0	93.3	0.0	(s)	0.0	0.0	47.7	171.0
1982	0.2	28.9	8.0	0.1	23.1	1.6	0.7	1.2	0.7	44.2	10.4	0.8	90.8	0.0	(s)	0.0	0.0	51.0	170.8
1983	0.2	30.1	8.0	0.1	27.4	1.9	0.3	1.2	0.7	43.6	9.2	0.6	93.1	0.0	(s)	0.0	0.0	52.0	175.5
1984	0.2	32.6	8.9	0.1	28.5	3.2	0.2	1.1	0.8	45.0	10.6	0.7	99.2	0.0	(s)	0.0	0.0	53.1	185.1
1985	0.2	30.9	19.7	0.2	25.9	2.8	0.8	1.8	0.7	45.5	14.0	0.7	112.2	0.0	4.4	0.0	0.0	50.5	198.1
1986	0.7	27.1	9.8	0.2	30.9	2.2	1.0	2.1	0.7	47.0	23.7	0.4	117.9	0.0	0.1	0.0	0.0	54.3	200.1
1987	0.1	36.9	11.8	0.2	35.3	3.0	0.6	2.4	0.8	47.9	14.6	0.4	117.0	0.0	0.1	0.0	0.0	55.8	209.9
1988	4.4	31.6	11.6	0.2	34.6	3.6	0.7	2.1	0.8	48.8	19.1	0.3	121.7	0.0	7.0	0.0	0.0	52.4	217.0
1989	0.7	34.9	10.6	0.2	34.4	4.1	0.4	1.8	0.8	46.6	10.7	0.3	109.9	0.0	1.0	0.0	0.0	62.7	209.2
1990	0.1	36.8	10.8	0.2	27.0	4.4	0.3	1.8	0.8	45.8	9.0	0.3	100.5	0.0	R 1.6	I 4.2	I (s)	60.0	R 203.6
1991	0.1	55.8	3.1	0.2	29.5	3.7	0.3	1.7	0.7	45.6	6.9	R 0.1	R 91.7	0.0	R 1.6	4.4	(s)	64.9	R 218.9
1992	0.1	79.2	10.0	0.2	30.9	3.1	0.3	1.7	0.7	46.0	7.6	R 0.1	R 100.5	0.0	R 7.6	4.6	(s)	56.9	R 251.4
1993	0.1	77.8	5.4	(s)	31.9	3.0	0.3	1.9	0.8	46.6	8.3	R 0.1	R 98.2	0.0	R 8.6	4.8	(s)	57.6	R 249.7
1994	0.1	73.3	8.3	0.1	34.5	3.0	0.3	1.8	0.8	45.4	7.4	0.1	101.7	0.0	3.6	4.8	(s)	62.4	248.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
NA=Not available.
– –=Not applicable.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Rhode Island

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	0	12	12	7	5,507	770	149	6,426	0	0	620	–	1,542	–
1965	0	8	8	9	4,828	534	134	5,496	0	0	871	–	2,080	–
1970	0	5	5	12	5,835	335	158	6,328	0	0	1,390	–	3,368	–
1971	0	5	5	12	6,131	328	147	6,606	0	0	1,507	–	3,644	–
1972	0	3	3	13	6,376	305	165	6,847	0	0	1,605	–	3,863	–
1973	0	3	3	11	6,040	178	136	6,355	0	0	1,722	–	4,123	–
1974	0	3	3	13	5,464	125	133	5,721	0	0	1,668	–	4,067	–
1975	0	3	3	13	5,395	87	148	5,629	0	0	1,684	–	4,063	–
1976	0	2	2	12	5,861	117	163	6,142	0	0	1,821	–	4,387	–
1977	0	2	2	14	5,769	76	166	6,012	0	0	1,776	–	4,289	–
1978	0	2	2	14	5,437	66	146	5,649	0	0	1,803	–	4,411	–
1979	0	1	1	13	4,956	46	109	5,111	0	0	1,809	–	4,366	–
1980	0	2	2	14	3,297	54	115	3,466	0	0	1,840	–	4,474	–
1981	0	4	4	14	2,567	47	121	2,735	0	0	1,817	–	4,332	–
1982	0	5	5	15	2,466	123	120	2,709	0	0	1,832	–	4,400	–
1983	(s)	4	4	14	2,893	57	143	3,093	0	0	1,913	–	4,582	–
1984	0	4	4	15	2,967	36	163	3,166	0	0	1,957	–	4,554	–
1985	0	3	3	15	3,419	131	279	3,828	0	0	1,971	–	4,630	–
1986	0	3	3	16	2,998	162	256	3,416	0	0	2,064	–	4,747	–
1987	0	2	2	17	3,195	102	304	3,601	0	0	2,186	–	4,994	–
1988	0	2	2	18	3,602	96	264	3,961	0	0	2,319	–	5,243	–
1989	0	2	2	18	3,179	57	272	3,508	0	0	2,370	–	5,315	–
1990	0	3	3	18	2,554	38	277	2,869	[e] 152	[e] 10	2,376	–	R 5,193	–
1991	0	2	2	17	2,688	35	280	3,003	160	11	2,369	–	R 5,150	–
1992	0	3	3	20	3,270	37	267	3,574	168	11	2,363	–	R 5,045	–
1993	0	2	2	20	3,280	40	319	3,639	173	11	2,412	–	R 5,094	–
1994	0	2	2	17	3,517	38	313	3,868	170	11	2,457	–	5,123	–
	Trillion Btu													
1960	0.0	0.3	0.3	6.9	32.1	4.4	0.6	37.0	0.0	0.0	2.1	46.4	5.3	51.7
1965	0.0	0.2	0.2	9.3	28.1	3.0	0.5	31.7	0.0	0.0	3.0	44.2	7.1	51.3
1970	0.0	0.1	0.1	12.2	34.0	1.9	0.6	36.5	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	6.1	54.5	14.6	69.1
1978	0.0	(s)	(s)	13.8	31.7	0.4	0.5	32.6	0.0	0.0	6.2	52.6	15.1	67.6
1979	0.0	(s)	(s)	13.5	28.9	0.3	0.4	29.5	0.0	0.0	6.2	49.3	14.9	64.2
1980	0.0	(s)	(s)	14.3	19.2	0.3	0.4	19.9	0.0	0.0	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	0.0	0.0	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	0.0	0.0	6.3	37.2	15.0	52.2
1983	(s)	0.1	0.1	14.2	16.9	0.3	0.5	17.7	0.0	0.0	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	0.0	0.0	6.7	40.3	15.5	55.9
1985	0.0	0.1	0.1	15.5	19.9	0.7	1.0	21.7	0.0	0.0	6.7	43.9	15.8	59.7
1986	0.0	0.1	0.1	16.6	17.5	0.9	0.9	19.3	0.0	0.0	7.0	43.0	16.2	59.2
1987	0.0	0.1	0.1	17.2	18.6	0.6	1.1	20.3	0.0	0.0	7.5	45.0	17.0	62.1
1988	0.0	(s)	(s)	18.2	21.0	0.5	1.0	22.5	0.0	0.0	7.9	48.6	17.9	66.5
1989	0.0	(s)	(s)	18.8	18.5	0.3	1.0	19.8	0.0	0.0	8.1	46.7	18.1	64.9
1990	0.0	0.1	0.1	18.2	14.9	0.2	1.0	16.1	[e] 3.0	[e] (s)	8.1	R [e] 45.6	17.7	R [e] 63.3
1991	0.0	0.1	0.1	17.9	15.7	0.2	1.0	16.9	3.2	(s)	8.1	R 46.1	17.6	R 63.7
1992	0.0	0.1	0.1	20.4	19.1	0.2	1.0	20.2	3.4	(s)	8.1	R 52.1	17.2	R 69.3
1993	0.0	(s)	(s)	20.3	19.1	0.2	1.2	20.5	3.5	(s)	8.2	R 52.5	17.4	R 69.9
1994	0.0	(s)	(s)	17.9	20.5	0.2	1.1	21.8	3.4	(s)	8.4	51.6	17.5	69.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Rhode Island

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	0	5	5	3	1,211	12	24	32	634	1,913	546	–	1,304	–
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	29	29	410	1,063	2,075	–	4,830	–
1985	0	2	2	8	441	4	49	32	552	1,078	2,159	–	5,073	–
1986	0	2	2	7	806	4	45	35	1,141	2,031	2,268	–	5,216	–
1987	0	2	2	9	891	5	54	36	509	1,494	2,396	–	5,474	–
1988	0	1	1	8	808	3	47	35	620	1,512	2,539	–	5,741	–
1989	0	1	1	9	779	5	48	38	457	1,327	2,630	–	5,897	–
1990	0	2	2	8	673	2	49	38	605	1,367	2,688	–	R5,875	–
1991	0	2	2	8	775	1	49	36	588	1,451	2,671	–	R5,807	–
1992	0	2	2	9	603	3	47	32	523	1,208	2,670	–	R5,700	–
1993	0	1	1	9	640	2	56	10	642	1,350	2,718	–	R5,740	–
1994	0	1	1	12	809	5	55	10	633	1,512	2,737	–	5,707	–
	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
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
1970	0.0	0.1	0.1	5.2	8.5	(s)	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	(s)	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	(s)	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	(s)	0.1	0.2	7.0	16.1	5.6	26.5	13.4	40.0
1974	0.0	(s)	(s)	4.4	8.0	(s)	0.1	0.2	5.3	13.6	5.1	23.1	12.3	35.4
1975	0.0	(s)	(s)	4.3	7.9	(s)	0.1	0.2	3.8	12.0	5.4	21.7	13.0	34.7
1976	0.0	(s)	(s)	2.9	8.6	(s)	0.1	0.2	5.0	13.9	5.8	22.6	13.9	36.5
1977	0.0	(s)	(s)	3.1	8.4	(s)	0.1	0.2	5.2	14.0	5.9	23.0	14.3	37.3
1978	0.0	(s)	(s)	4.8	7.9	(s)	0.1	0.2	3.7	12.0	6.1	23.0	15.0	38.0
1979	0.0	(s)	(s)	6.2	7.2	(s)	0.1	0.2	1.7	9.2	6.4	21.9	15.4	37.3
1980	0.0	(s)	(s)	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	(s)	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	(s)	0.1	0.3	1.4	4.3	6.4	18.2	15.4	33.7
1983	(s)	0.1	0.1	7.2	3.4	(s)	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	(s)	0.1	0.2	2.6	6.3	7.1	21.1	16.5	37.6
1985	0.0	(s)	(s)	7.8	2.6	(s)	0.2	0.2	3.5	6.4	7.4	21.7	17.3	39.0
1986	0.0	(s)	(s)	6.9	4.7	(s)	0.2	0.2	7.2	12.2	7.7	26.9	17.8	44.7
1987	0.0	(s)	(s)	9.7	5.2	(s)	0.2	0.2	3.2	8.8	8.2	26.7	18.7	45.4
1988	0.0	(s)	(s)	8.6	4.7	(s)	0.2	0.2	3.9	9.0	8.7	26.2	19.6	45.8
1989	0.0	(s)	(s)	9.0	4.5	(s)	0.2	0.2	2.9	7.8	9.0	25.8	20.1	45.9
1990	0.0	0.1	0.1	8.3	3.9	(s)	0.2	0.2	3.8	8.1	9.2	25.6	20.0	45.7
1991	0.0	(s)	(s)	8.5	4.5	(s)	0.2	0.2	3.7	8.6	9.1	R26.2	19.8	46.1
1992	0.0	(s)	(s)	R9.2	3.5	(s)	0.2	0.2	3.3	7.2	9.1	25.6	19.4	45.0
1993	0.0	(s)	(s)	9.5	3.7	(s)	0.2	0.1	4.0	8.0	9.3	26.8	19.6	46.4
1994	0.0	(s)	(s)	12.4	4.7	(s)	0.2	0.1	4.0	9.0	9.3	30.7	19.5	50.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Rhode Island

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	4	3	735	367	99	31	52	6	4,051	221	5,561	1	0	0	916	–	2,277	–
1965	4	4	907	431	120	61	85	5	2,135	337	4,082	(s)	0	0	1,274	–	3,042	–
1970	2	6	937	672	89	162	49	3	3,246	313	5,470	0	0	0	1,253	–	3,036	–
1971	1	6	1,102	608	88	157	58	3	3,611	223	5,850	0	0	0	1,298	–	3,138	–
1972	1	4	799	598	71	200	62	2	3,725	236	5,693	0	0	0	1,392	–	3,350	–
1973	1	4	1,306	543	48	253	65	2	3,554	261	6,032	0	0	0	1,487	–	3,560	–
1974	1	4	1,151	470	48	219	62	3	2,696	260	4,909	0	0	0	1,434	–	3,497	–
1975	2	6	1,330	440	40	297	40	3	1,916	149	4,215	0	0	0	1,191	–	2,874	–
1976	2	5	1,282	477	63	326	45	3	2,511	364	5,072	0	0	0	1,314	–	3,165	–
1977	1	9	1,429	492	50	367	62	2	2,643	405	5,450	0	0	0	1,320	–	3,188	–
1978	2	5	1,295	485	47	299	66	2	1,856	433	4,483	0	0	0	1,348	–	3,298	–
1979	3	6	1,014	393	49	176	69	3	871	512	3,087	0	0	0	1,387	–	3,347	–
1980	4	5	1,041	415	30	149	62	2	654	539	2,892	0	0	0	1,399	–	3,402	–
1981	2	5	996	321	6	126	59	2	738	182	2,430	0	0	0	1,342	–	3,198	–
1982	0	5	1,203	323	0	168	54	2	620	138	2,508	0	0	0	1,185	–	2,845	–
1983	0	5	1,212	364	(s)	146	57	2	472	115	2,367	0	0	0	1,266	–	3,034	–
1984	2	5	1,336	374	(s)	91	60	10	644	130	2,645	0	0	0	1,342	–	3,124	–
1985	4	5	2,974	247	(s)	150	56	26	973	127	4,555	0	0	0	1,300	–	3,054	–
1986	23	3	1,479	287	2	266	55	31	1,165	71	3,356	0	0	0	1,326	–	3,051	–
1987	1	4	1,773	543	3	303	62	28	837	79	3,627	0	0	0	1,360	–	3,108	–
1988	172	4	1,741	271	17	234	60	34	633	62	3,051	0	0	0	1,361	–	3,077	–
1989	24	5	1,605	312	1	163	62	35	497	59	2,733	0	0	0	1,360	–	3,049	–
1990	(s)	4	1,634	235	14	156	63	34	459	58	2,654	R[f] NA	[f] NA	[f] NA	1,354	–	R 2,959	–
1991	0	27	461	229	15	122	57	26	379	R 13	R 1,302	R NA	NA	NA	1,363	–	R 2,964	–
1992	0	48	1,502	282	11	128	58	26	460	R 14	R 2,480	R NA	NA	NA	1,359	–	R 2,901	–
1993	0	46	819	289	8	129	59	49	601	R 15	R 1,968	R NA	NA	NA	1,419	–	R 2,996	–
1994	0	41	1,256	306	7	118	61	49	471	15	2,283	NA	NA	NA	1,378	–	2,875	–
			Trillion Btu															
1960	0.1	3.0	4.9	2.1	0.6	0.1	0.3	(s)	25.5	1.3	34.8	(s)	0.0	0.0	3.1	41.0	7.8	48.8
1965	0.1	4.4	6.0	2.5	0.7	0.2	0.5	(s)	13.4	1.9	25.3	(s)	0.0	0.0	4.3	34.2	10.4	44.6
1970	(s)	5.9	6.2	3.9	0.5	0.6	0.3	(s)	20.4	1.8	33.7	0.0	0.0	0.0	4.3	43.9	10.4	54.3
1971	(s)	6.3	7.3	3.5	0.5	0.6	0.4	(s)	22.7	1.3	36.3	0.0	0.0	0.0	4.4	47.0	10.7	57.7
1972	(s)	4.4	5.3	3.5	0.4	0.8	0.4	(s)	23.4	1.4	35.1	0.0	0.0	0.0	4.7	44.3	11.4	55.7
1973	(s)	4.5	8.7	3.2	0.3	0.9	0.4	(s)	22.3	1.5	37.3	0.0	0.0	0.0	5.1	46.9	12.1	59.0
1974	(s)	4.5	7.6	2.7	0.3	0.8	0.4	(s)	17.0	1.5	30.3	0.0	0.0	0.0	4.9	39.7	11.9	51.7
1975	0.1	5.9	8.8	2.6	0.2	1.1	0.2	(s)	12.0	0.8	25.9	0.0	0.0	0.0	4.1	35.9	9.8	45.7
1976	0.1	4.9	8.5	2.8	0.4	1.2	0.3	(s)	15.8	2.0	31.0	0.0	0.0	0.0	4.5	40.4	10.8	51.2
1977	(s)	9.2	9.5	2.9	0.3	1.3	0.4	(s)	16.6	2.3	33.3	0.0	0.0	0.0	4.5	47.0	10.9	57.9
1978	(s)	4.7	8.6	2.8	0.3	1.1	0.4	(s)	11.7	2.4	27.3	0.0	0.0	0.0	4.6	36.6	11.3	47.9
1979	0.1	5.9	6.7	2.3	0.3	0.6	0.4	(s)	5.5	2.8	18.7	0.0	0.0	0.0	4.7	29.4	11.4	40.8
1980	0.1	5.2	6.9	2.4	0.2	0.5	0.4	(s)	4.1	3.0	17.5	0.0	0.0	0.0	4.8	27.6	11.6	39.2
1981	(s)	5.3	6.6	1.9	(s)	0.5	0.4	(s)	4.6	1.0	15.0	0.0	0.0	0.0	4.6	24.9	10.9	35.8
1982	0.0	5.1	8.0	1.9	0.0	0.6	0.3	(s)	3.9	0.8	15.5	0.0	0.0	0.0	4.0	24.6	9.7	34.3
1983	0.0	5.3	8.0	2.1	(s)	0.5	0.3	(s)	3.0	0.6	14.6	0.0	0.0	0.0	4.3	24.2	10.4	34.6
1984	(s)	5.6	8.9	2.2	(s)	0.3	0.4	0.1	4.0	0.7	16.5	0.0	0.0	0.0	4.6	26.7	10.7	37.4
1985	0.1	4.8	19.7	1.4	(s)	0.5	0.3	0.1	6.1	0.7	29.0	0.0	0.0	0.0	4.4	38.3	10.4	48.7
1986	0.6	3.6	9.8	1.7	(s)	1.0	0.3	0.2	7.3	0.4	20.7	0.0	0.0	0.0	4.5	29.3	10.4	39.7
1987	(s)	4.5	11.8	3.2	(s)	1.1	0.4	0.1	5.3	0.4	22.2	0.0	0.0	0.0	4.6	31.4	10.6	42.0
1988	4.3	4.6	11.6	1.6	0.1	0.9	0.4	0.2	4.0	0.3	18.9	0.0	0.0	0.0	4.6	32.5	10.5	42.9
1989	0.6	4.7	10.6	1.8	(s)	0.6	0.4	0.2	3.1	0.3	17.1	0.0	0.0	0.0	4.6	27.0	10.4	37.5
1990	(s)	4.5	10.8	1.4	0.1	0.6	0.4	0.2	2.9	0.3	16.6	R[f] 0.1	[f] 1.2	[f] 0.0	4.6	R[f] 27.0	10.1	R[f] 37.1
1991	0.0	27.6	3.1	1.3	0.1	0.4	0.3	0.1	2.4	R 0.1	R 7.9	R 0.1	1.2	0.0	4.7	R 41.4	10.1	R 51.5
1992	0.0	48.8	10.0	1.6	0.1	0.5	0.4	0.1	2.9	R 0.1	R 15.6	R 0.1	1.2	0.0	4.6	R 70.3	9.9	R 80.2
1993	0.0	47.4	5.4	1.7	(s)	0.5	0.4	0.3	3.8	R 0.1	R 12.1	R 0.1	1.3	0.0	4.8	R 65.7	10.2	R 76.0
1994	0.0	42.1	8.3	1.8	(s)	0.4	0.4	0.3	3.0	0.1	14.3	0.1	1.4	0.0	4.7	62.6	9.8	72.4

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Rhode Island

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	0	(s)	19	838	38	1	103	5,943	3,826	10,768	0	0	–	0	–
1965	0	(s)	63	393	49	4	69	6,455	2,637	9,669	0	0	–	0	–
1970	0	(s)	148	604	137	28	77	7,970	2,519	11,482	0	0	–	0	–
1971	0	(s)	157	745	125	33	64	8,181	2,879	12,185	0	0	–	0	–
1972	0	(s)	181	686	174	33	69	8,563	2,211	11,918	0	0	–	0	–
1973	0	(s)	221	739	175	35	69	8,583	1,296	11,118	0	0	–	0	–
1974	0	(s)	139	935	165	33	66	8,677	822	10,838	0	0	–	0	–
1975	(s)	(s)	285	788	271	27	57	8,929	329	10,685	0	0	–	0	–
1976	(s)	(s)	226	815	241	32	63	8,768	242	10,387	0	0	–	0	–
1977	0	(s)	157	686	209	37	70	9,162	120	10,441	0	0	–	0	–
1978	0	(s)	200	586	260	47	75	9,053	72	10,294	0	0	–	0	–
1979	0	(s)	241	623	312	12	79	8,827	137	10,232	0	0	–	0	–
1980	0	(s)	269	675	348	9	70	8,365	58	9,794	0	0	–	0	–
1981	0	(s)	23	695	303	9	67	8,465	49	9,611	0	0	–	0	–
1982	0	(s)	28	733	281	18	61	8,357	18	9,496	0	0	–	0	–
1983	0	(s)	23	853	329	16	64	8,256	0	9,542	0	0	–	0	–
1984	0	(s)	21	942	571	31	68	8,523	0	10,157	0	0	–	0	–
1985	0	(s)	30	326	498	22	64	8,604	0	9,543	0	0	–	0	–
1986	0	(s)	35	1,182	387	18	62	8,872	6	10,563	0	0	–	0	–
1987	0	(s)	42	1,399	528	8	70	9,055	168	11,270	0	0	–	0	–
1988	0	(s)	46	1,213	636	21	68	9,220	293	11,496	0	0	–	0	–
1989	0	(s)	46	1,598	724	19	70	8,797	68	11,321	0	0	–	0	–
1990	0	(s)	42	1,156	776	19	72	8,642	35	10,742	[e]0	0	–	0	–
1991	0	(s)	30	1,353	656	15	64	8,616	9	10,742	0	0	–	0	–
1992	0	(s)	30	1,136	556	14	65	8,699	59	10,560	0	0	–	0	–
1993	0	(s)	8	1,244	527	9	66	8,822	22	10,698	0	0	–	0	–
1994	0	(s)	10	1,282	529	16	69	8,575	10	10,492	0	0	–	0	–
			Trillion Btu												
1960	0.0	0.2	0.1	4.9	0.2	(s)	0.6	31.2	24.1	61.1	0.0	0.0	61.3	0.0	61.3
1965	0.0	0.1	0.3	2.3	0.3	(s)	0.4	33.9	16.6	53.8	0.0	0.0	53.9	0.0	53.9
1970	0.0	(s)	0.7	3.5	0.8	0.1	0.5	41.9	15.8	63.3	0.0	0.0	63.3	0.0	63.3
1971	0.0	(s)	0.8	4.3	0.7	0.1	0.4	43.0	18.1	67.4	0.0	0.0	67.4	0.0	67.4
1972	0.0	(s)	0.9	4.0	1.0	0.1	0.4	45.0	13.9	65.3	0.0	0.0	65.3	0.0	65.3
1973	0.0	(s)	1.1	4.3	1.0	0.1	0.4	45.1	8.1	60.2	0.0	0.0	60.2	0.0	60.2
1974	0.0	(s)	0.7	5.4	0.9	0.1	0.4	45.6	5.2	58.4	0.0	0.0	58.4	0.0	58.4
1975	(s)	(s)	1.4	4.6	1.5	0.1	0.3	46.9	2.1	57.0	0.0	0.0	57.0	0.0	57.0
1976	(s)	(s)	1.1	4.7	1.4	0.1	0.4	48.1	1.5	55.3	0.0	0.0	55.3	0.0	55.3
1977	0.0	(s)	0.8	4.0	1.2	0.1	0.4	48.1	0.8	55.4	0.0	0.0	55.4	0.0	55.4
1978	0.0	(s)	1.0	3.4	1.5	0.2	0.5	47.6	0.5	54.5	0.0	0.0	54.5	0.0	54.5
1979	0.0	(s)	1.2	3.6	1.8	(s)	0.5	48.4	0.9	54.4	0.0	0.0	54.4	0.0	54.4
1980	0.0	0.2	1.4	3.9	2.0	(s)	0.4	43.9	0.4	52.0	0.0	0.0	52.2	0.0	52.2
1981	0.0	0.1	0.1	4.1	1.7	(s)	0.4	44.5	0.3	51.1	0.0	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	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	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	0.0	54.3	0.0	54.3
1985	0.0	0.1	0.2	1.9	2.8	0.1	0.4	45.2	0.0	50.5	0.0	0.0	50.7	0.0	50.7
1986	0.0	0.1	0.2	6.9	2.2	0.1	0.4	46.6	(s)	56.3	0.0	0.0	56.4	0.0	56.4
1987	0.0	0.1	0.2	8.1	3.0	(s)	0.4	47.6	1.1	60.4	0.0	0.0	60.5	0.0	60.5
1988	0.0	0.1	0.2	7.1	3.6	0.1	0.4	48.4	1.8	61.7	0.0	0.0	61.8	0.0	61.8
1989	0.0	0.1	0.2	9.3	4.1	0.1	0.4	48.2	0.4	60.8	0.0	0.0	60.9	0.0	60.9
1990	0.0	0.1	0.2	6.7	4.4	0.1	0.4	45.4	0.2	57.5	[e]0.0	0.0	[e]57.6	0.0	[e]57.6
1991	0.0	0.2	0.2	7.9	3.7	0.1	0.4	45.3	0.1	57.5	0.0	0.0	57.7	0.0	57.7
1992	0.0	0.4	0.2	6.6	3.1	0.1	0.4	45.7	0.4	56.4	0.0	0.0	56.8	0.0	56.8
1993	0.0	0.2	(s)	7.2	3.0	(s)	0.4	46.3	0.1	57.2	0.0	0.0	57.4	0.0	57.4
1994	0.0	0.4	0.1	7.5	3.0	0.1	0.4	45.0	0.1	56.1	0.0	0.0	56.5	0.0	56.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Rhode Island

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	574	0	574	(s)	714	13	0	727	0	8	0	0	0	–
1965	403	0	403	(s)	870	16	0	886	0	1	0	0	0	–
1970	0	0	0	2	2,990	56	0	3,047	0	3	0	0	0	–
1971	0	0	0	3	2,508	51	0	2,559	0	1	0	0	0	–
1972	0	0	0	(s)	2,660	41	0	2,702	0	6	0	0	0	–
1973	0	0	0	(s)	2,482	44	0	2,526	0	5	0	0	0	–
1974	34	0	34	2	2,023	49	0	2,072	0	4	0	0	0	–
1975	0	0	0	(s)	1,542	26	0	1,568	0	3	0	0	0	–
1976	0	0	0	1	936	9	0	945	0	3	0	0	0	–
1977	0	0	0	0	1,142	8	0	1,150	0	4	0	0	0	–
1978	0	0	0	0	1,156	15	0	1,171	0	4	0	0	0	–
1979	0	0	0	2	901	21	0	923	0	3	0	0	0	–
1980	0	0	0	2	1,634	28	0	1,662	0	1	0	0	0	–
1981	0	0	0	3	1,228	19	0	1,246	0	(s)	0	0	0	–
1982	0	0	0	1	786	18	0	804	0	3	0	0	0	–
1983	0	0	0	3	694	19	0	713	0	3	0	0	0	–
1984	0	0	0	4	637	26	0	663	0	2	0	0	0	–
1985	0	0	0	3	708	20	0	728	0	421	0	0	0	–
1986	0	0	0	0	1,459	28	0	1,487	0	6	0	0	0	–
1987	0	0	0	5	805	27	0	832	0	9	0	0	0	–
1988	0	0	0	(s)	1,496	42	0	1,538	0	678	0	0	0	–
1989	0	0	0	2	679	35	0	713	0	96	0	0	0	–
1990	0	0	0	5	340	19	0	358	0	R142	0	0	0	–
1991	0	0	0	2	123	19	0	142	0	R142	0	0	0	–
1992	0	0	0	(s)	162	17	0	178	0	R732	0	0	0	–
1993	0	0	0	(s)	55	18	0	72	0	R828	0	0	0	–
1994	0	0	0	1	65	16	0	82	0	335	0	0	0	–
	Trillion Btu													
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	0.0	21.2
1965	11.1	0.0	11.1	0.5	5.5	0.1	0.0	5.6	0.0	(s)	0.0	0.0	0.0	17.1
1970	0.0	0.0	0.0	2.4	18.8	0.3	0.0	19.1	0.0	(s)	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	(s)	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	0.0	17.2
1973	0.0	0.0	0.0	(s)	15.6	0.3	0.0	15.9	0.0	(s)	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	(s)	0.0	0.0	0.0	15.9
1975	0.0	0.0	0.0	(s)	9.7	0.2	0.0	9.8	0.0	(s)	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	(s)	0.0	0.0	0.0	6.6
1977	0.0	0.0	0.0	0.0	7.2	(s)	0.0	7.2	0.0	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	4.4	0.0	0.0	0.0	11.6
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	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	0.0	10.8
1988	0.0	0.0	0.0	0.2	9.4	0.2	0.0	9.7	0.0	7.0	0.0	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	0.0	7.7
1990	0.0	0.0	0.0	5.7	2.1	0.1	0.0	2.2	0.0	R1.5	0.0	0.0	0.0	9.8
1991	0.0	0.0	0.0	1.7	0.8	0.1	0.0	0.9	0.0	R1.5	0.0	0.0	0.0	4.5
1992	0.0	0.0	0.0	0.5	1.0	0.1	0.0	1.1	0.0	R7.5	0.0	0.0	0.0	11.4
1993	0.0	0.0	0.0	0.4	0.3	0.1	0.0	0.4	0.0	R8.5	0.0	0.0	0.0	11.9
1994	0.0	0.0	0.0	0.6	0.4	0.1	0.0	0.5	0.0	3.4	0.0	0.0	0.0	6.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, South Carolina

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	380	39,661	0	3,611	0	0	9,266	–
1965	4,760	87	1,721	354	4,849	2,958	3,297	2,097	351	21,430	3,916	372	41,344	75	3,517	0	0	11,622	–
1970	5,817	160	2,220	228	9,423	3,170	2,377	2,927	386	28,756	5,335	512	55,335	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	793	57,926	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	882	61,511	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	1,003	66,570	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	1,053	64,962	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	982	62,415	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	2,006	71,694	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	2,373	77,510	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	2,556	77,589	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	3,101	73,642	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	3,883	67,083	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	5,048	64,299	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	3,877	59,694	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	2,960	61,659	25,581	3,098	0	0	-1,172	–
1984	9,768	108	1,242	122	11,510	3,080	427	2,520	530	37,133	5,013	3,539	65,117	23,235	3,177	0	0	12,080	–
1985	10,479	97	1,367	136	11,731	3,184	1,484	3,161	494	37,710	2,921	3,553	65,741	31,826	1,835	0	0	-9,917	–
1986	10,461	99	2,068	156	11,696	3,168	1,181	2,880	483	39,284	2,401	4,055	67,372	35,625	1,266	0	0	-11,680	–
1987	11,701	106	2,425	119	11,850	3,193	1,359	3,620	546	38,973	2,458	4,622	69,166	39,290	2,209	0	0	-27,206	–
1988	11,937	112	3,297	127	12,606	3,229	1,484	3,536	527	37,450	3,274	4,720	70,248	40,746	680	0	0	-27,480	–
1989	11,981	117	2,313	120	12,499	3,117	1,426	3,672	541	42,627	2,743	4,593	73,651	40,780	2,065	0	0	-30,985	–
1990	11,447	130	1,983	101	14,538	2,939	659	2,914	556	43,016	2,450	5,444	74,600	42,881	I NA	I NA	I NA	R -35,263	–
1991	11,451	134	1,941	180	15,289	3,442	851	3,606	498	42,547	2,433	R 7,028	R 77,817	43,108	R NA	NA	NA	R -34,066	–
1992	11,285	138	2,067	226	13,737	2,586	524	3,597	507	43,140	2,394	R 7,908	R 76,686	45,537	R NA	NA	NA	R -36,627	–
1993	12,914	142	2,358	169	13,652	2,024	760	3,660	517	45,067	3,812	R 7,262	R 79,278	46,189	R NA	NA	NA	R -40,123	–
1994	12,993	145	1,993	114	15,516	1,451	474	3,871	540	45,266	2,607	7,551	79,384	44,466	NA	NA	NA	-36,044	–
			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	2.2	219.5	0.0	38.8	0.0	0.0	31.6	446.9
1965	121.5	90.5	11.4	1.8	28.2	15.8	18.7	8.4	2.1	112.6	24.6	2.1	225.8	0.9	36.8	0.0	0.0	39.7	515.1
1970	140.1	164.3	14.7	1.2	54.9	17.1	13.5	11.1	2.3	151.1	33.5	2.8	302.2	0.1	24.1	0.0	0.0	76.1	706.8
1971	152.0	160.6	14.0	1.0	52.7	17.6	17.3	11.4	2.4	160.2	34.9	4.4	315.8	26.2	36.5	0.0	0.0	49.7	740.8
1972	174.9	148.2	14.6	1.1	57.4	16.8	12.5	12.8	2.5	172.5	40.0	4.9	335.2	52.1	34.7	0.0	0.0	51.9	797.0
1973	167.9	157.1	14.5	0.9	62.4	15.1	10.4	12.7	3.0	181.5	59.2	5.6	365.3	67.2	40.6	0.0	0.0	50.3	848.5
1974	155.3	135.3	17.8	0.7	55.9	15.1	6.9	11.0	2.9	181.1	60.2	5.8	357.4	123.4	36.1	0.0	0.0	13.0	820.5
1975	140.2	125.9	16.2	0.7	48.8	14.5	5.8	11.9	2.8	186.1	48.2	5.5	340.5	214.3	45.9	0.0	0.0	-63.3	803.5
1976	171.0	152.4	13.6	0.8	61.2	13.8	6.8	13.6	3.1	196.5	73.1	11.2	393.8	197.2	35.4	0.0	0.0	-24.3	925.5
1977	189.6	141.6	14.0	0.7	76.5	14.8	7.7	13.8	3.3	200.8	82.7	13.3	427.6	185.6	31.8	0.0	0.0	-13.1	963.1
1978	192.3	121.3	14.4	0.8	64.8	15.5	6.9	13.7	3.5	210.1	82.9	14.4	427.0	212.9	33.2	0.0	0.0	-29.6	957.2
1979	206.8	121.5	13.1	0.8	69.4	15.9	6.5	10.9	3.7	199.1	68.7	17.2	405.3	198.2	41.0	0.0	0.0	-22.3	950.5
1980	245.8	146.9	10.2	0.8	62.1	16.6	7.7	11.7	3.3	186.6	45.3	21.6	365.8	189.8	31.4	0.0	0.0	-3.3	976.4
1981	266.5	145.2	9.7	0.7	57.2	15.5	3.8	10.3	3.2	187.0	33.6	28.3	349.3	191.1	13.1	0.0	0.0	20.4	985.7
1982	271.5	101.0	8.0	0.6	55.3	14.8	3.4	9.4	2.9	186.2	19.7	21.7	322.0	145.7	25.4	0.0	0.0	80.9	948.6
1983	233.9	104.4	12.6	0.7	61.5	13.7	3.6	9.5	3.0	188.6	24.7	16.7	334.6	279.0	32.6	0.0	0.0	-4.0	980.3
1984	244.0	111.2	8.2	0.6	67.0	16.6	2.4	9.1	3.2	195.1	31.5	19.6	353.4	251.9	33.2	0.0	0.0	41.2	1,035.0
1985	262.7	100.2	9.1	0.7	68.3	17.2	8.4	11.4	3.0	198.1	18.4	19.8	354.4	344.1	19.2	0.0	0.0	-33.8	1,046.7
1986	263.9	101.5	13.7	0.8	68.1	17.2	6.7	10.5	2.9	206.4	15.1	22.6	364.0	384.7	13.2	0.0	0.0	-39.9	1,087.6
1987	295.3	108.6	16.1	0.6	69.0	17.3	7.7	13.2	3.3	204.7	15.5	25.9	373.4	423.4	23.0	0.0	0.0	-92.8	1,130.9
1988	301.8	115.3	21.9	0.6	73.4	17.5	8.4	12.9	3.2	196.7	20.6	26.5	381.9	437.7	7.0	0.0	0.0	-93.8	1,150.0
1989	301.5	119.9	15.3	0.6	72.8	16.9	8.1	13.5	3.3	223.9	17.2	25.8	397.5	437.3	21.3	0.0	0.0	-105.7	1,171.7
1990	289.3	134.1	13.2	0.5	84.7	16.0	3.7	10.6	3.4	226.0	15.4	30.7	404.1	458.0	RI 28.8	I 69.7	I (s)	R -120.3	RI 1,263.7
1991	290.9	137.4	12.9	0.9	89.1	18.7	4.8	13.0	3.0	223.5	15.3	R 39.1	R 420.4	463.0	26.4	70.0	(s)	R -116.2	R 1,291.9
1992	288.3	141.8	13.7	1.1	80.0	14.1	3.0	13.0	3.1	226.6	15.1	R 44.1	R 413.8	486.2	R 28.6	73.6	(s)	R -125.0	R 1,307.3
1993	329.5	R 145.6	15.6	0.9	79.5	11.1	4.3	13.2	3.1	236.7	24.0	R 40.2	R 428.6	493.4	R 27.9	73.5	(s)	R -136.9	R 1,361.7
1994	330.7	149.0	13.2	0.6	90.4	8.1	2.7	14.1	3.3	237.8	16.4	41.8	428.3	474.7	24.8	74.9	(s)	-123.0	1,359.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, South Carolina

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	117	0	117	7	1,595	3,475	926	5,996	0	0	3,272	–	8,139	–
1965	80	0	80	12	1,178	2,606	1,419	5,203	0	0	4,371	–	10,437	–
1970	86	0	86	19	2,400	2,011	1,778	6,188	0	0	7,347	–	17,805	–
1971	81	0	81	20	2,214	2,493	1,779	6,486	0	0	7,841	–	18,957	–
1972	72	0	72	21	2,479	1,896	1,960	6,335	0	0	8,234	–	19,819	–
1973	86	0	86	23	2,292	1,640	1,896	5,828	0	0	9,299	–	22,261	–
1974	87	0	87	20	1,986	1,023	1,609	4,618	0	0	9,351	–	22,801	–
1975	84	0	84	18	1,695	858	1,750	4,304	0	0	9,837	–	23,728	–
1976	51	0	51	33	2,325	957	1,927	5,210	0	0	10,360	–	24,956	–
1977	42	0	42	32	2,362	843	1,952	5,156	0	0	11,310	–	27,311	–
1978	15	0	15	28	2,011	744	1,859	4,614	0	0	11,714	–	28,658	–
1979	17	0	17	18	1,979	974	1,454	4,407	0	0	11,419	–	27,558	–
1980	69	0	69	19	1,580	1,200	1,510	4,290	0	0	12,580	–	30,590	–
1981	37	0	37	19	1,429	553	1,561	3,542	0	0	13,067	–	31,143	–
1982	41	0	41	18	1,133	526	1,305	2,963	0	0	13,493	–	32,408	–
1983	60	0	60	19	1,174	506	1,551	3,231	0	0	13,819	–	33,106	–
1984	40	0	40	19	1,204	366	1,576	3,146	0	0	14,568	–	33,909	–
1985	23	1	23	16	1,153	1,211	1,859	4,223	0	0	14,661	–	34,445	–
1986	77	0	77	17	1,175	992	1,678	3,845	0	0	16,122	–	37,085	–
1987	42	0	42	20	1,400	1,154	1,969	4,523	0	0	16,913	–	38,644	–
1988	44	(s)	44	21	1,120	1,280	1,970	4,371	0	0	17,172	–	38,821	–
1989	6	(s)	6	20	1,282	1,186	2,089	4,556	0	0	17,464	–	39,165	–
1990	2	(s)	2	18	1,010	550	1,682	3,241	[e] 390	[e] 4	18,258	–	R 39,896	–
1991	8	(s)	8	20	998	731	1,970	3,698	411	4	18,707	–	R 40,672	–
1992	11	(s)	11	22	690	441	2,117	3,248	432	4	18,940	–	R 40,432	–
1993	34	7	41	24	833	645	2,141	3,619	470	4	20,687	–	R 43,689	–
1994	19	4	23	23	668	372	2,185	3,224	461	4	19,903	–	41,507	–
									Trillion Btu					
1960	2.9	0.0	2.9	7.1	9.3	19.7	3.7	32.7	0.0	0.0	11.2	53.9	27.8	81.6
1965	2.0	0.0	2.0	12.4	6.9	14.8	5.7	27.3	0.0	0.0	14.9	56.6	35.6	92.3
1970	2.0	0.0	2.0	19.5	14.0	11.4	6.7	32.1	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	47.1	83.2	113.0	196.2
1984	1.0	0.0	1.0	19.7	7.0	2.1	5.7	14.8	0.0	0.0	49.7	85.2	115.7	200.9
1985	0.6	(s)	0.6	16.9	6.7	6.9	6.7	20.3	0.0	0.0	50.0	87.8	117.5	205.3
1986	1.9	0.0	1.9	18.0	6.8	5.6	6.1	18.6	0.0	0.0	55.0	93.5	126.5	220.0
1987	1.1	0.0	1.1	20.8	8.2	6.5	7.2	21.9	0.0	0.0	57.7	101.4	131.9	233.3
1988	1.1	(s)	1.1	21.3	6.5	7.3	7.2	21.0	0.0	0.0	58.6	102.0	132.5	234.5
1989	0.1	(s)	0.2	21.0	7.5	6.7	7.7	21.9	0.0	0.0	59.6	102.6	133.6	236.3
1990	0.1	(s)	0.1	18.9	5.9	3.1	6.1	15.1	[e] 7.8	[e] (s)	62.3	R [e] 104.2	136.1	R [e] 240.3
1991	0.2	(s)	0.2	20.1	5.8	4.1	7.1	17.1	8.2	(s)	63.8	R 109.5	R 138.8	R 248.2
1992	0.3	(s)	0.3	23.0	4.0	2.5	7.7	14.2	8.6	(s)	64.6	R 110.7	R 138.0	R 248.7
1993	0.8	0.2	1.0	25.1	4.9	3.7	7.7	16.2	9.4	(s)	70.6	R 122.3	R 149.1	R 271.4
1994	0.5	0.1	0.6	24.2	3.9	2.1	7.9	13.9	9.2	(s)	67.9	115.9	141.6	257.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, South Carolina

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	148	0	148	7	350	70	250	301	121	1,092	2,531	–	6,043	–
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	278	210	103	1,456	9,205	–	21,424	–
1985	42	(s)	42	15	841	48	328	230	80	1,527	9,778	–	22,973	–
1986	142	0	142	16	702	55	296	240	33	1,326	10,506	–	24,166	–
1987	78	0	78	17	868	53	347	248	34	1,550	11,018	–	25,174	–
1988	82	(s)	82	17	1,054	26	348	235	47	1,710	11,524	–	26,054	–
1989	11	(s)	11	17	925	71	369	206	37	1,608	12,092	–	27,118	–
1990	4	(s)	4	15	607	12	297	255	17	1,188	12,693	–	R27,736	–
1991	14	(s)	14	16	523	12	348	119	25	1,026	13,002	–	R28,268	–
1992	20	(s)	20	17	671	14	374	103	53	1,214	13,156	–	R28,086	–
1993	63	5	68	17	849	20	378	31	28	1,306	13,979	–	R29,523	–
1994	35	3	38	18	651	26	386	31	66	1,161	14,195	–	29,602	–
	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
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
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	1.0	1.1	0.6	7.8	31.4	58.1	73.1	131.2
1985	1.0	(s)	1.1	15.7	4.9	0.3	1.2	1.2	0.5	8.1	33.4	58.2	78.4	136.6
1986	3.6	0.0	3.6	16.4	4.1	0.3	1.1	1.3	0.2	6.9	35.8	62.7	82.5	145.2
1987	2.0	0.0	2.0	17.7	5.1	0.3	1.3	1.3	0.2	8.1	37.6	65.4	85.9	151.3
1988	2.0	(s)	2.1	17.9	6.1	0.1	1.3	1.2	0.3	9.1	39.3	68.4	88.9	157.3
1989	0.3	(s)	0.3	17.0	5.4	0.4	1.4	1.1	0.2	8.5	41.3	67.0	92.5	159.5
1990	0.1	(s)	0.1	15.8	3.5	0.1	1.1	1.3	0.1	6.1	43.3	65.4	94.6	160.0
1991	0.4	(s)	0.4	16.2	3.0	0.1	1.3	0.6	0.2	5.1	44.4	66.1	R96.5	162.5
1992	0.5	(s)	0.5	17.1	3.9	0.1	1.4	0.5	0.3	6.2	44.9	68.7	95.8	164.5
1993	1.6	0.1	1.7	R17.5	4.9	0.1	1.4	0.2	0.2	6.8	47.7	73.7	100.7	174.4
1994	0.9	0.1	0.9	18.4	3.8	0.1	1.4	0.2	0.4	5.9	48.4	73.7	101.0	174.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, South Carolina

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	1,758	23	1,636	1,959	920	273	86	614	3,392	380	9,261	97	0	0	6,234	–	15,506	–
1965	1,835	47	1,721	1,748	621	415	108	517	2,438	372	7,941	79	0	0	7,450	–	17,789	–
1970	1,861	79	2,220	2,655	313	775	149	332	1,608	512	8,564	37	0	0	10,110	–	24,499	–
1971	1,544	79	2,107	2,457	488	864	149	286	3,088	793	10,231	46	0	0	10,967	–	26,514	–
1972	1,332	82	2,200	2,787	265	1,022	160	209	3,661	882	11,186	48	0	0	13,955	–	33,591	–
1973	1,203	86	2,191	2,590	156	1,066	235	279	4,014	1,003	11,535	46	0	0	14,847	–	35,544	–
1974	1,370	73	2,683	2,128	170	983	225	236	3,305	1,053	10,784	43	0	0	14,512	–	35,385	–
1975	1,200	70	2,440	2,040	143	1,066	248	209	2,687	982	9,813	48	0	0	12,766	–	30,793	–
1976	1,356	74	2,052	2,633	214	1,286	276	170	6,314	2,006	14,952	47	0	0	14,365	–	34,604	–
1977	1,384	69	2,116	3,189	485	1,335	282	146	7,234	2,373	17,161	49	0	0	15,068	–	36,384	–
1978	1,450	56	2,169	2,256	448	1,423	303	133	6,536	2,556	15,823	45	0	0	15,419	–	37,723	–
1979	1,503	76	1,971	2,066	150	1,206	317	113	6,298	3,101	15,222	51	0	0	15,986	–	38,579	–
1980	1,805	92	1,535	1,875	127	1,368	282	96	4,245	3,883	13,412	49	0	0	15,979	–	38,855	–
1981	2,074	95	1,455	1,798	97	919	271	73	2,580	5,048	12,241	49	0	0	18,016	–	42,938	–
1982	2,292	62	1,203	1,501	54	997	247	54	2,013	3,877	9,946	49	0	0	17,622	–	42,326	–
1983	2,200	63	1,901	1,472	106	702	259	28	2,915	2,960	10,342	49	0	0	18,658	–	44,702	–
1984	2,226	70	1,242	1,510	49	526	276	297	3,979	3,539	11,417	49	0	0	21,429	–	49,878	–
1985	2,525	63	1,367	1,699	225	834	257	701	2,233	3,553	10,870	49	0	0	21,829	–	51,286	–
1986	2,465	61	2,068	1,532	134	830	251	634	1,759	4,055	11,264	49	0	0	22,805	–	52,459	–
1987	2,562	65	2,425	1,395	152	1,234	284	665	1,835	4,622	12,612	49	0	0	24,036	–	54,921	–
1988	2,602	69	3,297	1,671	177	1,131	274	642	2,454	4,720	14,367	49	0	0	24,113	–	54,513	–
1989	2,491	75	2,313	1,907	170	1,126	281	733	2,000	4,593	13,123	49	0	0	24,301	–	54,499	–
1990	2,310	87	1,983	1,950	97	848	289	699	1,915	5,444	13,225	R[f] NA	[f] NA	[f] NA	24,701	–	R 53,977	–
1991	2,212	86	1,941	2,102	109	1,194	259	672	1,606	R 7,028	R 14,910	R NA	NA	NA	25,361	–	R 55,139	–
1992	2,177	94	2,067	1,779	69	1,020	264	716	1,793	R 7,908	R 15,616	R NA	NA	NA	26,305	–	R 56,155	–
1993	2,395	96	2,358	1,564	94	1,058	269	387	3,089	R 7,262	R 16,081	R NA	NA	NA	26,867	–	R 56,741	–
1994	2,334	98	1,993	1,339	76	1,159	281	414	2,456	7,551	15,270	NA	NA	NA	27,760	–	57,893	–
			Trillion Btu															
1960	44.7	23.3	10.9	11.4	5.2	1.1	0.5	3.2	21.3	2.2	55.9	1.0	0.0	0.0	21.3	146.2	52.9	199.1
1965	46.2	48.7	11.4	10.2	3.5	1.7	0.7	2.7	15.3	2.1	47.6	0.8	0.0	0.0	25.4	168.8	60.7	229.5
1970	44.2	80.9	14.7	15.5	1.8	2.9	0.9	1.7	10.1	2.8	50.5	0.4	0.0	0.0	34.5	210.5	83.6	294.0
1971	36.2	81.5	14.0	14.3	2.8	3.3	0.9	1.5	19.4	4.4	60.5	0.5	0.0	0.0	37.4	216.1	90.5	306.5
1972	31.0	84.1	14.6	16.2	1.5	3.8	1.0	1.1	23.0	4.9	66.1	0.5	0.0	0.0	47.6	229.4	114.6	344.0
1973	28.1	87.9	14.5	15.1	0.9	4.0	1.4	1.5	25.2	5.6	68.2	0.5	0.0	0.0	50.7	235.3	121.3	356.6
1974	31.8	74.9	17.8	12.4	1.0	3.7	1.4	1.2	20.8	5.8	64.1	0.4	0.0	0.0	49.5	220.7	120.7	341.4
1975	28.2	72.0	16.2	11.9	0.8	4.0	1.5	1.1	16.9	5.5	57.8	0.5	0.0	0.0	43.6	202.0	105.1	307.1
1976	32.3	75.2	13.6	15.3	1.2	4.8	1.7	0.9	39.7	11.2	88.4	0.5	0.0	0.0	49.0	245.4	118.1	363.5
1977	32.7	70.4	14.0	18.6	2.7	4.9	1.7	0.8	45.5	13.3	101.6	0.5	0.0	0.0	51.4	256.5	124.1	380.7
1978	34.3	57.3	14.4	13.1	2.5	5.2	1.8	0.7	41.1	14.4	93.3	0.5	0.0	0.0	52.6	238.0	128.7	366.7
1979	36.2	76.8	13.1	12.0	0.9	4.4	1.9	0.6	39.6	17.2	89.7	0.5	0.0	0.0	54.5	257.8	131.6	389.4
1980	44.0	95.1	10.2	10.9	0.7	5.0	1.7	0.5	26.7	21.6	77.4	0.5	0.0	0.0	54.5	271.6	132.6	404.1
1981	50.4	97.5	9.7	10.5	0.5	3.3	1.6	0.4	16.2	28.3	70.6	0.5	0.0	0.0	61.5	280.5	146.5	427.0
1982	56.1	63.4	8.0	8.7	0.3	3.6	1.5	0.3	12.7	21.7	56.8	0.5	0.0	0.0	60.1	237.0	144.4	381.4
1983	54.4	64.5	12.6	8.6	0.6	2.5	1.6	0.1	18.3	16.7	61.1	0.5	0.0	0.0	63.7	244.2	152.5	396.7
1984	55.1	71.3	8.2	8.8	0.3	1.9	1.7	1.6	25.0	19.6	67.1	0.5	0.0	0.0	73.1	267.1	170.2	437.3
1985	62.8	64.8	9.1	9.9	1.3	3.0	1.6	3.7	14.0	19.8	62.3	0.5	0.0	0.0	74.5	264.9	175.0	439.9
1986	61.5	63.3	13.7	8.9	0.8	3.0	1.5	3.3	11.1	22.6	65.0	0.5	0.0	0.0	77.8	268.1	179.0	447.1
1987	64.2	67.2	16.1	8.1	0.9	4.5	1.7	3.5	11.5	25.9	72.3	0.5	0.0	0.0	82.0	286.1	187.4	473.5
1988	65.2	71.0	21.9	9.7	1.0	4.1	1.7	3.4	15.4	26.5	83.8	0.5	0.0	0.0	82.3	302.7	186.0	488.7
1989	62.0	76.5	15.3	11.1	1.0	4.1	1.7	3.9	12.6	25.8	75.5	0.5	0.0	0.0	82.9	297.4	186.0	483.3
1990	58.0	89.3	13.2	11.4	0.5	3.1	1.8	3.7	12.0	30.7	76.3	R[f] 0.6	[f] 61.9	[f] 0.0	84.3	R[f] 370.4	R 184.2	R[f] 554.6
1991	55.8	88.1	12.9	12.2	0.6	4.3	1.6	3.5	10.1	R 39.1	R 84.4	R 0.6	61.8	0.0	86.5	R 377.2	188.1	R 565.3
1992	54.8	96.9	13.7	10.4	0.4	3.7	1.6	3.8	11.3	R 44.1	R 88.9	R 0.7	64.9	0.0	89.8	R 396.0	R 191.6	R 587.6
1993	60.3	98.3	15.6	9.1	0.5	3.8	1.6	2.0	19.4	R 40.2	R 92.4	R 0.6	64.1	0.0	91.7	R 407.4	R 193.6	R 601.0
1994	58.5	100.5	13.2	7.8	0.4	4.2	1.7	2.2	15.4	41.8	86.8	0.7	65.7	0.0	94.7	407.0	197.5	604.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, South Carolina

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	30	1	215	1,196	3,131	13	289	17,205	1,139	23,188	0	0	–	0	–
1965	6	2	354	1,556	2,958	12	243	20,612	1,313	27,048	0	0	–	0	–
1970	3	3	228	2,899	3,170	60	237	28,220	1,605	36,420	0	0	–	0	–
1971	2	3	201	3,018	3,258	74	240	30,013	1,409	38,212	0	0	–	0	–
1972	1	3	221	2,957	3,108	87	257	32,425	1,090	40,145	0	0	–	0	–
1973	1	4	182	4,493	2,794	88	258	34,055	1,227	43,097	0	0	–	0	–
1974	1	2	146	4,448	2,800	82	247	34,014	869	42,606	0	0	–	0	–
1975	(s)	3	142	4,019	2,692	79	213	34,995	419	42,560	0	0	–	0	–
1976	(s)	3	164	4,555	2,562	99	237	37,012	672	45,302	0	0	–	0	–
1977	(s)	3	141	5,324	2,732	110	261	37,843	424	46,835	0	0	–	0	–
1978	0	4	159	5,410	2,854	124	280	39,631	604	49,061	0	0	–	0	–
1979	0	3	155	6,863	2,941	51	293	37,551	790	48,645	0	0	–	0	–
1980	0	3	149	6,156	3,062	33	261	35,181	844	45,686	0	0	–	0	–
1981	0	3	134	5,661	2,865	70	250	35,272	1,066	45,318	0	0	–	0	–
1982	0	3	119	6,253	2,745	74	228	35,138	811	45,369	0	0	–	0	–
1983	0	3	133	6,943	2,529	94	239	35,564	935	46,437	0	0	–	0	–
1984	0	3	122	7,800	3,080	139	255	36,627	932	48,955	0	0	–	0	–
1985	0	2	136	7,855	3,184	140	237	36,778	606	48,936	0	0	–	0	–
1986	0	2	156	8,171	3,168	76	232	38,410	607	50,820	0	0	–	0	–
1987	0	2	119	8,073	3,193	70	262	38,060	588	50,366	0	0	–	0	–
1988	0	2	127	8,567	3,229	86	253	36,572	772	49,605	0	0	–	0	–
1989	0	3	120	8,132	3,117	89	260	41,689	672	54,079	0	0	–	0	–
1990	0	3	101	10,855	2,939	87	267	42,062	509	56,820	[e]0	0	–	0	–
1991	0	3	180	11,535	3,442	95	239	41,756	791	58,039	0	0	–	0	–
1992	0	3	226	10,454	2,586	87	244	42,321	534	56,450	0	0	–	0	–
1993	0	3	169	10,266	2,024	82	248	44,649	634	58,073	0	0	–	0	–
1994	0	3	114	12,590	1,451	142	259	44,820	76	59,452	0	0	–	0	–
			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	0.0	126.2	0.0	126.2
1965	0.1	2.4	1.8	9.1	15.8	(s)	1.5	108.3	8.3	144.8	0.0	0.0	147.3	0.0	147.3
1970	0.1	3.4	1.2	16.9	17.1	0.2	1.4	148.2	10.1	195.2	0.0	0.0	198.6	0.0	198.6
1971	(s)	3.3	1.0	17.6	17.6	0.3	1.5	157.7	8.9	204.4	0.0	0.0	207.8	0.0	207.8
1972	(s)	3.1	1.1	17.2	16.8	0.3	1.6	170.3	6.9	214.2	0.0	0.0	217.3	0.0	217.3
1973	(s)	3.6	0.9	26.2	15.1	0.3	1.6	178.9	7.7	230.7	0.0	0.0	234.3	0.0	234.3
1974	(s)	2.2	0.7	25.9	15.1	0.3	1.5	178.7	5.5	227.7	0.0	0.0	229.9	0.0	229.9
1975	(s)	2.7	0.7	23.4	14.5	0.3	1.3	183.8	2.6	226.7	0.0	0.0	229.4	0.0	229.4
1976	(s)	3.5	0.8	26.5	13.8	0.4	1.4	194.4	4.2	241.7	0.0	0.0	245.1	0.0	245.1
1977	(s)	3.3	0.7	31.0	14.8	0.4	1.6	198.8	2.7	249.9	0.0	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	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	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	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	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	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	0.0	252.0	0.0	252.0
1984	0.0	2.7	0.6	45.4	16.6	0.5	1.5	192.4	5.9	263.0	0.0	0.0	265.6	0.0	265.6
1985	0.0	2.3	0.7	45.8	17.2	0.5	1.4	193.2	3.8	262.6	0.0	0.0	264.9	0.0	264.9
1986	0.0	2.4	0.8	47.6	17.2	0.3	1.4	201.8	3.8	272.8	0.0	0.0	275.3	0.0	275.3
1987	0.0	2.5	0.6	47.0	17.3	0.3	1.6	199.9	3.7	270.4	0.0	0.0	272.9	0.0	272.9
1988	0.0	2.6	0.6	49.9	17.5	0.3	1.5	192.1	4.9	266.9	0.0	0.0	269.4	0.0	269.4
1989	0.0	2.6	0.6	47.4	16.9	0.3	1.6	219.0	4.2	290.0	0.0	0.0	292.7	0.0	292.7
1990	0.0	2.9	0.5	63.2	16.0	0.3	1.6	220.9	3.2	305.9	[e]0.0	0.0	[e]308.8	0.0	[e]308.8
1991	0.0	2.9	0.9	67.2	18.7	0.3	1.4	219.3	5.0	312.9	0.0	0.0	315.8	0.0	315.8
1992	0.0	3.0	1.1	60.9	14.1	0.3	1.5	222.3	3.4	303.6	0.0	0.0	306.6	0.0	306.6
1993	0.0	2.8	0.9	59.8	11.1	0.3	1.5	234.5	4.0	312.1	0.0	0.0	314.9	0.0	314.9
1994	0.0	2.7	0.6	73.3	8.1	0.5	1.6	235.4	0.5	320.0	0.0	0.0	322.8	0.0	322.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, South Carolina

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	2,690	0	2,690	19	44	16	0	60	75	3,438	0	0	0	–
1970	3,708	0	3,708	45	2,042	756	0	2,798	7	2,256	0	0	0	–
1971	4,543	0	4,543	40	887	693	0	1,580	2,414	3,439	0	0	0	–
1972	5,701	0	5,701	25	1,402	889	0	2,291	4,829	3,300	0	0	0	–
1973	5,519	0	5,519	25	3,939	662	0	4,602	6,166	3,862	0	0	0	–
1974	4,894	0	4,894	22	5,212	435	0	5,647	11,057	3,413	0	0	0	–
1975	4,401	0	4,401	15	4,400	118	0	4,517	19,458	4,366	0	0	0	–
1976	5,551	0	5,551	4	4,264	307	0	4,571	17,850	3,368	0	0	0	–
1977	6,455	0	6,455	3	5,059	1,564	0	6,623	17,239	3,002	0	0	0	–
1978	6,495	0	6,495	5	5,664	858	0	6,523	19,457	3,162	0	0	0	–
1979	6,848	0	6,848	5	3,463	422	0	3,885	18,220	3,908	0	0	0	–
1980	7,927	0	7,927	5	2,080	567	0	2,647	17,404	2,976	0	0	0	–
1981	8,679	0	8,679	5	1,601	502	0	2,104	17,327	1,208	0	0	0	–
1982	8,581	0	8,581	1	281	196	0	477	13,156	2,380	0	0	0	–
1983	6,989	0	6,989	1	8	132	0	140	25,581	3,049	0	0	0	–
1984	7,428	0	7,428	(s)	0	143	0	143	23,235	3,128	0	0	0	–
1985	7,888	0	7,888	(s)	1	183	0	184	31,826	1,786	0	0	0	–
1986	7,777	0	7,777	1	2	116	0	118	35,625	1,217	0	0	0	–
1987	9,019	0	9,019	1	2	114	0	116	39,290	2,160	0	0	0	–
1988	9,210	0	9,210	2	2	193	0	195	40,746	631	0	0	0	–
1989	9,472	0	9,472	3	33	252	0	285	40,780	2,016	0	0	0	–
1990	9,131	0	9,131	7	8	117	0	125	42,881	2,729	0	0	0	–
1991	9,218	0	9,218	10	11	132	0	144	43,108	2,497	0	0	0	–
1992	9,078	0	9,078	2	15	144	0	159	45,537	2,710	0	0	0	–
1993	10,410	0	10,410	2	60	139	0	199	46,189	2,651	0	0	0	–
1994	10,597	0	10,597	3	9	268	0	277	44,466	2,347	0	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	0.0	104.8
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	0.0	126.2
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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	386.5
1983	175.2	0.0	175.2	1.0	(s)	0.8	0.0	0.8	279.0	32.1	0.0	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	32.7	0.0	0.0	0.0	472.0
1985	198.2	0.0	198.2	0.5	(s)	1.1	0.0	1.1	344.1	18.7	0.0	0.0	0.0	562.6
1986	197.0	0.0	197.0	1.4	(s)	0.7	0.0	0.7	384.7	12.7	0.0	0.0	0.0	596.5
1987	228.2	0.0	228.2	0.6	(s)	0.7	0.0	0.7	423.4	22.5	0.0	0.0	0.0	675.3
1988	233.5	0.0	233.5	2.5	(s)	1.1	0.0	1.1	437.7	6.5	0.0	0.0	0.0	681.3
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	0.0	701.6
1990	231.1	0.0	231.1	7.1	(s)	0.7	0.0	0.7	458.0	28.2	0.0	0.0	0.0	725.1
1991	234.6	0.0	234.6	10.1	0.1	0.8	0.0	0.8	463.0	25.8	0.0	0.0	0.0	734.3
1992	232.7	0.0	232.7	1.8	0.1	0.8	0.0	0.9	486.2	27.9	0.0	0.0	0.0	749.6
1993	266.5	0.0	266.5	1.9	0.4	0.8	0.0	1.2	493.4	27.3	0.0	0.0	0.0	790.2
1994	270.7	0.0	270.7	3.1	0.1	1.6	0.0	1.6	474.7	24.1	0.0	0.0	0.0	774.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, South Dakota

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
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	–
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	1,019	156	8,885	91	0	16,997	0	5,722	0	0	-7,907	–
1985	2,703	25	841	87	5,003	1,019	41	1,241	145	9,277	36	0	17,691	0	5,333	0	0	-5,993	–
1986	2,281	23	815	85	6,060	516	36	1,567	142	9,004	60	0	18,284	0	5,736	0	0	-6,017	–
1987	1,101	21	674	80	5,915	669	19	2,358	161	8,995	55	0	18,926	0	5,386	0	0	-728	–
1988	2,591	24	878	89	6,227	875	19	1,579	155	9,187	85	0	19,093	0	5,286	0	0	-4,607	–
1989	2,541	26	776	88	5,439	1,024	14	3,623	159	9,121	66	0	20,311	0	4,614	0	0	-1,604	–
1990	2,571	25	790	93	5,525	1,097	8	3,691	163	8,934	61	0	20,363	0	R I NA	I NA	I NA	R -247	–
1991	2,863	26	768	61	5,860	367	7	1,794	146	9,116	67	R 18	R 18,206	0	R NA	NA	NA	R -3	–
1992	2,670	27	887	62	5,595	1,272	8	1,930	149	9,348	144	R 19	R 19,414	0	R NA	NA	NA	R 35	–
1993	2,696	31	644	53	6,222	1,190	7	2,591	152	9,562	117	R 21	R 20,559	0	R NA	NA	NA	R 5,193	–
1994	3,036	31	629	48	6,994	1,305	5	2,298	159	9,842	89	21	21,390	0	NA	NA	NA	-3,614	–
			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
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
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	(s)	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	(s)	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	(s)	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	3.7	0.9	46.7	0.6	0.0	91.9	0.0	59.7	0.0	0.0	-27.0	183.9
1985	34.5	25.5	5.6	0.4	29.1	5.5	0.2	4.5	0.9	48.7	0.2	0.0	95.2	0.0	55.7	0.0	0.0	-20.4	190.5
1986	29.2	23.4	5.4	0.4	35.3	2.8	0.2	5.7	0.9	47.3	0.4	0.0	98.4	0.0	59.9	0.0	0.0	-20.5	190.4
1987	14.6	21.4	4.5	0.4	34.5	3.6	0.1	8.6	1.0	47.3	0.3	0.0	100.3	0.0	56.1	0.0	0.0	-2.5	189.8
1988	33.8	24.7	5.8	0.4	36.3	4.7	0.1	5.8	0.9	48.3	0.5	0.0	102.9	0.0	54.6	0.0	0.0	-15.7	200.3
1989	32.5	25.9	5.2	0.4	31.7	5.5	0.1	13.3	1.0	47.9	0.4	0.0	105.5	0.0	47.6	0.0	0.0	-5.5	206.1
1990	32.5	25.5	5.2	0.5	32.2	5.9	(s)	13.4	1.0	46.9	0.4	0.0	105.6	0.0	R I 40.7	I 3.9	I (s)	R -0.8	R I 206.1
1991	36.1	26.7	5.1	0.3	34.1	2.0	(s)	6.5	0.9	47.9	0.4	R 0.1	R 97.4	0.0	R 40.7	3.8	(s)	(s)	R 204.1
1992	33.6	27.0	5.9	0.3	32.6	6.9	(s)	7.0	0.9	49.1	0.9	R 0.1	R 103.7	0.0	R 39.5	4.1	(s)	0.1	R 207.7
1993	34.4	R 31.7	4.3	0.3	36.2	6.4	(s)	9.3	0.9	50.2	0.7	R 0.1	R 108.6	0.0	R 26.6	3.9	(s)	17.7	R 221.8
1994	39.2	31.3	4.2	0.2	40.7	7.1	(s)	8.4	1.0	51.7	0.6	0.1	113.9	0.0	54.9	4.1	(s)	-12.3	231.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, South Dakota

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	43	0	43	8	567	903	1,067	2,537	0	0	847	–	2,107	–
1965	24	0	24	10	677	524	1,198	2,398	0	0	1,183	–	2,824	–
1970	11	0	11	14	763	14	2,010	2,787	0	0	1,586	–	3,843	–
1971	10	0	10	12	684	9	1,969	2,661	0	0	1,665	–	4,026	–
1972	8	0	8	13	783	6	2,241	3,029	0	0	1,806	–	4,347	–
1973	8	0	8	11	701	8	1,994	2,703	0	0	1,843	–	4,413	–
1974	13	0	13	11	595	3	1,823	2,421	0	0	1,914	–	4,666	–
1975	8	0	8	12	574	3	1,994	2,571	0	0	2,068	–	4,987	–
1976	3	0	3	15	392	126	1,927	2,444	0	0	2,139	–	5,151	–
1977	8	0	8	14	281	91	2,016	2,389	0	0	2,198	–	5,308	–
1978	3	0	3	15	315	103	2,105	2,523	0	0	2,493	–	6,099	–
1979	5	0	5	12	946	13	1,095	2,054	0	0	2,656	–	6,410	–
1980	6	0	6	11	762	10	1,165	1,937	0	0	2,623	–	6,378	–
1981	20	0	20	10	700	14	927	1,641	0	0	2,503	–	5,966	–
1982	7	0	7	12	873	22	947	1,842	0	0	2,616	–	6,283	–
1983	1	0	1	11	608	27	1,126	1,761	0	0	2,769	–	6,635	–
1984	2	0	2	11	656	29	604	1,289	0	0	2,766	–	6,437	–
1985	6	0	6	11	743	35	703	1,481	0	0	2,769	–	6,505	–
1986	8	0	8	11	1,040	23	841	1,905	0	0	2,754	–	6,336	–
1987	1	0	1	9	856	15	1,299	2,170	0	0	2,680	–	6,125	–
1988	1	0	1	11	920	14	945	1,878	0	0	2,913	–	6,586	–
1989	1	(s)	1	11	900	9	1,420	2,329	0	0	2,923	–	6,555	–
1990	1	0	1	10	805	4	1,731	2,540	[o] 89	[o] (s)	2,866	–	R 6,263	–
1991	1	(s)	1	11	804	4	1,061	1,869	94	(s)	3,040	–	R 6,609	–
1992	(s)	(s)	(s)	11	474	4	1,006	1,484	98	(s)	2,843	–	R 6,068	–
1993	(s)	0	(s)	12	592	6	1,355	1,952	83	(s)	3,109	–	R 6,566	–
1994	5	(s)	5	12	536	4	1,278	1,818	81	(s)	3,147	–	6,563	–
									Trillion Btu					
1960	0.8	0.0	0.8	7.9	3.3	5.1	4.3	12.7	0.0	0.0	2.9	24.4	7.2	31.5
1965	0.5	0.0	0.5	10.1	3.9	3.0	4.8	11.7	0.0	0.0	4.0	26.3	9.6	35.9
1970	0.2	0.0	0.2	13.8	4.4	0.1	7.6	12.1	0.0	0.0	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	0.0	0.0	5.7	29.8	13.7	43.5
1972	0.1	0.0	0.1	13.2	4.6	(s)	8.4	13.0	0.0	0.0	6.2	32.6	14.8	47.4
1973	0.1	0.0	0.1	11.2	4.1	(s)	7.5	11.6	0.0	0.0	6.3	29.3	15.1	44.3
1974	0.2	0.0	0.2	11.3	3.5	(s)	6.8	10.3	0.0	0.0	6.5	28.4	15.9	44.3
1975	0.1	0.0	0.1	12.0	3.3	(s)	7.4	10.8	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	8.9	29.3	21.4	50.7
1983	(s)	0.0	(s)	10.8	3.5	0.2	4.1	7.8	0.0	0.0	9.4	28.0	22.6	50.6
1984	0.1	0.0	0.1	11.1	3.8	0.2	2.2	6.2	0.0	0.0	9.4	26.8	22.0	48.7
1985	0.1	0.0	0.1	11.5	4.3	0.2	2.5	7.1	0.0	0.0	9.4	28.1	22.2	50.3
1986	0.2	0.0	0.2	10.6	6.1	0.1	3.1	9.3	0.0	0.0	9.4	29.4	21.6	51.0
1987	(s)	0.0	(s)	9.4	5.0	0.1	4.8	9.8	0.0	0.0	9.1	28.4	20.9	49.3
1988	(s)	0.0	(s)	10.9	5.4	0.1	3.4	8.9	0.0	0.0	9.9	29.8	22.5	52.2
1989	(s)	(s)	(s)	11.5	5.2	(s)	5.2	10.5	0.0	0.0	10.0	32.1	22.4	54.4
1990	(s)	0.0	(s)	10.4	4.7	(s)	6.3	11.0	[o] 1.8	[o] (s)	9.8	R [o] 32.9	21.4	R [o] 54.3
1991	(s)	(s)	(s)	11.4	4.7	(s)	3.8	8.5	1.9	(s)	10.4	R 32.2	R 22.6	R 54.8
1992	(s)	(s)	(s)	11.0	2.8	(s)	3.6	6.4	2.0	(s)	9.7	R 29.1	20.7	R 49.8
1993	(s)	0.0	(s)	12.6	3.4	(s)	4.9	8.4	1.7	(s)	10.6	R 33.2	22.4	R 55.6
1994	0.1	(s)	0.1	12.2	3.1	(s)	4.6	7.8	1.6	(s)	10.7	32.4	22.4	54.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[o] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, South Dakota

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	79	0	79	7	226	0	188	37	16	466	409	–	1,016	–
1965	44	0	44	9	269	0	211	46	8	534	645	–	1,540	–
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	(s)	107	138	43	523	1,791	–	4,169	–
1985	11	0	11	10	278	1	124	98	19	519	1,863	–	4,377	–
1986	15	0	15	9	271	1	148	151	7	578	1,603	–	3,687	–
1987	3	0	3	8	414	1	229	129	7	780	1,629	–	3,721	–
1988	3	0	3	8	345	(s)	167	126	22	660	1,760	–	3,978	–
1989	2	(s)	2	9	220	(s)	251	118	23	611	1,803	–	4,043	–
1990	2	0	2	9	208	(s)	305	77	25	616	1,811	–	R 3,957	–
1991	3	(s)	3	9	192	(s)	187	54	35	468	1,919	–	R 4,172	–
1992	(s)	(s)	1	9	245	(s)	178	54	36	513	1,874	–	R 4,001	–
1993	1	0	1	11	248	1	239	11	1	499	1,948	–	R 4,115	–
1994	10	(s)	10	10	266	(s)	226	11	6	509	2,265	–	4,723	–
	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
1965	0.9	0.0	0.9	8.8	1.6	0.0	0.8	0.2	(s)	2.7	2.2	14.5	5.3	19.8
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	(s)	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	(s)	0.4	0.7	0.3	2.7	6.1	18.2	14.2	32.4
1985	0.2	0.0	0.2	10.1	1.6	(s)	0.4	0.5	0.1	2.7	6.4	19.4	14.9	34.3
1986	0.3	0.0	0.3	9.2	1.6	(s)	0.5	0.8	(s)	3.0	5.5	18.0	12.6	30.5
1987	(s)	0.0	(s)	8.3	2.4	(s)	0.8	0.7	(s)	4.0	5.6	17.9	12.7	30.6
1988	(s)	0.0	(s)	8.6	2.0	(s)	0.6	0.7	0.1	3.4	6.0	18.0	13.6	31.6
1989	(s)	(s)	(s)	9.0	1.3	(s)	0.9	0.6	0.1	3.0	6.2	18.1	13.8	31.9
1990	(s)	0.0	(s)	8.7	1.2	(s)	1.1	0.4	0.2	2.9	6.2	17.8	13.5	31.3
1991	(s)	(s)	(s)	9.6	1.1	(s)	0.7	0.3	0.2	2.3	6.5	18.5	14.2	32.8
1992	(s)	(s)	(s)	9.3	1.4	(s)	0.6	0.3	0.2	2.6	6.4	R 18.2	R 13.7	31.9
1993	(s)	0.0	(s)	10.8	1.4	(s)	0.9	0.1	(s)	2.4	6.6	19.9	14.0	33.9
1994	0.2	(s)	0.2	10.4	1.5	(s)	0.8	0.1	(s)	2.5	7.7	20.8	16.1	36.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, South Dakota

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	5	5	724	1,780	72	93	19	2,615	35	0	5,339	20	0	0	258	–	642	–
1965	4	5	588	2,177	39	108	15	2,455	15	0	5,397	38	0	0	246	–	588	–
1970	5	7	894	2,332	2	298	14	2,209	35	0	5,784	35	0	0	281	–	680	–
1971	4	5	964	2,337	1	300	16	2,041	24	0	5,684	37	0	0	284	–	688	–
1972	4	6	1,019	2,338	1	448	17	1,715	64	0	5,601	42	0	0	285	–	685	–
1973	3	5	1,236	1,957	6	516	32	2,071	51	0	5,869	42	0	0	326	–	780	–
1974	4	5	865	1,608	2	584	31	1,957	44	0	5,091	37	0	0	360	–	877	–
1975	59	6	862	1,635	2	527	20	1,626	52	0	4,725	36	0	0	994	–	2,397	–
1976	172	8	739	1,209	101	715	22	1,433	99	0	4,318	34	0	0	1,188	–	2,862	–
1977	173	7	561	988	82	1,358	4	1,442	120	0	4,555	33	0	0	1,252	–	3,024	–
1978	185	7	782	1,412	99	678	4	1,761	87	0	4,822	32	0	0	1,126	–	2,755	–
1979	55	3	793	2,664	22	1,104	4	1,656	91	0	6,335	33	0	0	1,271	–	3,067	–
1980	127	5	638	1,640	5	1,090	4	1,473	95	0	4,943	32	0	0	1,322	–	3,215	–
1981	166	4	528	1,589	10	634	3	1,215	144	0	4,123	32	0	0	1,253	–	2,986	–
1982	293	4	638	1,735	4	1,063	3	1,129	37	0	4,608	32	0	0	1,280	–	3,075	–
1983	204	4	534	1,443	7	855	3	1,198	72	0	4,111	32	0	0	1,388	–	3,326	–
1984	225	4	805	1,558	11	281	4	907	48	0	3,613	32	0	0	991	–	2,306	–
1985	279	4	841	1,670	5	389	3	694	16	0	3,619	32	0	0	1,019	–	2,393	–
1986	240	3	815	2,544	11	552	3	594	52	0	4,570	32	0	0	1,316	–	3,028	–
1987	232	3	674	2,394	4	783	4	629	46	0	4,534	32	0	0	1,402	–	3,203	–
1988	199	5	878	2,666	5	448	3	544	52	0	4,597	32	0	0	1,562	–	3,531	–
1989	257	5	776	2,044	6	1,932	4	541	44	0	5,346	32	0	0	1,612	–	3,616	–
1990	223	6	790	2,046	3	1,632	4	486	36	0	4,997	R[f]NA	[f]NA	[f]NA	1,657	–	R3,621	–
1991	289	5	768	2,340	3	532	3	484	32	R18	R4,180	RNA	NA	NA	1,726	–	R3,753	–
1992	267	5	887	2,181	4	728	3	429	109	R19	R4,359	RNA	NA	NA	1,777	–	R3,794	–
1993	335	5	644	2,522	1	972	3	539	116	R21	R4,818	RNA	NA	NA	1,847	–	R3,901	–
1994	451	6	629	2,824	1	755	4	463	83	21	4,780	NA	NA	NA	1,762	–	3,675	–
			Trillion Btu															
1960	0.1	5.3	4.8	10.4	0.4	0.4	0.1	13.7	0.2	0.0	30.0	0.2	0.0	0.0	0.9	36.6	2.2	38.8
1965	0.1	4.7	3.9	12.7	0.2	0.4	0.1	12.9	0.1	0.0	30.3	0.4	0.0	0.0	0.8	36.3	2.0	38.3
1970	0.1	6.8	5.9	13.6	(s)	1.1	0.1	11.6	0.2	0.0	32.6	0.4	0.0	0.0	1.0	40.8	2.3	43.1
1971	0.1	5.5	6.4	13.6	(s)	1.1	0.1	10.7	0.1	0.0	32.1	0.4	0.0	0.0	1.0	39.1	2.3	41.4
1972	0.1	6.2	6.8	13.6	(s)	1.7	0.1	9.0	0.4	0.0	31.6	0.4	0.0	0.0	1.0	39.3	2.3	41.6
1973	0.1	5.4	8.2	11.4	(s)	1.9	0.2	10.9	0.3	0.0	33.0	0.4	0.0	0.0	1.1	40.0	2.7	42.6
1974	0.1	5.4	5.7	9.4	(s)	2.2	0.2	10.3	0.3	0.0	28.0	0.4	0.0	0.0	1.2	35.1	3.0	38.1
1975	1.1	5.8	5.7	9.5	(s)	2.0	0.1	8.5	0.3	0.0	26.2	0.4	0.0	0.0	3.4	36.9	8.2	45.1
1976	3.2	8.1	4.9	7.0	0.6	2.7	0.1	7.5	0.6	0.0	23.5	0.4	0.0	0.0	4.1	39.1	9.8	48.9
1977	3.2	7.0	3.7	5.8	0.5	5.0	(s)	7.6	0.8	0.0	23.3	0.3	0.0	0.0	4.3	38.0	10.3	48.3
1978	3.4	6.9	5.2	8.2	0.6	2.5	(s)	9.3	0.5	0.0	26.3	0.3	0.0	0.0	3.8	40.7	9.4	50.1
1979	1.0	3.4	5.3	15.5	0.1	4.1	(s)	8.7	0.6	0.0	34.3	0.3	0.0	0.0	4.3	43.4	10.5	53.8
1980	2.4	4.7	4.2	9.6	(s)	4.0	(s)	7.7	0.6	0.0	26.2	0.3	0.0	0.0	4.5	38.1	11.0	49.1
1981	3.1	4.0	3.5	9.3	0.1	2.3	(s)	6.4	0.9	0.0	22.4	0.3	0.0	0.0	4.3	34.2	10.2	44.4
1982	5.7	4.0	4.2	10.1	(s)	3.8	(s)	5.9	0.2	0.0	24.4	0.3	0.0	0.0	4.4	38.8	10.5	49.3
1983	3.6	3.9	3.5	8.4	(s)	3.1	(s)	6.3	0.4	0.0	21.8	0.3	0.0	0.0	4.7	34.4	11.3	45.7
1984	3.9	4.4	5.3	9.1	0.1	1.0	(s)	4.8	0.3	0.0	20.6	0.3	0.0	0.0	3.4	32.5	7.9	40.4
1985	4.8	3.6	5.6	9.7	(s)	1.4	(s)	3.6	0.1	0.0	20.5	0.3	0.0	0.0	3.5	32.8	8.2	40.9
1986	4.2	3.4	5.4	14.8	0.1	2.0	(s)	3.1	0.3	0.0	25.8	0.3	0.0	0.0	4.5	38.2	10.3	48.5
1987	4.0	3.4	4.5	13.9	(s)	2.9	(s)	3.3	0.3	0.0	24.9	0.3	0.0	0.0	4.8	37.5	10.9	48.4
1988	3.5	4.9	5.8	15.5	(s)	1.6	(s)	2.9	0.3	0.0	26.2	0.3	0.0	0.0	5.3	40.2	12.0	52.3
1989	4.5	5.2	5.2	11.9	(s)	7.1	(s)	2.8	0.3	0.0	27.3	0.3	0.0	0.0	5.5	42.8	12.3	55.1
1990	3.9	6.0	5.2	11.9	(s)	5.9	(s)	2.6	0.2	0.0	25.9	R[f]0.0	[f]1.0	[f]0.0	5.7	R[f]42.4	12.4	R[f]54.8
1991	5.0	5.1	5.1	13.6	(s)	1.9	(s)	2.5	0.2	R0.1	R23.5	R0.0	1.0	0.0	5.9	R40.6	12.8	R53.4
1992	4.6	5.0	5.9	12.7	(s)	2.6	(s)	2.3	0.7	R0.1	R24.3	R0.0	1.0	0.0	6.1	R41.0	12.9	R54.0
1993	5.8	R5.5	4.3	14.7	(s)	3.5	(s)	2.8	0.7	R0.1	R26.2	R0.0	1.0	0.0	6.3	R44.8	13.3	R58.1
1994	7.8	6.0	4.2	16.5	(s)	2.7	(s)	2.4	0.5	0.1	26.5	0.0	1.1	0.0	6.0	47.3	12.5	59.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, South Dakota

Year	Coal [a]	Natural Gas [b]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	(s)	(s)	106	362	1,145	22	174	5,909	11	7,729	0	0	–	0	–
1965	(s)	(s)	128	635	1,111	24	143	6,454	1	8,496	0	0	–	0	–
1970	(s)	(s)	99	929	1,173	50	151	7,645	6	10,052	0	0	–	0	–
1971	(s)	(s)	83	1,279	1,207	60	148	8,152	4	10,932	0	0	–	0	–
1972	(s)	(s)	88	1,045	1,138	65	159	9,006	0	11,501	0	0	–	0	–
1973	(s)	(s)	74	1,284	1,071	61	162	8,863	0	11,515	0	0	–	0	–
1974	(s)	(s)	87	1,235	1,102	51	155	8,687	0	11,317	0	0	–	0	–
1975	(s)	(s)	77	1,337	1,056	57	140	8,952	1	11,618	0	0	–	0	–
1976	(s)	(s)	74	1,553	1,011	45	155	9,452	1	12,292	0	0	–	0	–
1977	(s)	(s)	79	1,598	1,083	43	156	9,796	1	12,757	0	0	–	0	–
1978	0	(s)	78	1,778	1,334	38	167	9,594	1	12,990	0	0	–	0	–
1979	0	(s)	81	2,306	1,326	60	175	9,053	0	13,002	0	0	–	0	–
1980	0	(s)	97	1,977	1,311	69	156	8,150	0	11,760	0	0	–	0	–
1981	0	(s)	103	1,821	1,136	54	150	7,907	0	11,170	0	0	–	0	–
1982	0	(s)	107	2,132	1,138	54	136	7,855	0	11,422	0	0	–	0	–
1983	0	(s)	98	2,163	956	64	143	7,656	0	11,081	0	0	–	0	–
1984	0	(s)	85	2,416	1,024	28	152	7,839	0	11,545	0	0	–	0	–
1985	0	(s)	87	2,274	1,019	24	142	8,485	0	12,031	0	0	–	0	–
1986	0	(s)	85	2,166	516	25	139	8,260	0	11,191	0	0	–	0	–
1987	0	(s)	80	2,230	669	46	157	8,237	0	11,419	0	0	–	0	–
1988	0	(s)	89	2,248	875	19	151	8,517	0	11,899	0	0	–	0	–
1989	0	(s)	88	2,241	1,024	20	155	8,463	(s)	11,992	0	0	–	0	–
1990	0	(s)	93	2,434	1,097	23	160	8,371	(s)	12,177	[e]15,372	0	–	0	–
1991	0	(s)	61	2,490	367	14	143	8,579	0	11,654	12,186	0	–	0	–
1992	0	2	62	2,676	1,272	18	146	8,865	0	13,038	14,810	0	–	0	–
1993	0	3	53	2,829	1,190	26	148	9,012	0	13,258	16,528	0	–	0	–
1994	0	3	48	3,317	1,305	39	155	9,368	0	14,233	18,333	0	–	0	–
			Trillion Btu												
1960	(s)	(s)	0.5	2.1	6.1	0.1	1.1	31.0	0.1	41.0	0.0	0.0	41.1	0.0	41.1
1965	(s)	(s)	0.6	3.7	6.0	0.1	0.9	33.9	(s)	45.2	0.0	0.0	45.2	0.0	45.2
1970	(s)	(s)	0.5	5.4	6.3	0.2	0.9	40.2	(s)	53.5	0.0	0.0	53.6	0.0	53.6
1971	(s)	(s)	0.4	7.5	6.5	0.2	0.9	42.8	(s)	58.3	0.0	0.0	58.4	0.0	58.4
1972	(s)	(s)	0.4	6.1	6.1	0.2	1.0	47.3	0.0	61.2	0.0	0.0	61.2	0.0	61.2
1973	(s)	(s)	0.4	7.5	5.8	0.2	1.0	46.6	0.0	61.4	0.0	0.0	61.4	0.0	61.4
1974	(s)	(s)	0.4	7.2	6.0	0.2	0.9	45.6	0.0	60.4	0.0	0.0	60.4	0.0	60.4
1975	(s)	(s)	0.4	7.8	5.7	0.2	0.8	47.0	(s)	62.0	0.0	0.0	62.0	0.0	62.0
1976	(s)	(s)	0.4	9.0	5.5	0.2	0.9	49.7	(s)	65.7	0.0	0.0	65.7	0.0	65.7
1977	(s)	(s)	0.4	9.3	5.9	0.2	0.9	51.5	(s)	68.2	0.0	0.0	68.2	0.0	68.2
1978	0.0	(s)	0.4	10.4	7.2	0.1	1.0	50.4	(s)	69.5	0.0	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	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	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	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	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	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	62.2	0.0	0.0	62.3	0.0	62.3
1985	0.0	0.2	0.4	13.2	5.5	0.1	0.9	44.6	0.0	64.7	0.0	0.0	64.9	0.0	64.9
1986	0.0	0.1	0.4	12.6	2.8	0.1	0.8	43.4	0.0	60.2	0.0	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	0.0	61.5	0.0	61.5
1988	0.0	0.1	0.4	13.1	4.7	0.1	0.9	44.7	0.0	64.0	0.0	0.0	64.1	0.0	64.1
1989	0.0	0.1	0.4	13.1	5.5	0.1	0.9	44.5	(s)	64.5	0.0	0.0	64.6	0.0	64.6
1990	0.0	0.1	0.5	14.2	5.9	0.1	1.0	44.0	(s)	65.6	[e]1.2	0.0	[e]65.7	0.0	[e]65.7
1991	0.0	0.3	0.3	14.5	2.0	(s)	0.9	45.1	0.0	62.8	0.9	0.0	R63.2	0.0	R63.2
1992	0.0	1.8	0.3	15.6	6.9	0.1	0.9	46.6	0.0	70.3	1.1	0.0	72.1	0.0	72.1
1993	0.0	2.6	0.3	16.5	6.4	0.1	0.9	47.3	0.0	71.5	1.3	0.0	74.1	0.0	74.1
1994	0.0	2.6	0.2	19.3	7.1	0.1	0.9	49.2	0.0	76.9	1.4	0.0	79.5	0.0	79.5

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, South Dakota

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	237	0	237	3	47	8	0	55	0	3,835	0	0	0	–
1970	301	0	301	4	270	48	0	318	0	6,544	0	0	0	–
1971	303	0	303	3	174	38	0	212	0	7,741	0	0	0	–
1972	284	0	284	4	255	59	0	314	0	7,390	0	0	0	–
1973	360	0	360	4	164	22	0	186	0	4,795	0	0	0	–
1974	406	0	406	4	72	17	0	89	0	5,624	0	0	0	–
1975	1,804	0	1,804	3	145	67	0	212	0	7,890	0	0	0	–
1976	2,658	0	2,658	1	155	24	0	179	0	7,018	0	0	0	–
1977	2,536	0	2,536	(s)	105	34	0	139	0	5,261	0	0	0	–
1978	2,811	0	2,811	(s)	154	88	0	241	0	6,799	0	0	0	–
1979	2,702	0	2,702	(s)	84	67	0	151	0	6,326	0	0	0	–
1980	2,683	0	2,683	(s)	9	58	0	67	0	5,786	0	0	0	–
1981	2,536	0	2,536	(s)	1	54	0	54	0	5,274	0	0	0	–
1982	2,433	0	2,433	(s)	2	52	0	53	0	5,394	0	0	0	–
1983	2,201	0	2,201	(s)	1	42	0	42	0	5,494	0	0	0	–
1984	2,487	0	2,487	(s)	1	26	0	27	0	5,690	0	0	0	–
1985	2,407	0	2,407	(s)	1	39	0	40	0	5,301	0	0	0	–
1986	2,018	0	2,018	(s)	1	38	0	39	0	5,704	0	0	0	–
1987	865	0	865	(s)	1	21	0	23	0	5,354	0	0	0	–
1988	2,388	0	2,388	(s)	10	48	0	58	0	5,254	0	0	0	–
1989	2,281	0	2,281	(s)	0	33	0	33	0	4,583	0	0	0	–
1990	2,345	0	2,345	(s)	0	32	0	32	0	3,934	0	0	0	–
1991	2,570	0	2,570	(s)	0	35	0	35	0	R3,936	0	0	0	–
1992	2,402	0	2,402	(s)	0	19	0	19	0	R3,833	0	0	0	–
1993	2,360	0	2,360	(s)	0	32	0	32	0	2,591	0	0	0	–
1994	2,570	0	2,570	(s)	0	50	0	50	0	5,343	0	0	0	–
	Trillion Btu													
1960	4.2	0.0	4.2	4.6	0.3	(s)	0.0	0.3	0.0	12.2	0.0	0.0	0.0	21.4
1965	4.2	0.0	4.2	3.3	0.3	(s)	0.0	0.3	0.0	40.1	0.0	0.0	0.0	48.0
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	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	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	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	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	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	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	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	0.0	87.9
1978	35.0	0.0	35.0	(s)	1.0	0.5	0.0	1.5	0.0	70.4	0.0	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	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	0.0	94.6
1981	32.0	0.0	32.0	0.1	(s)	0.3	0.0	0.3	0.0	55.1	0.0	0.0	0.0	87.5
1982	30.9	0.0	30.9	(s)	(s)	0.3	0.0	0.3	0.0	56.4	0.0	0.0	0.0	87.6
1983	27.1	0.0	27.1	(s)	(s)	0.2	0.0	0.2	0.0	57.8	0.0	0.0	0.0	85.2
1984	30.4	0.0	30.4	0.1	(s)	0.2	0.0	0.2	0.0	59.4	0.0	0.0	0.0	90.0
1985	29.4	0.0	29.4	(s)	(s)	0.2	0.0	0.2	0.0	55.4	0.0	0.0	0.0	85.0
1986	24.6	0.0	24.6	(s)	(s)	0.2	0.0	0.2	0.0	59.6	0.0	0.0	0.0	84.4
1987	10.5	0.0	10.5	0.1	(s)	0.1	0.0	0.1	0.0	55.8	0.0	0.0	0.0	66.5
1988	30.3	0.0	30.3	0.2	0.1	0.3	0.0	0.3	0.0	54.2	0.0	0.0	0.0	85.1
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	0.0	75.6
1990	28.6	0.0	28.6	0.2	0.0	0.2	0.0	0.2	0.0	40.7	0.0	0.0	0.0	69.7
1991	31.0	0.0	31.0	0.2	0.0	0.2	0.0	0.2	0.0	R40.7	0.0	0.0	0.0	72.4
1992	29.0	0.0	29.0	(s)	0.0	0.1	0.0	0.1	0.0	R39.5	0.0	0.0	0.0	69.3
1993	28.6	0.0	28.6	0.2	0.0	0.2	0.0	0.2	0.0	26.6	0.0	0.0	0.0	55.6
1994	31.1	0.0	31.1	0.2	0.0	0.3	0.0	0.3	0.0	54.9	0.0	0.0	0.0	87.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Tennessee

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
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	–
1970	17,726	256	3,628	116	10,952	3,335	4,135	3,182	825	41,869	597	6,324	74,964	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	4,625	76,163	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	5,625	83,903	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	5,624	91,574	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	5,556	88,935	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	5,596	92,743	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	6,133	103,441	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	7,215	109,322	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	7,205	114,789	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	7,746	108,264	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	8,336	97,342	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	8,704	94,757	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	6,964	92,134	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	5,694	90,514	14,051	9,952	0	0	30,517	–
1984	23,355	206	3,816	164	21,948	3,636	1,221	2,228	1,211	57,390	695	6,752	99,063	12,501	10,181	0	0	36,510	–
1985	25,167	190	4,408	154	22,285	4,862	1,107	2,281	1,129	58,034	539	6,356	101,155	9,672	6,539	0	0	35,536	–
1986	25,272	188	4,158	201	22,649	5,925	478	2,678	1,104	60,297	581	R 8,925	R 106,995	-105	5,326	0	0	60,476	–
1987	24,750	201	4,565	186	22,590	5,686	674	2,613	1,248	62,989	320	R 9,164	R 110,033	-108	7,566	0	0	60,596	–
1988	25,219	214	4,048	183	23,584	4,231	999	3,108	1,203	59,380	445	R 9,597	R 106,778	3,940	4,591	0	0	62,295	–
1989	23,561	221	5,703	182	23,329	4,356	807	3,476	1,234	60,028	464	R 9,393	R 108,972	15,603	11,853	0	0	23,619	–
1990	24,878	220	5,798	174	23,872	4,181	438	2,906	1,270	57,668	311	R 10,744	R 107,362	14,003	R NA	NA	NA	R 26,440	–
1991	23,107	227	5,349	145	22,618	3,413	342	3,208	1,136	56,144	406	R 11,359	R 104,122	16,587	R NA	NA	NA	R 27,173	–
1992	24,106	242	5,281	343	24,044	4,479	442	4,787	1,159	58,600	397	R 12,607	R 112,139	15,654	R NA	NA	NA	R 23,242	–
1993	27,854	254	4,922	395	23,976	6,569	410	3,566	1,180	61,194	528	R 12,080	R 114,820	3,305	R NA	NA	NA	R 40,468	–
1994	25,440	246	5,448	392	24,805	7,762	544	3,482	1,233	62,919	461	12,824	119,871	11,932	NA	NA	NA	33,007	–
			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
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
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	407.4	0.0	84.7	0.0	0.0	173.2	1,330.7
1971	370.0	270.8	22.9	0.6	67.4	18.8	23.3	12.0	5.4	233.8	2.3	26.7	413.2	0.0	98.7	0.0	0.0	175.4	1,328.1
1972	444.3	283.4	24.8	0.6	83.5	19.4	18.9	13.2	5.8	253.9	3.3	32.6	455.9	0.0	115.5	0.0	0.0	131.2	1,430.3
1973	532.9	300.1	31.2	0.5	92.1	21.4	20.1	14.3	6.8	275.2	4.1	32.5	498.3	0.0	119.0	0.0	0.0	121.7	1,572.0
1974	470.3	265.4	22.8	0.5	94.4	21.6	15.8	12.9	6.5	271.2	5.5	32.0	483.2	0.0	122.9	0.0	0.0	196.2	1,538.0
1975	471.9	224.1	25.0	0.4	101.8	22.2	13.0	14.2	8.1	282.3	4.5	32.4	503.8	0.0	122.9	0.0	0.0	251.3	1,573.9
1976	561.5	218.5	25.8	0.3	128.2	23.2	15.9	14.0	8.9	295.5	18.6	35.3	565.7	0.0	98.3	0.0	0.0	232.3	1,676.3
1977	553.7	208.4	33.6	0.3	140.4	24.7	15.2	13.0	7.5	302.9	21.2	41.7	600.6	0.0	108.5	0.0	0.0	264.6	1,735.8
1978	564.7	189.2	36.9	0.3	159.6	26.4	14.5	13.4	8.1	315.5	14.4	41.5	630.6	0.0	91.0	0.0	0.0	242.1	1,717.5
1979	542.3	233.9	29.2	3.6	140.7	27.7	13.5	11.1	8.4	300.2	15.4	43.8	593.5	0.0	127.4	0.0	0.0	256.7	1,753.8
1980	576.9	233.3	22.4	1.5	111.7	23.4	8.7	10.2	7.5	288.6	9.4	46.9	530.4	5.7	91.0	0.0	0.0	255.0	1,692.4
1981	565.9	227.1	18.1	1.2	113.8	19.7	8.6	5.5	7.2	286.8	7.7	49.4	518.1	51.9	61.8	0.0	0.0	229.1	1,653.9
1982	470.7	212.1	27.7	0.9	109.6	12.9	6.2	8.3	6.6	286.4	4.5	39.6	502.6	111.9	102.1	0.0	0.0	157.8	1,557.3
1983	547.1	199.1	19.9	0.9	117.4	11.6	6.2	8.4	6.9	282.9	6.6	32.7	493.3	153.2	104.7	0.0	0.0	104.1	1,601.5
1984	555.3	211.3	25.3	0.8	127.8	20.5	6.9	8.0	7.3	301.5	4.4	38.0	540.7	135.6	106.3	0.0	0.0	124.6	1,673.6
1985	599.7	196.7	29.3	0.8	129.8	27.5	6.3	8.2	6.8	304.8	3.4	35.9	552.8	104.6	68.3	0.0	0.0	121.3	1,643.4
1986	605.7	194.0	27.6	1.0	131.9	33.5	2.7	9.7	6.7	316.7	3.7	R 50.0	R 583.6	-1.1	55.6	0.0	0.0	206.3	R 1,644.2
1987	596.5	207.0	30.3	0.9	131.6	32.1	3.8	9.6	7.6	330.9	2.0	R 51.0	R 599.8	-1.2	78.8	0.0	0.0	206.8	R 1,687.8
1988	610.6	220.9	26.9	0.9	137.4	23.9	5.7	11.4	7.3	311.9	2.8	R 53.7	R 581.8	42.3	47.4	0.0	0.0	212.6	R 1,715.6
1989	564.4	228.6	37.8	0.9	135.9	24.6	4.6	12.8	7.5	315.3	2.9	R 52.4	R 594.8	167.3	122.3	0.0	0.0	80.6	R 1,758.0
1990	600.3	227.5	38.5	0.9	139.1	23.6	2.5	10.5	7.7	302.9	2.0	R 60.2	R 587.8	149.5	I 63.5	I 0.1	R 90.2	R I 1,815.6	
1991	565.5	234.6	35.5	0.7	131.8	19.3	1.9	11.6	6.9	294.9	2.6	R 63.6	R 568.8	178.1	108.7	64.0	0.1	R 92.7	R 1,811.0
1992	590.6	249.2	35.0	1.7	140.1	25.3	2.5	17.3	7.0	307.8	2.5	R 70.6	R 609.9	167.1	98.8	67.5	0.1	R 79.3	R 1,860.7
1993	685.9	263.1	32.7	2.0	139.7	37.2	2.3	12.9	7.2	321.5	3.3	R 67.4	R 626.0	35.3	86.3	63.4	0.1	R 138.1	R 1,896.2
1994	622.9	254.0	36.2	2.0	144.5	44.0	3.1	12.7	7.5	330.5	2.9	71.7	654.9	127.4	117.6	65.9	0.1	112.6	1,953.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– –=Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Tennessee

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	331	4	336	34	80	797	862	1,740	0	0	8,683	–	21,599	–
1965	231	3	233	37	100	881	1,136	2,117	0	0	12,134	–	28,971	–
1970	189	2	191	47	169	2,027	2,316	4,512	0	0	17,942	–	43,479	–
1971	202	2	204	47	171	2,048	2,333	4,551	0	0	18,192	–	43,983	–
1972	151	1	152	54	211	1,600	2,615	4,425	0	0	19,101	–	45,977	–
1973	133	1	134	46	248	1,829	2,766	4,843	0	0	20,396	–	48,829	–
1974	119	1	120	44	217	1,544	2,482	4,244	0	0	19,802	–	48,282	–
1975	113	1	114	44	237	1,316	2,767	4,320	0	0	23,034	–	55,561	–
1976	85	1	86	44	411	1,554	2,699	4,663	0	0	23,622	–	56,901	–
1977	83	1	83	44	385	1,492	2,496	4,372	0	0	26,486	–	63,956	–
1978	75	1	75	40	384	1,409	2,355	4,148	0	0	25,980	–	63,560	–
1979	65	(s)	66	45	375	773	1,580	2,728	0	0	25,103	–	60,582	–
1980	82	1	82	45	308	549	1,501	2,358	0	0	26,207	–	63,727	–
1981	50	0	50	42	471	901	767	2,139	0	0	24,631	–	58,703	–
1982	62	0	62	42	403	541	1,086	2,030	0	0	24,639	–	59,178	–
1983	168	0	168	41	262	729	1,291	2,282	0	0	24,758	–	59,314	–
1984	108	0	108	44	283	881	1,160	2,323	0	0	26,236	–	61,068	–
1985	59	0	59	39	259	737	1,209	2,205	0	0	25,546	–	60,018	–
1986	28	0	28	40	166	329	1,425	1,920	0	0	25,884	–	59,541	–
1987	34	0	34	43	228	451	1,405	2,084	0	0	27,460	–	62,743	–
1988	66	(s)	66	48	226	626	1,752	2,604	0	0	27,960	–	63,210	–
1989	75	3	78	49	245	616	1,980	2,840	0	0	28,355	–	63,591	–
1990	73	5	78	46	237	324	1,716	2,277	[e] 918	[e] 15	28,757	–	R 62,839	–
1991	57	6	63	49	268	268	1,936	2,472	967	15	29,605	–	R 64,368	–
1992	55	(s)	55	52	259	361	2,094	2,715	1,017	16	29,498	–	R 62,972	–
1993	39	(s)	39	59	205	311	2,201	2,716	775	16	R 30,199	–	R 63,779	–
1994	31	1	32	57	302	439	2,112	2,853	760	16	32,797	–	68,396	–
							Trillion Btu							
1960	8.2	0.1	8.3	35.1	0.5	4.5	3.5	8.4	0.0	0.0	29.6	81.4	73.7	155.1
1965	5.7	0.1	5.7	38.9	0.6	5.0	4.6	10.1	0.0	0.0	41.4	96.1	98.8	195.0
1970	4.5	(s)	4.5	47.6	1.0	11.5	8.8	21.2	0.0	0.0	61.2	134.6	148.3	282.9
1971	4.8	(s)	4.8	48.0	1.0	11.6	8.8	21.4	0.0	0.0	62.1	136.3	150.1	286.4
1972	3.5	(s)	3.6	54.9	1.2	9.1	9.8	20.1	0.0	0.0	65.2	143.7	156.9	300.6
1973	3.1	(s)	3.2	46.9	1.4	10.4	10.4	22.2	0.0	0.0	69.6	141.9	166.6	308.5
1974	2.8	(s)	2.8	44.5	1.3	8.8	9.3	19.3	0.0	0.0	67.6	134.1	164.7	298.8
1975	2.7	(s)	2.7	45.4	1.4	7.5	10.3	19.1	0.0	0.0	78.6	145.8	189.6	335.4
1976	2.0	(s)	2.1	45.0	2.4	8.8	10.0	21.2	0.0	0.0	80.6	148.9	194.1	343.0
1977	1.9	(s)	2.0	44.9	2.2	8.5	9.2	19.9	0.0	0.0	90.4	157.1	218.2	375.3
1978	1.7	(s)	1.8	40.9	2.2	8.0	8.6	18.9	0.0	0.0	88.6	150.2	216.9	367.1
1979	1.5	(s)	1.5	46.6	2.2	4.4	5.8	12.4	0.0	0.0	85.7	146.2	206.7	352.9
1980	2.0	(s)	2.0	45.6	1.8	3.1	5.5	10.4	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	84.5	140.5	202.4	342.8
1984	2.6	0.0	2.6	45.1	1.6	5.0	4.2	10.8	0.0	0.0	89.5	148.1	208.4	356.4
1985	1.4	0.0	1.4	40.8	1.5	4.2	4.4	10.0	0.0	0.0	87.2	139.4	204.8	344.2
1986	0.7	0.0	0.7	41.5	1.0	1.9	5.2	8.0	0.0	0.0	88.3	138.5	203.2	341.7
1987	0.8	0.0	0.8	44.9	1.3	2.6	5.1	9.0	0.0	0.0	93.7	148.4	214.1	362.5
1988	1.6	(s)	1.6	49.1	1.3	3.6	6.4	11.3	0.0	0.0	95.4	157.4	215.7	373.1
1989	1.8	0.1	1.9	50.8	1.4	3.5	7.3	12.2	0.0	0.0	96.7	161.6	217.0	378.6
1990	1.8	0.1	1.9	48.0	1.4	1.8	6.2	9.4	[e] 18.4	[e] 0.1	98.1	R [e] 175.9	R 214.4	R [e] 390.3
1991	1.4	0.1	1.6	51.0	1.6	1.5	7.0	10.1	19.3	0.1	101.0	R 183.0	R 219.6	R 402.7
1992	1.3	(s)	1.3	53.8	1.5	2.0	7.6	11.1	20.3	0.1	100.6	R 187.4	R 214.9	R 402.2
1993	1.0	(s)	1.0	61.0	1.2	1.8	7.9	10.9	15.5	0.1	103.0	R 191.5	R 217.6	R 409.1
1994	0.8	(s)	0.8	59.2	1.8	2.5	7.7	11.9	15.2	0.1	111.9	199.1	233.4	432.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Tennessee

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	615	3	618	24	200	157	152	173	(s)	682	2,796	–	6,956	–
1965	428	2	430	28	248	173	200	277	(s)	899	4,274	–	10,204	–
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	(s)	139	31	956	277	416	450	3	2,101	13,626	–	33,336	–
1979	121	(s)	122	43	934	152	279	427	3	1,795	13,939	–	33,639	–
1980	151	(s)	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	205	592	83	3,214	9,948	–	23,156	–
1985	110	0	110	43	3,086	167	213	337	98	3,901	9,856	–	23,156	–
1986	51	0	51	43	1,412	91	251	401	129	2,283	9,727	–	22,375	–
1987	64	0	64	44	1,161	127	248	374	66	1,976	10,200	–	23,305	–
1988	123	(s)	123	46	1,103	242	309	517	76	2,247	10,481	–	23,695	–
1989	140	2	142	48	664	155	349	515	53	1,737	12,237	–	27,444	–
1990	136	3	140	44	636	69	303	461	33	1,502	13,075	–	R 28,571	–
1991	106	4	109	46	602	32	342	418	17	1,409	13,117	–	R 28,520	–
1992	102	(s)	102	47	1,042	69	370	346	57	1,883	7,391	–	R 15,778	–
1993	72	(s)	72	51	937	61	388	203	34	1,622	R 6,102	–	R 12,888	–
1994	58	(s)	58	51	1,006	73	373	49	33	1,533	6,122	–	12,766	–
	Trillion Btu													
1960	15.2	0.1	15.3	25.1	1.2	0.9	0.6	0.9	(s)	3.6	9.5	53.5	23.7	77.2
1965	10.5	(s)	10.6	29.6	1.4	1.0	0.8	1.5	(s)	4.7	14.6	59.4	34.8	94.3
1970	8.3	(s)	8.4	43.7	2.5	2.3	1.5	2.1	(s)	8.3	21.7	82.0	52.5	134.6
1971	8.9	(s)	8.9	45.0	2.5	2.3	1.6	1.9	(s)	8.2	23.4	85.6	56.6	142.1
1972	6.6	(s)	6.6	46.6	3.1	1.8	1.7	1.9	(s)	8.5	25.8	87.5	62.0	149.5
1973	5.8	(s)	5.8	46.9	3.6	2.0	1.8	2.0	(s)	9.4	27.6	89.8	66.2	156.0
1974	5.1	(s)	5.1	45.5	3.2	1.7	1.6	2.1	(s)	8.6	27.4	86.6	66.8	153.4
1975	5.0	(s)	5.0	43.8	3.4	1.5	1.8	2.2	(s)	8.9	25.4	83.1	61.2	144.3
1976	3.8	(s)	3.8	39.4	6.0	1.7	1.8	2.2	(s)	11.7	27.0	81.8	65.0	146.7
1977	3.6	(s)	3.6	36.2	5.6	1.7	1.6	2.2	(s)	11.1	35.9	86.8	86.7	173.5
1978	3.2	(s)	3.2	31.8	5.6	1.6	1.5	2.4	(s)	11.0	46.5	92.6	113.7	206.3
1979	2.8	(s)	2.8	44.1	5.4	0.9	1.0	2.2	(s)	9.6	47.6	104.1	114.8	218.9
1980	3.6	(s)	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	0.7	3.1	0.5	17.9	33.9	104.4	79.0	183.4
1985	2.7	0.0	2.7	44.9	18.0	0.9	0.8	1.8	0.6	22.1	33.6	103.3	79.0	182.3
1986	1.2	0.0	1.2	44.0	8.2	0.5	0.9	2.1	0.8	12.6	33.2	90.9	76.3	167.3
1987	1.6	0.0	1.6	45.6	6.8	0.7	0.9	2.0	0.4	10.8	34.8	92.7	79.5	172.2
1988	3.0	(s)	3.0	47.3	6.4	1.4	1.1	2.7	0.5	12.1	35.8	98.2	80.8	179.0
1989	3.4	0.1	3.5	49.0	3.9	0.9	1.3	2.7	0.3	9.1	41.8	103.3	93.6	197.0
1990	3.4	0.1	3.5	45.1	3.7	0.4	1.1	2.4	0.2	7.8	44.6	101.0	97.5	198.4
1991	2.6	0.1	2.7	47.5	3.5	0.2	1.2	2.2	0.1	7.2	44.8	102.2	97.3	199.5
1992	2.5	(s)	2.5	48.0	6.1	0.4	1.3	1.8	0.4	10.0	25.2	85.6	53.8	139.5
1993	1.8	(s)	1.8	52.5	5.5	0.3	1.4	1.1	0.2	8.5	20.8	83.6	R 44.0	R 127.6
1994	1.5	(s)	1.5	52.4	5.9	0.4	1.4	0.3	0.2	8.1	20.9	82.8	43.6	126.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Tennessee

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	2,307	76	1,785	2,096	1,670	275	256	627	180	1,458	8,346	0	0	0	27,514	–	68,438	–
1965	2,862	97	3,441	2,601	1,486	522	321	484	264	4,403	13,521	0	0	0	28,362	–	67,716	–
1970	2,452	123	3,628	3,172	1,709	363	334	235	593	6,324	16,360	0	0	0	27,776	–	67,310	–
1971	1,947	129	3,456	3,288	1,655	331	415	210	371	4,625	14,352	0	0	0	26,682	–	64,508	–
1972	2,286	136	3,734	3,931	1,413	348	445	205	517	5,625	16,218	0	0	0	28,874	–	69,500	–
1973	2,551	161	4,697	4,347	1,360	452	564	143	514	5,624	17,701	0	0	0	33,630	–	80,510	–
1974	2,450	148	3,432	4,501	937	415	540	184	803	5,556	16,368	0	0	0	34,108	–	83,164	–
1975	2,134	112	3,765	4,712	714	455	522	117	523	5,596	16,405	0	0	0	37,904	–	91,429	–
1976	2,270	115	3,882	6,631	944	470	580	93	2,699	6,133	21,431	0	0	0	41,285	–	99,448	–
1977	2,821	110	5,061	6,385	903	477	564	98	3,249	7,215	23,953	0	0	0	38,214	–	92,276	–
1978	3,018	99	5,561	6,520	873	725	606	78	2,224	7,205	23,792	0	0	0	32,772	–	80,177	–
1979	3,092	118	4,408	5,950	1,452	1,046	634	48	2,231	7,746	23,516	0	0	0	34,088	–	82,266	–
1980	2,774	123	3,378	4,252	881	960	565	36	1,445	8,336	19,853	0	0	0	32,968	–	80,167	–
1981	3,573	121	2,732	3,685	551	522	542	28	1,074	8,704	17,838	0	0	0	31,070	–	74,049	–
1982	3,122	110	4,173	3,341	425	868	494	26	598	6,964	16,888	0	0	0	25,455	–	61,138	–
1983	3,936	100	3,000	2,675	166	611	517	17	917	5,694	13,597	0	0	0	28,424	–	68,098	–
1984	3,941	103	3,816	2,889	154	625	551	451	612	6,752	15,850	0	0	0	35,925	–	83,620	–
1985	4,145	97	4,408	3,482	203	693	514	642	441	6,356	16,740	0	0	0	33,624	–	78,997	–
1986	4,142	92	4,158	3,684	58	801	502	578	452	R 8,925	R 19,158	0	0	0	32,196	–	74,060	–
1987	3,954	98	4,565	3,479	96	840	568	608	253	R 9,164	R 19,573	0	0	0	32,071	–	73,279	–
1988	4,020	103	4,048	3,390	131	900	548	562	356	R 9,597	R 19,532	0	0	0	34,431	–	77,840	–
1989	4,058	107	5,703	2,360	36	992	562	604	400	R 9,393	R 20,051	0	0	0	34,520	–	77,416	–
1990	3,846	110	5,798	2,925	46	760	578	580	273	R 10,744	R 21,704	R [f] NA	[f] NA	[f] NA	35,313	–	R 77,164	–
1991	3,720	116	5,349	2,702	43	796	517	557	339	R 11,359	R 21,662	R NA	NA	NA	35,667	–	R 77,548	–
1992	3,686	126	5,281	3,659	12	2,203	527	575	295	R 12,607	R 25,160	R NA	NA	NA	R 41,695	–	R 89,010	–
1993	3,942	124	4,922	3,389	38	830	537	724	479	R 12,080	R 23,000	R NA	NA	NA	R 43,530	–	R 91,933	–
1994	4,097	119	5,448	3,746	32	758	561	786	426	12,824	24,581	NA	NA	NA	43,614	–	90,956	–
			Trillion Btu															
1960	58.1	78.6	11.8	12.2	9.5	1.1	1.5	3.3	1.1	8.6	49.2	0.0	0.0	0.0	93.9	279.7	233.5	513.3
1965	71.4	101.9	22.8	15.2	8.4	2.1	1.9	2.5	1.7	25.2	79.9	0.0	0.0	0.0	96.8	350.0	231.0	581.0
1970	58.0	125.9	24.1	18.5	9.7	1.4	2.0	1.2	3.7	35.9	96.6	0.0	0.0	0.0	94.8	375.2	229.7	604.9
1971	45.7	132.1	22.9	19.2	9.4	1.2	2.5	1.1	2.3	26.7	85.3	0.0	0.0	0.0	91.0	354.1	220.1	574.2
1972	53.2	139.1	24.8	22.9	8.0	1.3	2.7	1.1	3.3	32.6	96.6	0.0	0.0	0.0	98.5	387.4	237.1	624.6
1973	59.5	164.5	31.2	25.3	7.7	1.7	3.4	0.8	3.2	32.5	105.8	0.0	0.0	0.0	114.7	444.6	274.7	719.3
1974	56.6	150.9	22.8	26.2	5.3	1.5	3.3	1.0	5.0	32.0	97.1	0.0	0.0	0.0	116.4	421.0	283.8	704.8
1975	49.9	115.1	25.0	27.4	4.1	1.7	3.2	0.6	3.3	32.4	97.6	0.0	0.0	0.0	129.3	392.0	312.0	704.0
1976	54.1	118.4	25.8	38.6	5.4	1.7	3.5	0.5	17.0	35.3	127.8	0.0	0.0	0.0	140.9	441.1	339.3	780.4
1977	66.6	113.0	33.6	37.2	5.1	1.8	3.4	0.5	20.4	41.7	143.7	0.0	0.0	0.0	130.4	453.7	314.8	768.6
1978	71.8	101.7	36.9	38.0	4.9	2.7	3.7	0.4	14.0	41.5	142.1	0.0	0.0	0.0	111.8	427.4	273.6	700.9
1979	74.4	122.3	29.2	34.7	8.2	3.8	3.8	0.3	14.0	43.8	138.0	0.0	0.0	0.0	116.3	451.0	280.7	731.7
1980	67.2	125.1	22.4	24.8	5.0	3.5	3.4	0.2	9.1	46.9	115.3	0.0	0.0	0.0	112.5	420.0	273.5	693.6
1981	86.4	123.1	18.1	21.5	3.1	1.9	3.3	0.1	6.8	49.4	104.2	0.0	0.0	0.0	106.0	419.7	252.7	672.4
1982	75.9	112.5	27.7	19.5	2.4	3.1	3.0	0.1	3.8	39.6	99.2	0.0	0.0	0.0	86.9	374.5	208.6	583.1
1983	95.5	102.4	19.9	15.6	0.9	2.2	3.1	0.1	5.8	32.7	80.3	0.0	0.0	0.0	97.0	375.1	232.4	607.5
1984	96.7	105.5	25.3	16.8	0.9	2.2	3.3	2.4	3.8	38.0	92.8	0.0	0.0	0.0	122.6	417.6	285.3	702.9
1985	102.2	100.6	29.3	20.3	1.1	2.5	3.1	3.4	2.8	35.9	98.4	0.0	0.0	0.0	114.7	415.9	269.5	685.4
1986	102.5	94.5	27.6	21.5	0.3	2.9	3.0	3.0	2.8	R 50.0	R 111.2	0.0	0.0	0.0	109.9	R 418.1	252.7	R 670.8
1987	98.3	100.8	30.3	20.3	0.5	3.1	3.4	3.2	1.6	R 51.0	R 113.4	0.0	0.0	0.0	109.4	R 421.9	250.0	R 672.0
1988	99.8	106.6	26.9	19.7	0.7	3.3	3.3	3.0	2.2	R 53.7	R 112.9	0.0	0.0	0.0	117.5	R 436.8	265.6	R 702.4
1989	100.3	110.4	37.8	13.7	0.2	3.7	3.4	3.2	2.5	R 62.4	R 117.0	0.0	0.0	0.0	117.8	R 445.4	264.1	R 709.6
1990	96.8	113.6	38.5	17.0	0.3	2.8	3.5	3.0	1.7	R 60.2	R 127.0	[f] 0.0	[f] 43.3	[f] 0.0	120.5	R [f] 501.1	R 263.3	R [f] 764.4
1991	93.5	119.7	35.5	15.7	0.2	2.9	3.1	2.9	2.1	R 63.6	R 126.2	0.0	43.2	0.0	121.7	R 504.2	R 264.6	R 768.8
1992	93.1	130.2	35.0	21.3	0.1	8.0	3.2	3.0	1.9	R 70.6	R 143.0	0.0	45.4	0.0	R 142.3	R 553.9	R 303.7	R 857.6
1993	99.2	128.7	32.7	19.7	0.2	3.0	3.3	3.8	3.0	R 67.4	R 133.1	0.0	45.9	0.0	148.5	R 555.4	R 313.7	R 869.1
1994	102.7	122.7	36.2	21.8	0.2	2.8	3.4	4.1	2.7	71.7	142.8	10.8	48.5	0.0	148.8	576.3	310.3	886.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Tennessee

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	38	5	1,040	2,914	570	22	505	26,468	8	31,527	0	(s)	–	(s)	–
1965	9	23	1,024	4,346	1,174	54	479	31,721	22	38,819	0	(s)	–	(s)	–
1970	4	26	116	7,189	3,335	94	491	41,241	3	52,469	0	(s)	–	(s)	–
1971	2	27	115	7,665	3,335	112	482	43,927	1	55,637	0	(s)	–	(s)	–
1972	2	25	119	9,500	3,439	90	516	47,763	0	61,427	0	(s)	–	(s)	–
1973	2	28	109	10,308	3,795	119	557	51,874	131	66,893	0	(s)	–	(s)	–
1974	1	24	93	10,647	3,837	118	533	51,061	65	66,353	0	(s)	–	(s)	–
1975	(s)	19	70	10,631	3,936	120	807	53,199	191	68,953	0	(s)	–	(s)	–
1976	(s)	15	56	11,462	4,105	120	896	55,740	260	72,639	0	(s)	–	(s)	–
1977	(s)	14	63	12,642	4,377	131	675	57,133	117	75,139	0	(s)	–	(s)	–
1978	0	14	56	14,359	4,683	166	725	59,524	58	79,572	0	(s)	–	(s)	–
1979	0	20	705	16,242	4,895	103	759	56,665	156	79,525	0	(s)	–	(s)	–
1980	0	16	290	13,196	4,154	61	676	54,446	6	72,828	0	(s)	–	(s)	–
1981	0	18	232	13,949	3,486	90	648	54,076	76	72,557	0	(s)	–	1	–
1982	0	17	171	13,667	2,289	154	591	54,006	21	70,899	0	(s)	–	(s)	–
1983	0	11	179	14,934	2,060	182	619	53,310	0	71,285	0	(s)	–	(s)	–
1984	0	13	164	16,422	3,636	239	660	56,348	0	77,469	0	(s)	–	1	–
1985	0	10	154	15,221	4,862	166	615	57,055	0	78,073	0	(s)	–	1	–
1986	0	14	201	17,156	5,925	201	601	59,318	0	83,401	0	(s)	–	1	–
1987	0	15	186	17,500	5,686	119	680	62,007	(s)	86,178	0	(s)	–	1	–
1988	0	17	183	18,500	4,231	147	656	58,301	13	82,030	0	(s)	–	1	–
1989	0	18	182	19,704	4,356	155	673	58,909	11	83,990	0	(s)	–	1	–
1990	0	20	174	19,842	4,181	127	692	56,627	5	81,648	[e] 23,948	(s)	–	1	–
1991	0	16	145	18,774	3,413	135	619	55,170	50	78,306	18,983	(s)	–	1	–
1992	0	16	343	18,860	4,479	120	631	57,680	44	82,157	23,072	(s)	–	(s)	–
1993	0	19	395	19,033	6,569	148	643	60,267	15	87,069	25,749	(s)	–	(s)	–
1994	0	18	392	19,231	7,762	240	672	62,085	3	90,384	28,560	1	–	2	–
			Trillion Btu												
1960	0.9	5.5	5.2	17.0	3.1	0.1	3.1	139.0	0.1	167.6	0.0	(s)	174.0	(s)	174.0
1965	0.2	23.7	5.2	25.3	6.5	0.2	2.9	166.6	0.1	206.9	0.0	(s)	230.9	(s)	230.9
1970	0.1	27.0	0.6	41.9	18.8	0.4	3.0	216.6	(s)	281.2	0.0	(s)	308.4	(s)	308.4
1971	0.1	27.2	0.6	44.6	18.8	0.4	2.9	230.7	(s)	298.1	0.0	(s)	325.4	(s)	325.4
1972	0.1	25.9	0.6	55.3	19.4	0.3	3.1	250.9	0.0	329.7	0.0	(s)	355.6	(s)	355.6
1973	(s)	29.0	0.5	60.0	21.4	0.4	3.4	272.5	0.8	359.2	0.0	(s)	388.2	(s)	388.2
1974	(s)	24.5	0.5	62.0	21.6	0.4	3.2	268.2	0.4	356.4	0.0	(s)	380.9	(s)	380.9
1975	(s)	19.7	0.4	61.9	22.2	0.4	4.9	279.5	1.2	370.5	0.0	(s)	390.2	(s)	390.2
1976	(s)	15.5	0.3	66.8	23.2	0.4	5.4	292.8	1.6	390.5	0.0	(s)	406.1	(s)	406.1
1977	(s)	14.3	0.3	73.6	24.7	0.5	4.1	300.1	0.7	404.1	0.0	(s)	418.4	(s)	418.4
1978	0.0	14.8	0.3	83.6	26.4	0.6	4.4	312.7	0.4	428.4	0.0	(s)	443.2	(s)	443.2
1979	0.0	20.8	3.6	94.6	27.7	0.4	4.6	297.7	1.0	429.4	0.0	(s)	450.3	(s)	450.3
1980	0.0	16.8	1.5	76.9	23.4	0.2	4.1	286.0	(s)	392.1	0.0	(s)	408.9	(s)	408.9
1981	0.0	17.8	1.2	81.3	19.7	0.3	3.9	284.1	0.5	390.9	0.0	(s)	408.7	(s)	408.7
1982	0.0	17.0	0.9	79.6	12.9	0.6	3.6	283.7	0.1	381.3	0.0	(s)	398.3	(s)	398.3
1983	0.0	11.1	0.9	87.0	11.6	0.7	3.8	280.0	0.0	383.9	0.0	(s)	395.1	(s)	395.1
1984	0.0	13.0	0.8	95.7	20.5	0.9	4.0	296.0	0.0	417.9	0.0	(s)	430.9	(s)	430.9
1985	0.0	10.5	0.8	88.7	27.5	0.6	3.7	299.7	0.0	420.9	0.0	(s)	431.5	(s)	431.5
1986	0.0	14.0	1.0	99.9	33.5	0.7	3.6	311.6	0.0	450.4	0.0	(s)	464.4	(s)	464.4
1987	0.0	15.8	0.9	101.9	32.1	0.4	4.1	325.7	(s)	465.3	0.0	(s)	481.1	(s)	481.1
1988	0.0	17.6	0.9	107.8	23.9	0.5	4.0	306.3	0.1	443.4	0.0	(s)	461.0	(s)	461.0
1989	0.0	18.4	0.9	114.8	24.6	0.6	4.1	309.4	0.1	454.5	0.0	(s)	472.8	(s)	472.8
1990	0.0	20.3	0.9	115.6	23.6	0.5	4.2	297.5	(s)	442.2	[e] 1.8	(s)	[e] 462.5	(s)	[e] 462.5
1991	0.0	16.3	0.7	109.4	19.3	0.5	3.8	289.8	0.3	423.7	1.5	(s)	440.0	(s)	440.0
1992	0.0	16.9	1.7	109.9	25.3	0.4	3.8	303.0	0.3	444.4	1.8	(s)	461.3	(s)	461.3
1993	0.0	19.3	2.0	110.9	37.2	0.5	3.9	316.6	0.1	471.1	2.0	(s)	490.4	(s)	490.4
1994	0.0	18.7	2.0	112.0	44.0	0.9	4.1	326.1	(s)	489.1	2.2	(s)	507.7	(s)	507.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Tennessee

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	12,138	0	12,138	7	0	(s)	0	(s)	0	8,676	0	0	0	–
1965	10,637	0	10,637	16	0	0	0	0	0	8,750	0	0	0	–
1970	14,727	0	14,727	17	0	0	0	0	0	8,067	0	0	0	–
1971	14,130	0	14,130	18	0	17	0	17	0	9,420	0	0	0	–
1972	17,200	0	17,200	16	0	166	0	166	0	11,132	0	0	0	–
1973	20,934	0	20,934	12	0	296	0	296	0	11,452	0	0	0	–
1974	18,526	0	18,526	0	0	296	0	296	0	11,767	0	0	0	–
1975	18,848	0	18,848	0	0	1,310	0	1,310	0	11,806	0	0	0	–
1976	22,362	0	22,362	(s)	0	2,486	0	2,486	0	9,474	0	0	0	–
1977	21,694	0	21,694	0	0	3,739	0	3,739	0	10,396	0	0	0	–
1978	21,621	0	21,621	0	0	5,177	0	5,177	0	8,783	0	0	0	–
1979	20,173	0	20,173	0	55	645	0	700	0	12,306	0	0	0	–
1980	21,679	0	21,679	1	0	406	0	406	519	8,764	0	0	0	–
1981	20,497	0	20,497	(s)	0	322	0	322	4,704	5,915	0	0	0	–
1982	16,532	0	16,532	0	0	287	0	287	10,104	9,769	0	0	0	–
1983	18,672	0	18,672	(s)	0	291	0	291	14,051	9,952	0	0	0	–
1984	19,106	0	19,106	0	0	207	0	207	12,501	10,181	0	0	0	–
1985	20,853	0	20,853	0	0	237	0	237	9,672	6,539	0	0	0	–
1986	21,051	0	21,051	0	0	232	0	232	-105	5,326	0	0	0	–
1987	20,697	0	20,697	0	0	222	0	222	-108	7,566	0	0	0	–
1988	21,010	0	21,010	(s)	0	365	0	365	3,940	4,591	0	0	0	–
1989	19,283	0	19,283	(s)	0	356	0	356	15,603	11,853	0	0	0	–
1990	20,814	0	20,814	1	0	232	0	232	14,003	9,537	0	0	0	–
1991	19,216	0	19,216	(s)	0	272	0	272	16,587	10,497	0	0	0	–
1992	20,263	0	20,263	(s)	0	225	0	225	15,654	9,590	0	0	0	–
1993	23,801	0	23,801	2	0	413	0	413	3,305	8,394	0	0	0	–
1994	21,253	0	21,253	1	0	519	0	519	11,932	10,399	0	0	0	–
	Trillion Btu													
1960	291.8	0.0	291.8	7.5	0.0	(s)	0.0	(s)	0.0	93.4	0.0	0.0	0.0	392.6
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	0.0	359.4
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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	699.6
1984	451.1	0.0	451.1	0.0	0.0	1.2	0.0	1.2	135.6	106.3	0.0	0.0	0.0	694.1
1985	493.3	0.0	493.3	0.0	0.0	1.4	0.0	1.4	104.6	68.3	0.0	0.0	0.0	667.6
1986	501.4	0.0	501.4	0.0	0.0	1.3	0.0	1.3	-1.1	55.6	0.0	0.0	0.0	557.2
1987	495.8	0.0	495.8	0.0	0.0	1.3	0.0	1.3	-1.2	78.8	0.0	0.0	0.0	574.8
1988	506.1	0.0	506.1	0.2	0.0	2.1	0.0	2.1	42.3	47.4	0.0	0.0	0.0	598.2
1989	458.7	0.0	458.7	(s)	0.0	2.1	0.0	2.1	167.3	122.3	0.0	0.0	0.0	750.5
1990	498.1	0.0	498.1	0.6	0.0	1.4	0.0	1.4	149.5	98.6	0.0	0.0	0.0	748.2
1991	467.7	0.0	467.7	0.2	0.0	1.6	0.0	1.6	178.1	108.7	0.0	0.0	0.0	756.3
1992	493.7	0.0	493.7	0.3	0.0	1.3	0.0	1.3	167.1	98.8	0.0	0.0	0.0	761.2
1993	584.0	0.0	584.0	1.6	0.0	2.4	0.0	2.4	35.3	86.3	0.0	0.0	0.0	709.6
1994	518.0	0.0	518.0	1.1	0.0	3.0	0.0	3.0	127.4	106.8	0.0	0.0	0.0	756.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Texas

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	55,526	294,919	0	927	0	0	-1,996	–
1965	1,146	3,068	7,811	3,457	24,854	15,365	3,459	109,109	3,788	107,851	14,322	80,151	370,167	0	661	87	0	-2,853	–
1970	1,154	4,093	11,885	2,007	32,410	24,430	7,500	151,223	4,204	141,393	14,146	100,047	489,244	0	883	97	0	4,903	–
1971	921	4,365	11,479	1,998	34,926	25,067	5,721	154,363	4,274	148,620	12,126	105,661	504,235	0	718	95	0	-588	–
1972	2,774	4,413	11,379	1,565	46,020	25,910	7,285	178,294	4,576	159,242	14,860	115,094	564,225	0	615	101	0	-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	124,392	615,235	0	1,381	101	0	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	127,061	615,378	0	1,281	95	0	-134	–
1975	12,765	3,944	8,150	1,312	54,706	27,308	7,196	157,246	4,321	175,538	38,536	123,687	598,001	0	1,584	89	0	-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	150,395	643,974	0	827	98	0	-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	173,968	705,452	0	1,118	96	0	-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	185,193	744,315	0	748	96	0	-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	207,602	810,381	0	1,174	85	0	-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	218,150	790,331	0	398	79	0	-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	170,372	773,869	0	856	75	0	-21,188	–
1982	61,217	3,394	7,855	903	90,523	42,809	10,128	195,305	4,670	190,663	59,968	141,958	744,783	0	1,022	61	0	-11,762	–
1983	68,201	3,242	11,721	762	96,961	47,270	14,276	196,447	4,890	195,020	43,198	137,880	748,425	0	1,153	75	0	2,561	–
1984	72,452	3,433	10,729	963	97,238	64,626	13,720	263,521	5,214	196,755	35,390	148,405	836,562	0	1,075	110	0	17,954	–
1985	77,017	3,386	11,608	1,317	94,121	74,500	776	256,932	4,859	205,370	28,713	142,516	820,912	0	1,397	300	0	30,397	–
1986	79,259	3,186	13,645	1,539	86,354	80,214	678	250,171	4,751	209,517	27,842	R 145,157	R 819,869	0	1,962	308	0	40,151	–
1987	82,915	3,303	12,601	1,150	88,345	84,562	585	272,281	5,372	204,864	21,971	R 151,875	R 843,605	0	2,118	233	0	47,710	–
1988	86,644	3,531	14,434	1,013	86,408	94,793	233	292,960	5,180	208,955	24,328	R 165,356	R 893,659	3,792	1,203	0	0	42,573	–
1989	90,989	3,624	9,682	820	87,946	93,265	703	306,174	5,313	203,422	28,801	R 164,701	R 900,828	9,990	1,383	189	(s)	20,450	–
1990	91,415	3,602	14,013	838	82,338	95,903	200	293,043	5,468	204,221	27,843	R 178,929	R 902,796	15,859	R I NA	I NA	I NA	R 20,379	–
1991	92,064	3,560	9,371	655	84,708	90,674	93	320,936	4,891	198,718	28,600	R 179,338	R 917,985	19,800	R NA	NA	NA	R 18,085	–
1992	91,568	3,476	11,800	783	90,279	90,029	173	333,233	4,987	200,730	30,937	R 193,254	R 956,205	24,496	R NA	NA	NA	R 5,707	–
1993	96,809	R 3,741	12,734	693	91,759	86,961	152	R 322,305	5,078	207,377	22,859	R 188,032	R 937,951	12,407	R NA	NA	NA	R 18,080	–
1994	93,829	3,666	10,947	773	89,545	83,397	148	358,599	5,308	218,850	21,946	197,614	987,127	28,745	NA	NA	NA	7,473	–
			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	331.6	1,549.3	0.0	10.0	0.0	0.0	-6.8	4,392.9
1965	29.2	3,181.5	51.8	17.5	144.8	84.3	19.6	437.6	23.0	566.5	90.0	471.5	1,906.7	0.0	6.9	0.9	0.0	-9.7	5,115.4
1970	30.8	4,203.9	78.9	10.1	188.8	135.9	42.5	571.5	25.5	742.7	88.9	582.8	2,467.7	0.0	9.3	1.0	0.0	16.7	6,729.3
1971	24.0	4,482.6	76.2	10.1	203.4	139.4	32.4	582.3	25.9	780.7	76.2	613.7	2,540.4	0.0	7.5	1.0	0.0	-2.0	7,053.5
1972	50.1	4,531.8	75.5	7.9	268.1	144.4	41.3	670.4	27.8	836.5	93.4	669.0	2,834.2	0.0	6.4	1.1	0.0	-14.4	7,409.2
1973	125.9	4,746.2	78.0	7.8	313.1	148.2	49.4	690.5	30.4	890.1	187.1	723.8	3,118.4	0.0	14.3	1.0	0.0	7.7	8,013.5
1974	133.1	4,584.0	81.0	8.1	324.6	144.9	43.1	658.7	29.1	881.8	226.1	737.4	3,134.8	0.0	13.4	1.0	0.0	-0.5	7,865.8
1975	196.2	4,046.9	54.1	6.6	318.7	152.7	40.8	584.2	26.2	922.1	242.3	719.4	3,067.0	0.0	16.5	0.9	0.0	-18.7	7,308.8
1976	226.3	4,074.7	44.8	6.4	339.7	143.3	30.3	595.4	29.1	980.8	278.5	869.9	3,318.3	0.0	8.6	1.0	0.0	-12.4	7,616.5
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	1,008.2	3,665.9	0.0	11.7	1.0	0.0	-21.9	8,199.7
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	1,073.9	3,886.1	0.0	7.8	1.0	0.0	-22.8	8,620.3
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	1,188.3	4,228.7	0.0	12.2	0.9	0.0	-46.8	8,914.0
1980	734.1	4,226.1	72.4	6.4	422.4	173.3	87.1	697.3	32.4	950.8	409.1	1,240.4	4,091.5	0.0	4.1	0.8	0.0	-68.5	8,988.2
1981	858.5	4,052.3	52.6	6.6	528.2	173.4	60.9	744.3	31.1	972.7	423.2	970.6	3,963.6	0.0	8.9	0.8	0.0	-72.3	8,811.9
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	812.4	3,807.4	0.0	10.7	0.6	0.0	-40.1	8,212.7
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	801.7	3,830.8	0.0	12.1	0.8	0.0	8.7	8,204.7
1984	1,074.9	3,556.2	71.2	4.9	566.4	364.3	77.8	948.4	31.6	1,033.6	222.5	842.8	4,163.4	0.0	11.2	1.2	0.0	61.3	8,868.1
1985	1,149.0	3,514.4	78.4	6.6	548.3	420.5	4.4	925.7	29.5	1,078.8	180.5	816.4	4,089.2	0.0	14.6	3.1	0.0	103.7	8,874.0
1986	1,162.7	3,312.9	90.5	7.8	503.0	453.0	3.8	910.6	28.8	1,100.6	175.0	R 835.8	R 4,109.1	0.0	20.5	3.2	0.0	137.0	R 8,745.5
1987	1,203.9	3,435.4	83.6	5.8	514.6	477.6	3.3	996.3	32.6	1,076.1	138.1	R 866.3	R 4,194.4	0.0	22.1	2.4	0.0	162.8	R 9,021.0
1988	1,264.1	3,665.2	95.8	5.1	503.3	535.5	1.3	1,069.9	31.4	1,097.6	153.0	R 945.8	R 4,438.7	40.7	12.4	0.0	0.0	145.3	R 9,566.4
1989	1,326.1	3,761.3	64.2	4.1	512.3	526.9	4.0	1,127.6	32.2	1,068.6	181.1	R 937.7	R 4,458.7	107.1	14.3	2.0	(s)	69.8	R 9,739.3
1990	1,333.9	3,745.9	93.0	4.2	479.6	542.1	1.1	1,062.3	33.2	1,072.8	175.1	R 1,018.1	R 4,481.5	169.4	R I 18.5	I 51.5	I 0.3	R 69.5	R I 9,869.2
1991	1,333.1	3,691.8	62.2	3.3	493.4	512.8	0.5	1,159.9	29.7	1,043.9	179.8	R 1,019.2	R 4,504.7	212.7	R 23.0	52.0	0.4	R 61.7	R 9,874.1
1992	1,324.2	3,625.8	78.3	4.0	525.9	509.1	1.0	1,207.6	30.2	1,054.4	194.5	R 1,091.4	R 4,696.5	261.6	R 27.2	54.7	0.4	R 19.5	R 9,999.0
1993	1,413.2	R 3,846.0	84.5	3.5	534.5	492.0	0.9	R 1,162.2	30.8	1,089.4	143.7	R 1,063.2	R 4,604.7	132.5	R 18.4	53.3	0.4	R 61.7	R 10,121.1
1994	1,382.8	3,802.0	72.6	3.9	521.6	472.5	0.8	1,303.5	32.2	1,149.6	138.0	1,116.3	4,811.1	306.9	15.7	54.1	0.4	25.5	10,387.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– –=Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Texas

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	6	0	6	172	96	6	10,083	10,185	0	0	11,316	–	28,146	–
1965	2	0	2	183	71	7	13,052	13,131	0	0	18,745	–	44,755	–
1970	1	0	1	232	134	33	15,397	15,565	0	0	32,591	–	78,980	–
1971	(s)	0	(s)	237	149	28	14,800	14,978	0	0	35,980	–	86,986	–
1972	(s)	0	(s)	241	227	33	15,351	15,611	0	0	40,998	–	98,684	–
1973	(s)	0	(s)	241	252	48	14,008	14,308	0	0	42,632	–	102,063	–
1974	(s)	0	(s)	223	264	40	12,434	12,738	0	0	43,527	–	106,130	–
1975	0	0	0	232	270	39	11,419	11,728	0	0	40,892	–	98,636	–
1976	0	0	0	236	328	27	11,685	12,039	0	0	41,171	–	99,173	–
1977	1	0	1	270	561	35	10,779	11,375	0	0	46,831	–	113,083	–
1978	0	0	0	275	626	39	11,963	12,628	0	0	51,105	–	125,028	–
1979	0	0	0	316	724	94	6,131	6,948	0	0	50,383	–	121,591	–
1980	(s)	0	(s)	225	8	198	6,131	6,337	0	0	57,178	–	139,037	–
1981	2	0	2	209	7	114	6,245	6,366	0	0	57,621	–	137,326	–
1982	2	1	3	221	29	356	4,729	5,114	0	0	60,733	–	145,871	–
1983	0	0	0	214	344	112	5,624	6,081	0	0	60,326	–	144,529	–
1984	0	0	0	230	338	457	5,135	5,931	0	0	68,363	–	159,121	–
1985	2	0	2	213	39	112	7,262	7,414	0	0	71,740	–	168,547	–
1986	5	0	5	195	21	46	6,611	6,677	0	0	72,392	–	166,523	–
1987	10	0	10	211	82	59	7,046	7,187	0	0	74,369	–	169,928	–
1988	16	1	17	210	32	58	6,208	6,298	0	0	77,255	–	174,656	–
1989	4	1	5	230	13	49	6,534	6,596	0	0	79,620	–	178,558	–
1990	4	0	4	211	3	26	6,133	6,162	[e] 746	[e] 95	82,548	–	R 180,381	–
1991	4	(s)	4	222	3	34	4,040	4,078	786	107	84,088	–	R 182,824	–
1992	3	(s)	4	215	2	23	3,448	3,473	827	108	81,934	–	R 174,911	–
1993	2	(s)	2	232	3	30	3,674	3,707	725	111	R 87,686	–	R 185,186	–
1994	(s)	(s)	(s)	213	6	20	3,628	3,654	711	120	89,793	–	187,259	–
	Trillion Btu													
1960	0.1	0.0	0.1	177.7	0.6	(s)	40.4	41.0	0.0	0.0	38.6	257.4	96.0	353.4
1965	(s)	0.0	(s)	189.3	0.4	(s)	52.4	52.8	0.0	0.0	64.0	306.1	152.7	458.8
1970	(s)	0.0	(s)	238.5	0.8	0.2	58.2	59.2	0.0	0.0	111.2	408.8	269.5	678.3
1971	(s)	0.0	(s)	243.8	0.9	0.2	55.8	56.9	0.0	0.0	122.8	423.4	296.8	720.2
1972	(s)	0.0	(s)	247.7	1.3	0.2	57.7	59.2	0.0	0.0	139.9	446.8	336.7	783.5
1973	(s)	0.0	(s)	248.7	1.5	0.3	52.5	54.2	0.0	0.0	145.5	448.4	348.2	796.6
1974	(s)	0.0	(s)	229.7	1.5	0.2	46.4	48.1	0.0	0.0	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	0.0	0.0	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	0.0	0.0	140.5	428.3	338.4	766.7
1977	(s)	0.0	(s)	277.4	3.3	0.2	39.6	43.1	0.0	0.0	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	0.0	0.0	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	0.0	0.0	171.9	524.4	414.9	939.3
1980	(s)	0.0	(s)	231.7	(s)	1.1	22.5	23.7	0.0	0.0	195.1	450.5	474.4	924.9
1981	(s)	0.0	(s)	216.0	(s)	0.6	22.8	23.4	0.0	0.0	196.6	436.0	468.6	904.6
1982	(s)	(s)	0.1	228.3	0.2	2.0	17.1	19.3	0.0	0.0	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	0.0	0.0	205.8	450.1	493.1	943.3
1984	0.0	0.0	0.0	239.4	2.0	2.6	18.5	23.0	0.0	0.0	233.3	495.7	542.9	1,038.6
1985	0.1	0.0	0.1	221.0	0.2	0.6	26.2	27.0	0.0	0.0	244.8	492.9	575.1	1,067.9
1986	0.1	0.0	0.1	202.9	0.1	0.3	24.1	24.4	0.0	0.0	247.0	474.5	568.2	1,042.6
1987	0.2	0.0	0.2	219.6	0.5	0.3	25.8	26.6	0.0	0.0	253.7	500.2	579.8	1,080.0
1988	0.4	(s)	0.4	218.4	0.2	0.3	22.7	23.2	0.0	0.0	263.6	505.5	595.9	1,101.5
1989	0.1	(s)	0.1	239.2	0.1	0.3	24.1	24.4	0.0	0.0	271.7	535.4	609.2	1,144.6
1990	0.1	0.0	0.1	219.5	(s)	0.1	22.2	22.4	[e] 14.9	[e] 0.3	281.7	R [e] 538.9	R 615.5	R [e] 1,154.3
1991	0.1	(s)	0.1	231.0	(s)	0.2	14.6	14.8	15.7	0.4	286.9	R 548.9	R 623.8	R 1,172.7
1992	0.1	(s)	0.1	225.3	(s)	0.1	12.5	12.6	16.5	0.4	279.6	R 534.5	R 596.8	R 1,131.3
1993	(s)	(s)	(s)	238.5	(s)	0.2	13.2	13.4	14.5	0.4	299.2	R 566.0	R 631.9	R 1,197.9
1994	(s)	(s)	(s)	222.5	(s)	0.1	13.2	13.3	14.2	0.4	306.4	556.9	638.9	1,195.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Texas

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	4	0	4	81	440	788	2,303	711	64	4,307	14,804	–	35,347	–
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	(s)	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	906	1,747	681	22,158	57,151	–	133,025	–
1985	5	0	5	152	9,582	250	1,282	1,954	252	13,320	60,150	–	141,317	–
1986	9	0	9	147	5,412	177	1,167	2,087	247	9,090	61,350	–	141,122	–
1987	19	0	19	157	8,188	82	1,243	2,291	536	12,339	62,459	–	142,715	–
1988	30	(s)	30	175	5,586	41	1,095	2,444	543	9,710	65,511	–	148,106	–
1989	8	(s)	8	183	3,894	405	1,153	2,332	298	8,083	67,426	–	151,212	–
1990	7	0	7	172	3,274	25	1,082	2,280	72	6,733	70,781	–	R 154,668	–
1991	7	(s)	7	181	2,950	12	713	1,623	217	5,515	72,141	–	R 156,850	–
1992	6	(s)	6	185	3,104	68	609	1,447	16	5,243	72,076	–	R 153,868	–
1993	4	(s)	4	R 176	2,343	25	648	159	0	3,174	R 75,466	–	R 159,379	–
1994	(s)	(s)	(s)	180	2,524	29	640	160	1	3,355	78,058	–	162,786	–
	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
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
1970	(s)	0.0	(s)	150.0	4.8	20.4	10.3	3.6	0.5	39.7	78.0	267.7	189.1	456.8
1971	(s)	0.0	(s)	146.3	5.4	17.2	9.9	3.2	0.4	36.0	86.4	268.7	208.9	477.7
1972	(s)	0.0	(s)	145.2	8.2	20.0	10.2	3.2	1.1	42.7	96.6	284.5	232.5	517.0
1973	(s)	0.0	(s)	159.7	9.1	29.6	9.3	3.3	2.0	53.3	102.7	315.7	245.9	561.6
1974	(s)	0.0	(s)	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	(s)	0.0	(s)	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	(s)	0.0	(s)	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	(s)	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	3.3	9.2	4.3	124.8	195.0	492.1	453.9	945.9
1985	0.1	0.0	0.1	157.7	55.8	1.4	4.6	10.3	1.6	73.7	205.2	436.7	482.2	918.9
1986	0.2	0.0	0.2	153.2	31.5	1.0	4.2	11.0	1.6	49.3	209.3	412.1	481.5	893.6
1987	0.4	0.0	0.4	163.1	47.7	0.5	4.5	12.0	3.4	68.1	213.1	444.8	486.9	931.7
1988	0.7	(s)	0.7	182.4	32.5	0.2	4.0	12.8	3.4	53.0	223.5	459.7	505.3	965.0
1989	0.2	(s)	0.2	189.9	22.7	2.3	4.2	12.3	1.9	43.4	230.1	463.5	515.9	979.4
1990	0.2	0.0	0.2	179.6	19.1	0.1	3.9	12.0	0.5	35.6	241.5	456.8	R 527.7	R 984.5
1991	0.2	(s)	0.2	188.2	17.2	0.1	2.6	8.5	1.4	29.7	246.1	464.2	R 535.2	R 999.4
1992	0.1	(s)	0.1	193.8	18.1	0.4	2.2	7.6	0.1	28.4	245.9	468.3	R 525.0	R 993.3
1993	0.1	(s)	0.1	R 181.1	13.6	0.1	2.3	0.8	0.0	17.0	257.5	R 455.6	R 543.8	R 999.4
1994	(s)	(s)	(s)	187.9	14.7	0.2	2.3	0.8	(s)	18.0	266.3	472.3	555.4	1,027.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Texas

Year	Coal	Natural Gas [a]	Petroleum: Asphalt and Road Oil [b]	Petroleum: Distillate Fuel [b]	Petroleum: Kerosene [b]	Petroleum: LPG [b]	Petroleum: Lubricants [b]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [b]	Petroleum: Other [b,c]	Petroleum: Total	Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	1,031	2,029	6,284	10,118	2,729	59,411	1,712	3,798	4,615	55,526	144,194	0	0	0	14,602	–	36,320	–
1965	1,136	2,098	7,811	8,519	2,663	89,166	1,974	2,563	1,879	80,151	194,725	0	0	0	23,685	–	56,550	–
1970	1,150	2,557	11,885	8,947	3,863	127,521	2,581	1,410	2,297	100,047	258,551	0	0	0	40,274	–	97,598	–
1971	909	2,718	11,479	9,559	2,666	130,585	2,646	1,507	1,934	105,661	266,038	0	0	0	42,309	–	102,287	–
1972	921	2,642	11,379	13,748	3,721	153,699	2,834	1,222	3,304	115,094	305,001	0	0	0	46,267	–	111,365	–
1973	3,151	2,854	11,751	15,857	3,433	161,835	3,199	1,184	7,603	124,392	329,254	0	0	0	49,788	–	119,195	–
1974	3,276	2,678	12,212	15,158	3,176	156,665	3,063	1,144	9,040	127,061	327,520	0	0	0	51,615	–	125,851	–
1975	3,720	2,160	8,150	15,301	2,965	138,844	2,583	997	11,070	123,687	303,596	5	0	0	54,712	–	131,973	–
1976	3,630	2,154	6,749	17,351	2,441	141,578	2,870	1,215	13,081	150,395	335,680	5	0	0	60,264	–	145,165	–
1977	3,159	2,159	5,440	27,081	3,005	144,264	3,428	951	15,703	173,968	373,841	5	0	0	68,279	–	164,873	–
1978	3,649	2,202	7,145	29,646	3,881	145,944	3,682	721	16,830	185,193	393,041	0	0	0	72,234	–	176,720	–
1979	4,473	1,974	9,366	34,141	7,404	174,241	3,853	878	17,557	207,602	455,042	0	0	0	76,419	–	184,424	–
1980	3,250	2,163	10,906	20,250	11,906	181,940	3,431	470	16,029	218,150	463,082	0	0	0	78,190	–	190,131	–
1981	5,217	2,080	7,923	28,539	3,823	195,601	3,290	750	26,370	170,372	438,668	0	0	0	79,905	–	190,436	–
1982	4,670	1,595	7,855	27,280	8,474	188,544	3,000	637	26,848	141,958	404,596	0	0	0	76,055	–	182,671	–
1983	4,194	1,573	11,721	32,172	2,385	188,409	3,141	535	14,395	137,880	390,637	0	0	0	79,629	–	190,773	–
1984	5,495	1,663	10,729	31,595	3,229	256,647	3,350	2,250	9,622	148,405	465,828	0	0	0	82,742	–	192,591	–
1985	5,192	1,732	11,808	27,327	414	247,779	3,122	4,703	5,969	142,516	443,637	0	0	0	81,235	–	190,854	–
1986	4,488	1,655	13,645	27,484	455	241,630	3,052	4,542	1,680	R 145,157	R 437,646	0	0	0	79,527	–	182,935	–
1987	4,083	1,805	12,601	26,272	444	263,541	3,451	4,214	1,344	R 151,875	R 463,741	0	0	0	79,238	–	181,052	–
1988	3,708	1,994	14,434	27,628	134	285,193	3,328	4,129	1,040	R 165,356	R 501,241	0	0	0	81,579	–	184,432	–
1989	4,275	2,080	9,682	25,161	248	298,035	3,413	4,514	507	R 164,701	R 506,263	0	0	0	82,615	–	185,275	–
1990	4,157	2,105	14,013	25,890	149	285,345	3,513	4,311	1,291	R 178,929	R 513,439	R [f] NA	[f] NA	[f] NA	84,087	–	R 183,745	–
1991	4,198	2,070	9,371	23,134	47	315,838	3,142	4,616	1,101	R 179,338	R 536,586	R NA	NA	NA	84,122	–	R 182,899	–
1992	4,225	2,028	11,800	23,048	82	328,865	3,204	4,339	822	R 193,254	R 565,415	R NA	NA	NA	85,421	–	R 182,356	–
1993	4,667	R 2,179	12,734	22,326	97	R 317,637	3,262	3,437	2,444	R 187,713	R 549,651	R NA	NA	NA	86,933	–	R 183,596	–
1994	5,350	2,128	10,947	18,918	99	353,718	3,410	3,752	2,424	197,612	590,880	NA	NA	NA	90,329	–	188,378	–
			Trillion Btu															
1960	24.4	2,100.3	41.7	58.9	15.5	238.3	10.4	19.9	29.0	331.6	745.4	0.0	0.0	0.0	49.8	2,919.9	123.9	3,043.8
1965	29.0	2,175.3	51.8	49.6	15.1	357.6	12.0	13.5	11.8	471.5	982.9	0.0	0.0	0.0	80.8	3,268.0	192.9	3,461.0
1970	30.7	2,626.3	78.9	52.1	21.9	481.9	15.7	7.4	14.4	582.8	1,255.1	0.0	0.0	0.0	137.4	4,049.5	333.0	4,382.5
1971	23.9	2,791.2	76.2	55.7	15.1	492.6	16.0	7.9	12.2	613.7	1,289.3	0.0	0.0	0.0	144.4	4,248.8	349.0	4,597.8
1972	24.2	2,718.4	75.5	80.1	21.1	577.9	17.2	6.4	20.8	669.0	1,468.0	0.0	0.0	0.0	157.9	4,368.4	380.0	4,748.4
1973	59.6	2,940.0	78.0	92.4	19.5	606.2	19.4	6.2	47.8	723.8	1,593.3	0.0	0.0	0.0	169.9	4,762.8	406.7	5,169.5
1974	60.3	2,762.7	81.0	88.3	18.0	584.4	18.6	6.0	56.8	737.4	1,590.5	0.0	0.0	0.0	176.1	4,589.6	429.4	5,019.1
1975	77.7	2,224.0	54.1	89.1	16.8	515.8	15.7	5.2	69.6	719.4	1,485.8	0.1	0.0	0.0	186.7	3,974.1	450.3	4,424.4
1976	62.9	2,215.6	44.8	101.1	13.8	525.4	17.4	6.4	82.2	869.9	1,661.1	0.1	0.0	0.0	205.6	4,145.2	495.3	4,640.5
1977	55.7	2,218.5	36.1	157.7	17.0	530.5	20.8	5.0	98.7	1,008.2	1,874.0	0.1	0.0	0.0	233.0	4,381.3	562.5	4,943.9
1978	61.2	2,257.7	47.4	172.7	22.0	535.5	22.3	3.8	105.8	1,073.9	1,983.4	0.0	0.0	0.0	246.5	4,548.8	603.0	5,151.8
1979	83.6	2,031.8	62.2	198.9	42.0	641.2	23.4	4.6	110.4	1,188.3	2,270.9	0.0	0.0	0.0	260.7	4,647.0	629.3	5,276.3
1980	63.3	2,229.7	72.4	118.0	67.5	668.4	20.8	2.5	100.8	1,240.4	2,290.7	0.0	0.0	0.0	266.8	4,850.5	648.7	5,499.3
1981	91.4	2,149.3	52.6	166.2	21.7	712.6	20.0	3.9	178.4	970.6	2,125.9	0.0	0.0	0.0	272.6	4,639.2	649.8	5,289.0
1982	83.8	1,644.6	52.1	158.9	48.0	681.6	18.2	3.3	168.8	812.4	1,943.4	0.0	0.0	0.0	259.5	3,931.3	623.3	4,554.6
1983	65.9	1,623.3	77.8	187.4	13.5	680.9	19.1	2.8	90.5	801.7	1,873.7	0.0	0.0	0.0	271.7	3,834.6	650.9	4,485.5
1984	93.1	1,729.0	71.2	184.0	18.3	923.7	20.3	11.8	60.5	842.8	2,132.6	0.0	0.0	0.0	282.3	4,237.0	657.1	4,894.1
1985	85.4	1,799.3	78.4	159.2	2.3	892.7	18.9	24.7	37.5	816.4	2,030.2	0.0	0.0	0.0	277.2	4,192.1	651.2	4,843.3
1986	72.2	1,726.0	90.5	160.1	2.6	879.5	18.5	23.9	10.6	R 835.8	R 2,021.5	0.0	0.0	0.0	271.3	R 4,091.1	624.2	R 4,715.3
1987	61.9	1,881.7	83.6	153.0	2.5	964.3	20.9	22.1	8.4	R 866.3	R 2,121.3	0.0	0.0	0.0	270.4	R 4,335.3	617.7	R 4,953.0
1988	52.2	2,074.2	95.8	160.9	0.8	1,041.5	20.2	21.7	6.5	R 945.8	R 2,293.2	0.0	0.0	0.0	278.3	R 4,697.9	629.3	R 5,327.2
1989	62.3	2,162.2	64.2	146.6	1.4	1,097.7	20.7	23.7	3.2	R 937.7	R 2,295.1	0.0	0.0	0.0	281.9	R 4,801.5	632.2	R 5,433.6
1990	61.5	2,193.7	93.0	150.8	0.8	1,034.4	21.3	22.6	8.1	R 1,018.1	R 2,349.2	[f] 0.0	[f] 32.9	[f] 0.0	286.9	R [f] 4,924.2	R 626.9	R [f] 5,551.1
1991	63.2	2,152.2	62.2	134.8	0.3	1,141.4	19.1	24.3	6.9	R 1,019.2	R 2,408.1	0.0	32.8	0.0	287.0	R 4,943.3	R 624.1	R 5,567.4
1992	60.5	2,128.3	78.3	134.3	0.5	1,191.8	19.4	22.8	5.2	R 1,091.4	R 2,543.7	0.0	34.5	0.0	291.5	R 5,058.4	R 622.2	R 5,680.6
1993	70.9	R 2,241.5	84.5	130.1	0.6	R 1,145.4	19.8	18.1	15.4	R 1,061.3	R 2,475.0	0.0	34.9	0.0	296.6	R 5,118.9	R 626.4	R 5,745.3
1994	82.8	2,218.4	72.6	110.2	0.6	1,285.8	20.7	19.7	15.2	1,116.3	2,641.1	0.0	35.9	0.0	308.2	5,286.4	642.7	5,929.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
–=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Texas

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	18	52	3,261	13,571	10,842	2,024	1,780	87,381	17,736	136,595	0	8	–	21	–
1965	4	68	3,457	15,810	15,365	4,588	1,814	104,577	12,346	157,957	0	4	–	9	–
1970	2	96	2,007	22,454	24,430	5,587	1,623	139,292	11,667	207,059	0	0	–	0	–
1971	1	99	1,998	24,245	25,067	6,366	1,627	146,499	9,832	215,634	0	0	–	0	–
1972	1	104	1,565	30,563	25,910	6,535	1,742	157,410	9,629	233,354	0	0	–	0	–
1973	2	105	1,554	36,010	26,533	6,007	1,817	167,639	15,604	255,165	0	0	–	0	–
1974	2	94	1,603	38,271	25,955	5,299	1,740	166,032	21,280	260,181	0	0	–	0	–
1975	1	82	1,312	37,391	27,308	4,969	1,738	173,854	25,049	271,622	0	0	–	0	–
1976	(s)	72	1,270	38,487	25,641	5,124	1,931	183,900	26,877	283,230	0	0	–	0	–
1977	(s)	67	1,361	43,360	26,704	5,416	1,908	193,072	32,529	304,351	0	0	–	0	–
1978	0	75	1,279	46,671	27,954	5,007	2,049	200,468	36,548	319,977	0	0	–	0	–
1979	0	78	1,176	49,369	29,263	782	2,144	193,944	49,031	325,708	0	0	–	0	–
1980	0	105	1,264	48,286	30,934	649	1,909	177,228	45,812	306,082	0	0	–	0	–
1981	0	102	1,301	57,479	30,922	1,373	1,831	183,644	35,827	312,378	0	0	–	0	–
1982	0	103	903	57,045	42,809	1,197	1,670	189,156	30,391	323,171	0	0	–	0	–
1983	0	106	762	53,712	47,270	1,421	1,748	192,055	25,716	322,685	0	0	–	0	–
1984	0	108	963	55,883	64,626	832	1,864	192,758	24,764	341,689	0	0	–	0	–
1985	0	92	1,317	56,398	74,500	609	1,738	198,713	21,610	354,885	0	0	–	0	–
1986	0	82	1,539	52,964	80,214	764	1,699	202,888	25,541	365,609	0	0	–	0	–
1987	0	81	1,150	53,300	84,562	451	1,921	198,359	19,522	359,264	0	0	–	0	–
1988	0	108	1,013	52,508	94,793	464	1,852	202,382	22,015	375,026	0	0	–	0	–
1989	0	107	820	56,560	93,265	451	1,900	196,575	26,059	375,630	0	0	–	0	–
1990	0	106	838	52,471	95,903	483	1,955	197,630	26,227	375,506	[e]10,569	0	–	0	–
1991	0	82	655	58,273	90,674	345	1,749	192,479	27,179	371,354	8,378	0	–	0	–
1992	0	81	783	63,829	90,029	310	1,783	194,944	29,922	381,601	10,183	0	–	0	–
1993	0	82	693	66,848	86,961	346	1,816	203,781	20,088	380,533	11,364	R(s)	–	R(s)	–
1994	0	96	773	67,876	83,397	613	1,898	214,938	19,178	388,673	12,605	0	–	0	–
			Trillion Btu												
1960	0.3	54.1	16.5	79.1	58.6	8.1	10.8	459.0	111.5	743.5	0.0	(s)	798.0	0.1	798.0
1965	0.1	70.0	17.5	92.1	84.3	18.4	11.0	549.3	77.6	850.3	0.0	(s)	920.4	(s)	920.4
1970	(s)	98.8	10.1	130.8	135.9	21.1	9.8	731.7	73.3	1,112.9	0.0	0.0	1,211.7	0.0	1,211.7
1971	(s)	101.8	10.1	141.2	139.4	24.0	9.9	769.6	61.8	1,156.0	0.0	0.0	1,257.8	0.0	1,257.8
1972	(s)	107.4	7.9	178.0	144.4	24.6	10.6	826.9	60.5	1,252.9	0.0	0.0	1,360.3	0.0	1,360.3
1973	(s)	107.7	7.8	209.8	148.2	22.5	11.0	880.6	98.1	1,378.0	0.0	0.0	1,485.8	0.0	1,485.8
1974	(s)	96.8	8.1	222.9	144.9	19.8	10.6	872.2	133.8	1,412.2	0.0	0.0	1,509.0	0.0	1,509.0
1975	(s)	84.6	6.6	217.8	152.7	18.5	10.5	913.3	157.5	1,476.8	0.0	0.0	1,561.4	0.0	1,561.4
1976	(s)	74.0	6.4	224.2	143.3	19.0	11.7	966.0	169.0	1,539.6	0.0	0.0	1,613.7	0.0	1,613.7
1977	(s)	68.4	6.9	252.6	149.3	19.9	11.6	1,014.2	204.5	1,658.9	0.0	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	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	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	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	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	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	0.0	1,878.2	0.0	1,878.2
1984	0.0	112.2	4.9	325.5	364.3	3.0	11.3	1,012.6	155.7	1,877.3	0.0	0.0	1,989.4	0.0	1,989.4
1985	0.0	95.6	6.6	328.5	420.5	2.2	10.5	1,043.8	135.9	1,948.1	0.0	0.0	2,043.8	0.0	2,043.8
1986	0.0	85.2	7.8	308.5	453.0	2.8	10.3	1,065.8	160.6	2,008.7	0.0	0.0	2,094.0	0.0	2,094.0
1987	0.0	84.4	5.8	310.5	477.6	1.6	11.6	1,042.0	122.7	1,971.8	0.0	0.0	2,056.3	0.0	2,056.3
1988	0.0	111.8	5.1	305.9	535.5	1.7	11.2	1,063.1	138.4	2,060.9	0.0	0.0	2,172.8	0.0	2,172.8
1989	0.0	111.4	4.1	329.5	526.9	1.7	11.5	1,032.6	163.8	2,070.2	0.0	0.0	2,181.6	0.0	2,181.6
1990	0.0	110.5	4.2	305.6	542.1	1.8	11.9	1,038.2	164.9	2,068.7	[e]0.8	0.0	[e]2,179.2	0.0	[e]2,179.2
1991	0.0	85.2	3.3	339.4	512.8	1.2	10.6	1,011.1	170.9	2,049.4	0.6	0.0	2,134.6	0.0	2,134.6
1992	0.0	84.9	4.0	371.8	509.1	1.1	10.8	1,024.0	188.1	2,109.0	0.8	0.0	2,193.9	0.0	2,193.9
1993	0.0	R84.6	3.5	389.4	492.0	1.2	11.0	1,070.5	126.3	2,093.9	0.9	R(s)	2,178.5	R(s)	2,178.5
1994	0.0	99.8	3.9	395.4	472.5	2.2	11.5	1,129.1	120.6	2,135.1	1.0	0.0	2,234.9	0.0	2,234.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Texas

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	0	0	0	407	43	18	0	61	0	927	0	0	0	–
1965	0	0	0	640	33	14	0	47	0	661	87	0	0	–
1970	0	0	0	1,062	104	45	0	149	0	883	97	0	0	–
1971	9	0	9	1,168	292	50	0	343	0	718	95	0	0	–
1972	1,851	0	1,851	1,285	1,749	81	0	1,830	0	615	101	0	0	–
1973	4,731	0	4,731	1,266	6,224	77	0	6,301	0	1,381	101	0	0	–
1974	5,196	0	5,196	1,335	5,114	397	0	5,512	0	1,281	95	0	0	–
1975	9,044	0	9,044	1,353	1,740	75	0	1,815	0	1,579	89	0	0	–
1976	12,351	0	12,351	1,379	3,732	133	0	3,864	0	821	98	0	0	–
1977	16,510	0	16,510	1,489	4,823	261	0	5,084	0	1,112	96	0	0	–
1978	25,110	0	25,110	1,491	6,753	159	0	6,913	0	748	96	0	0	–
1979	34,936	0	34,936	1,400	4,431	311	0	4,742	0	1,174	85	0	0	–
1980	45,351	0	45,351	1,430	660	1,126	0	1,786	0	398	79	0	0	–
1981	51,142	0	51,142	1,378	587	914	0	1,500	0	856	75	0	0	–
1982	56,540	0	56,540	1,286	914	1,290	0	2,204	0	1,022	61	0	0	–
1983	64,007	0	64,007	1,191	2,069	1,781	0	3,850	0	1,153	75	0	0	–
1984	66,957	0	66,957	1,265	324	631	0	955	0	1,075	110	0	0	–
1985	71,818	0	71,818	1,198	881	775	0	1,657	0	1,397	300	0	0	–
1986	74,757	0	74,757	1,107	373	473	0	847	0	1,962	308	0	0	–
1987	78,802	0	78,802	1,050	570	503	0	1,073	0	2,118	233	0	0	–
1988	82,889	0	82,889	1,044	730	654	0	1,384	3,792	1,203	0	0	0	–
1989	86,701	0	86,701	1,024	1,937	2,318	0	4,255	9,990	1,383	189	0	(s)	–
1990	87,248	0	87,248	1,007	254	701	0	954	15,859	R 1,784	279	0	(s)	–
1991	87,856	0	87,856	1,005	104	348	0	452	19,800	R 2,225	276	0	(s)	–
1992	87,333	0	87,333	968	177	296	0	473	24,496	R 2,638	281	0	(s)	–
1993	92,135	0	92,135	1,073	328	239	319	885	12,407	R 1,786	295	0	(s)	–
1994	88,479	0	88,479	1,049	343	220	2	565	28,745	1,530	303	0	(s)	–
	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	0.0	431.9
1965	0.0	0.0	0.0	663.2	0.2	0.1	0.0	0.3	0.0	6.9	0.9	0.0	0.0	671.3
1970	0.0	0.0	0.0	1,090.3	0.7	0.3	0.0	0.9	0.0	9.3	1.0	0.0	0.0	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	1.0	0.0	0.0	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	1.1	0.0	0.0	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	1.0	0.0	0.0	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	1.0	0.0	0.0	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	0.9	0.0	0.0	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	1.0	0.0	0.0	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	1.0	0.0	0.0	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	1.0	0.0	0.0	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	0.9	0.0	0.0	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	0.8	0.0	0.0	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	0.8	0.0	0.0	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	0.6	0.0	0.0	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	0.8	0.0	0.0	2,206.4
1984	981.8	0.0	981.8	1,303.3	2.0	3.7	0.0	5.7	0.0	11.2	1.2	0.0	0.0	2,303.2
1985	1,063.4	0.0	1,063.4	1,240.7	5.5	4.5	0.0	10.1	0.0	14.6	3.1	0.0	0.0	2,331.9
1986	1,090.2	0.0	1,090.2	1,145.6	2.3	2.8	0.0	5.1	0.0	20.5	3.2	0.0	0.0	2,264.5
1987	1,141.4	0.0	1,141.4	1,086.5	3.6	2.9	0.0	6.5	0.0	22.1	2.4	0.0	0.0	2,258.9
1988	1,210.8	0.0	1,210.8	1,078.4	4.6	3.8	0.0	8.4	40.7	12.4	0.0	0.0	0.0	2,350.8
1989	1,263.5	0.0	1,263.5	1,058.6	12.2	13.5	0.0	25.7	107.1	14.3	2.0	0.0	(s)	2,471.2
1990	1,272.2	0.0	1,272.2	1,042.6	1.6	4.1	0.0	5.7	169.4	R 18.5	2.9	0.0	(s)	2,510.7
1991	1,269.6	0.0	1,269.6	1,035.2	0.7	2.0	0.0	2.7	212.7	R 23.0	2.9	0.0	(s)	2,541.4
1992	1,263.5	0.0	1,263.5	993.3	1.1	1.7	0.0	2.8	261.6	R 27.2	2.9	0.0	(s)	2,541.5
1993	1,342.2	0.0	1,342.2	1,100.4	2.1	1.4	1.9	5.4	132.5	R 18.4	3.0	0.0	(s)	2,593.7
1994	1,299.9	0.0	1,299.9	1,073.3	2.2	1.3	(s)	3.5	306.9	15.7	3.1	0.0	(s)	2,692.5

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Utah

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
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	–
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	1,387	292	16,151	953	2,417	32,974	0	1,391	0	38	-617	–
1985	8,303	115	1,576	94	5,941	3,808	31	1,486	272	16,236	431	2,231	32,107	0	1,019	0	110	-4,107	–
1986	8,112	105	1,295	110	7,312	4,335	24	1,542	266	17,541	360	2,123	34,907	0	1,413	0	172	-8,321	–
1987	11,807	99	1,429	99	6,768	4,969	30	1,652	301	17,582	357	2,379	35,566	0	893	0	164	-36,251	–
1988	14,513	109	1,069	112	7,328	4,977	25	1,432	290	18,172	288	2,747	36,442	0	593	0	174	-40,295	–
1989	15,044	114	1,671	106	6,179	5,095	11	1,386	298	17,303	252	2,879	35,180	0	562	0	173	-40,529	–
1990	15,738	117	1,378	106	7,339	5,281	13	1,074	307	16,628	372	2,883	35,380	0	R INA	I NA	I NA	R -45,053	–
1991	14,834	133	2,870	118	7,789	5,917	17	747	274	17,186	201	R 2,508	R 37,627	0	R NA	NA	NA	R -40,497	–
1992	15,719	123	1,633	133	8,062	5,607	4	696	280	17,909	248	R 2,999	R 37,570	0	R NA	NA	NA	R -45,607	–
1993	15,848	138	1,730	114	8,000	5,518	9	779	285	18,831	288	R 2,691	R 38,244	0	R NA	NA	NA	R -47,189	–
1994	16,216	137	1,819	88	8,401	5,270	9	784	298	19,440	349	2,724	39,180	0	NA	NA	NA	-47,213	–
			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
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
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	5.0	1.8	84.8	6.0	14.6	181.0	0.0	14.5	0.0	0.8	-2.1	504.1
1985	199.4	123.8	10.5	0.5	34.6	21.3	0.2	5.4	1.7	85.3	2.7	13.7	175.7	0.0	10.6	0.0	2.3	-14.0	497.8
1986	189.0	99.7	8.6	0.6	42.6	24.3	0.1	5.6	1.6	92.1	2.3	13.3	191.1	0.0	14.8	0.0	3.6	-28.4	469.7
1987	273.8	106.9	9.5	0.5	39.4	27.9	0.2	6.0	1.8	92.4	2.2	14.6	194.6	0.0	9.3	0.0	3.5	-123.7	464.4
1988	338.0	117.8	7.1	0.6	42.7	28.0	0.1	5.2	1.8	95.5	1.8	16.7	199.4	0.0	6.1	0.0	3.7	-137.5	527.5
1989	345.5	123.4	11.1	0.5	36.0	28.6	0.1	5.1	1.8	90.9	1.6	17.3	193.0	0.0	5.8	0.0	3.7	-138.3	533.1
1991	345.0	142.5	19.0	0.6	45.4	33.2	0.1	2.7	1.7	90.3	1.3	R 15.2	R 209.5	0.0	R 6.5	4.6	3.9	-138.2	R 573.8
1992	362.6	132.2	10.8	0.7	47.0	31.5	(s)	2.5	1.7	94.1	1.6	R 18.0	R 207.8	0.0	R 6.2	4.9	3.9	R -155.6	R 562.1
1993	368.4	149.1	11.5	0.6	46.6	31.1	0.1	2.8	1.7	98.9	1.8	R 16.3	R 211.3	0.0	R 8.8	4.7	3.1	R -161.0	R 584.5
1994	376.5	146.3	12.1	0.4	48.9	29.7	(s)	2.8	1.8	102.1	2.2	16.4	216.6	0.0	7.7	4.7	4.1	-161.1	594.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– –=Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Utah

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	87	0	87	23	100	1	249	349	0	0	1,012	–	2,518	–
1965	63	0	63	31	98	20	505	624	0	0	1,243	–	2,969	–
1970	38	0	38	45	143	6	694	844	0	0	1,688	–	4,091	–
1971	84	0	84	50	223	9	743	974	0	0	1,879	–	4,544	–
1972	56	0	56	49	233	10	839	1,082	0	0	2,023	–	4,870	–
1973	70	0	70	49	303	9	705	1,017	0	0	2,271	–	5,437	–
1974	124	0	124	50	323	5	657	985	0	0	2,525	–	6,158	–
1975	46	0	46	60	357	4	564	925	0	0	2,493	–	6,013	–
1976	73	0	73	66	337	3	593	933	0	0	2,672	–	6,437	–
1977	99	0	99	36	337	3	462	803	0	0	2,761	–	6,667	–
1978	98	0	98	48	339	3	475	817	0	0	2,900	–	7,095	–
1979	190	0	190	60	234	8	319	561	0	0	3,209	–	7,744	–
1980	83	0	83	58	112	0	349	460	0	0	3,116	–	7,577	–
1981	69	0	69	55	73	26	384	483	0	0	3,436	–	8,190	–
1982	62	0	62	46	125	46	430	600	0	0	3,785	–	9,091	–
1983	67	0	67	55	164	40	526	730	0	0	3,804	–	9,115	–
1984	91	0	91	55	167	34	641	842	0	0	3,856	–	8,976	–
1985	88	0	88	59	74	10	631	715	0	0	3,985	–	9,362	–
1986	67	0	67	58	75	4	624	703	0	0	3,989	–	9,175	–
1987	43	0	43	42	101	9	648	758	0	0	3,980	–	9,094	–
1988	68	(s)	69	42	131	6	634	772	0	0	4,151	–	9,385	–
1989	81	0	81	45	183	5	467	655	0	0	4,163	–	9,335	–
1990	93	0	93	43	137	5	424	566	[o]148	[o]10	4,246	–	R9,279	–
1991	107	(s)	107	51	161	5	415	581	156	10	4,460	–	R9,697	–
1992	78	0	78	45	115	2	334	452	164	10	4,505	–	R9,618	–
1993	42	0	42	52	148	3	202	354	156	10	4,726	–	R9,881	–
1994	37	(s)	37	49	113	5	162	280	153	13	5,009	–	10,446	–
	Trillion Btu													
1960	2.3	0.0	2.3	23.4	0.6	(s)	1.0	1.6	0.0	0.0	3.5	30.7	8.6	39.3
1965	1.6	0.0	1.6	28.4	0.6	0.1	2.0	2.7	0.0	0.0	4.2	37.0	10.1	47.1
1970	1.0	0.0	1.0	41.9	0.8	(s)	2.6	3.5	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	7.7	59.9	18.6	78.5
1974	3.0	0.0	3.0	47.9	1.9	(s)	2.4	4.4	0.0	0.0	8.6	63.9	21.0	84.9
1975	1.1	0.0	1.1	56.8	2.1	(s)	2.1	4.2	0.0	0.0	8.5	70.6	20.5	91.1
1976	1.6	0.0	1.6	63.0	2.0	(s)	2.2	4.2	0.0	0.0	9.1	77.9	22.0	99.8
1977	2.3	0.0	2.3	33.8	2.0	(s)	1.7	3.7	0.0	0.0	9.4	49.2	22.7	71.9
1978	2.3	0.0	2.3	45.7	2.0	(s)	1.7	3.7	0.0	0.0	9.9	61.6	24.2	85.8
1979	4.4	0.0	4.4	58.0	1.4	(s)	1.2	2.6	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	13.0	76.7	31.1	107.8
1984	2.1	0.0	2.1	58.7	1.0	0.2	2.3	3.5	0.0	0.0	13.2	77.5	30.6	108.1
1985	2.1	0.0	2.1	63.1	0.4	0.1	2.3	2.8	0.0	0.0	13.6	81.6	31.9	113.5
1986	1.6	0.0	1.6	54.6	0.4	(s)	2.3	2.7	0.0	0.0	13.6	72.5	31.3	103.8
1987	1.0	0.0	1.0	44.9	0.6	0.1	2.4	3.0	0.0	0.0	13.6	62.5	31.0	93.5
1988	1.6	(s)	1.6	45.7	0.8	(s)	2.3	3.1	0.0	0.0	14.2	64.5	32.0	96.5
1989	1.8	0.0	1.8	49.1	1.1	(s)	1.7	2.8	0.0	0.0	14.2	68.0	31.9	99.8
1990	2.2	0.0	2.2	47.3	0.8	(s)	1.5	2.4	[o]3.0	[o](s)	14.5	R[o]69.3	R31.7	R[o]100.9
1991	2.5	(s)	2.5	54.3	0.9	(s)	1.5	2.5	3.1	(s)	15.2	R77.6	33.1	R110.7
1992	1.8	0.0	1.8	48.2	0.7	(s)	1.2	1.9	3.3	(s)	15.4	R70.6	32.8	R103.4
1993	1.0	0.0	1.0	56.0	0.9	(s)	0.7	1.6	3.1	(s)	16.1	R77.8	R34.1	R111.9
1994	0.9	(s)	0.9	52.3	0.7	(s)	0.6	1.3	3.1	(s)	17.1	74.6	35.6	110.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

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

[o] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

–=Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Utah

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	118	0	118	16	356	148	89	234	1,072	1,899	1,128	–	2,693	–
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	(s)	851	58	56	159	637	1,761	3,106	–	7,496	–
1980	154	0	154	(s)	1,028	34	62	81	1,051	2,255	3,141	–	7,638	–
1981	127	0	127	(s)	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	113	77	135	1,136	4,269	–	9,937	–
1985	164	0	164	9	541	19	111	88	45	804	4,596	–	10,797	–
1986	124	0	124	5	910	6	110	90	42	1,158	4,682	–	10,770	–
1987	81	0	81	15	736	18	114	93	113	1,075	4,863	–	11,111	–
1988	127	(s)	127	18	697	5	112	89	47	951	5,035	–	11,382	–
1989	150	0	150	17	459	4	82	89	14	648	5,173	–	11,602	–
1990	174	0	174	16	360	5	75	95	74	610	5,389	–	R 11,777	–
1991	198	(s)	198	19	469	8	73	82	23	656	5,571	–	R 12,113	–
1992	145	0	145	17	470	1	59	73	21	623	5,850	–	R 12,488	–
1993	79	0	79	23	366	3	36	20	55	480	5,920	–	R 12,503	–
1994	68	(s)	68	27	484	2	29	20	20	554	6,340	–	13,222	–
	Trillion Btu													
1960	4.2	0.0	4.2	10.5	2.1	(s)	0.2	1.5	4.1	7.9	2.2	24.6	5.4	30.2
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
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	(s)	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	(s)	0.3	0.7	1.4	7.0	11.4	29.9	27.4	57.3
1984	3.9	0.0	3.9	9.2	4.7	(s)	0.4	0.4	0.9	6.4	14.6	34.1	33.9	68.0
1985	3.9	0.0	3.9	9.1	3.1	0.1	0.4	0.5	0.3	4.4	15.7	33.1	36.8	69.9
1986	2.9	0.0	2.9	4.4	5.3	(s)	0.4	0.5	0.3	6.5	16.0	29.7	36.7	66.5
1987	1.9	0.0	1.9	16.0	4.3	0.1	0.4	0.5	0.7	6.0	16.6	40.5	37.9	78.4
1988	2.9	(s)	2.9	19.4	4.1	(s)	0.4	0.5	0.3	5.3	17.2	44.7	38.8	83.6
1989	3.4	0.0	3.4	18.0	2.7	(s)	0.3	0.5	0.1	3.6	17.7	42.6	39.6	82.2
1990	4.0	0.0	4.0	17.7	2.1	(s)	0.3	0.5	0.5	3.4	18.4	43.4	40.2	83.6
1991	4.6	(s)	4.6	20.7	2.7	(s)	0.3	0.4	0.1	3.6	19.0	47.9	41.3	89.2
1992	3.3	0.0	3.3	17.9	2.7	(s)	0.2	0.4	0.1	3.5	20.0	44.7	42.6	87.3
1993	1.8	0.0	1.8	24.4	2.1	(s)	0.1	0.1	0.3	2.7	20.2	49.2	R 42.7	91.8
1994	1.6	(s)	1.6	28.3	2.8	(s)	0.1	0.1	0.1	3.2	21.6	54.7	45.1	99.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Utah

Year	Coal	Natural Gas [a]	Petroleum: Asphalt and Road Oil [b]	Petroleum: Distillate Fuel [b]	Petroleum: Kerosene [b]	Petroleum: LPG [b]	Petroleum: Lubricants [b]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [b]	Petroleum: Other [b,c]	Petroleum: Total	Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	2,640	33	813	990	29	124	62	299	2,399	1,820	6,536	(s)	0	0	1,822	–	4,531	–
1965	2,306	57	838	1,163	305	70	101	233	2,895	2,046	7,651	3	0	0	1,404	–	3,353	–
1970	2,477	63	1,576	1,564	197	116	95	261	2,068	2,163	8,040	3	0	0	1,648	–	3,993	–
1971	2,386	60	1,399	2,186	227	131	85	252	2,281	2,078	8,639	3	0	0	1,643	–	3,971	–
1972	2,290	63	1,804	2,251	296	227	91	258	2,436	2,209	9,572	3	0	0	1,843	–	4,435	–
1973	2,701	60	1,419	2,859	285	242	107	247	2,484	2,416	10,058	0	0	0	2,219	–	5,313	–
1974	2,611	60	1,571	3,141	160	313	102	168	3,061	2,626	11,142	0	0	0	2,159	–	5,263	–
1975	2,478	55	1,219	3,356	114	495	73	266	3,285	2,702	11,511	0	0	0	2,968	–	7,159	–
1976	2,642	62	1,661	2,979	83	505	82	255	3,416	2,703	11,684	0	0	0	2,578	–	6,209	–
1977	2,635	55	1,823	3,297	88	371	106	259	3,090	2,727	11,761	0	0	0	3,299	–	7,965	–
1978	2,525	54	1,699	3,333	89	266	114	222	2,954	2,822	11,498	0	0	0	3,858	–	9,439	–
1979	2,410	59	1,903	3,086	92	1,273	119	209	2,302	2,838	11,820	0	0	0	4,100	–	9,895	–
1980	1,974	51	1,477	2,220	68	876	106	165	2,386	2,729	10,027	0	0	0	4,448	–	10,816	–
1981	2,281	43	927	2,269	69	1,038	101	167	1,002	1,762	7,335	0	0	0	5,451	–	12,990	–
1982	1,663	46	933	2,093	100	932	93	181	816	1,844	6,991	0	0	0	5,399	–	12,969	–
1983	1,458	45	820	1,825	10	853	97	199	1,088	2,364	7,257	0	0	0	6,040	–	14,470	–
1984	1,934	51	1,340	1,864	8	518	103	151	665	2,417	7,067	0	0	0	4,592	–	10,689	–
1985	1,726	46	1,576	1,104	3	668	96	220	360	2,231	6,259	0	0	0	4,458	–	10,473	–
1986	1,165	42	1,295	1,942	14	730	94	211	311	2,123	6,720	0	0	0	4,318	–	9,934	–
1987	507	42	1,429	1,535	3	832	106	203	244	2,379	6,731	0	0	0	4,555	–	10,407	–
1988	1,773	47	1,069	1,917	14	621	103	209	241	2,747	6,922	0	0	0	5,321	–	12,029	–
1989	1,865	50	1,671	1,543	2	780	105	195	239	2,879	7,414	0	0	0	5,629	–	12,624	–
1990	1,907	55	1,378	1,504	4	523	108	197	249	2,883	6,847	Rf NA	f NA	f NA	5,766	–	R 12,600	–
1991	1,700	57	2,870	1,892	3	215	97	211	179	R 2,508	R 7,974	R NA	NA	NA	5,876	–	R 12,775	–
1992	1,639	53	1,633	1,947	1	263	99	206	227	R 2,999	R 7,375	R NA	NA	NA	6,212	–	R 13,261	–
1993	1,732	55	1,730	1,828	2	498	101	247	233	R 2,691	R 7,331	R NA	NA	NA	6,221	–	R 13,138	–
1994	1,842	50	1,819	1,787	2	536	105	316	329	2,724	7,618	NA	NA	NA	6,498	–	13,551	–
			Trillion Btu															
1960	70.5	34.7	5.4	5.8	0.2	0.5	0.4	1.6	15.1	10.9	39.8	(s)	0.0	0.0	6.2	151.2	15.5	166.6
1965	61.5	52.3	5.6	6.8	1.7	0.3	0.6	1.2	18.2	12.3	46.7	(s)	0.0	0.0	4.8	165.3	11.4	176.7
1970	65.2	59.2	10.5	9.1	1.1	0.4	0.6	1.4	13.0	13.0	49.1	(s)	0.0	0.0	5.6	179.1	13.6	192.7
1971	62.5	56.4	9.3	12.7	1.3	0.5	0.5	1.3	14.3	12.5	52.5	(s)	0.0	0.0	5.6	177.0	13.6	190.5
1972	59.7	58.8	12.0	13.1	1.7	0.9	0.6	1.4	15.3	13.3	58.1	(s)	0.0	0.0	6.3	182.9	15.1	198.1
1973	70.1	56.8	9.4	16.7	1.6	0.9	0.6	1.3	15.6	14.5	60.7	0.0	0.0	0.0	7.6	195.2	18.1	213.3
1974	68.1	57.4	10.4	18.3	0.9	1.2	0.6	0.9	19.2	15.8	67.3	0.0	0.0	0.0	7.4	200.2	18.0	218.2
1975	64.7	52.3	8.1	19.6	0.6	1.8	0.4	1.4	20.7	16.2	68.8	0.0	0.0	0.0	10.1	196.0	24.4	220.4
1976	67.7	58.7	11.0	17.4	0.5	1.9	0.5	1.3	21.5	16.2	70.2	0.0	0.0	0.0	8.8	205.4	21.2	226.6
1977	67.9	52.6	12.1	19.2	0.5	1.4	0.6	1.4	19.4	16.4	71.0	0.0	0.0	0.0	11.3	202.6	27.2	229.8
1978	64.2	51.4	11.3	19.4	0.5	1.0	0.7	1.2	18.6	16.9	69.5	0.0	0.0	0.0	13.2	198.3	32.2	230.5
1979	61.3	56.4	12.6	18.0	0.5	4.7	0.7	1.1	14.5	17.0	69.1	0.0	0.0	0.0	14.0	200.8	33.8	234.6
1980	50.7	55.8	9.8	12.9	0.4	3.2	0.6	0.9	15.0	16.4	59.2	0.0	0.0	0.0	15.2	180.9	36.9	217.8
1981	57.6	46.6	6.2	13.2	0.4	3.8	0.6	0.9	6.3	11.0	42.3	0.0	0.0	0.0	18.6	165.1	44.3	209.4
1982	41.2	43.0	6.2	12.2	0.6	3.4	0.6	1.0	5.1	11.4	40.4	0.0	0.0	0.0	18.4	143.0	44.2	187.3
1983	36.4	48.2	5.4	10.6	0.1	3.1	0.6	1.0	6.8	14.4	42.1	0.0	0.0	0.0	20.6	147.3	49.4	196.7
1984	49.1	54.9	8.9	10.9	(s)	1.9	0.6	0.8	4.2	14.6	41.9	0.0	0.0	0.0	15.7	161.6	36.5	198.1
1985	44.1	49.9	10.5	6.4	(s)	2.4	0.6	1.2	2.3	13.7	37.1	0.0	0.0	0.0	15.2	146.3	35.7	182.1
1986	29.3	39.4	8.6	11.3	0.1	2.7	0.6	1.1	2.0	13.3	39.6	0.0	0.0	0.0	14.7	123.0	33.9	156.9
1987	11.2	44.9	9.5	8.9	(s)	3.0	0.6	1.1	1.5	14.6	39.3	0.0	0.0	0.0	15.5	111.0	35.5	146.5
1988	45.2	51.1	7.1	11.2	0.1	2.3	0.6	1.1	1.5	16.7	40.5	0.0	0.0	0.0	18.2	154.9	41.0	196.0
1989	47.0	54.5	11.1	9.0	(s)	2.9	0.6	1.0	1.5	17.3	43.5	0.0	0.0	0.0	19.2	164.2	43.1	207.3
1990	48.7	60.1	9.1	8.8	(s)	1.9	0.7	1.0	1.6	17.4	40.4	Rf 0.2	f 1.5	f 0.0	19.7	Rf 170.6	43.0	Rf 213.6
1991	43.7	61.0	19.0	11.0	(s)	0.8	0.6	1.1	1.1	R 15.2	R 48.9	R 0.2	1.5	0.0	20.0	R 175.4	43.6	R 219.0
1992	42.0	57.7	10.8	11.3	(s)	1.0	0.6	1.1	1.4	R 18.0	R 44.3	R 0.2	1.6	0.0	21.2	R 166.9	45.2	R 212.2
1993	44.0	59.3	11.5	10.6	(s)	1.8	0.6	1.3	1.5	R 16.3	R 43.6	R 0.4	1.6	0.0	21.2	R 170.1	44.8	R 215.0
1994	46.1	53.3	12.1	10.4	(s)	1.9	0.6	1.7	2.1	16.4	45.2	0.4	1.7	0.0	22.2	168.9	46.2	215.1

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Utah

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	46	(s)	595	2,312	1,003	35	152	7,232	370	11,698	0	0	–	0	–
1965	8	(s)	383	2,569	1,244	12	151	8,534	98	12,991	0	0	–	0	–
1970	4	(s)	178	2,870	1,808	6	161	11,845	25	16,893	0	0	–	0	–
1971	3	1	168	3,295	1,947	6	163	12,514	35	18,127	0	0	–	0	–
1972	2	1	179	3,064	1,963	9	174	13,599	30	19,018	0	0	–	0	–
1973	2	1	172	3,739	1,889	9	198	14,180	29	20,217	0	0	–	0	–
1974	1	1	187	4,245	1,864	10	190	14,141	55	20,692	0	0	–	0	–
1975	(s)	(s)	161	4,141	1,903	11	158	14,586	68	21,028	0	0	–	0	–
1976	(s)	(s)	161	3,939	1,828	16	176	15,286	84	21,488	0	0	–	0	–
1977	(s)	(s)	174	3,930	2,034	12	194	16,052	54	22,451	0	0	–	0	–
1978	0	1	164	4,256	2,164	15	208	17,084	77	23,969	0	0	–	0	–
1979	0	1	147	5,426	2,302	10	217	16,112	0	24,214	0	0	–	0	–
1980	0	1	139	4,974	2,637	14	194	15,288	0	23,245	0	0	–	0	–
1981	0	1	140	4,492	2,424	56	186	15,294	0	22,592	0	0	–	0	–
1982	0	1	76	3,780	2,801	85	169	15,513	0	22,424	0	0	–	0	–
1983	0	1	103	3,533	3,284	104	177	15,624	290	23,115	0	0	–	0	–
1984	0	1	78	4,003	3,413	115	189	15,922	153	23,872	0	0	–	0	–
1985	0	1	94	4,168	3,808	76	176	15,929	0	24,250	0	0	–	0	–
1986	0	1	110	4,256	4,335	78	172	17,240	0	26,191	0	0	–	0	–
1987	0	1	99	4,208	4,969	58	195	17,286	0	26,815	0	0	–	0	–
1988	0	1	112	4,460	4,977	65	188	17,873	0	27,694	0	0	–	0	–
1989	0	1	106	3,909	5,095	56	193	17,019	(s)	26,377	0	0	–	0	–
1990	0	1	106	5,254	5,281	51	198	16,335	48	27,274	[e]0	0	–	0	–
1991	0	1	118	5,184	5,917	44	177	16,893	0	28,334	0	0	–	0	–
1992	0	1	133	5,468	5,607	39	181	17,630	0	29,058	0	0	–	0	–
1993	0	3	114	5,603	5,518	42	184	18,564	0	30,025	0	0	–	0	–
1994	0	3	88	5,964	5,270	57	192	19,103	0	30,674	0	0	–	0	–
			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	0.0	64.5	0.0	64.5
1965	0.2	0.4	1.9	15.0	6.8	(s)	0.9	44.8	0.6	70.1	0.0	0.0	70.6	0.0	70.6
1970	0.1	0.5	0.9	16.7	10.0	(s)	1.0	62.2	0.2	91.0	0.0	0.0	91.5	0.0	91.5
1971	0.1	0.5	0.8	19.2	10.8	(s)	1.0	65.7	0.2	97.8	0.0	0.0	98.4	0.0	98.4
1972	0.1	0.8	0.9	17.8	10.9	(s)	1.1	71.4	0.2	102.3	0.0	0.0	103.2	0.0	103.2
1973	(s)	0.6	0.9	21.8	10.5	(s)	1.2	74.5	0.2	109.0	0.0	0.0	109.7	0.0	109.7
1974	(s)	0.6	0.9	24.7	10.3	(s)	1.2	74.3	0.3	111.8	0.0	0.0	112.4	0.0	112.4
1975	(s)	0.3	0.8	24.1	10.6	(s)	1.0	76.6	0.4	113.6	0.0	0.0	113.8	0.0	113.8
1976	(s)	0.4	0.8	22.9	10.2	0.1	1.1	80.3	0.5	115.9	0.0	0.0	116.2	0.0	116.2
1977	(s)	0.4	0.9	22.9	11.3	(s)	1.2	84.3	0.3	121.0	0.0	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	0.0	130.2	0.0	130.2
1979	0.0	0.5	0.7	31.6	12.8	(s)	1.3	84.6	0.0	131.1	0.0	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	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	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	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	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	1.0	128.9	0.0	0.0	130.0	0.0	130.0
1985	0.0	1.3	0.5	24.3	21.3	0.3	1.1	83.7	0.0	131.0	0.0	0.0	132.3	0.0	132.3
1986	0.0	1.0	0.6	24.8	24.3	0.3	1.0	90.6	0.0	141.5	0.0	0.0	142.6	0.0	142.6
1987	0.0	0.9	0.5	24.5	27.9	0.2	1.2	90.8	0.0	145.1	0.0	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	149.9	0.0	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	(s)	142.7	0.0	0.0	143.8	0.0	143.8
1990	0.0	1.0	0.5	30.6	29.7	0.2	1.2	85.8	0.3	148.4	[e]0.0	0.0	[e]149.3	0.0	[e]149.3
1991	0.0	0.9	0.6	30.2	33.2	0.2	1.1	88.7	0.0	154.0	0.0	0.0	154.9	0.0	154.9
1992	0.0	1.4	0.7	31.8	31.5	0.1	1.1	92.6	0.0	157.9	0.0	0.0	R159.3	0.0	R159.3
1993	0.0	R2.8	0.6	32.6	31.1	0.2	1.1	97.5	0.0	163.1	0.0	0.0	165.8	0.0	165.8
1994	0.0	3.1	0.4	34.7	29.7	0.2	1.2	100.4	0.0	166.6	0.0	0.0	169.6	0.0	169.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

–=Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Utah

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	363	0	363	5	1,597	8	0	1,605	0	910	0	0	0	–
1970	435	0	435	4	1,768	9	0	1,777	0	738	0	0	0	–
1971	417	0	417	2	1,871	9	0	1,880	0	981	0	0	0	–
1972	571	0	571	4	1,260	9	0	1,269	0	1,220	0	0	0	–
1973	984	0	984	5	340	23	0	363	0	1,111	0	0	0	–
1974	1,296	0	1,296	4	121	20	0	141	0	941	0	0	0	–
1975	2,026	0	2,026	3	152	10	0	162	0	1,074	0	0	0	–
1976	1,267	0	1,267	3	76	5	0	80	0	1,130	0	0	0	–
1977	2,511	0	2,511	5	286	6	0	292	0	757	0	0	0	–
1978	3,148	0	3,148	8	177	5	0	182	0	734	0	0	0	–
1979	4,151	0	4,151	6	249	14	0	263	0	802	0	0	0	–
1980	4,895	0	4,895	5	58	67	0	126	0	821	0	0	0	–
1981	4,956	0	4,956	3	20	59	0	79	0	623	0	0	0	–
1982	4,947	0	4,947	3	1	59	0	59	0	1,024	0	0	0	–
1983	5,223	0	5,223	1	(s)	79	0	79	0	1,394	0	0	0	–
1984	5,712	0	5,712	(s)	0	58	0	58	0	1,391	0	38	0	–
1985	6,325	0	6,325	(s)	25	55	0	80	0	1,019	0	110	0	–
1986	6,756	0	6,756	(s)	6	129	0	135	0	1,413	0	172	0	–
1987	11,175	0	11,175	(s)	0	187	0	187	0	893	0	164	0	–
1988	12,544	0	12,544	(s)	0	103	0	103	0	593	0	174	0	–
1989	12,949	0	12,949	1	0	86	0	86	0	562	0	173	0	–
1990	13,563	0	13,563	1	0	84	0	84	0	486	0	152	0	–
1991	12,829	0	12,829	5	0	82	0	82	0	604	0	186	0	–
1992	13,857	0	13,857	7	0	62	0	62	0	580	0	186	0	–
1993	13,995	0	13,995	6	0	55	0	55	0	818	0	148	0	–
1994	14,269	0	14,269	9	0	53	0	53	0	716	0	195	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	0.0	34.4
1965	9.1	0.0	9.1	4.4	10.0	(s)	0.0	10.1	0.0	9.5	0.0	0.0	0.0	33.1
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	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	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	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	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	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	0.0	63.0
1976	29.4	0.0	29.4	2.7	0.5	(s)	0.0	0.5	0.0	11.7	0.0	0.0	0.0	44.3
1977	58.5	0.0	58.5	5.0	1.8	(s)	0.0	1.8	0.0	7.9	0.0	0.0	0.0	73.2
1978	73.3	0.0	73.3	7.2	1.1	(s)	0.0	1.1	0.0	7.6	0.0	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	0.0	112.9
1980	112.1	0.0	112.1	4.9	0.4	0.4	0.0	0.8	0.0	8.5	0.0	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	0.0	123.4
1982	114.2	0.0	114.2	2.8	(s)	0.3	0.0	0.3	0.0	10.7	0.0	0.0	0.0	128.1
1983	119.4	0.0	119.4	1.2	(s)	0.5	0.0	0.5	0.0	14.7	0.0	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	14.5	0.0	0.8	0.0	146.5
1985	149.3	0.0	149.3	0.3	0.2	0.3	0.0	0.5	0.0	10.6	0.0	2.3	0.0	163.0
1986	155.2	0.0	155.2	0.2	(s)	0.8	0.0	0.8	0.0	14.8	0.0	3.6	0.0	174.7
1987	259.7	0.0	259.7	0.3	0.0	1.1	0.0	1.1	0.0	9.3	0.0	3.5	0.0	273.8
1988	288.3	0.0	288.3	0.2	0.0	0.6	0.0	0.6	0.0	6.1	0.0	3.7	0.0	298.9
1989	293.2	0.0	293.2	0.7	0.0	0.5	0.0	0.5	0.0	5.8	0.0	3.7	0.0	303.9
1990	311.5	0.0	311.5	0.9	0.0	0.5	0.0	0.5	0.0	5.0	0.0	3.2	0.0	321.1
1991	294.3	0.0	294.3	5.5	0.0	0.5	0.0	0.5	0.0	6.3	0.0	3.9	0.0	310.5
1992	315.5	0.0	315.5	7.1	0.0	0.4	0.0	0.4	0.0	6.0	0.0	3.9	0.0	332.8
1993	321.6	0.0	321.6	6.7	0.0	0.3	0.0	0.3	0.0	8.4	0.0	3.1	0.0	340.1
1994	327.9	0.0	327.9	9.3	0.0	0.3	0.0	0.3	0.0	7.4	0.0	4.1	0.0	349.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Vermont

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million Kilowatthours					
1960	137	0	224	19	2,958	82	819	404	70	3,332	478	46	8,431	0	938	0	0	128	–
1965	105	0	171	25	4,285	79	760	450	63	3,789	910	39	10,572	0	755	0	0	1,950	–
1970	87	3	271	14	5,741	121	502	542	66	5,077	905	45	13,285	0	835	0	0	5,662	–
1971	79	3	295	12	5,391	112	502	590	57	5,331	916	78	13,285	0	810	0	0	6,757	–
1972	56	4	122	11	5,674	255	503	699	61	5,677	944	80	14,026	169	1,026	0	0	6,686	–
1973	59	4	109	12	6,047	219	427	685	60	5,763	870	103	14,295	1,598	1,113	0	0	2,033	–
1974	60	5	99	8	5,071	204	376	703	58	5,626	526	101	12,772	2,483	1,068	0	0	-1,108	–
1975	31	4	28	11	4,642	177	317	833	56	5,698	796	90	12,647	3,561	1,013	0	0	-4,571	–
1976	24	4	27	9	5,470	142	373	946	62	6,013	1,250	108	14,400	3,260	1,158	0	0	-2,145	–
1977	29	4	33	8	5,360	137	343	946	67	6,125	1,142	90	14,252	3,538	1,042	1	0	-3,364	–
1978	19	4	18	6	5,280	134	326	1,199	72	6,309	979	93	14,416	3,241	982	11	0	-1,409	–
1979	24	4	75	4	5,486	172	387	541	76	5,830	347	91	13,008	3,449	1,076	32	0	-1,661	–
1980	22	4	43	25	4,095	155	283	666	67	5,437	471	89	11,331	2,979	1,000	49	0	807	–
1981	42	4	49	16	3,819	82	212	626	64	5,506	348	87	10,811	3,569	1,187	26	0	-2,618	–
1982	50	4	74	19	2,699	91	187	862	59	5,529	359	68	9,946	4,174	1,046	43	0	-4,114	–
1983	46	4	63	25	3,439	106	258	866	62	5,579	318	74	10,791	2,870	1,203	50	0	152	–
1984	55	5	226	17	3,721	173	150	646	66	5,821	434	74	11,328	3,336	1,188	178	0	-912	–
1985	80	5	330	22	4,193	201	577	791	61	5,811	122	75	12,182	2,999	1,243	280	0	-801	–
1986	26	5	419	27	3,974	133	380	867	60	5,966	471	81	12,377	2,058	2,715	85	0	-2,742	–
1987	12	5	491	21	4,369	181	316	1,101	68	6,514	338	87	13,487	3,536	3,272	156	0	-8,087	–
1988	11	6	396	17	4,670	143	455	1,157	65	6,806	238	88	14,035	4,114	3,700	100	0	-9,968	–
1989	9	6	453	17	4,628	220	362	1,504	67	6,551	192	87	14,082	3,607	2,972	184	0	-5,937	–
1990	8	7	27	15	4,045	180	223	1,401	69	6,657	241	86	12,943	3,616	R I NA	I NA	I NA	R -4,000	–
1991	12	7	527	15	4,258	162	274	1,634	62	6,770	265	R 0	R 13,968	4,108	R NA	NA	NA	R -8,217	–
1992	20	8	335	15	4,993	116	230	1,912	63	6,881	280	R 0	R 14,825	3,735	R NA	NA	NA	R -3,584	–
1993	6	7	31	12	5,357	124	277	1,641	64	7,094	480	R 0	R 15,080	3,372	R NA	NA	NA	R -5,913	–
1994	5	7	230	11	5,064	138	213	1,663	67	7,157	286	0	14,830	4,316	NA	NA	NA	-4,581	–
			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	0.3	46.7	0.0	10.1	0.0	0.0	0.4	60.7
1965	2.7	0.0	1.1	0.1	25.0	0.4	4.3	1.8	0.4	19.9	5.7	0.2	59.0	0.0	7.9	0.0	0.0	6.7	76.2
1970	2.1	2.7	1.8	0.1	33.4	0.7	2.8	2.0	0.4	26.7	5.7	0.3	73.9	0.0	8.8	0.0	0.0	19.3	106.8
1971	1.9	3.1	2.0	0.1	31.4	0.6	2.8	2.2	0.3	28.0	5.8	0.4	73.7	0.0	8.5	0.0	0.0	23.1	110.2
1972	1.4	3.8	0.8	0.1	33.1	1.4	2.9	2.6	0.4	29.8	5.9	0.4	77.4	1.8	10.6	0.0	0.0	22.8	117.9
1973	1.5	4.2	0.7	0.1	35.2	1.2	2.4	2.6	0.4	30.3	5.5	0.6	78.9	17.4	11.6	0.0	0.0	6.9	120.5
1974	1.5	4.8	0.7	(s)	29.5	1.1	2.1	2.6	0.4	29.6	3.3	0.6	69.9	27.7	11.2	0.0	0.0	-3.8	111.2
1975	0.7	4.0	0.2	0.1	27.0	1.0	1.8	3.1	0.3	29.9	5.0	0.5	68.9	39.2	10.5	0.0	0.0	-15.6	107.8
1976	0.6	3.7	0.2	(s)	31.9	0.8	2.1	3.5	0.4	31.6	7.9	0.6	78.9	36.0	12.0	0.0	0.0	-7.3	123.9
1977	0.7	4.0	0.2	(s)	31.2	0.8	1.9	3.5	0.4	32.2	7.2	0.5	77.9	38.1	10.9	(s)	0.0	-11.5	120.2
1978	0.5	3.8	0.1	(s)	30.8	0.7	1.8	4.4	0.4	33.1	6.2	0.5	78.1	35.5	10.2	0.1	0.0	-4.8	123.4
1979	0.6	4.4	0.5	(s)	32.0	1.0	2.2	2.0	0.5	30.6	2.2	0.5	71.4	37.5	11.1	0.3	0.0	-5.7	119.7
1980	0.5	4.0	0.3	0.1	23.9	0.9	1.6	2.4	0.4	28.6	3.0	0.5	61.6	32.5	10.4	0.5	0.0	2.8	112.2
1981	1.0	4.4	0.3	0.1	22.2	0.5	1.2	2.3	0.4	28.9	2.2	0.5	58.6	39.4	12.4	0.3	0.0	-8.9	107.1
1982	1.3	4.3	0.5	0.1	15.7	0.5	1.1	3.1	0.4	29.0	2.3	0.4	53.0	46.2	10.9	0.5	0.0	-14.0	102.2
1983	1.2	4.3	0.4	0.1	20.0	0.6	1.5	3.1	0.4	29.3	2.0	0.4	57.8	31.3	12.7	0.5	0.0	0.5	108.3
1984	1.4	4.8	1.5	0.1	21.7	1.0	0.9	2.3	0.4	30.6	2.7	0.4	61.5	36.2	12.4	1.9	0.0	-3.1	115.1
1985	2.0	5.0	2.2	0.1	24.4	1.1	3.3	2.8	0.4	30.5	0.8	0.4	66.0	32.4	13.0	2.9	0.0	-2.7	118.6
1986	0.7	5.0	2.8	0.1	23.1	0.7	2.2	3.2	0.4	31.3	3.0	0.4	67.2	22.2	28.4	0.9	0.0	-9.4	114.9
1987	0.3	5.1	3.3	0.1	25.5	1.0	1.8	4.0	0.4	34.2	2.1	0.5	72.9	38.1	34.1	1.6	0.0	-27.6	124.5
1988	0.3	5.5	2.6	0.1	27.2	0.8	2.6	4.2	0.4	35.8	1.5	0.5	75.6	44.2	38.2	1.0	0.0	-34.0	130.8
1989	0.2	6.1	3.0	0.1	27.0	1.2	2.1	5.5	0.4	34.4	1.2	0.5	75.4	38.7	30.7	1.9	0.0	-20.3	132.7
1990	0.2	6.7	0.2	0.1	23.6	1.0	1.3	5.1	0.4	35.0	1.5	0.5	68.5	38.6	R I 24.3	I 10.2	I (s)	R -13.6	R I 136.2
1991	0.3	7.0	3.5	0.1	24.8	0.9	1.6	5.9	0.4	35.6	1.7	R 0.0	R 74.3	44.1	R 30.1	10.4	(s)	-28.0	R 141.8
1992	0.5	7.6	2.2	0.1	29.1	0.6	1.3	6.9	0.4	36.1	1.8	R 0.0	R 78.5	39.9	R 28.4	10.7	(s)	-12.2	R 149.6
1993	0.1	7.2	0.2	0.1	31.2	0.7	1.6	5.9	0.4	37.3	3.0	R 0.0	R 80.3	36.0	R 34.7	12.1	(s)	-20.2	R 153.5
1994	0.1	7.3	1.5	0.1	29.5	0.8	1.2	6.0	0.4	37.6	1.8	0.0	78.9	46.1	20.4	12.5	(s)	-15.6	152.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
NA=Not available.
– =Not applicable.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Vermont

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	0	46	46	0	2,044	701	258	3,003	0	0	451	–	1,121	–
1965	0	29	29	0	3,110	649	316	4,075	0	0	678	–	1,619	–
1970	0	17	17	1	3,873	436	356	4,665	0	0	1,216	–	2,947	–
1971	0	17	17	1	3,649	436	388	4,473	0	0	1,360	–	3,288	–
1972	0	13	13	1	3,988	401	469	4,858	0	0	1,496	–	3,602	–
1973	0	13	13	1	4,093	341	461	4,894	0	0	1,515	–	3,627	–
1974	0	11	11	1	3,388	295	487	4,170	0	0	1,496	–	3,649	–
1975	0	9	9	1	3,101	235	555	3,891	0	0	1,427	–	3,443	–
1976	0	9	9	1	3,656	289	622	4,568	0	0	1,485	–	3,577	–
1977	0	8	8	1	3,345	284	594	4,223	0	0	1,466	–	3,541	–
1978	0	7	7	1	3,423	263	641	4,328	0	0	1,529	–	3,741	–
1979	0	5	5	1	3,222	324	324	3,870	0	0	1,698	–	4,098	–
1980	0	7	7	1	2,171	230	356	2,757	0	0	1,781	–	4,331	–
1981	0	15	15	1	2,008	177	381	2,566	0	0	1,707	–	4,069	–
1982	0	9	9	1	1,395	154	416	1,965	0	0	1,738	–	4,174	–
1983	1	7	8	1	2,004	215	495	2,714	0	0	1,766	–	4,231	–
1984	0	9	9	1	2,055	133	501	2,690	0	0	1,849	–	4,304	–
1985	12	7	19	1	2,222	514	601	3,338	0	0	1,538	–	3,613	–
1986	(s)	6	6	2	1,848	291	607	2,746	0	0	1,156	–	2,659	–
1987	0	6	6	2	1,877	251	764	2,892	0	0	1,409	–	3,220	–
1988	0	5	5	2	1,941	308	906	3,155	0	0	1,572	–	3,554	–
1989	(s)	2	2	2	2,163	278	1,160	3,601	0	0	1,664	–	3,731	–
1990	0	4	4	2	1,930	193	1,109	3,232	[e] 99	[e] 2	1,809	–	R 3,952	–
1991	0	3	3	2	2,036	248	1,188	3,472	104	2	1,783	–	R 3,878	–
1992	0	4	4	3	2,191	210	1,424	3,825	110	2	1,927	–	R 4,114	–
1993	0	4	4	3	2,372	235	1,204	3,810	114	2	1,971	–	R 4,163	–
1994	2	0	2	2	2,168	183	1,227	3,578	111	3	2,009	–	4,191	–
									Trillion Btu					
1960	0.0	1.1	1.1	0.0	11.9	4.0	1.0	16.9	0.0	0.0	1.5	19.6	3.8	23.4
1965	0.0	0.7	0.7	0.0	18.1	3.7	1.3	23.1	0.0	0.0	2.3	26.1	5.5	31.6
1970	0.0	0.4	0.4	1.1	22.6	2.5	1.3	26.4	0.0	0.0	4.1	32.0	10.1	42.0
1971	0.0	0.4	0.4	1.1	21.3	2.5	1.5	25.2	0.0	0.0	4.6	31.4	11.2	42.6
1972	0.0	0.3	0.3	1.2	23.2	2.3	1.8	27.3	0.0	0.0	5.1	33.9	12.3	46.2
1973	0.0	0.3	0.3	1.2	23.8	1.9	1.7	27.5	0.0	0.0	5.2	34.2	12.4	46.5
1974	0.0	0.2	0.2	1.2	19.7	1.7	1.8	23.2	0.0	0.0	5.1	29.8	12.4	42.3
1975	0.0	0.2	0.2	1.1	18.1	1.3	2.1	21.5	0.0	0.0	4.9	27.7	11.7	39.4
1976	0.0	0.2	0.2	1.2	21.3	1.6	2.3	25.2	0.0	0.0	5.1	31.7	12.2	43.9
1977	0.0	0.2	0.2	1.2	19.5	1.6	2.2	23.3	0.0	0.0	5.0	29.6	12.1	41.7
1978	0.0	0.2	0.2	1.2	19.9	1.5	2.4	23.8	0.0	0.0	5.2	30.4	12.8	43.1
1979	0.0	0.1	0.1	1.1	18.8	1.8	1.2	21.8	0.0	0.0	5.8	28.9	14.0	42.8
1980	0.0	0.1	0.1	1.3	12.6	1.3	1.3	15.3	0.0	0.0	6.1	22.8	14.8	37.5
1981	0.0	0.4	0.4	1.3	11.7	1.0	1.4	14.1	0.0	0.0	5.8	21.6	13.9	35.4
1982	0.0	0.2	0.2	1.3	8.1	0.9	1.5	10.5	0.0	0.0	5.9	17.9	14.2	32.2
1983	(s)	0.2	0.2	1.2	11.7	1.2	1.8	14.7	0.0	0.0	6.0	22.1	14.4	36.6
1984	0.0	0.2	0.2	1.3	12.0	0.8	1.8	14.5	0.0	0.0	6.3	22.4	14.7	37.1
1985	0.3	0.2	0.5	1.4	12.9	2.9	2.2	18.0	0.0	0.0	5.2	25.2	12.3	37.5
1986	(s)	0.1	0.2	1.6	10.8	1.6	2.2	14.6	0.0	0.0	3.9	20.3	9.1	29.4
1987	0.0	0.2	0.2	1.6	10.9	1.4	2.8	15.1	0.0	0.0	4.8	21.8	11.0	32.7
1988	0.0	0.1	0.1	1.8	11.3	1.7	3.3	16.4	0.0	0.0	5.4	23.7	12.1	35.8
1989	(s)	0.1	0.1	2.1	12.6	1.6	4.3	18.4	0.0	0.0	5.7	26.3	12.7	39.0
1990	0.0	0.1	0.1	2.1	11.2	1.1	4.0	16.4	[e] 2.0	[e] (s)	6.2	R [e] 26.7	13.5	R [e] 40.2
1991	0.0	0.1	0.1	2.2	11.9	1.4	4.3	17.6	2.1	(s)	6.1	R 28.0	13.2	R 41.2
1992	0.0	0.1	0.1	2.5	12.8	1.2	5.2	19.1	2.2	(s)	6.6	R 30.5	14.0	R 44.5
1993	0.0	0.1	0.1	2.5	13.8	1.3	4.3	19.5	2.3	(s)	6.7	R 31.1	14.2	R 45.3
1994	(s)	0.0	(s)	2.4	12.6	1.0	4.5	18.1	2.2	(s)	6.9	29.7	14.3	44.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Vermont

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	0	30	30	0	418	43	46	127	225	859	233	–	580	–
1965	0	19	19	0	636	40	56	24	422	1,177	303	–	723	–
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	88	36	65	628	927	–	2,157	–
1985	22	5	27	2	530	36	106	40	24	735	959	–	2,253	–
1986	1	4	5	2	537	60	107	40	135	880	995	–	2,290	–
1987	0	4	4	2	652	33	135	41	92	952	1,424	–	3,253	–
1988	0	3	3	2	691	63	160	39	61	1,013	1,499	–	3,389	–
1989	(s)	2	2	2	722	58	205	36	84	1,105	1,537	–	3,446	–
1990	0	3	3	2	563	12	196	41	121	933	1,526	–	R3,336	–
1991	0	2	2	2	700	15	210	27	131	1,084	1,531	–	R3,329	–
1992	0	2	2	2	816	14	251	33	106	1,221	1,574	–	R3,359	–
1993	0	2	2	2	746	34	212	6	174	1,173	1,614	–	R3,408	–
1994	3	0	3	3	770	19	217	7	87	1,099	1,622	–	3,383	–
					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
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
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	(s)	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	(s)	0.3	0.2	0.4	3.5	3.2	8.2	7.4	15.6
1985	0.5	0.1	0.7	1.6	3.1	0.2	0.4	0.2	0.1	4.0	3.3	9.5	7.7	17.2
1986	(s)	0.1	0.1	1.7	3.1	0.3	0.4	0.2	0.8	4.9	3.4	10.1	7.8	17.9
1987	0.0	0.1	0.1	1.8	3.8	0.2	0.5	0.2	0.6	5.3	4.9	12.0	11.1	23.1
1988	0.0	0.1	0.1	1.9	4.0	0.4	0.6	0.2	0.4	5.6	5.1	12.7	11.6	24.2
1989	(s)	(s)	(s)	2.1	4.2	0.3	0.8	0.2	0.5	6.0	5.2	13.3	11.8	25.1
1990	0.0	0.1	0.1	2.0	3.3	0.1	0.7	0.2	0.8	5.0	5.2	12.3	11.4	23.7
1991	0.0	0.1	0.1	2.0	4.1	0.1	0.8	0.1	0.8	5.9	5.2	13.2	11.4	24.6
1992	0.0	0.1	0.1	2.3	4.8	0.1	0.9	0.2	0.7	6.6	5.4	14.3	11.5	25.8
1993	0.0	0.1	0.1	2.4	4.3	0.2	0.8	(s)	1.1	6.4	5.5	14.4	11.6	26.0
1994	0.1	0.0	0.1	2.7	4.5	0.1	0.8	(s)	0.5	6.0	5.5	14.2	11.5	25.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Vermont

Year	Coal	Natural Gas [a]	Petroleum: Asphalt and Road Oil [b]	Petroleum: Distillate Fuel [b]	Petroleum: Kerosene [b]	Petroleum: LPG [b]	Petroleum: Lubricants [b]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [b]	Petroleum: Other [b,c]	Petroleum: Total	Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	41	0	224	234	75	99	2	0	252	46	931	64	0	0	191	–	474	–
1965	14	0	171	316	71	77	19	100	484	39	1,278	53	0	0	352	–	841	–
1970	3	1	271	463	39	121	17	68	466	45	1,489	62	0	0	787	–	1,907	–
1971	4	1	295	440	39	130	12	57	474	78	1,524	59	0	0	856	–	2,070	–
1972	2	1	122	451	78	145	12	59	491	80	1,438	69	0	0	954	–	2,297	–
1973	3	2	109	469	65	141	11	70	458	103	1,427	65	0	0	1,003	–	2,401	–
1974	4	2	99	417	63	128	11	50	278	101	1,147	71	0	0	947	–	2,310	–
1975	2	2	28	364	68	179	10	77	421	90	1,237	67	0	0	858	–	2,071	–
1976	1	2	27	459	67	212	12	69	652	108	1,605	74	0	0	1,253	–	3,019	–
1977	3	2	33	418	42	245	15	61	594	90	1,498	72	0	0	994	–	2,400	–
1978	1	2	18	430	47	425	16	49	512	93	1,589	70	0	0	1,114	–	2,725	–
1979	2	2	75	668	43	158	17	38	177	91	1,267	73	0	0	1,168	–	2,819	–
1980	2	2	43	501	9	245	15	19	235	89	1,155	70	0	0	1,247	–	3,032	–
1981	3	2	49	468	9	157	15	12	194	87	991	70	0	0	1,172	–	2,794	–
1982	4	2	74	420	7	368	13	13	244	68	1,205	70	0	0	1,152	–	2,768	–
1983	4	2	63	288	34	277	14	10	271	74	1,031	70	0	0	1,210	–	2,899	–
1984	3	2	226	296	12	39	15	68	369	74	1,099	70	0	0	1,450	–	3,376	–
1985	6	2	330	448	26	70	14	117	98	75	1,178	70	0	0	1,518	–	3,567	–
1986	3	2	419	504	30	143	14	120	336	81	1,645	70	0	0	1,576	–	3,625	–
1987	2	2	491	475	33	191	15	119	244	87	R1,656	70	0	0	1,264	–	2,888	–
1988	3	2	396	578	84	79	15	123	177	88	1,541	70	0	0	1,345	–	3,040	–
1989	5	2	453	502	27	128	15	127	102	87	1,441	70	0	0	1,373	–	3,079	–
1990	1	2	27	466	17	85	16	80	116	86	894	Rf NA	f NA	f NA	1,381	–	R3,018	–
1991	7	2	527	447	11	226	14	88	131	R0	R1,444	R NA	NA	NA	1,390	–	R3,021	–
1992	14	2	335	508	6	226	14	90	169	R0	R1,349	R NA	NA	NA	1,440	–	R3,075	–
1993	0	2	31	511	8	217	14	76	306	R0	R1,163	R NA	NA	NA	1,431	–	R3,022	–
1994	0	2	230	347	12	199	15	84	199	0	1,086	NA	NA	NA	1,435	–	2,992	–
			Trillion Btu															
1960	1.1	0.0	1.5	1.4	0.4	0.4	(s)	0.0	1.6	0.3	5.5	0.7	0.0	0.0	0.7	8.0	1.6	9.6
1965	0.4	0.0	1.1	1.8	0.4	0.3	0.1	0.5	3.0	0.2	7.6	0.6	0.0	0.0	1.2	9.7	2.9	12.6
1970	0.1	1.1	1.8	2.7	0.2	0.5	0.1	0.4	2.9	0.3	8.8	0.6	0.0	0.0	2.7	13.3	6.5	19.8
1971	0.1	1.3	2.0	2.6	0.2	0.5	0.1	0.3	3.0	0.4	9.0	0.6	0.0	0.0	2.9	14.0	7.1	21.0
1972	0.1	1.4	0.8	2.6	0.4	0.5	0.1	0.3	3.1	0.4	8.3	0.7	0.0	0.0	3.3	13.7	7.8	21.6
1973	0.1	1.8	0.7	2.7	0.4	0.5	0.1	0.4	2.9	0.6	8.2	0.7	0.0	0.0	3.4	14.2	8.2	22.4
1974	0.1	1.7	0.7	2.4	0.4	0.5	0.1	0.3	1.7	0.6	6.6	0.7	0.0	0.0	3.2	12.3	7.9	20.2
1975	0.1	1.5	0.2	2.1	0.4	0.7	0.1	0.4	2.6	0.5	7.0	0.7	0.0	0.0	2.9	12.2	7.1	19.3
1976	(s)	1.6	0.2	2.7	0.4	0.8	0.1	0.4	4.1	0.6	9.1	0.8	0.0	0.0	4.3	15.9	10.3	26.2
1977	0.1	1.7	0.2	2.4	0.2	0.9	0.1	0.3	3.7	0.5	8.4	0.7	0.0	0.0	3.4	14.3	8.2	22.5
1978	(s)	1.7	0.1	2.5	0.3	1.6	0.1	0.3	3.2	0.5	8.5	0.7	0.0	0.0	3.8	14.8	9.3	24.1
1979	(s)	1.7	0.5	3.9	0.2	0.6	0.1	0.2	1.1	0.5	7.1	0.8	0.0	0.0	4.0	13.7	9.6	23.3
1980	(s)	1.6	0.3	2.9	0.1	0.9	0.1	0.1	1.5	0.5	6.3	0.7	0.0	0.0	4.3	12.9	10.3	23.3
1981	0.1	2.1	0.3	2.7	0.1	0.6	0.1	0.1	1.2	0.5	5.5	0.7	0.0	0.0	4.0	12.4	9.5	21.9
1982	0.1	2.1	0.5	2.4	(s)	1.3	0.1	0.1	1.5	0.4	6.4	0.7	0.0	0.0	3.9	13.2	9.4	22.7
1983	0.1	2.0	0.4	1.7	0.2	1.0	0.1	0.1	1.7	0.4	5.5	0.7	0.0	0.0	4.1	12.5	9.9	22.4
1984	0.1	1.8	1.5	1.7	0.1	0.1	0.1	0.4	2.3	0.4	6.6	0.7	0.0	0.0	4.9	14.1	11.5	25.6
1985	0.1	1.9	2.2	2.6	0.1	0.3	0.1	0.6	0.6	0.4	6.9	0.7	0.0	0.0	5.2	14.8	12.2	27.0
1986	0.1	1.7	2.8	2.9	0.2	0.5	0.1	0.6	2.1	0.4	9.7	0.7	0.0	0.0	5.4	17.6	12.4	29.9
1987	0.1	1.7	3.3	2.8	0.2	0.7	0.1	0.6	1.5	0.5	9.6	0.7	0.0	0.0	4.3	16.4	9.9	26.3
1988	0.1	1.7	2.6	3.4	0.5	0.3	0.1	0.6	1.1	0.5	9.1	0.7	0.0	0.0	4.6	16.2	10.4	26.6
1989	0.1	1.9	3.0	2.9	0.2	0.5	0.1	0.7	0.6	0.5	8.4	0.7	0.0	0.0	4.7	15.8	10.5	26.3
1990	(s)	1.9	0.2	2.7	0.1	0.3	0.1	0.4	0.7	0.5	5.0	Rf 1.0	f 7.2	f 0.0	4.7	Rf 19.9	10.3	Rf 30.2
1991	0.2	1.7	3.5	2.6	0.1	0.8	0.1	0.5	0.8	R0.0	R8.4	R 1.0	7.2	0.0	4.7	R23.2	10.3	R33.5
1992	0.4	1.9	2.2	3.0	(s)	0.8	0.1	0.5	1.1	R0.0	R7.7	R 1.2	7.6	0.0	4.9	R23.7	10.5	R34.2
1993	0.0	2.0	0.2	3.0	(s)	0.8	0.1	0.4	1.9	R0.0	R6.4	R 1.5	9.2	0.0	4.9	R24.0	10.3	R34.4
1994	0.0	2.0	1.5	2.0	0.1	0.7	0.1	0.4	1.2	0.0	6.1	1.5	9.5	0.0	4.9	24.0	10.2	34.2

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Vermont

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			Total
1960	1	0	19	254	82	(s)	68	3,205	0	3,629	0	0	–	0	–
1965	(s)	0	25	185	79	1	44	3,665	0	4,000	0	0	–	0	–
1970	(s)	0	14	346	121	3	49	4,985	2	5,519	0	0	–	0	–
1971	(s)	0	12	300	112	4	46	5,250	2	5,725	0	0	–	0	–
1972	(s)	0	11	361	123	2	49	5,593	2	6,141	0	0	–	0	–
1973	(s)	0	12	530	124	1	49	5,666	2	6,384	0	0	–	0	–
1974	(s)	0	8	513	127	1	47	5,550	3	6,249	0	0	–	0	–
1975	(s)	0	11	504	129	1	45	5,591	2	6,284	0	0	–	0	–
1976	(s)	0	9	583	116	2	50	5,914	1	6,674	0	0	–	0	–
1977	(s)	0	8	897	125	2	52	6,033	0	7,117	0	0	–	0	–
1978	0	0	6	706	134	20	56	6,228	0	7,150	0	0	–	0	–
1979	0	0	4	910	168	2	58	5,759	0	6,901	0	0	–	0	–
1980	0	0	25	757	137	2	52	5,386	0	6,359	0	0	–	0	–
1981	0	0	16	772	75	21	50	5,459	0	6,394	0	0	–	0	–
1982	0	(s)	19	362	84	6	45	5,479	0	5,995	0	0	–	0	–
1983	0	(s)	25	708	106	7	48	5,511	0	6,405	0	0	–	0	–
1984	0	(s)	17	905	173	17	51	5,716	0	6,880	0	0	–	0	–
1985	0	(s)	22	959	201	13	47	5,655	0	6,897	0	0	–	0	–
1986	0	(s)	27	1,038	133	10	46	5,806	0	7,060	0	0	–	0	–
1987	0	0	21	1,295	181	11	52	6,354	2	7,916	0	0	–	0	–
1988	0	0	17	1,385	143	11	50	6,644	0	8,250	0	0	–	0	–
1989	0	(s)	17	1,191	220	11	52	6,388	7	7,885	0	0	–	0	–
1990	0	(s)	15	1,079	180	11	53	6,536	3	7,877	[e] 0	0	–	0	–
1991	0	(s)	15	1,060	162	11	48	6,654	3	7,953	0	0	–	0	–
1992	0	(s)	15	1,470	116	11	49	6,757	4	8,422	0	0	–	0	–
1993	0	(s)	12	1,711	124	8	49	7,012	0	8,917	0	0	–	0	–
1994	0	(s)	11	1,756	138	21	52	7,066	0	9,045	0	0	–	0	–
			Trillion Btu												
1960	(s)	0.0	0.1	1.5	0.4	(s)	0.4	16.8	0.0	19.3	0.0	0.0	19.3	0.0	19.3
1965	(s)	0.0	0.1	1.1	0.4	(s)	0.3	19.3	0.0	21.2	0.0	0.0	21.2	0.0	21.2
1970	(s)	0.0	0.1	2.0	0.7	(s)	0.3	26.2	(s)	29.3	0.0	0.0	29.3	0.0	29.3
1971	(s)	0.0	0.1	1.7	0.6	(s)	0.3	27.6	(s)	30.3	0.0	0.0	30.3	0.0	30.3
1972	(s)	0.0	0.1	2.1	0.7	(s)	0.3	29.4	(s)	32.5	0.0	0.0	32.5	0.0	32.5
1973	(s)	0.0	0.1	3.1	0.7	(s)	0.3	29.8	(s)	33.9	0.0	0.0	33.9	0.0	33.9
1974	(s)	0.0	(s)	3.0	0.7	(s)	0.3	29.2	(s)	33.2	0.0	0.0	33.2	0.0	33.2
1975	(s)	0.0	0.1	2.9	0.7	(s)	0.3	29.4	(s)	33.4	0.0	0.0	33.4	0.0	33.4
1976	(s)	0.0	(s)	3.4	0.6	(s)	0.3	31.1	(s)	35.5	0.0	0.0	35.5	0.0	35.5
1977	(s)	0.0	(s)	5.2	0.7	(s)	0.3	31.7	0.0	38.0	0.0	0.0	38.0	0.0	38.0
1978	0.0	0.0	(s)	4.1	0.7	0.1	0.3	32.7	0.0	38.0	0.0	0.0	38.0	0.0	38.0
1979	0.0	0.0	(s)	5.3	0.9	(s)	0.4	30.3	0.0	36.9	0.0	0.0	36.9	0.0	36.9
1980	0.0	0.0	0.1	4.4	0.8	(s)	0.3	28.3	0.0	33.9	0.0	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	0.0	34.0	0.0	34.0
1982	0.0	(s)	0.1	2.1	0.5	(s)	0.3	28.8	0.0	31.7	0.0	0.0	31.7	0.0	31.7
1983	0.0	(s)	0.1	4.1	0.6	(s)	0.3	29.0	0.0	34.1	0.0	0.0	34.1	0.0	34.1
1984	0.0	(s)	0.1	5.3	1.0	0.1	0.3	30.0	0.0	36.7	0.0	0.0	36.7	0.0	36.7
1985	0.0	(s)	0.1	5.6	1.1	(s)	0.3	29.7	0.0	36.8	0.0	0.0	36.8	0.0	36.8
1986	0.0	(s)	0.1	6.0	0.7	(s)	0.3	30.5	0.0	37.7	0.0	0.0	37.7	0.0	37.7
1987	0.0	0.0	0.1	7.5	1.0	(s)	0.3	33.4	(s)	42.4	0.0	0.0	42.4	0.0	42.4
1988	0.0	0.0	0.1	8.1	0.8	(s)	0.3	34.9	0.0	44.2	0.0	0.0	44.2	0.0	44.2
1989	0.0	(s)	0.1	6.9	1.2	(s)	0.3	33.6	(s)	42.2	0.0	0.0	42.2	0.0	42.2
1990	0.0	(s)	0.1	6.3	1.0	(s)	0.3	34.3	(s)	42.1	[e] 0.0	0.0	[e] 42.1	0.0	[e] 42.1
1991	0.0	(s)	0.1	6.2	0.9	(s)	0.3	35.0	(s)	42.4	0.0	0.0	42.5	0.0	42.5
1992	0.0	(s)	0.1	8.6	0.6	(s)	0.3	35.5	(s)	45.1	0.0	0.0	45.1	0.0	45.1
1993	0.0	(s)	0.1	10.0	0.7	(s)	0.3	36.8	0.0	47.9	0.0	0.0	47.9	0.0	47.9
1994	0.0	(s)	0.1	10.2	0.8	0.1	0.3	37.1	0.0	48.6	0.0	0.0	48.6	0.0	48.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Vermont

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	19	0	19	0	1	8	0	9	0	873	0	0	0	–
1965	43	0	43	0	3	38	0	42	0	702	0	0	0	–
1970	55	0	55	0	23	268	0	291	0	773	0	0	0	–
1971	47	0	47	(s)	18	256	0	274	0	751	0	0	0	–
1972	32	0	32	1	17	190	0	207	169	957	0	0	0	–
1973	35	0	35	1	4	214	0	218	1,598	1,048	0	0	0	–
1974	37	0	37	1	1	137	0	138	2,483	997	0	0	0	–
1975	13	0	13	1	(s)	86	0	87	3,561	946	0	0	0	–
1976	9	0	9	(s)	16	50	0	66	3,260	1,083	0	0	0	–
1977	12	0	12	(s)	17	29	0	46	3,538	970	1	0	0	–
1978	7	0	7	(s)	10	20	0	29	3,241	912	11	0	0	–
1979	13	0	13	1	12	32	0	43	3,449	1,003	32	0	0	–
1980	9	0	9	(s)	0	63	0	63	2,979	930	49	0	0	–
1981	14	0	14	(s)	0	24	0	24	3,569	1,117	26	0	0	–
1982	31	0	31	(s)	0	23	0	23	4,174	976	43	0	0	–
1983	28	0	28	(s)	0	16	0	16	2,870	1,133	50	0	0	–
1984	37	0	37	(s)	0	31	0	31	3,336	1,118	178	0	0	–
1985	28	0	28	(s)	0	34	0	34	2,999	1,173	280	0	0	–
1986	12	0	12	(s)	0	46	0	46	2,058	2,645	85	0	0	–
1987	0	0	0	0	0	71	0	71	3,536	3,202	156	0	0	–
1988	0	0	0	0	0	75	0	75	4,114	3,630	100	0	0	–
1989	0	0	0	(s)	0	50	0	50	3,607	2,902	184	0	0	–
1990	0	0	0	1	0	8	0	8	3,616	R2,249	94	0	0	–
1991	0	0	0	1	0	15	0	15	4,108	R2,813	109	0	0	–
1992	0	0	0	1	0	8	0	8	3,735	R2,643	92	0	0	–
1993	0	0	0	(s)	0	17	0	17	3,372	R3,232	64	0	0	–
1994	0	0	0	(s)	0	23	0	23	4,316	1,839	72	0	0	–
	Trillion Btu													
1960	0.5	0.0	0.5	0.0	(s)	(s)	0.0	0.1	0.0	9.4	0.0	0.0	0.0	10.0
1965	1.2	0.0	1.2	0.0	(s)	0.2	0.0	0.2	0.0	7.3	0.0	0.0	0.0	8.8
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	0.0	11.2
1971	1.2	0.0	1.2	(s)	0.1	1.5	0.0	1.6	0.0	7.9	0.0	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	0.0	14.4
1973	0.9	0.0	0.9	0.6	(s)	1.2	0.0	1.3	17.4	10.9	0.0	0.0	0.0	31.1
1974	1.0	0.0	1.0	1.3	(s)	0.8	0.0	0.8	27.7	10.4	0.0	0.0	0.0	41.1
1975	0.3	0.0	0.3	0.6	(s)	0.5	0.0	0.5	39.2	9.8	0.0	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	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	(s)	0.0	0.0	49.3
1978	0.2	0.0	0.2	(s)	0.1	0.1	0.0	0.2	35.5	9.4	0.1	0.0	0.0	45.4
1979	0.3	0.0	0.3	0.5	0.1	0.2	0.0	0.3	37.5	10.4	0.3	0.0	0.0	49.4
1980	0.2	0.0	0.2	0.2	0.0	0.4	0.0	0.4	32.5	9.7	0.5	0.0	0.0	43.5
1981	0.4	0.0	0.4	0.2	0.0	0.1	0.0	0.1	39.4	11.7	0.3	0.0	0.0	52.0
1982	0.8	0.0	0.8	0.1	0.0	0.1	0.0	0.1	46.2	10.2	0.5	0.0	0.0	57.9
1983	0.7	0.0	0.7	0.2	0.0	0.1	0.0	0.1	31.3	11.9	0.5	0.0	0.0	44.8
1984	0.9	0.0	0.9	0.3	0.0	0.2	0.0	0.2	36.2	11.7	1.9	0.0	0.0	51.1
1985	0.7	0.0	0.7	0.1	0.0	0.2	0.0	0.2	32.4	12.3	2.9	0.0	0.0	48.6
1986	0.3	0.0	0.3	(s)	0.0	0.3	0.0	0.3	22.2	27.6	0.9	0.0	0.0	51.3
1987	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	38.1	33.4	1.6	0.0	0.0	73.5
1988	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	44.2	37.5	1.0	0.0	0.0	83.1
1989	0.0	0.0	0.0	(s)	0.0	0.3	0.0	0.3	38.7	29.9	1.9	0.0	0.0	70.9
1990	0.0	0.0	0.0	0.7	0.0	(s)	0.0	(s)	38.6	R23.2	1.0	0.0	0.0	64.9
1991	0.0	0.0	0.0	1.1	0.0	0.1	0.0	0.1	44.1	R29.1	1.1	0.0	0.0	79.0
1992	0.0	0.0	0.0	0.8	0.0	(s)	0.0	(s)	39.9	R27.2	0.9	0.0	0.0	65.1
1993	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.1	36.0	R33.2	0.7	0.0	0.0	73.4
1994	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.1	46.1	18.9	0.7	0.0	0.0	69.0

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Virginia

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	1,308	77,751	0	1,257	0	0	-13,165	–
1965	14,904	96	2,681	721	18,609	6,504	5,544	1,658	664	36,104	16,780	2,053	91,318	0	883	0	0	-4,629	–
1970	11,294	137	2,250	356	24,640	11,093	5,029	2,412	720	48,684	33,373	3,472	132,030	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	5,992	121,264	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	4,907	112,893	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	4,610	116,361	18,674	1,210	0	0	63,690	–
1984	12,168	144	3,658	127	25,795	10,465	1,071	3,697	930	61,916	8,911	5,274	121,844	17,045	1,182	0	0	67,345	–
1985	11,656	139	4,033	131	25,252	11,038	4,032	3,932	866	62,964	8,571	4,895	125,714	22,303	845	0	0	62,743	–
1986	11,857	141	4,444	155	28,423	13,228	2,808	3,380	847	65,186	12,403	R 3,398	R 134,271	21,215	75	0	0	76,894	–
1987	13,227	159	4,406	74	29,301	14,432	2,504	4,126	958	69,733	10,845	R 3,563	R 139,942	18,145	834	0	0	88,537	–
1988	13,430	164	3,604	74	32,591	15,700	3,049	4,251	923	71,192	10,077	R 3,631	R 145,093	21,037	-191	0	(s)	91,187	–
1989	14,279	174	4,203	75	29,079	15,768	2,692	4,472	947	70,896	11,925	R 3,614	R 143,671	14,264	428	0	(s)	107,357	–
1990	13,105	181	4,701	70	27,940	15,806	1,374	4,088	975	69,928	7,896	R 3,896	R 136,672	23,820	R NA	I NA	I NA	R 88,944	–
1991	13,980	175	3,734	116	26,819	11,824	1,562	4,643	872	70,504	9,195	R 4,909	R 134,178	23,886	R NA	NA	NA	R 90,598	–
1992	13,418	200	3,759	101	26,447	11,670	1,466	4,727	889	71,583	8,083	R 5,196	R 133,921	23,334	R NA	NA	NA	R 92,835	–
1993	13,584	218	3,697	105	28,181	11,915	1,735	4,829	905	73,804	8,503	R 5,158	R 138,832	22,689	R NA	NA	NA	R 97,550	–
1994	12,792	231	3,935	101	29,230	12,003	1,459	4,928	946	75,074	7,982	5,275	140,933	25,429	NA	NA	NA	95,317	–
			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	7.8	440.1	0.0	13.6	0.0	0.0	-44.9	793.6
1965	386.3	98.6	17.8	3.6	108.4	35.8	31.4	6.6	4.0	189.7	105.5	11.8	514.7	0.0	9.2	0.0	0.0	-15.8	993.0
1970	275.3	140.1	14.9	1.8	143.5	61.9	28.5	9.1	4.4	255.7	209.8	20.0	749.7	0.0	7.3	0.0	0.0	55.6	1,228.0
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	33.1	669.7	196.5	3.8	0.0	0.0	178.0	1,467.8
1982	259.7	155.0	13.4	0.9	127.6	61.9	7.2	10.7	5.0	306.5	59.0	27.2	619.4	192.9	9.8	0.0	0.0	202.8	1,439.6
1983	275.5	147.2	18.7	0.8	145.0	60.8	7.6	10.8	5.3	313.5	51.1	25.9	639.6	203.6	12.7	0.0	0.0	217.3	1,495.9
1984	306.9	148.8	24.3	0.6	150.3	58.4	6.1	13.3	5.6	325.2	56.0	28.9	668.7	184.8	12.3	0.0	0.0	229.8	1,551.3
1985	297.1	144.9	26.8	0.7	147.1	61.7	22.9	14.2	5.3	330.7	53.9	27.0	690.1	241.2	8.8	0.0	0.0	214.1	1,596.2
1986	303.3	146.7	29.5	0.8	165.6	74.1	15.9	12.3	5.1	342.4	78.0	R 19.0	R 742.7	229.1	0.8	0.0	0.0	262.4	R 1,684.8
1987	337.9	165.3	29.2	0.4	170.7	80.9	14.2	15.1	5.8	366.3	68.2	R 19.8	R 770.6	195.5	8.7	0.0	0.0	302.1	R 1,780.0
1988	342.9	170.2	23.9	0.4	189.8	87.9	17.3	15.5	5.6	374.0	63.4	R 20.3	R 798.1	226.0	-2.0	0.0	(s)	311.1	R 1,846.4
1989	362.3	180.8	27.9	0.4	169.4	88.3	15.3	16.5	5.7	372.4	75.0	R 20.2	R 791.0	153.0	4.4	0.0	(s)	366.3	R 1,857.8
1990	333.0	188.7	31.2	0.4	162.7	88.5	7.8	14.8	5.9	367.3	49.6	R 21.7	R 750.1	254.4	R I 5.1	I 54.0	I 0.1	R 303.5	R I 1,888.2
1991	356.6	182.0	24.8	0.6	156.2	66.7	8.9	16.8	5.3	370.4	57.8	R 27.3	R 734.7	256.5	R 0.4	54.5	0.1	R 309.1	R 1,893.5
1992	343.6	207.8	24.9	0.5	154.1	65.9	8.3	17.1	5.4	376.0	50.8	R 28.7	R 731.8	249.2	R 4.4	57.4	0.1	R 316.8	R 1,910.5
1993	347.6	227.5	24.5	0.5	164.2	67.3	9.8	17.4	5.5	387.7	53.5	R 28.5	R 758.9	242.4	R 5.5	55.4	0.1	R 332.8	R 1,969.6
1994	326.5	239.3	26.1	0.5	170.3	68.0	8.3	17.9	5.7	394.4	50.2	29.2	770.5	271.5	4.2	59.4	0.1	325.2	1,996.0

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
NA=Not available.
– =Not applicable.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Virginia

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	450	8	458	27	6,520	4,655	734	11,909	0	0	4,099	–	10,196	–
1965	276	5	281	36	7,471	4,847	1,133	13,452	0	0	6,557	–	15,655	–
1970	163	3	166	50	9,734	4,544	1,430	15,708	0	0	11,546	–	27,979	–
1971	150	3	153	49	9,511	4,541	1,441	15,492	0	0	12,053	–	29,140	–
1972	139	2	142	55	9,638	4,118	1,599	15,355	0	0	13,037	–	31,381	–
1973	168	2	170	52	10,185	2,949	1,499	14,633	0	0	14,697	–	35,185	–
1974	238	2	240	48	9,134	2,245	1,413	12,793	0	0	14,752	–	35,968	–
1975	112	2	114	49	9,091	2,056	1,561	12,708	0	0	15,871	–	38,283	–
1976	153	2	154	52	9,450	2,288	1,665	13,403	0	0	17,156	–	41,326	–
1977	150	2	151	49	10,240	1,899	1,662	13,801	0	0	18,198	–	43,944	–
1978	75	1	76	54	9,089	1,592	1,492	12,173	0	0	18,669	–	45,674	–
1979	67	1	68	51	13,058	2,302	1,361	16,721	0	0	18,717	–	45,170	–
1980	67	1	68	55	7,380	1,403	1,506	10,289	0	0	19,731	–	47,979	–
1981	45	1	46	51	5,572	919	1,391	7,882	0	0	20,579	–	49,044	–
1982	85	1	86	48	5,035	1,048	1,309	7,393	0	0	20,343	–	48,862	–
1983	88	1	89	47	5,396	1,182	1,557	8,135	0	0	21,588	–	51,719	–
1984	100	2	102	51	5,534	987	1,741	8,262	0	0	21,711	–	50,536	–
1985	94	1	95	49	5,139	3,611	1,805	10,554	0	0	22,568	–	53,021	–
1986	85	1	86	52	6,494	2,474	1,531	10,499	0	0	25,235	–	58,048	–
1987	113	1	114	55	6,639	2,181	1,870	10,690	0	0	26,875	–	61,408	–
1988	101	1	102	59	6,971	2,629	1,785	11,386	0	0	28,192	–	63,736	–
1989	68	1	68	62	6,286	2,271	2,083	10,640	0	0	29,223	–	65,537	–
1990	82	1	83	51	5,108	1,160	2,124	8,392	[e] 684	[e] 33	28,130	–	R 61,468	–
1991	48	1	49	54	4,593	1,322	2,320	8,235	721	33	29,607	–	R 64,372	–
1992	66	2	68	62	4,781	1,283	2,429	8,494	758	33	29,780	–	R 63,575	–
1993	108	1	109	65	4,958	1,489	2,391	8,839	820	33	32,472	–	R 68,579	–
1994	110	1	111	65	4,914	1,256	2,440	8,610	804	34	32,343	–	67,450	–
	Trillion Btu													
1960	11.1	0.2	11.4	27.9	38.0	26.4	2.9	67.3	0.0	0.0	14.0	120.5	34.8	155.3
1965	6.8	0.1	6.9	37.4	43.5	27.5	4.5	75.5	0.0	0.0	22.4	142.3	53.4	195.7
1970	3.9	0.1	4.0	50.8	56.7	25.8	5.4	87.9	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	50.1	188.7	120.0	308.7
1974	5.5	(s)	5.6	49.2	53.2	12.7	5.3	71.2	0.0	0.0	50.3	176.3	122.7	299.0
1975	2.6	(s)	2.7	49.7	53.0	11.7	5.8	70.4	0.0	0.0	54.2	176.9	130.6	307.6
1976	3.6	(s)	3.7	53.5	55.0	13.0	6.2	74.2	0.0	0.0	58.5	189.9	141.0	330.9
1977	3.5	(s)	3.6	50.0	59.7	10.8	6.1	76.5	0.0	0.0	62.1	192.2	149.9	342.1
1978	1.8	(s)	1.8	55.3	52.9	9.0	5.5	67.4	0.0	0.0	63.7	188.2	155.8	344.1
1979	1.6	(s)	1.6	52.0	76.1	13.1	5.0	94.1	0.0	0.0	63.9	211.6	154.1	365.7
1980	1.6	(s)	1.7	55.6	43.0	8.0	5.5	56.5	0.0	0.0	67.3	181.1	163.7	344.8
1981	1.1	(s)	1.1	52.2	32.5	5.2	5.1	42.7	0.0	0.0	70.2	166.2	167.3	333.6
1982	2.1	(s)	2.1	49.5	29.3	5.9	4.7	40.0	0.0	0.0	69.4	161.0	166.7	327.8
1983	2.2	(s)	2.2	48.7	31.4	6.7	5.6	43.8	0.0	0.0	73.7	168.3	176.5	344.8
1984	2.5	(s)	2.5	53.3	32.2	5.6	6.3	44.1	0.0	0.0	74.1	174.0	172.4	346.4
1985	2.3	(s)	2.4	50.7	29.9	20.5	6.5	56.9	0.0	0.0	77.0	186.9	180.9	367.8
1986	2.1	(s)	2.2	53.6	37.8	14.0	5.6	57.4	0.0	0.0	86.1	199.3	198.1	397.3
1987	2.8	(s)	2.9	57.6	38.7	12.4	6.8	57.9	0.0	0.0	91.7	210.1	209.5	419.6
1988	2.5	(s)	2.6	60.9	40.6	14.9	6.5	62.0	0.0	0.0	96.2	221.7	217.5	439.2
1989	1.7	(s)	1.7	64.2	36.6	12.9	7.7	57.2	0.0	0.0	99.7	222.8	223.6	446.4
1990	2.1	(s)	2.1	53.6	29.8	6.6	7.7	44.0	[e] 13.7	[e] 0.1	96.0	R [e] 209.5	209.7	R [e] 419.2
1991	1.2	(s)	1.2	56.5	26.8	7.5	8.4	42.6	14.4	0.1	101.0	R 215.9	219.6	R 435.5
1992	1.7	0.1	1.7	64.8	27.9	7.3	8.8	43.9	15.2	0.1	101.6	R 227.4	R 216.9	R 444.3
1993	2.7	(s)	2.7	68.4	28.9	8.4	8.6	45.9	16.4	0.1	110.8	R 244.4	R 234.0	R 478.4
1994	2.7	(s)	2.8	67.7	28.6	7.1	8.9	44.6	16.1	0.1	110.4	241.6	230.1	471.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Virginia

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	512	3	515	15	1,591	97	200	275	211	2,373	6,192	–	14,784	–
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	(s)	85	35	1,396	37	245	517	380	2,576	18,201	–	43,377	–
1982	159	(s)	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	307	410	661	4,219	20,638	–	48,038	–
1985	175	1	176	34	2,460	214	319	456	443	3,892	21,496	–	50,504	–
1986	159	(s)	159	35	2,830	144	270	397	975	4,616	23,513	–	54,087	–
1987	211	(s)	211	39	2,600	197	330	508	991	4,626	24,999	–	57,121	–
1988	188	1	189	42	2,599	270	315	502	404	4,091	26,156	–	59,134	–
1989	125	(s)	126	44	2,352	280	368	503	211	3,714	27,768	–	62,275	–
1990	153	(s)	153	41	2,370	139	375	475	221	3,579	28,093	–	R 61,388	–
1991	90	(s)	90	44	2,132	148	409	341	115	3,145	29,399	–	R 63,920	–
1992	122	2	124	51	1,955	127	429	319	224	3,053	29,877	–	R 63,780	–
1993	201	(s)	201	53	2,422	159	422	121	182	3,307	R 31,436	–	R 66,391	–
1994	204	(s)	205	53	2,464	101	431	137	157	3,290	31,643	–	65,990	–
	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
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
1970	7.2	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	4.6	36.1	16.4	0.2	1.1	2.2	4.2	24.0	70.4	135.1	163.9	299.0
1985	4.3	(s)	4.4	35.3	14.3	1.2	1.1	2.4	2.8	21.9	73.3	134.9	172.3	307.2
1986	4.0	(s)	4.0	36.9	16.5	0.8	1.0	2.1	6.1	26.5	80.2	147.6	184.5	332.1
1987	5.3	(s)	5.3	41.0	15.1	1.1	1.2	2.7	6.2	26.4	85.3	157.9	194.9	352.8
1988	4.7	(s)	4.7	43.7	15.1	1.5	1.2	2.6	2.5	23.0	89.2	160.7	201.8	362.5
1989	3.1	(s)	3.1	46.0	13.7	1.6	1.4	2.6	1.3	20.6	94.7	164.5	212.5	377.0
1990	3.8	(s)	3.8	42.8	13.8	0.8	1.4	2.5	1.4	19.8	95.9	162.3	R 209.5	371.7
1991	2.3	(s)	2.3	45.9	12.4	0.8	1.5	1.8	0.7	17.3	100.3	165.7	R 218.1	383.8
1992	3.1	(s)	3.1	52.7	11.4	0.7	1.6	1.7	1.4	16.7	101.9	174.5	R 217.6	R 392.1
1993	5.0	(s)	5.0	55.2	14.1	0.9	1.5	0.6	1.1	18.3	107.3	185.8	R 226.5	R 412.4
1994	5.1	(s)	5.1	55.0	14.4	0.6	1.6	0.7	1.0	18.2	108.0	186.2	225.2	411.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Virginia

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	4,503	22	1,753	2,133	291	275	182	882	5,739	1,308	12,564	79	0	0	3,786	–	9,418	–
1965	5,824	36	2,681	2,977	600	301	236	838	6,754	2,053	16,440	87	0	0	5,834	–	13,929	–
1970	4,172	45	2,250	4,415	395	682	289	653	4,170	2,616	15,470	41	0	0	7,467	–	18,095	–
1971	3,276	48	2,786	3,703	433	703	279	560	7,282	2,058	17,804	41	0	0	7,765	–	18,774	–
1972	2,938	53	2,743	3,443	522	914	298	497	8,844	2,191	19,452	46	0	0	8,284	–	19,939	–
1973	2,715	54	3,119	3,828	277	916	404	518	9,982	2,381	21,424	44	0	0	8,851	–	21,190	–
1974	2,396	51	3,026	3,122	235	945	387	501	9,434	2,410	20,059	40	0	0	8,993	–	21,927	–
1975	2,816	37	2,328	3,128	167	1,184	307	460	7,611	2,320	17,504	38	0	0	9,437	–	22,764	–
1976	2,209	33	2,702	3,314	246	1,181	341	399	8,386	6,206	22,774	35	0	0	10,529	–	25,362	–
1977	2,285	30	2,928	3,904	206	1,327	422	385	9,205	7,368	25,744	26	0	0	10,829	–	26,148	–
1978	2,464	33	3,465	3,379	199	1,304	453	328	6,672	7,905	23,704	22	0	0	11,010	–	26,936	–
1979	3,297	42	3,249	4,257	379	1,934	474	330	6,365	9,491	26,480	28	0	0	11,678	–	28,183	–
1980	3,538	55	2,618	3,573	267	1,312	422	278	5,203	10,015	23,688	27	0	0	11,637	–	28,297	–
1981	3,985	53	2,357	3,768	216	1,210	405	232	2,736	5,992	16,916	27	0	0	11,931	–	28,435	–
1982	3,577	51	2,013	3,830	186	1,340	369	205	2,803	4,907	15,652	27	0	0	12,300	–	29,543	–
1983	4,057	47	2,823	2,990	105	1,051	387	159	2,686	4,610	14,810	27	0	0	12,733	–	30,506	–
1984	4,557	48	3,658	3,066	53	1,509	412	399	3,667	5,274	18,038	27	0	0	13,200	–	30,725	–
1985	4,219	51	4,033	3,035	207	1,707	384	686	3,408	4,895	18,355	27	0	0	13,561	–	31,861	–
1986	4,268	48	4,444	3,348	190	1,522	376	689	3,790	R 3,398	R 17,756	27	0	0	14,449	–	33,236	–
1987	4,605	56	4,406	3,497	125	1,844	425	738	2,822	R 3,563	R 17,421	27	0	0	14,899	–	34,042	–
1988	4,670	54	3,604	3,888	149	2,053	410	690	2,859	R 3,631	R 17,282	27	0	0	15,690	–	35,472	–
1989	4,512	58	4,203	3,465	140	1,930	420	768	2,911	R 3,614	R 17,451	27	0	0	16,395	–	36,769	–
1990	4,641	75	4,701	3,051	75	1,525	432	701	2,893	R 3,896	R 17,274	R f NA	f NA	f NA	16,399	–	R 35,834	–
1991	5,273	60	3,734	2,936	92	1,812	387	671	2,491	R 4,909	R 17,032	R NA	NA	NA	16,029	–	R 34,850	–
1992	4,564	69	3,759	2,527	56	1,767	394	668	2,945	R 5,196	R 17,312	R NA	NA	NA	16,714	–	R 35,680	–
1993	3,826	74	3,697	2,962	87	1,907	402	635	2,745	R 5,158	R 17,592	R NA	NA	NA	17,390	–	R 36,727	–
1994	3,807	87	3,935	2,476	101	1,877	420	666	2,499	5,275	17,250	NA	NA	NA	18,154	–	37,858	–
			Trillion Btu															
1960	114.9	23.3	11.6	12.4	1.6	1.1	1.1	4.6	36.1	7.8	76.4	0.8	0.0	0.0	12.9	228.3	32.1	260.4
1965	147.4	36.6	17.8	17.3	3.4	1.2	1.4	4.4	42.5	11.8	99.8	0.9	0.0	0.0	19.9	304.7	47.5	352.2
1970	99.3	46.0	14.9	25.7	2.2	2.6	1.8	3.4	26.2	14.9	91.7	0.4	0.0	0.0	25.5	262.9	61.7	324.7
1971	76.9	49.8	18.5	21.6	2.5	2.7	1.7	2.9	45.8	11.8	107.4	0.4	0.0	0.0	26.5	261.0	64.1	325.0
1972	68.5	54.6	18.2	20.1	3.0	3.4	1.8	2.6	55.6	12.5	117.2	0.5	0.0	0.0	28.3	269.1	68.0	337.1
1973	63.5	54.9	20.7	22.3	1.6	3.4	2.5	2.7	62.8	13.7	129.6	0.5	0.0	0.0	30.2	278.6	72.3	350.9
1974	55.6	52.4	20.1	18.2	1.3	3.5	2.3	2.6	59.3	13.8	121.2	0.4	0.0	0.0	30.7	260.3	74.8	335.1
1975	66.1	37.3	15.4	18.2	0.9	4.4	1.9	2.4	47.9	13.3	104.5	0.4	0.0	0.0	32.2	240.4	77.7	318.1
1976	52.7	33.6	17.9	19.3	1.4	4.4	2.1	2.1	52.7	35.0	134.9	0.4	0.0	0.0	35.9	257.5	86.5	344.0
1977	54.6	30.9	19.4	22.7	1.2	4.9	2.6	2.0	57.9	41.8	152.4	0.3	0.0	0.0	36.9	275.2	89.2	364.5
1978	59.9	33.8	23.0	19.7	1.1	4.8	2.7	1.7	41.9	44.9	139.9	0.2	0.0	0.0	37.6	271.4	91.9	363.3
1979	81.4	42.3	21.6	24.8	2.1	7.1	2.9	1.7	40.0	53.1	153.3	0.3	0.0	0.0	39.8	317.1	96.2	413.3
1980	88.1	55.4	17.4	20.8	1.5	4.8	2.6	1.5	32.7	55.5	136.7	0.3	0.0	0.0	39.7	320.2	96.6	416.8
1981	98.7	53.8	15.6	21.9	1.2	4.4	2.5	1.2	17.2	33.1	97.2	0.3	0.0	0.0	40.7	290.8	97.0	387.8
1982	89.0	51.9	13.4	22.3	1.1	4.8	2.2	1.1	17.6	27.2	89.7	0.3	0.0	0.0	42.0	272.8	100.8	373.6
1983	102.7	48.0	18.7	17.4	0.6	3.8	2.3	0.8	16.9	25.9	86.5	0.3	0.0	0.0	43.4	280.9	104.1	385.0
1984	115.0	49.3	24.3	17.9	0.3	5.4	2.5	2.1	23.1	28.9	104.4	0.3	0.0	0.0	45.0	314.0	104.8	418.8
1985	106.7	52.8	26.8	17.7	1.2	6.1	2.3	3.6	21.4	27.0	106.1	0.3	0.0	0.0	46.3	312.2	108.7	420.9
1986	108.3	50.3	29.5	19.5	1.1	5.5	2.3	3.6	23.8	R 19.0	R 104.3	0.3	0.0	0.0	49.3	R 312.5	113.4	R 425.9
1987	117.1	58.2	29.2	20.4	0.7	6.7	2.6	3.9	17.7	R 19.8	R 101.0	0.3	0.0	0.0	50.8	R 327.5	116.2	R 443.6
1988	118.8	55.8	23.9	22.6	0.8	7.5	2.5	3.6	18.0	R 20.3	R 99.3	0.3	0.0	0.0	53.5	R 327.7	121.0	R 448.7
1989	114.4	60.6	27.9	20.2	0.8	7.1	2.5	4.0	18.3	R 20.2	R 101.0	0.3	0.0	0.0	55.9	R 332.2	125.5	R 457.7
1990	117.9	78.3	31.2	17.8	0.4	5.5	2.6	3.7	18.2	R 21.7	R 101.2	R f 0.6	f 39.7	f 0.0	56.0	R f 393.7	R 122.3	R f 515.9
1991	134.3	62.8	24.8	17.1	0.5	6.5	2.3	3.5	15.7	R 27.3	R 97.8	R 0.6	39.6	0.0	54.7	R 389.9	118.9	R 508.8
1992	116.6	72.1	24.9	14.7	0.3	6.4	2.4	3.5	18.5	R 28.7	R 99.5	R 0.8	41.6	0.0	57.0	R 387.6	121.7	R 509.4
1993	97.7	77.4	24.5	17.3	0.5	6.9	2.4	3.3	17.3	R 28.5	R 100.7	R 0.7	38.4	0.0	59.3	R 374.2	125.3	R 499.5
1994	97.1	90.2	26.1	14.4	0.6	6.8	2.5	3.5	15.7	29.2	98.9	0.8	42.6	0.0	61.9	391.4	129.2	520.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Virginia

Year	Coal [a]	Natural Gas [b]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	79	4	382	4,099	4,441	7	451	29,972	11,780	51,134	0	0	–	0	–
1965	19	7	721	6,564	6,504	24	428	34,992	9,645	58,877	0	0	–	0	–
1970	7	8	356	7,698	11,093	47	430	47,821	12,000	79,446	0	0	–	0	–
1971	4	7	321	8,568	11,803	65	439	50,894	11,832	83,920	0	0	–	0	–
1972	3	8	322	8,798	11,662	68	470	54,309	11,043	86,672	0	0	–	0	–
1973	2	6	321	9,978	12,311	69	477	57,552	9,397	90,105	0	0	–	0	–
1974	1	4	305	9,616	11,418	64	457	57,145	7,300	86,305	0	0	–	0	–
1975	(s)	3	251	8,217	11,602	57	427	58,524	6,356	85,436	0	0	–	0	–
1976	(s)	3	228	9,319	11,954	70	475	61,703	5,873	89,622	0	0	–	0	–
1977	(s)	3	241	10,266	12,541	82	529	63,680	4,628	91,968	0	7	–	17	–
1978	0	3	255	10,814	12,339	79	569	65,939	4,292	94,287	0	11	–	27	–
1979	0 [p]	4	207	12,235	12,079	88	595	62,192	4,437	91,833	0	29	–	71	–
1980	0	8	218	11,219	12,279	47	530	58,386	4,419	87,098	0	31	–	75	–
1981	0	11	185	12,274	11,255	99	508	58,492	4,202	87,015	0	37	–	89	–
1982	0	11	180	11,241	11,090	78	463	57,804	3,057	83,913	0	36	–	85	–
1983	0	7	163	13,486	10,869	92	485	58,876	2,511	86,482	0	37	–	88	–
1984	0	7	127	14,074	10,465	141	517	61,107	2,267	88,699	0	40	–	94	–
1985	0	4	131	14,278	11,038	102	482	61,822	3,419	91,272	0	55	–	129	–
1986	0	5	155	15,477	13,228	56	471	64,100	3,003	96,490	0	68	–	157	–
1987	0	6	74	16,242	14,432	82	533	68,487	2,756	102,605	0	74	–	169	–
1988	0	8	74	18,798	15,700	98	514	69,999	2,793	107,977	0	77	–	173	–
1989	0	6	75	16,382	15,768	92	527	69,625	2,611	105,081	0	74	–	166	–
1990	0	7	70	16,930	15,806	64	542	68,752	3,362	105,525	[e] 7,882	75	–	164	–
1991	0	7	116	16,856	11,824	101	485	69,492	3,780	102,653	6,248	76	–	165	–
1992	0	6	101	16,915	11,670	103	495	70,596	2,872	102,752	7,594	78	–	166	–
1993	0	6	105	17,616	11,915	109	504	73,048	2,396	105,692	8,475	R 74	–	R 155	–
1994	0	6	101	18,887	12,003	181	527	74,271	1,977	107,946	9,400	71	–	147	–
			Trillion Btu												
1960	2.0	4.1	1.9	23.9	24.0	(s)	2.7	157.4	74.1	284.1	0.0	0.0	290.2	0.0	290.2
1965	0.5	7.0	3.6	38.2	35.8	0.1	2.6	183.8	60.6	324.8	0.0	0.0	332.2	0.0	332.2
1970	0.2	8.0	1.8	44.8	61.9	0.2	2.6	251.2	75.4	438.0	0.0	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	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	0.0	484.4	0.0	484.4
1973	(s)	6.0	1.6	58.1	68.9	0.3	2.9	302.3	59.1	493.2	0.0	0.0	499.2	0.0	499.2
1974	(s)	4.3	1.5	56.0	63.8	0.2	2.8	300.2	45.9	470.5	0.0	0.0	474.8	0.0	474.8
1975	(s)	3.1	1.3	47.9	64.9	0.2	2.6	307.4	40.0	464.3	0.0	0.0	467.4	0.0	467.4
1976	(s)	2.8	1.2	54.3	67.0	0.3	2.9	324.1	36.9	486.6	0.0	0.0	489.4	0.0	489.4
1977	(s)	2.8	1.2	59.8	70.3	0.3	3.2	334.5	29.1	498.4	0.0	(s)	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	0.0	(s)	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.1	476.1	0.3	476.4
1984	0.0	6.8	0.6	82.0	58.4	0.5	3.1	321.0	14.3	479.9	0.0	0.1	486.8	0.3	487.1
1985	0.0	4.6	0.7	83.2	61.7	0.4	2.9	324.7	21.5	495.0	0.0	0.2	499.8	0.4	500.2
1986	0.0	5.1	0.8	90.2	74.1	0.2	2.9	336.7	18.9	523.7	0.0	0.2	528.9	0.5	529.5
1987	0.0	6.6	0.4	94.6	80.9	0.3	3.2	359.8	17.3	556.5	0.0	0.3	563.3	0.6	563.9
1988	0.0	8.6	0.4	109.5	87.9	0.4	3.1	367.7	17.6	586.6	0.0	0.3	595.4	0.6	596.0
1989	0.0	6.1	0.4	95.4	88.3	0.3	3.2	365.7	16.4	569.8	0.0	0.3	576.1	0.6	576.7
1990	0.0	7.2	0.4	98.6	88.5	0.2	3.3	361.2	21.1	573.3	[e] 0.6	0.3	[e] 580.8	0.6	[e] 581.4
1991	0.0	6.9	0.6	98.2	66.7	0.4	2.9	365.0	23.8	557.6	0.5	0.3	564.8	0.6	565.3
1992	0.0	6.7	0.5	98.5	65.9	0.4	3.0	370.8	18.1	557.2	0.6	0.3	564.2	0.6	564.7
1993	0.0	6.0	0.5	102.6	67.3	0.4	3.1	383.7	15.1	572.7	0.6	0.3	578.9	0.5	R 579.4
1994	0.0	6.6	0.5	110.0	68.0	0.7	3.2	390.1	12.4	584.9	0.7	0.2	591.8	0.5	592.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Virginia

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	8,265	0	8,265	2	170	7	0	178	0	797	0	0	0	–
1970	6,644	0	6,644	4	17,085	721	856	18,662	0	650	0	0	0	–
1971	5,764	0	5,764	4	21,203	570	820	22,593	0	1,082	0	0	0	–
1972	4,880	0	4,880	5	24,625	1,144	1,046	26,815	448	1,362	0	0	0	–
1973	4,951	0	4,951	4	25,121	944	280	26,345	6,857	1,274	0	0	0	–
1974	4,469	0	4,469	5	26,863	1,547	0	28,410	5,953	1,045	0	0	0	–
1975	3,991	0	3,991	(s)	26,741	624	0	27,364	8,970	1,273	0	0	0	–
1976	5,669	0	5,669	(s)	24,948	1,006	0	25,954	7,740	853	0	0	0	–
1977	5,019	0	5,019	1	27,173	1,593	0	28,766	9,481	687	0	0	0	–
1978	4,320	0	4,320	1	26,522	1,092	0	27,614	14,098	1,264	0	0	0	–
1979	5,162	0	5,162	4	24,298	726	0	25,025	7,056	1,515	0	0	0	–
1980	5,560	0	5,560	2	14,586	793	0	15,379	11,466	864	0	0	0	–
1981	6,550	0	6,550	2	6,272	604	0	6,876	17,818	338	0	0	0	–
1982	6,596	0	6,596	3	2,999	325	0	3,324	17,420	913	0	0	0	–
1983	6,577	0	6,577	3	2,447	278	0	2,724	18,674	1,182	0	0	0	–
1984	7,323	0	7,323	3	2,316	310	0	2,626	17,045	1,154	0	0	0	–
1985	7,166	0	7,166	2	1,301	340	0	1,641	22,303	818	0	0	0	–
1986	7,345	0	7,345	1	4,635	275	0	4,909	21,215	47	0	0	0	–
1987	8,297	0	8,297	2	4,276	323	0	4,599	18,145	807	0	0	0	–
1988	8,469	0	8,469	1	4,021	336	0	4,357	21,037	-218	0	0	(s)	–
1989	9,573	0	9,573	4	6,192	594	0	6,786	14,264	401	0	0	(s)	–
1990	8,228	0	8,228	7	1,421	482	0	1,902	23,820	428	0	0	(s)	–
1991	8,568	0	8,568	9	2,810	302	0	3,112	23,886	-26	0	0	(s)	–
1992	8,661	0	8,661	11	2,041	269	0	2,310	23,334	353	0	0	(s)	–
1993	9,447	0	9,447	20	3,180	222	0	3,402	22,689	473	0	0	(s)	–
1994	8,670	0	8,670	19	3,348	489	0	3,837	25,429	329	0	0	(s)	–
					Trillion Btu									
1960	167.4	0.0	167.4	1.5	0.8	(s)	0.0	0.9	0.0	12.8	0.0	0.0	0.0	182.5
1965	218.8	0.0	218.8	2.3	1.1	(s)	0.0	1.1	0.0	8.3	0.0	0.0	0.0	230.6
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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	403.1
1984	184.9	0.0	184.9	3.3	14.6	1.8	0.0	16.4	184.8	12.1	0.0	0.0	0.0	401.4
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	0.0	445.1
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	0.0	450.0
1987	212.7	0.0	212.7	1.8	26.9	1.9	0.0	28.8	195.5	8.4	0.0	0.0	0.0	447.1
1988	216.8	0.0	216.8	1.2	25.3	2.0	0.0	27.2	226.0	-2.3	0.0	0.0	(s)	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	0.0	(s)	446.5
1990	209.2	0.0	209.2	6.8	8.9	2.8	0.0	11.7	254.4	4.4	0.0	0.0	(s)	486.6
1991	218.8	0.0	218.8	9.9	17.7	1.8	0.0	19.4	256.5	-0.3	0.0	0.0	(s)	504.4
1992	222.3	0.0	222.3	11.5	12.8	1.6	0.0	14.4	249.2	3.6	0.0	0.0	(s)	500.9
1993	242.2	0.0	242.2	20.5	20.0	1.3	0.0	21.3	242.4	4.9	0.0	0.0	(s)	531.2
1994	221.6	0.0	221.6	19.9	21.1	2.8	0.0	23.9	271.5	3.4	0.0	0.0	(s)	540.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Washington

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	3,679	63,374	0	34,299	1	0	-17,081	–
1965	488	108	1,683	434	17,116	6,919	34	1,227	597	26,906	9,140	8,048	72,104	0	48,814	0	0	-33,455	–
1970	245	150	2,335	351	18,201	10,637	239	1,659	666	36,068	10,384	9,762	90,303	2,614	70,142	(s)	0	-60,750	–
1971	272	157	2,364	223	18,642	11,721	240	1,659	516	36,788	9,482	11,117	92,751	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	13,119	98,390	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	12,427	101,132	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	11,316	95,567	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	11,962	97,350	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	11,368	99,234	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	13,400	106,403	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	12,439	110,221	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	10,697	109,448	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	9,905	105,057	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	11,686	105,850	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	10,857	103,068	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	9,159	94,401	3,494	87,947	47	0	-43,261	–
1984	4,926	126	2,626	175	18,194	15,646	1,158	2,133	686	46,140	9,967	10,647	107,373	5,313	89,861	131	0	-53,457	–
1985	5,616	135	2,039	202	20,360	15,417	1,212	2,466	640	44,009	11,406	10,574	108,326	8,038	77,956	282	0	-33,631	–
1986	3,790	118	2,404	228	23,283	17,073	751	2,525	625	46,951	15,553	10,301	119,693	8,439	76,638	191	0	-28,660	–
1987	5,819	132	2,268	275	21,226	18,596	860	3,345	707	51,133	13,771	14,531	126,711	5,528	70,964	348	0	-7,650	–
1988	5,929	147	1,921	214	21,091	20,647	945	2,828	682	50,765	16,339	15,957	131,389	6,000	69,053	383	0	20,711	–
1989	5,843	163	2,612	188	21,037	20,592	712	3,399	699	53,788	15,820	17,595	136,443	6,118	70,636	376	0	18,249	–
1990	5,147	163	2,481	313	21,787	22,343	75	2,292	720	53,156	16,500	20,217	139,884	5,742	R NA	I NA	I NA	R -11,847	–
1991	5,461	173	2,967	268	19,958	21,306	70	2,596	644	54,221	17,398	R 19,591	R 139,019	4,230	R NA	NA	NA	R -9,970	–
1992	6,402	169	3,023	289	18,453	24,066	47	2,549	656	55,208	23,438	R 25,701	R 153,431	5,692	R NA	NA	NA	R 26,036	–
1993	5,934	198	2,941	198	15,469	22,226	63	2,582	668	57,367	15,928	R 22,248	R 139,690	7,135	R NA	NA	NA	R 37,486	–
1994	6,303	213	3,526	318	18,810	21,492	89	2,594	699	57,467	15,766	24,424	145,185	6,740	NA	NA	NA	26,593	–
			Trillion Btu																
1960	15.2	67.2	8.7	10.9	105.6	24.4	0.6	2.2	3.5	121.2	58.5	22.1	357.6	0.0	369.1	(s)	0.0	-58.3	750.8
1965	12.1	116.2	11.2	2.2	99.7	38.2	0.2	4.9	3.6	141.3	57.5	48.3	407.0	0.0	510.3	0.0	0.0	-114.1	931.5
1970	5.9	158.2	15.5	1.8	106.0	59.3	1.4	6.3	4.0	189.5	65.3	58.5	507.5	28.7	736.1	(s)	0.0	-207.3	1,229.1
1971	6.4	165.3	15.7	1.1	108.6	65.4	1.4	6.3	3.1	193.2	59.6	66.7	521.1	27.7	753.2	0.0	0.0	-218.1	1,255.5
1972	36.6	179.8	19.8	1.5	112.9	59.6	0.8	5.1	3.4	199.8	74.3	78.7	556.0	31.5	798.0	0.0	0.0	-203.9	1,398.0
1973	65.0	208.0	22.2	1.5	117.9	65.8	0.6	4.4	3.7	209.4	71.1	74.5	571.2	48.3	767.1	0.0	0.0	-224.8	1,434.7
1974	54.2	191.3	18.3	1.6	98.2	68.9	2.0	4.3	3.6	208.8	64.0	67.8	537.5	43.4	886.6	0.0	0.0	-281.4	1,431.4
1975	76.2	171.2	19.3	1.4	98.9	78.8	2.0	2.8	3.8	215.4	53.2	71.8	547.2	36.4	889.1	0.0	0.0	-325.4	1,394.8
1976	81.2	154.9	21.9	1.4	108.8	72.9	2.3	3.0	4.2	227.5	46.6	68.1	556.6	26.6	986.1	0.0	0.0	-368.2	1,437.1
1977	102.4	149.1	20.2	1.5	118.1	67.7	3.4	3.5	4.3	238.5	60.5	80.3	598.1	46.5	747.3	0.0	0.0	-194.6	1,448.8
1978	84.7	133.3	20.8	1.6	123.7	64.3	3.8	4.8	4.6	249.2	72.0	74.5	619.2	45.3	946.7	0.0	0.0	-291.0	1,538.3
1979	99.0	165.9	21.2	1.5	126.5	71.4	1.5	5.6	4.8	238.5	80.8	64.0	615.7	39.3	823.2	0.0	0.0	-152.0	1,591.2
1980	91.0	135.5	13.6	1.8	107.6	67.5	0.7	5.5	4.3	224.1	108.6	59.3	592.8	22.3	872.3	0.0	0.0	-160.2	1,553.6
1981	90.9	131.2	11.9	1.5	102.6	67.8	4.2	5.7	4.1	226.0	102.8	71.2	597.9	22.5	1,070.2	0.0	0.0	-236.9	1,675.8
1982	74.1	114.4	11.9	1.2	105.8	71.9	1.1	6.2	3.7	226.9	85.0	66.2	579.8	40.2	959.2	0.0	0.0	-183.7	1,584.0
1983	80.2	111.8	15.3	1.0	95.0	72.1	9.1	6.2	3.9	234.9	31.0	55.6	524.0	38.1	925.2	0.5	0.0	-147.6	1,532.2
1984	82.3	132.0	17.4	0.9	106.0	87.9	6.6	7.7	4.2	242.4	62.7	64.3	600.0	57.6	938.2	1.4	0.0	-182.4	1,629.0
1985	93.7	140.0	13.5	1.0	118.6	86.6	6.9	8.9	3.9	231.2	71.7	64.5	606.8	86.9	814.4	2.9	0.0	-114.8	1,629.9
1986	63.3	121.8	16.0	1.2	135.6	96.1	4.3	9.2	3.8	246.6	97.8	63.3	673.7	91.1	800.6	2.0	0.0	-97.8	1,654.7
1987	95.7	136.1	15.1	1.4	123.6	104.7	4.9	12.2	4.3	268.6	86.6	88.1	709.5	59.6	739.4	3.6	0.0	-26.1	1,717.8
1988	99.1	150.6	12.7	1.1	122.9	116.3	5.4	10.3	4.1	266.7	102.7	96.4	738.6	64.5	712.9	4.0	0.0	70.7	1,840.2
1989	96.9	168.0	17.3	1.0	122.5	116.0	4.0	12.5	4.2	282.5	99.5	105.8	765.5	65.6	728.8	3.9	0.0	62.3	1,890.9
1990	85.6	167.6	16.5	1.6	126.9	126.0	0.4	8.3	4.4	279.2	103.7	121.6	788.6	61.3	R I 883.3	I 120.8	I 0.3	R -40.4	R I 2,068.0
1991	89.2	178.4	19.7	1.4	116.3	120.2	0.4	9.4	3.9	284.8	109.4	R 117.5	R 782.9	45.4	R 911.8	119.9	0.3	R -34.0	R 2,087.9
1992	106.1	174.7	20.1	1.5	107.5	136.0	0.3	9.2	4.0	290.0	147.4	R 153.5	R 869.3	60.8	R 692.6	127.4	0.3	R 88.8	R 2,122.1
1993	97.8	205.7	19.5	1.0	90.1	125.6	0.4	9.3	4.1	301.3	100.1	R 133.1	R 784.6	76.2	R 664.0	126.1	0.3	R 127.9	R 2,072.0
1994	106.9	221.5	23.4	1.6	109.6	121.7	0.5	9.4	4.2	301.9	99.1	146.0	817.5	72.0	657.2	128.9	0.3	90.7	2,082.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Washington

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	63	0	63	8	7,303	0	347	7,650	0	0	8,755	–	21,776	–
1965	51	0	51	17	6,495	9	894	7,399	0	0	11,015	–	26,298	–
1970	12	0	12	32	7,035	115	1,145	8,296	0	0	15,355	–	37,209	–
1971	17	0	17	34	6,964	146	1,152	8,263	0	0	16,521	–	39,943	–
1972	11	0	11	39	6,658	100	877	7,634	0	0	18,945	–	45,601	–
1973	6	0	6	36	6,258	79	766	7,104	0	0	19,254	–	46,094	–
1974	5	0	5	36	4,890	229	688	5,807	0	0	19,397	–	47,294	–
1975	7	0	7	34	4,806	203	404	5,413	0	0	19,209	–	46,334	–
1976	8	0	8	32	4,963	272	412	5,647	0	0	20,311	–	48,926	–
1977	47	0	47	31	5,476	335	478	6,290	0	0	20,630	–	49,815	–
1978	64	0	64	27	5,355	354	525	6,235	0	0	21,920	–	53,627	–
1979	46	0	46	33	4,843	135	567	5,545	0	0	24,006	–	57,934	–
1980	56	0	56	30	3,422	65	626	4,113	0	0	24,445	–	59,442	–
1981	42	0	42	27	3,000	535	680	4,215	0	0	28,475	–	67,865	–
1982	58	0	58	29	3,247	72	692	4,012	0	0	29,157	–	70,030	–
1983	77	0	77	26	2,693	45	818	3,556	0	0	27,266	–	65,323	–
1984	73	0	73	29	3,044	74	481	3,599	0	0	26,725	–	62,204	–
1985	76	0	76	33	3,095	86	553	3,734	0	0	27,933	–	65,625	–
1986	31	0	31	30	3,071	50	428	3,548	0	0	26,503	–	60,965	–
1987	18	0	18	30	3,029	41	666	3,736	0	0	25,773	–	58,890	–
1988	41	(s)	41	35	3,025	59	532	3,616	0	0	27,203	–	61,500	–
1989	32	0	32	38	2,744	54	608	3,406	0	0	28,653	–	64,258	–
1990	23	0	23	40	2,998	49	657	3,704	[e] 853	[e] 94	28,809	–	R 62,953	–
1991	28	(s)	28	46	2,482	46	891	3,419	899	94	29,889	–	R 64,985	–
1992	32	(s)	32	43	1,827	29	880	2,737	945	97	28,436	–	R 60,705	–
1993	40	0	40	53	1,517	44	921	2,482	806	97	30,932	–	R 65,326	–
1994	30	0	30	53	1,523	66	944	2,532	790	98	29,673	–	61,882	–
	Trillion Btu													
1960	1.4	0.0	1.4	8.3	42.5	0.0	1.4	43.9	0.0	0.0	29.9	83.5	74.3	157.8
1965	1.2	0.0	1.2	18.7	37.8	0.1	3.6	41.5	0.0	0.0	37.6	98.9	89.7	188.6
1970	0.3	0.0	0.3	33.7	41.0	0.7	4.3	46.0	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	93.0	140.8	222.9	363.7
1984	1.7	0.0	1.7	30.6	17.7	0.4	1.7	19.9	0.0	0.0	91.2	143.3	212.2	355.5
1985	1.8	0.0	1.8	34.3	18.0	0.5	2.0	20.5	0.0	0.0	95.3	151.9	223.9	375.8
1986	0.7	0.0	0.7	31.1	17.9	0.3	1.6	19.7	0.0	0.0	90.4	141.9	208.0	349.9
1987	0.4	0.0	0.4	30.8	17.6	0.2	2.4	20.3	0.0	0.0	87.9	139.4	200.9	340.4
1988	0.9	(s)	0.9	35.9	17.6	0.3	1.9	19.9	0.0	0.0	92.8	149.5	209.8	359.3
1989	0.7	0.0	0.7	39.6	16.0	0.3	2.2	18.5	0.0	0.0	97.8	156.6	219.2	375.8
1990	0.5	0.0	0.5	41.6	17.5	0.3	2.4	20.1	[e] 17.1	[e] 0.3	98.3	R [e] 177.9	R 214.8	R [e] 392.7
1991	0.6	(s)	0.6	47.7	14.5	0.3	3.2	17.9	18.0	0.3	102.0	R 186.5	R 221.7	R 408.2
1992	0.7	(s)	0.7	44.4	10.6	0.2	3.2	14.0	18.9	0.3	97.0	R 175.4	R 207.1	R 382.5
1993	0.9	0.0	0.9	55.2	8.8	0.2	3.3	12.4	16.1	0.3	105.5	R 190.5	R 222.9	R 413.4
1994	0.7	0.0	0.7	55.3	8.9	0.4	3.4	12.7	15.8	0.3	101.2	186.0	211.1	397.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Washington

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	95	0	95	11	2,053	1	158	255	412	2,880	4,380	–	10,457	–
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	85	283	1,570	4,147	18,001	–	41,899	–
1985	140	0	140	35	4,272	206	98	357	748	5,681	18,966	–	44,560	–
1986	57	0	57	32	2,419	52	75	309	140	2,995	18,817	–	43,285	–
1987	34	0	34	32	2,331	806	118	314	55	3,622	19,700	–	45,014	–
1988	75	(s)	75	37	2,644	869	94	279	220	4,105	20,708	–	46,817	–
1989	59	0	59	39	1,708	651	107	260	71	2,796	20,639	–	46,286	–
1990	43	0	43	39	2,090	14	116	280	53	2,553	21,512	–	R 47,007	–
1991	52	(s)	52	42	1,611	17	157	189	101	2,075	21,969	–	R 47,766	–
1992	59	(s)	59	38	816	12	155	131	56	1,171	22,535	–	R 48,108	–
1993	74	0	74	44	675	13	163	48	60	958	R 22,963	–	R 48,496	–
1994	56	0	56	43	721	16	167	48	48	1,000	23,380	–	48,759	–
					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
1965	2.2	0.0	2.2	11.5	12.0	(s)	0.6	1.3	2.6	16.5	14.9	45.1	35.7	80.8
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	33.8	11.4	1.5	0.3	1.5	9.9	24.5	61.4	122.8	143.0	265.8
1985	3.3	0.0	3.3	36.9	24.9	1.2	0.4	1.9	4.7	33.0	64.7	137.9	152.0	289.9
1986	1.3	0.0	1.3	33.0	14.1	0.3	0.3	1.6	0.9	17.2	64.2	115.6	147.7	263.3
1987	0.8	0.0	0.8	33.4	13.6	4.6	0.4	1.6	0.3	20.6	67.2	122.0	153.6	275.6
1988	1.7	(s)	1.7	37.6	15.4	4.9	0.3	1.5	1.4	23.5	70.7	133.5	159.7	293.2
1989	1.3	0.0	1.3	39.7	9.9	3.7	0.4	1.4	0.4	15.8	70.4	127.3	157.9	285.2
1990	0.9	0.0	0.9	R 39.8	12.2	0.1	0.4	1.5	0.3	14.5	73.4	R 128.6	R 160.4	289.0
1991	1.2	(s)	1.2	R 43.0	9.4	0.1	0.6	1.0	0.6	11.7	75.0	R 130.8	R 163.0	293.8
1992	1.3	(s)	1.3	R 39.0	4.8	0.1	0.6	0.7	0.4	6.4	76.9	R 123.7	164.1	287.8
1993	1.7	0.0	1.7	R 45.2	3.9	0.1	0.6	0.3	0.4	5.2	78.3	R 130.5	R 165.5	295.9
1994	1.3	0.0	1.3	44.7	4.2	0.1	0.6	0.3	0.3	5.5	79.8	131.2	166.4	297.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Washington

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						
1960	420	50	1,309	5,937	105	134	158	802	7,137	3,679	19,260	195	0	0	13,975	–	34,761	–
1965	341	79	1,683	5,546	23	155	216	765	7,281	8,048	23,718	190	0	0	18,703	–	44,656	–
1970	210	93	2,335	4,986	109	274	267	551	7,874	9,762	26,157	135	0	0	25,530	–	61,857	–
1971	223	96	2,364	4,983	75	260	140	507	7,796	11,117	27,243	158	0	0	24,351	–	58,872	–
1972	145	101	2,983	5,472	36	297	150	523	10,066	13,119	32,645	166	0	0	27,947	–	67,268	–
1973	165	122	3,343	5,301	21	227	185	468	9,125	12,427	31,098	160	0	0	26,789	–	64,134	–
1974	274	108	2,758	3,958	87	301	178	424	8,329	11,316	27,352	177	0	0	29,738	–	72,510	–
1975	463	92	2,910	4,025	118	250	192	438	5,924	11,962	25,820	181	0	0	27,416	–	66,132	–
1976	665	79	3,303	4,142	93	285	214	421	4,789	11,368	24,615	167	0	0	29,616	–	71,341	–
1977	563	76	3,044	4,727	221	344	202	360	6,651	13,400	28,948	147	0	0	27,099	–	65,435	–
1978	558	68	3,127	4,995	270	589	216	370	6,028	12,439	28,035	147	0	0	31,347	–	76,690	–
1979	564	83	3,197	5,247	106	738	227	289	2,744	10,697	23,243	135	0	0	31,607	–	76,278	–
1980	332	64	2,050	4,350	37	658	202	278	6,538	9,905	24,018	129	0	0	31,366	–	76,271	–
1981	363	67	1,800	4,197	195	555	193	251	7,416	11,686	26,293	129	0	0	34,726	–	82,763	–
1982	381	47	1,792	4,469	102	739	176	275	7,887	10,857	26,297	129	0	0	28,236	–	67,818	–
1983	276	51	2,310	3,875	1,187	563	185	211	2,672	9,159	20,160	129	0	0	30,824	–	73,848	–
1984	211	63	2,626	4,380	826	1,084	197	574	6,736	10,647	27,069	129	0	0	33,344	–	77,612	–
1985	208	63	2,039	2,766	920	1,487	184	692	5,167	10,574	23,829	129	0	0	29,431	–	69,146	–
1986	372	54	2,404	3,580	649	1,738	179	740	6,480	10,301	26,073	129	0	0	30,040	–	69,100	–
1987	298	66	2,268	3,736	14	2,316	203	734	5,584	14,531	29,386	129	0	0	31,597	–	72,196	–
1988	252	69	1,921	2,889	17	1,926	196	677	6,431	15,957	30,013	129	0	0	36,909	–	83,443	–
1989	238	73	2,612	3,681	7	2,436	201	697	2,044	17,595	29,273	129	0	0	37,369	–	83,806	–
1990	229	78	2,481	4,456	11	1,226	207	654	2,017	20,217	31,269	R f NA	f NA	f NA	40,712	–	R 88,963	–
1991	197	80	2,967	3,985	7	1,302	185	793	1,340	R 19,591	R 30,170	R NA	NA	NA	40,839	–	R 88,792	–
1992	163	80	3,023	3,404	6	1,307	188	806	996	R 25,701	R 35,432	R NA	NA	NA	38,332	–	R 81,830	–
1993	174	92	2,941	2,670	6	1,285	192	526	859	R 22,248	R 30,727	R NA	NA	NA	36,563	–	R 77,218	–
1994	201	108	3,526	2,870	8	1,172	200	532	907	24,424	33,640	NA	NA	NA	34,065	–	71,041	–
			Trillion Btu															
1960	10.9	51.8	8.7	34.6	0.6	0.5	1.0	4.2	44.9	22.1	116.5	2.1	0.0	0.0	47.7	229.0	118.6	347.6
1965	8.8	85.3	11.2	32.3	0.1	0.8	1.3	4.0	45.8	48.3	143.6	2.0	0.0	0.0	63.8	303.5	152.4	455.9
1970	5.1	98.3	15.5	29.0	0.6	1.0	1.6	2.9	49.5	58.5	158.7	1.4	0.0	0.0	87.1	350.6	211.1	561.7
1971	5.3	101.3	15.7	29.0	0.4	1.0	0.9	2.7	49.0	66.7	165.3	1.7	0.0	0.0	83.1	356.7	200.9	557.5
1972	3.4	106.7	19.8	31.9	0.2	1.1	0.9	2.7	63.3	78.7	198.6	1.7	0.0	0.0	95.4	405.9	229.5	635.4
1973	3.9	127.9	22.2	30.9	0.1	0.8	1.1	2.5	57.4	74.5	189.5	1.7	0.0	0.0	91.4	414.4	218.8	633.2
1974	6.5	113.6	18.3	23.1	0.5	1.1	1.1	2.2	52.4	67.8	166.5	1.8	0.0	0.0	101.5	389.8	247.4	637.3
1975	10.9	96.0	19.3	23.4	0.7	0.9	1.2	2.3	37.2	71.8	156.8	1.9	0.0	0.0	93.5	359.2	225.6	584.8
1976	14.2	82.0	21.9	24.1	0.5	1.1	1.3	2.2	30.1	68.1	149.4	1.7	0.0	0.0	101.1	348.4	243.4	591.8
1977	12.4	79.4	20.2	27.5	1.3	1.3	1.2	1.9	41.8	80.3	175.5	1.5	0.0	0.0	92.5	361.3	223.3	584.6
1978	12.2	71.4	20.8	29.1	1.5	2.2	1.3	1.9	37.9	74.5	169.2	1.5	0.0	0.0	107.0	361.2	261.7	622.9
1979	12.5	86.8	21.2	30.6	0.6	2.7	1.4	1.5	17.2	64.0	139.2	1.4	0.0	0.0	107.8	347.7	260.3	608.0
1980	7.1	67.0	13.6	25.3	0.2	2.4	1.2	1.5	41.1	59.3	144.6	1.3	0.0	0.0	107.0	327.1	260.2	587.3
1981	7.7	70.0	11.9	24.4	1.1	2.0	1.2	1.3	46.6	71.2	159.8	1.4	0.0	0.0	118.5	357.4	282.4	639.7
1982	7.9	49.6	11.9	26.0	0.6	2.7	1.1	1.4	49.6	66.2	159.4	1.4	0.0	0.0	96.3	314.7	231.4	546.1
1983	5.6	53.1	15.3	22.6	6.7	2.0	1.1	1.1	16.8	55.6	121.3	1.4	0.0	0.0	105.2	286.4	252.0	538.4
1984	4.5	65.6	17.4	25.5	4.7	3.9	1.2	3.0	42.3	64.3	162.4	1.4	0.0	0.0	113.8	347.6	264.8	612.4
1985	4.5	65.7	13.5	16.1	5.2	5.4	1.1	3.6	32.5	64.5	141.9	1.4	0.0	0.0	100.4	313.9	235.9	549.8
1986	7.4	55.6	16.0	20.9	3.7	6.3	1.1	3.9	40.7	63.3	155.8	1.4	0.0	0.0	102.5	322.6	235.8	558.4
1987	5.9	67.9	15.1	21.8	0.1	8.5	1.2	3.9	35.1	88.1	173.7	1.3	0.0	0.0	107.8	356.6	246.3	602.9
1988	5.3	71.2	12.7	16.8	0.1	7.0	1.2	3.6	40.4	96.4	178.2	1.3	0.0	0.0	125.9	382.0	284.7	666.7
1989	4.9	75.6	17.3	21.4	(s)	9.0	1.2	3.7	12.9	105.8	171.3	1.3	0.0	0.0	127.5	380.7	285.9	666.6
1990	5.2	80.8	16.5	26.0	0.1	4.4	1.3	3.4	12.7	121.6	185.9	R f 3.1	f 95.5	f 0.0	138.9	R f 509.4	303.5	R f 812.9
1991	4.3	82.2	19.7	23.2	(s)	4.7	1.1	4.2	8.4	R 117.5	R 178.8	R 3.2	95.2	0.0	139.3	R 503.0	R 303.0	R 806.0
1992	3.4	82.4	20.1	19.8	(s)	4.7	1.1	4.2	6.3	R 153.5	R 209.8	R 3.7	100.1	0.0	130.8	R 530.1	R 279.2	R 809.3
1993	3.5	95.7	19.5	15.6	(s)	4.6	1.2	2.8	5.4	R 133.1	R 182.2	R 3.4	100.6	0.0	124.8	R 510.2	R 263.5	R 773.7
1994	3.9	112.0	23.4	16.7	(s)	4.3	1.2	2.8	5.7	146.0	200.2	3.9	103.2	0.0	116.2	539.4	242.4	781.8

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Washington

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	7	(s)	2,161	2,574	4,502	6	413	22,052	1,707	33,415	0	1	–	3	–
1965	1	1	434	3,022	6,919	21	381	25,886	1,443	38,104	0	1	–	4	–
1970	(s)	6	351	3,956	10,637	38	400	35,213	2,025	52,620	0	1	–	3	–
1971	(s)	6	223	4,493	11,721	43	376	35,964	1,197	54,017	0	1	–	3	–
1972	(s)	7	305	5,139	10,680	40	403	37,194	968	54,729	0	1	–	3	–
1973	(s)	7	307	6,675	11,762	35	426	39,062	1,155	59,421	0	1	–	3	–
1974	(s)	6	313	6,460	12,312	36	408	38,958	1,260	59,747	0	1	–	3	–
1975	(s)	6	274	6,616	14,036	37	428	40,196	2,109	63,696	0	2	–	4	–
1976	(s)	6	270	8,004	12,990	43	476	42,489	2,333	66,604	0	2	–	4	–
1977	(s)	6	294	8,334	12,092	50	501	44,671	2,602	68,545	0	2	–	4	–
1978	0	6	315	9,200	11,468	93	538	46,647	5,066	73,326	0	1	–	3	–
1979	0	7	299	10,078	12,693	117	563	44,747	9,448	77,945	0	2	–	4	–
1980	0	4	356	9,595	12,036	92	501	41,897	10,112	74,589	0	2	–	4	–
1981	0	2	305	9,643	12,081	210	481	42,348	8,164	73,231	0	5	–	11	–
1982	0	2	229	8,429	12,800	153	438	42,450	4,713	69,213	0	12	–	28	–
1983	0	2	200	7,985	12,830	181	459	43,993	1,642	67,290	0	12	–	29	–
1984	0	2	175	8,803	15,646	484	489	45,283	1,661	72,542	0	12	–	28	–
1985	0	3	202	10,210	15,417	329	456	42,960	5,492	75,066	0	12	–	29	–
1986	0	2	228	14,194	17,073	284	446	45,901	8,931	87,057	0	12	–	27	–
1987	0	4	275	12,113	18,596	245	504	50,086	8,131	89,949	0	12	–	27	–
1988	0	4	214	12,518	20,647	277	486	49,810	9,688	93,639	0	12	–	26	–
1989	0	4	188	12,862	20,592	248	499	52,831	13,556	100,775	0	13	–	29	–
1990	0	5	313	12,213	22,343	294	513	52,223	14,428	102,327	•63,907	14	–	30	–
1991	0	5	268	11,866	21,306	246	459	53,239	15,957	103,340	50,658	16	–	35	–
1992	0	3	289	12,394	24,066	207	468	54,271	22,385	114,079	61,569	17	–	35	–
1993	0	4	198	10,545	22,226	213	477	56,793	15,008	105,460	68,713	R15	–	R32	–
1994	0	7	318	13,685	21,492	311	498	56,886	14,810	108,001	76,215	15	–	31	–
			Trillion Btu												
1960	0.2	0.4	10.9	15.0	24.4	(s)	2.5	115.8	10.7	179.4	0.0	(s)	180.0	(s)	180.0
1965	(s)	0.7	2.2	17.6	38.2	0.1	2.3	136.0	9.1	205.4	0.0	(s)	206.2	(s)	206.2
1970	(s)	6.8	1.8	23.0	59.3	0.1	2.4	185.0	12.7	284.4	0.0	(s)	291.2	(s)	291.2
1971	(s)	6.5	1.1	26.2	65.4	0.2	2.3	188.9	7.5	291.6	0.0	(s)	298.1	(s)	298.1
1972	(s)	7.8	1.5	29.9	59.6	0.1	2.4	195.4	6.1	295.1	0.0	(s)	302.9	(s)	302.9
1973	(s)	7.7	1.5	38.9	65.8	0.1	2.6	205.2	7.3	321.4	0.0	(s)	329.2	(s)	329.2
1974	(s)	5.8	1.6	37.6	68.9	0.1	2.5	204.6	7.9	323.3	0.0	(s)	329.1	(s)	329.1
1975	(s)	6.1	1.4	38.5	78.7	0.1	2.6	211.1	13.3	345.8	0.0	(s)	351.9	(s)	351.9
1976	(s)	6.2	1.4	46.6	72.9	0.2	2.9	223.2	14.7	361.8	0.0	(s)	368.0	(s)	368.0
1977	(s)	6.5	1.5	48.5	67.7	0.2	3.0	234.7	16.4	372.0	0.0	(s)	378.5	(s)	378.5
1978	0.0	6.7	1.6	53.6	64.2	0.3	3.3	245.0	31.8	399.9	0.0	(s)	406.6	(s)	406.6
1979	0.0	7.7	1.5	58.7	71.2	0.4	3.4	235.1	59.4	429.7	0.0	(s)	437.4	(s)	437.4
1980	0.0	3.9	1.8	55.9	67.5	0.3	3.0	220.1	63.6	412.2	0.0	(s)	416.1	(s)	416.1
1981	0.0	2.4	1.5	56.2	67.8	0.8	2.9	222.5	51.3	403.0	0.0	(s)	405.4	(s)	405.4
1982	0.0	1.8	1.2	49.1	71.9	0.6	2.7	223.0	29.6	377.9	0.0	(s)	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	0.0	(s)	366.1	0.1	366.2
1984	0.0	1.9	0.9	51.3	87.9	1.7	3.0	237.9	10.4	393.1	0.0	(s)	395.1	0.1	395.2
1985	0.0	3.0	1.0	59.5	86.6	1.2	2.8	225.7	34.5	411.3	0.0	(s)	414.3	0.1	414.4
1986	0.0	2.0	1.2	82.7	96.1	1.0	2.7	241.1	56.2	480.9	0.0	(s)	483.0	0.1	483.1
1987	0.0	3.9	1.4	70.6	104.7	0.9	3.1	263.1	51.1	494.8	0.0	(s)	498.8	0.1	498.9
1988	0.0	4.1	1.1	72.9	116.3	1.0	2.9	261.6	60.9	516.8	0.0	(s)	520.9	0.1	521.0
1989	0.0	4.5	1.0	74.9	116.0	0.9	3.0	277.5	85.2	558.6	0.0	(s)	563.1	0.1	563.2
1990	0.0	R5.3	1.6	71.1	126.0	1.1	3.1	274.3	90.7	568.0	•4.9	(s)	R•573.3	0.1	R•573.4
1991	0.0	5.3	1.4	69.1	120.2	0.9	2.8	279.7	100.3	574.4	3.9	0.1	579.7	0.1	R579.9
1992	0.0	R3.3	1.5	72.2	136.0	0.8	2.8	285.1	140.7	639.0	4.7	0.1	R642.3	0.1	R642.5
1993	0.0	R4.5	1.0	61.4	125.6	0.8	2.9	298.3	94.4	584.4	5.2	0.1	R588.9	0.1	R589.0
1994	0.0	6.9	1.6	79.7	121.7	1.1	3.0	298.8	93.1	599.1	5.8	0.1	606.0	0.1	606.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

• There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Washington

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	0	0	0	0	14	2	0	16	0	34,104	1	0	0	–
1965	0	0	0	0	3	(s)	0	3	0	48,624	0	0	0	–
1970	0	0	0	0	3	(s)	0	4	2,614	70,008	(s)	0	0	–
1971	0	0	0	0	3	(s)	0	3	2,553	71,726	0	0	0	–
1972	2,002	0	2,002	0	191	(s)	0	191	2,919	76,717	0	0	0	–
1973	3,741	0	3,741	0	452	30	0	482	4,432	73,676	0	0	0	–
1974	2,925	0	2,925	0	51	5	0	55	3,889	84,726	0	0	0	–
1975	4,009	0	4,009	0	71	4	0	76	3,308	85,257	0	0	0	–
1976	4,107	0	4,107	0	40	3	0	43	2,405	94,894	0	0	0	–
1977	5,370	0	5,370	0	34	15	0	49	4,315	71,465	0	0	0	–
1978	4,233	0	4,233	(s)	31	13	0	44	4,140	91,223	0	0	0	–
1979	5,166	0	5,166	2	505	40	0	544	3,613	79,375	0	0	0	–
1980	4,950	0	4,950	1	201	31	0	232	2,041	83,841	0	0	0	–
1981	4,964	0	4,964	(s)	4	33	0	37	2,042	102,252	0	0	0	–
1982	3,844	0	3,844	(s)	(s)	23	0	23	3,631	91,629	0	0	0	–
1983	4,298	0	4,298	(s)	(s)	22	0	23	3,494	87,818	47	0	0	–
1984	4,506	0	4,506	(s)	0	17	0	17	5,313	89,732	131	0	0	–
1985	5,192	0	5,192	(s)	0	17	0	17	8,038	77,827	282	0	0	–
1986	3,329	0	3,329	(s)	1	19	0	20	8,439	76,509	191	0	0	–
1987	5,468	0	5,468	(s)	1	17	0	18	5,528	70,834	348	0	0	–
1988	5,561	0	5,561	2	1	16	0	16	6,000	68,924	383	0	0	–
1989	5,514	0	5,514	8	150	42	0	192	6,118	70,507	376	0	0	–
1990	4,852	0	4,852	(s)	1	30	0	31	5,742	R85,167	333	0	0	–
1991	5,184	0	5,184	(s)	1	15	0	16	4,230	R87,771	274	0	0	–
1992	6,148	0	6,148	5	1	12	0	13	5,692	R66,864	361	0	0	–
1993	5,646	0	5,646	5	1	62	0	62	7,135	R64,263	395	0	0	–
1994	6,016	0	6,016	2	0	12	0	12	6,740	63,602	396	0	0	–
	Trillion Btu													
1960	0.0	0.0	0.0	0.0	0.1	(s)	0.0	0.1	0.0	367.0	(s)	0.0	0.0	367.1
1965	0.0	0.0	0.0	0.0	(s)	(s)	0.0	(s)	0.0	508.3	0.0	0.0	0.0	508.3
1970	0.0	0.0	0.0	0.0	(s)	(s)	0.0	(s)	28.7	734.7	(s)	0.0	0.0	763.4
1971	0.0	0.0	0.0	0.0	(s)	(s)	0.0	(s)	27.7	751.5	0.0	0.0	0.0	779.2
1972	32.4	0.0	32.4	0.0	1.2	(s)	0.0	1.2	31.5	796.2	0.0	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	0.0	877.4
1974	47.4	0.0	47.4	0.0	0.3	(s)	0.0	0.3	43.4	884.7	0.0	0.0	0.0	975.9
1975	64.9	0.0	64.9	0.0	0.4	(s)	0.0	0.5	36.4	887.2	0.0	0.0	0.0	989.0
1976	66.5	0.0	66.5	0.0	0.3	(s)	0.0	0.3	26.6	984.3	0.0	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	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	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	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	0.0	975.8
1981	80.4	0.0	80.4	0.5	(s)	0.2	0.0	0.2	22.5	1,068.8	0.0	0.0	0.0	1,172.5
1982	62.3	0.0	62.3	0.1	(s)	0.1	0.0	0.1	40.2	957.9	0.0	0.0	0.0	1,060.6
1983	69.6	0.0	69.6	(s)	(s)	0.1	0.0	0.1	38.1	923.8	0.5	0.0	0.0	1,032.2
1984	73.0	0.0	73.0	(s)	0.0	0.1	0.0	0.1	57.6	936.8	1.4	0.0	0.0	1,068.9
1985	84.1	0.0	84.1	0.1	0.0	0.1	0.0	0.1	88.9	813.1	2.9	0.0	0.0	987.2
1986	53.9	0.0	53.9	0.1	(s)	0.1	0.0	0.1	91.1	799.2	2.0	0.0	0.0	946.5
1987	88.6	0.0	88.6	0.1	(s)	0.1	0.0	0.1	59.6	738.0	3.6	0.0	0.0	890.1
1988	91.3	0.0	91.3	1.8	(s)	0.1	0.0	0.1	64.5	711.6	4.0	0.0	0.0	873.2
1989	90.0	0.0	90.0	8.6	0.9	0.2	0.0	1.2	65.6	727.4	3.9	0.0	0.0	896.7
1990	78.9	0.0	78.9	0.2	(s)	0.2	0.0	0.2	61.3	R880.2	3.4	0.0	0.0	1,029.9
1991	83.1	0.0	83.1	0.1	(s)	0.1	0.0	0.1	45.4	R908.6	2.8	0.0	0.0	1,038.1
1992	100.7	0.0	100.7	5.7	(s)	0.1	0.0	0.1	60.8	R688.8	3.7	0.0	0.0	866.5
1993	91.7	0.0	91.7	5.1	(s)	0.4	0.0	0.4	76.2	R660.6	4.1	0.0	0.0	832.7
1994	101.1	0.0	101.1	2.6	0.0	0.1	0.0	0.1	72.0	653.3	4.1	0.0	0.0	826.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of net imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, West Virginia

Year	Coal [a]	Natural Gas [b]	Petroleum											Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	–
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	–
1970	25,376	181	863	78	3,917	290	320	1,230	684	15,831	2,065	14,523	39,801	0	996	(s)	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	392	655	18,537	1,497	14,106	46,686	0	1,138	0	0	-156,371	–
1985	34,999	117	430	39	9,718	235	696	1,157	610	18,509	970	13,876	46,239	0	1,058	0	0	-160,204	–
1986	35,097	113	565	50	7,673	219	587	1,148	597	18,653	1,182	16,193	46,866	0	1,051	0	0	-158,356	–
1987	34,890	115	537	35	8,999	211	520	1,202	674	19,293	541	16,357	48,369	0	1,005	0	0	-155,566	–
1988	36,527	122	879	38	9,067	248	582	1,231	650	19,770	631	16,819	49,917	0	988	0	0	-160,315	–
1989	37,289	129	812	38	10,084	380	509	1,535	667	19,475	1,056	17,079	51,636	0	1,166	0	0	-163,418	–
1990	34,896	120	728	36	9,760	273	295	1,612	687	19,530	1,285	19,421	53,627	0	I NA	I NA	I NA	R -146,338	–
1991	31,843	111	528	33	9,626	237	300	1,821	614	19,336	1,070	R 13,299	R 46,865	0	R NA	NA	NA	R -128,714	–
1992	32,019	129	550	0	9,455	271	337	1,692	626	19,865	581	R 14,304	R 47,680	0	R NA	NA	NA	R -133,073	–
1993	32,046	R 135	427	26	10,758	257	424	1,821	638	19,632	516	R 13,864	R 48,361	0	R NA	NA	NA	R -129,068	–
1994	34,767	145	692	26	11,075	225	412	1,972	666	19,967	501	14,508	50,044	0	NA	NA	NA	-147,016	–
			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
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
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	(s)	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	9.4	76.6	256.1	0.0	11.9	0.0	0.0	-533.5	763.8
1985	871.7	125.0	2.9	0.2	56.6	1.3	3.9	4.2	3.7	97.2	6.1	75.8	251.9	0.0	11.1	0.0	0.0	-546.6	713.1
1986	877.2	121.1	3.8	0.3	44.7	1.2	3.3	4.2	3.6	98.0	7.4	88.8	255.2	0.0	11.0	0.0	0.0	-540.3	724.3
1987	871.7	123.7	3.6	0.2	52.4	1.2	3.0	4.4	4.1	101.3	3.4	89.1	262.6	0.0	10.5	0.0	0.0	-530.8	737.8
1988	915.4	131.5	5.8	0.2	52.8	1.4	3.3	4.5	3.9	103.9	4.0	92.1	271.9	0.0	10.2	0.0	0.0	-547.0	782.0
1989	929.0	139.4	5.4	0.2	58.7	2.1	2.9	5.7	4.0	102.3	6.6	93.5	281.5	0.0	12.0	0.0	0.0	-557.6	804.3
1990	872.7	129.0	4.8	0.2	56.9	1.5	1.7	5.8	4.2	102.6	8.1	106.7	292.4	0.0	RI 11.9	I 9.3	I (s)	R -499.3	RI 816.0
1991	799.7	118.8	3.5	0.2	56.1	1.3	1.7	6.6	3.7	101.6	6.7	R 73.3	R 254.7	0.0	R 11.2	9.5	(s)	-439.2	R 754.7
1992	804.6	137.2	3.6	0.0	55.1	1.5	1.9	6.1	3.8	104.3	3.7	R 78.6	R 258.7	0.0	R 13.2	10.0	(s)	R -454.0	R 769.6
1993	803.5	R 144.0	2.8	0.1	62.7	1.4	2.4	6.6	3.9	103.1	3.2	R 76.0	R 262.3	0.0	R 11.5	10.3	(s)	R -440.4	R 791.1
1994	870.3	154.7	4.6	0.1	64.5	1.3	2.3	7.2	4.0	104.9	3.1	79.5	271.6	0.0	11.9	10.4	(s)	-501.6	817.1

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, West Virginia

Year	Coal: Bituminous Coal and Lignite [a]	Coal: Anthracite [a]	Coal: Total	Natural Gas [b]	Petroleum: Distillate Fuel [a]	Petroleum: Kerosene [a]	Petroleum: LPG [a]	Petroleum: Total	Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	85	0	85	50	204	148	226	578	0	0	1,714	–	4,263	–
1965	84	0	84	50	304	184	280	768	0	0	2,365	–	5,647	–
1970	67	0	67	58	250	267	266	783	0	0	3,459	–	8,383	–
1971	88	0	88	56	358	313	292	963	0	0	3,723	–	9,001	–
1972	91	0	91	60	539	313	358	1,210	0	0	4,041	–	9,726	–
1973	90	0	90	56	522	245	321	1,088	0	0	4,457	–	10,669	–
1974	154	0	154	54	482	186	309	976	0	0	4,656	–	11,351	–
1975	83	0	83	51	581	172	331	1,084	0	0	4,979	–	12,010	–
1976	66	0	66	51	792	145	331	1,268	0	0	5,285	–	12,731	–
1977	81	0	81	52	936	175	354	1,466	0	0	5,816	–	14,044	–
1978	93	0	93	53	675	154	366	1,195	0	0	6,114	–	14,958	–
1979	106	0	106	48	1,301	664	417	2,382	0	0	6,248	–	15,078	–
1980	55	0	55	48	1,169	408	395	1,973	0	0	6,606	–	16,064	–
1981	73	0	73	47	892	275	394	1,561	0	0	6,705	–	15,980	–
1982	66	1	67	43	863	312	255	1,431	0	0	6,625	–	15,911	–
1983	82	1	82	40	494	257	304	1,054	0	0	6,754	–	16,180	–
1984	75	0	75	40	506	123	202	831	0	0	6,769	–	15,755	–
1985	27	2	29	37	462	390	225	1,078	0	0	6,712	–	15,770	–
1986	39	0	39	36	558	455	228	1,241	0	0	6,983	–	16,062	–
1987	49	0	49	36	634	343	270	1,246	0	0	7,250	–	16,567	–
1988	39	(s)	39	38	573	398	335	1,306	0	0	7,549	–	17,066	–
1989	51	1	52	37	644	345	396	1,386	0	0	7,634	–	17,121	–
1990	62	(s)	63	33	574	210	416	1,200	°214	°8	7,578	–	R16,559	–
1991	33	1	34	33	537	197	394	1,128	225	8	8,106	–	R17,625	–
1992	27	5	33	35	462	245	454	1,162	237	8	8,138	–	R17,374	–
1993	32	6	38	35	568	323	483	1,374	246	8	8,682	–	R18,337	–
1994	30	(s)	30	35	584	304	487	1,375	241	8	8,663	–	18,066	–
	Trillion Btu													
1960	2.1	0.0	2.1	51.4	1.2	0.8	0.9	2.9	0.0	0.0	5.8	62.4	14.5	76.9
1965	2.1	0.0	2.1	53.2	1.8	1.0	1.1	3.9	0.0	0.0	8.1	67.3	19.3	86.5
1970	1.6	0.0	1.6	59.7	1.5	1.5	1.0	4.0	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	22.9	81.8	54.5	138.4
1982	1.6	(s)	1.6	45.0	5.0	1.8	0.9	7.7	0.0	0.0	22.6	77.0	54.3	131.3
1983	2.0	(s)	2.0	41.5	2.9	1.5	1.1	5.4	0.0	0.0	23.0	72.0	55.2	127.2
1984	1.9	0.0	1.9	41.8	2.9	0.7	0.7	4.4	0.0	0.0	23.1	71.1	53.8	124.9
1985	0.7	(s)	0.7	39.2	2.7	2.2	0.8	5.7	0.0	0.0	22.9	68.6	53.8	122.4
1986	1.0	0.0	1.0	39.0	3.3	2.6	0.8	6.7	0.0	0.0	23.8	70.5	54.8	125.3
1987	1.2	0.0	1.2	38.3	3.7	1.9	1.0	6.6	0.0	0.0	24.7	70.9	56.5	127.4
1988	1.0	(s)	1.0	40.6	3.3	2.3	1.2	6.8	0.0	0.0	25.8	74.2	58.2	132.4
1989	1.3	(s)	1.3	40.0	3.8	2.0	1.5	7.2	0.0	0.0	26.0	74.5	58.4	132.9
1990	1.6	(s)	1.6	34.9	3.3	1.2	1.5	6.0	°4.3	°(s)	25.9	R°72.7	56.5	R°129.2
1991	0.8	(s)	0.8	35.0	3.1	1.1	1.4	5.7	4.5	(s)	27.7	R73.7	60.1	R133.8
1992	0.7	0.1	0.8	37.6	2.7	1.4	1.6	5.7	4.7	(s)	27.8	R76.7	59.3	R136.0
1993	0.8	0.1	0.9	37.5	3.3	1.8	1.7	6.9	4.9	(s)	29.6	R79.9	R62.6	R142.5
1994	0.8	(s)	0.8	37.5	3.4	1.7	1.8	6.9	4.8	(s)	29.6	79.5	61.6	141.2

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

° There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, West Virginia

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	157	0	157	15	111	9	49	66	12	248	1,620	–	3,869	–
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	(s)	123	21	302	16	45	126	3	493	4,219	–	10,133	–
1983	151	(s)	152	19	532	61	54	263	1	910	4,289	–	10,277	–
1984	140	0	140	19	546	22	36	257	1	861	4,316	–	10,046	–
1985	51	1	52	17	603	129	40	307	5	1,084	4,462	–	10,483	–
1986	73	0	73	16	750	55	40	325	9	1,180	4,617	–	10,620	–
1987	91	0	91	17	451	60	48	323	4	884	4,757	–	10,870	–
1988	72	(s)	72	22	357	79	59	309	173	977	4,914	–	11,109	–
1989	96	(s)	96	23	495	76	70	309	88	1,038	5,019	–	11,255	–
1990	116	(s)	116	21	443	46	73	329	66	956	5,085	–	R 11,112	–
1991	62	(s)	62	21	517	64	70	262	51	964	5,313	–	R 11,551	–
1992	51	4	54	24	322	32	80	219	56	708	5,323	–	R 11,363	–
1993	60	4	64	24	437	36	85	20	20	597	5,572	–	R 11,768	–
1994	56	(s)	56	25	408	38	86	20	5	557	5,631	–	11,744	–
	Trillion Btu													
1960	4.0	0.0	4.0	16.0	0.4	(s)	0.2	0.3	(s)	1.0	3.9	24.9	9.6	34.5
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
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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	5.2	13.9	45.4	33.2	78.6
1982	3.0	(s)	3.0	21.5	1.8	0.1	0.2	0.7	(s)	2.7	14.4	41.7	34.6	76.2
1983	3.8	(s)	3.8	19.5	3.1	0.3	0.2	1.4	(s)	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	(s)	4.8	14.7	42.8	34.3	77.0
1985	1.3	(s)	1.3	18.4	3.5	0.7	0.1	1.6	(s)	6.0	15.2	40.9	35.8	76.7
1986	1.8	0.0	1.8	17.2	4.4	0.3	0.1	1.7	0.1	6.6	15.8	41.4	36.2	77.6
1987	2.3	0.0	2.3	18.0	2.6	0.3	0.2	1.7	(s)	4.9	16.2	41.4	37.1	78.5
1988	1.8	(s)	1.8	24.1	2.1	0.4	0.2	1.6	1.1	5.5	16.8	48.2	37.9	86.1
1989	2.4	(s)	2.4	25.1	2.9	0.4	0.3	1.6	0.6	5.7	17.1	50.3	38.4	88.7
1990	2.9	(s)	2.9	22.9	2.6	0.3	0.3	1.7	0.4	5.2	17.4	48.4	37.9	86.3
1991	1.5	(s)	1.6	22.6	3.0	0.4	0.3	1.4	0.3	5.3	18.1	47.6	39.4	87.0
1992	1.3	0.1	1.4	26.0	1.9	0.2	0.3	1.2	0.3	3.8	18.2	49.4	38.8	88.1
1993	1.5	0.1	1.6	R 26.0	2.5	0.2	0.3	0.1	0.1	3.3	19.0	49.8	R 40.2	90.0
1994	1.4	(s)	1.4	26.6	2.4	0.2	0.3	0.1	(s)	3.0	19.2	50.2	40.1	90.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, West Virginia

Year	Coal	Natural Gas [a]	Petroleum: Asphalt and Road Oil [b]	Petroleum: Distillate Fuel [b]	Petroleum: Kerosene [b]	Petroleum: LPG [b]	Petroleum: Lubricants [b]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [b]	Petroleum: Other [b,c]	Petroleum: Total	Hydroelectric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	7,802	76	918	452	120	290	372	204	1,437	4,704	8,497	540	0	0	5,915	–	14,713	–
1965	10,747	81	907	890	60	627	438	155	2,080	11,875	17,033	493	0	0	7,984	–	19,063	–
1970	10,279	93	863	1,087	39	907	500	114	1,621	14,523	19,655	558	0	0	9,426	–	22,842	–
1971	9,408	89	999	1,113	39	969	546	96	1,467	13,057	18,285	661	0	0	9,260	–	22,387	–
1972	9,760	98	1,038	1,396	54	1,076	584	87	1,088	14,970	20,294	712	0	0	9,492	–	22,847	–
1973	10,115	87	911	1,388	39	1,217	563	85	854	16,368	21,425	679	0	0	9,977	–	23,884	–
1974	9,747	88	815	1,308	129	1,386	539	94	561	17,332	22,164	671	0	0	10,271	–	25,044	–
1975	8,424	68	944	1,533	144	1,095	447	78	1,787	16,544	22,571	595	0	0	9,102	–	21,955	–
1976	8,691	65	1,056	2,031	144	1,049	496	74	3,961	12,144	20,957	606	0	0	9,816	–	23,645	–
1977	7,546	59	890	3,315	70	1,084	420	81	3,979	14,948	24,787	526	0	0	9,987	–	24,117	–
1978	6,980	61	1,155	2,488	66	934	451	64	2,722	15,873	23,752	504	0	0	10,077	–	24,653	–
1979	6,500	61	1,163	4,091	103	2,607	472	65	1,950	19,159	29,612	719	0	0	11,017	–	26,588	–
1980	6,284	59	717	3,585	51	2,955	420	81	1,458	20,395	29,663	690	0	0	10,567	–	25,695	–
1981	5,546	64	740	2,517	71	2,753	403	73	989	19,840	27,385	690	0	0	11,083	–	26,413	–
1982	4,812	53	663	2,283	115	2,363	368	65	1,388	15,069	22,313	690	0	0	9,913	–	23,809	–
1983	4,065	48	408	2,147	97	2,318	385	56	1,096	12,288	18,795	690	0	0	9,669	–	23,164	–
1984	4,980	50	478	2,202	39	134	411	118	1,497	14,106	18,983	690	0	0	10,017	–	23,316	–
1985	3,551	45	430	1,897	177	871	383	229	964	13,876	18,827	690	0	0	9,673	–	22,726	–
1986	4,195	44	565	1,879	77	860	374	229	1,173	16,193	21,349	690	0	0	9,003	–	20,710	–
1987	4,145	50	537	2,531	118	870	423	236	537	16,357	21,609	690	0	0	9,067	–	20,718	–
1988	4,713	49	879	2,586	105	814	408	236	459	16,819	22,306	690	0	0	9,925	–	22,439	–
1989	4,750	58	812	2,590	88	1,049	418	248	968	17,079	R23,253	690	0	0	10,195	–	22,863	–
1990	4,845	58	728	2,670	39	1,103	430	248	1,219	19,421	25,859	Rf NA	f NA	f NA	10,469	–	R22,878	–
1991	4,189	49	528	2,580	39	1,340	385	259	1,019	R13,299	R19,449	R NA	NA	NA	10,206	–	R22,190	–
1992	3,882	52	550	2,192	60	1,136	393	250	526	R14,304	R19,409	R NA	NA	NA	10,370	–	R22,137	–
1993	4,162	R54	427	2,729	65	1,232	400	161	496	R13,864	R19,373	R NA	NA	NA	10,187	–	R21,515	–
1994	4,363	55	692	2,962	70	1,373	418	181	496	14,508	20,701	NA	NA	NA	10,482	–	21,859	–
			Trillion Btu															
1960	204.4	78.4	6.1	2.6	0.7	1.2	2.3	1.1	9.0	27.3	50.3	5.8	0.0	0.0	20.2	359.0	50.2	409.2
1965	280.0	87.1	6.0	5.2	0.3	2.5	2.7	0.8	13.1	67.0	97.6	5.1	0.0	0.0	27.2	497.1	65.0	562.1
1970	260.2	95.7	5.7	6.3	0.2	3.4	3.0	0.6	10.2	80.4	109.9	5.9	0.0	0.0	32.2	503.9	77.9	581.8
1971	235.8	91.8	6.6	6.5	0.2	3.7	3.3	0.5	9.2	72.6	102.6	6.9	0.0	0.0	31.6	468.7	76.4	545.1
1972	245.4	100.7	6.9	8.1	0.3	4.0	3.5	0.5	6.8	83.7	113.9	7.4	0.0	0.0	32.4	499.7	78.0	577.7
1973	255.2	89.6	6.0	8.1	0.2	4.6	3.4	0.4	5.4	91.8	119.9	7.1	0.0	0.0	34.0	505.8	81.5	587.3
1974	245.5	90.0	5.4	7.6	0.7	5.2	3.3	0.5	3.5	96.9	123.1	7.0	0.0	0.0	35.0	500.6	85.4	586.1
1975	212.5	70.5	6.3	8.9	0.8	4.1	2.7	0.4	11.2	92.8	127.2	6.2	0.0	0.0	31.1	447.5	74.9	522.4
1976	223.2	67.5	7.0	11.8	0.8	3.9	3.0	0.4	24.9	68.2	120.1	6.3	0.0	0.0	33.5	450.6	80.7	531.3
1977	193.3	61.0	5.9	19.3	0.4	4.0	2.5	0.4	25.0	84.6	142.2	5.5	0.0	0.0	34.1	436.1	82.3	518.4
1978	178.5	62.6	7.7	14.5	0.4	3.4	2.7	0.3	17.1	89.9	136.1	5.2	0.0	0.0	34.4	416.8	84.1	500.9
1979	167.3	62.7	7.7	23.8	0.6	9.6	2.9	0.3	12.3	106.7	163.9	7.4	0.0	0.0	37.6	438.9	90.7	529.6
1980	162.4	61.4	4.8	20.9	0.3	10.9	2.5	0.4	9.2	112.5	161.4	7.2	0.0	0.0	36.1	428.4	87.7	516.1
1981	142.9	66.3	4.9	14.7	0.4	10.0	2.4	0.4	6.2	109.3	148.4	7.2	0.0	0.0	37.8	402.6	90.1	492.7
1982	123.6	55.5	4.4	13.3	0.7	8.5	2.2	0.3	8.7	82.8	121.0	7.2	0.0	0.0	33.8	341.1	81.2	422.4
1983	104.3	49.5	2.7	12.5	0.5	8.4	2.3	0.3	6.9	68.8	102.5	7.3	0.0	0.0	33.0	296.5	79.0	375.5
1984	127.0	52.3	3.2	12.8	0.2	0.5	2.5	0.6	9.4	76.6	105.8	7.2	0.0	0.0	34.2	326.5	79.6	406.1
1985	91.0	48.4	2.9	11.1	1.0	3.1	2.3	1.2	6.1	75.8	103.4	7.2	0.0	0.0	33.0	283.0	77.5	360.5
1986	108.4	47.0	3.8	10.9	0.4	3.1	2.3	1.2	7.4	88.8	117.9	7.2	0.0	0.0	30.7	311.2	70.7	381.9
1987	106.9	54.0	3.6	14.7	0.7	3.2	2.6	1.2	3.4	89.1	118.4	7.2	0.0	0.0	30.9	317.4	70.7	388.1
1988	121.8	52.5	5.8	15.1	0.6	3.0	2.5	1.2	2.9	92.1	123.1	7.1	0.0	0.0	33.9	338.4	76.6	415.0
1989	122.2	62.1	5.4	15.1	0.5	3.9	2.5	1.3	6.1	93.5	128.3	7.1	0.0	0.0	34.8	354.6	78.0	432.6
1990	124.3	61.7	4.8	15.6	0.2	4.0	2.6	1.3	7.7	106.7	142.9	Rf 7.4	f 4.9	f 0.0	35.7	Rf 376.9	R78.1	Rf 455.0
1991	108.1	52.2	3.5	15.0	0.2	4.8	2.3	1.4	6.4	R73.3	R107.0	R 7.5	4.9	0.0	34.8	R314.6	75.7	R390.3
1992	99.8	55.7	3.6	12.8	0.3	4.1	2.4	1.3	3.3	R78.6	R106.5	R 8.8	5.2	0.0	35.4	R311.4	75.5	R386.9
1993	107.0	R57.8	2.8	15.9	0.4	4.4	2.4	0.8	3.1	R76.0	R105.9	R 7.8	5.2	0.0	34.8	R318.5	73.4	R391.9
1994	112.1	58.3	4.6	17.3	0.4	5.0	2.5	1.0	3.1	79.5	113.3	8.1	5.4	0.0	35.8	333.1	74.6	407.7

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, West Virginia

Year	Coal [a]	Natural Gas [b]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	137	8	119	1,742	169	2	199	11,340	3	13,573	0	0	–	0	–
1965	36	18	201	1,530	130	4	198	12,541	0	14,603	0	0	–	0	–
1970	17	8	78	2,485	290	10	185	15,660	5	18,713	0	0	–	0	–
1971	12	10	67	3,056	231	11	215	16,275	0	19,856	0	0	–	0	–
1972	10	15	60	3,470	181	16	230	16,760	0	20,717	0	0	–	0	–
1973	7	18	61	3,977	179	15	222	18,056	0	22,509	0	0	–	0	–
1974	5	16	62	3,687	195	14	213	18,173	0	22,343	0	0	–	0	–
1975	1	14	58	3,589	242	14	239	19,176	0	23,318	0	0	–	0	–
1976	1	14	58	3,032	254	16	266	20,404	0	24,031	0	0	–	0	–
1977	(s)	15	61	3,700	282	18	250	21,063	0	25,375	0	0	–	0	–
1978	0	15	59	4,092	283	25	268	21,142	0	25,870	0	0	–	0	–
1979	0	17	59	4,228	322	20	281	20,370	1	25,282	0	0	–	0	–
1980	0	13	65	4,845	353	14	250	19,199	0	24,728	0	0	–	0	–
1981	0	15	32	4,500	325	32	240	18,603	0	23,732	0	0	–	0	–
1982	0	13	23	3,734	293	20	219	18,764	0	23,054	0	0	–	0	–
1983	0	9	44	6,522	277	24	229	18,367	0	25,462	0	0	–	0	–
1984	0	16	39	6,922	242	21	244	18,163	0	25,630	0	0	–	0	–
1985	0	18	39	6,386	235	22	228	17,972	(s)	24,881	0	0	–	0	–
1986	0	16	50	4,105	219	20	223	18,098	0	22,714	0	0	–	0	–
1987	0	12	35	5,000	211	14	252	18,734	0	24,246	0	0	–	0	–
1988	0	13	38	5,194	248	22	243	19,225	0	24,972	0	0	–	0	–
1989	0	11	38	5,952	380	20	249	18,918	0	25,557	0	0	–	0	–
1990	0	9	36	5,706	273	19	256	18,954	0	25,244	[e]1,366	0	–	0	–
1991	0	8	33	5,653	237	17	229	18,815	0	24,984	1,083	0	–	0	–
1992	0	17	0	6,172	271	21	234	19,396	0	26,094	1,316	0	–	0	–
1993	0	21	26	6,667	257	21	238	19,451	0	26,660	1,469	0	–	0	–
1994	0	30	26	6,697	225	26	249	19,766	0	26,989	1,629	0	–	0	–
			Trillion Btu												
1960	3.5	8.7	0.6	10.1	0.9	(s)	1.2	59.6	(s)	72.5	0.0	0.0	84.7	0.0	84.7
1965	0.9	19.3	1.0	8.9	0.7	(s)	1.2	65.9	0.0	77.7	0.0	0.0	97.9	0.0	97.9
1970	0.4	8.1	0.4	14.5	1.6	(s)	1.1	82.3	(s)	99.9	0.0	0.0	108.5	0.0	108.5
1971	0.3	10.4	0.3	17.8	1.3	(s)	1.3	85.5	0.0	106.3	0.0	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	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	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	0.0	135.8	0.0	135.8
1975	(s)	14.6	0.3	20.9	1.3	0.1	1.5	100.7	0.0	124.8	0.0	0.0	139.4	0.0	139.4
1976	(s)	14.5	0.3	17.7	1.4	0.1	1.6	107.2	0.0	128.2	0.0	0.0	142.7	0.0	142.7
1977	(s)	15.4	0.3	21.6	1.6	0.1	1.5	110.6	0.0	135.7	0.0	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	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	(s)	135.5	0.0	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	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	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	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	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	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	(s)	134.6	0.0	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	0.0	139.5	0.0	139.5
1987	0.0	13.2	0.2	29.1	1.2	0.1	1.5	98.4	0.0	130.5	0.0	0.0	143.7	0.0	143.7
1988	0.0	14.2	0.2	30.3	1.4	0.1	1.5	101.0	0.0	134.4	0.0	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	138.0	0.0	0.0	150.1	0.0	150.1
1990	0.0	9.3	0.2	33.2	1.5	0.1	1.6	99.6	0.0	136.1	[e]0.1	0.0	[e]145.5	0.0	[e]145.5
1991	0.0	8.9	0.2	32.9	1.3	0.1	1.4	98.8	0.0	134.7	0.1	0.0	143.6	0.0	143.6
1992	0.0	17.8	0.0	36.0	1.5	0.1	1.4	101.9	0.0	140.8	0.1	0.0	158.6	0.0	158.6
1993	0.0	22.6	0.1	38.8	1.4	0.1	1.4	102.2	0.0	144.1	0.1	0.0	166.7	0.0	166.7
1994	0.0	32.1	0.1	39.0	1.3	0.1	1.5	103.8	0.0	145.8	0.1	0.0	177.9	0.0	177.9

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, West Virginia

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	5,879	0	5,879	1	33	(s)	0	33	0	398	0	0	0	–
1965	8,025	0	8,025	1	61	(s)	0	62	0	336	0	0	0	–
1970	14,889	0	14,889	1	430	3	0	433	0	437	(s)	0	0	–
1971	16,338	0	16,338	(s)	408	4	0	411	0	486	0	0	0	–
1972	19,805	0	19,805	(s)	658	15	0	672	0	534	0	0	0	–
1973	23,206	0	23,206	(s)	519	16	0	535	0	497	0	0	0	–
1974	25,501	0	25,501	(s)	1,172	9	0	1,181	0	477	0	0	0	–
1975	25,805	0	25,805	(s)	708	14	0	722	0	467	0	0	0	–
1976	27,433	0	27,433	(s)	736	31	0	768	0	420	0	0	0	–
1977	27,842	0	27,842	(s)	902	15	0	917	0	417	0	0	0	–
1978	25,608	0	25,608	(s)	1,501	2	0	1,503	0	420	0	0	0	–
1979	27,373	0	27,373	(s)	785	2	0	787	0	513	0	0	0	–
1980	28,499	0	28,499	(s)	0	683	0	683	0	424	0	0	0	–
1981	30,139	0	30,139	(s)	0	826	0	826	0	400	0	0	0	–
1982	27,796	0	27,796	(s)	0	522	0	522	0	428	0	0	0	–
1983	28,970	0	28,970	(s)	0	418	0	418	0	419	0	0	0	–
1984	31,058	0	31,058	(s)	0	383	0	383	0	448	0	0	0	–
1985	31,367	0	31,367	(s)	0	369	0	369	0	368	0	0	0	–
1986	30,790	0	30,790	(s)	0	381	0	381	0	361	0	0	0	–
1987	30,605	0	30,605	(s)	0	383	0	383	0	315	0	0	0	–
1988	31,704	0	31,704	(s)	0	356	0	356	0	297	0	0	0	–
1989	32,391	0	32,391	(s)	0	402	0	402	0	476	0	0	0	–
1990	29,873	0	29,873	(s)	0	368	0	368	0	435	0	0	0	–
1991	27,557	0	27,557	(s)	0	340	0	340	0	356	0	0	0	–
1992	28,050	0	28,050	(s)	0	307	0	307	0	423	0	0	0	–
1993	27,782	0	27,782	(s)	0	357	0	357	0	362	0	0	0	–
1994	30,318	0	30,318	(s)	0	423	0	423	0	363	0	0	0	–
									Trillion Btu					
1960	140.6	0.0	140.6	1.0	0.2	(s)	0.0	0.2	0.0	4.3	0.0	0.0	0.0	146.0
1965	190.5	0.0	190.5	1.0	0.4	(s)	0.0	0.4	0.0	3.5	0.0	0.0	0.0	195.4
1970	347.2	0.0	347.2	0.7	2.7	(s)	0.0	2.7	0.0	4.6	(s)	0.0	0.0	355.2
1971	376.7	0.0	376.7	0.4	2.6	(s)	0.0	2.6	0.0	5.1	0.0	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	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	0.0	557.3
1974	585.9	0.0	585.9	0.2	7.4	(s)	0.0	7.4	0.0	5.0	0.0	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	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	0.0	653.9
1977	648.8	0.0	648.8	(s)	5.7	0.1	0.0	5.8	0.0	4.3	0.0	0.0	0.0	659.0
1978	600.8	0.0	600.8	(s)	9.4	(s)	0.0	9.4	0.0	4.4	0.0	0.0	0.0	614.6
1979	654.2	0.0	654.2	0.1	4.9	(s)	0.0	4.9	0.0	5.3	0.0	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	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	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	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	0.0	723.0
1984	766.1	0.0	766.1	0.1	0.0	2.2	0.0	2.2	0.0	4.7	0.0	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	0.0	784.9
1986	766.0	0.0	766.0	0.3	0.0	2.2	0.0	2.2	0.0	3.8	0.0	0.0	0.0	772.3
1987	761.2	0.0	761.2	0.2	0.0	2.2	0.0	2.2	0.0	3.3	0.0	0.0	0.0	767.0
1988	790.9	0.0	790.9	0.1	0.0	2.1	0.0	2.1	0.0	3.1	0.0	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	0.0	810.4
1990	743.9	0.0	743.9	0.1	0.0	2.1	0.0	2.1	0.0	4.5	0.0	0.0	0.0	750.7
1991	689.2	0.0	689.2	0.1	0.0	2.0	0.0	2.0	0.0	3.7	0.0	0.0	0.0	695.0
1992	702.6	0.0	702.6	0.2	0.0	1.8	0.0	1.8	0.0	4.4	0.0	0.0	0.0	708.9
1993	694.0	0.0	694.0	0.1	0.0	2.1	0.0	2.1	0.0	3.7	0.0	0.0	0.0	699.9
1994	756.0	0.0	756.0	0.2	0.0	2.5	0.0	2.5	0.0	3.7	0.0	0.0	0.0	762.4

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Wisconsin

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	530	71,413	0	2,399	0	0	-185	–
1965	14,528	200	2,806	636	23,508	629	1,249	5,246	898	36,295	3,209	1,254	75,730	0	2,131	2	0	1,343	–
1970	16,899	338	4,671	332	25,841	1,603	3,002	7,679	992	45,483	2,936	1,545	94,084	157	1,904	8	0	-1,922	–
1971	15,044	348	4,461	274	26,538	1,872	2,254	7,935	975	46,818	2,155	1,874	95,156	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	2,024	98,941	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	2,074	102,201	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	2,080	98,304	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	1,968	97,926	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	1,873	106,147	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	1,840	109,077	10,945	1,821	(s)	0	1,105	–
1978	13,980	371	4,079	128	32,663	2,370	692	9,106	1,094	56,790	3,663	1,982	112,568	11,718	2,371	20	0	2,474	–
1979	15,156	368	3,316	113	32,137	2,591	221	6,888	1,145	53,781	2,478	2,113	104,782	10,403	2,294	33	0	2,368	–
1980	15,644	352	3,016	124	22,495	2,397	222	6,036	1,019	49,606	1,772	2,078	88,764	9,911	2,115	62	0	4,498	–
1981	16,186	325	1,948	108	20,968	2,282	125	4,932	977	48,233	866	2,842	83,280	9,719	2,142	57	0	8,241	–
1982	15,794	312	2,111	31	20,511	2,097	242	5,914	891	46,233	2,132	2,356	82,518	10,268	2,422	73	0	6,699	–
1983	17,407	299	2,041	113	20,465	1,843	118	5,950	933	46,837	793	2,318	81,412	9,299	2,556	59	0	6,133	–
1984	17,949	305	1,516	96	21,956	1,605	165	5,540	995	46,648	664	2,692	81,877	10,745	2,338	79	(s)	14,919	–
1985	18,034	308	1,690	102	22,605	1,663	234	5,377	927	46,545	402	2,387	81,934	10,979	2,546	88	(s)	18,817	–
1986	18,743	279	2,055	108	21,953	1,562	95	5,361	907	47,422	1,044	R 1,878	R 82,386	11,199	2,419	112	(s)	16,688	–
1987	19,652	279	2,396	83	21,150	1,448	116	5,632	1,025	47,381	1,180	R 2,012	R 82,422	11,311	1,576	154	(s)	7,366	–
1988	20,038	317	3,416	93	24,182	1,344	69	6,029	989	49,587	1,095	R 2,034	R 88,838	11,464	1,488	164	(s)	13,089	–
1989	19,922	331	3,805	129	24,281	1,343	63	6,929	1,014	49,106	1,032	R 2,012	R 89,713	10,848	1,577	181	(s)	15,787	–
1990	20,097	309	3,685	122	23,051	1,424	48	6,664	1,044	48,507	1,125	R 2,105	R 87,773	11,226	R I NA	I NA	I NA	R 12,239	–
1991	20,659	332	3,332	105	23,013	1,352	49	8,471	934	49,883	851	R 2,837	R 90,825	10,991	R NA	NA	NA	R 11,196	–
1992	20,071	332	3,105	121	22,753	1,721	51	7,780	952	50,296	854	R 3,148	R 90,780	11,207	R NA	NA	NA	R 9,889	–
1993	20,897	348	3,253	119	24,475	1,912	76	8,626	969	51,618	1,264	R 3,183	R 95,496	11,465	R NA	NA	NA	R 14,987	–
1994	21,731	356	3,521	285	26,029	1,975	58	8,957	1,013	53,067	1,287	3,196	99,388	11,516	NA	NA	NA	12,605	–
			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	3.1	393.0	0.0	25.8	0.0	0.0	-0.6	816.6
1965	347.9	204.1	18.6	3.2	136.9	3.5	7.1	21.0	5.4	190.7	20.2	6.9	413.6	0.0	22.3	(s)	0.0	4.6	992.5
1970	381.6	344.2	31.0	1.7	150.5	9.0	17.0	29.0	6.0	238.9	18.5	8.8	510.5	1.7	20.0	0.1	0.0	-6.6	1,251.5
1971	337.3	354.7	29.6	1.4	154.6	10.6	12.8	29.9	5.9	245.9	13.6	10.6	514.8	37.6	23.4	0.0	0.0	-11.1	1,256.7
1972	333.6	326.9	29.3	1.4	156.3	11.4	8.7	33.0	6.3	260.7	15.2	11.5	533.6	35.5	25.0	0.0	0.0	-5.1	1,249.7
1973	310.7	373.5	33.2	1.0	159.8	12.9	8.5	32.7	7.4	269.2	15.8	11.7	552.2	64.9	25.4	0.0	0.0	-10.9	1,315.8
1974	278.6	386.9	24.1	1.0	156.8	12.1	6.3	31.6	7.1	266.3	11.8	11.7	528.9	92.1	21.1	0.0	0.0	-6.7	1,300.9
1975	272.0	372.1	20.0	0.9	154.7	12.5	5.5	31.4	5.6	270.8	13.2	11.1	525.8	113.4	21.2	0.0	0.0	-4.6	1,299.9
1976	304.0	320.5	23.7	0.9	175.7	12.7	4.4	35.1	6.2	281.8	20.2	10.6	571.3	118.5	17.1	0.0	0.0	-7.8	1,323.5
1977	307.5	354.4	20.9	0.9	178.5	13.0	3.8	39.4	6.2	288.6	22.9	10.4	584.5	117.9	19.0	(s)	0.0	3.8	1,387.1
1978	296.1	375.3	27.1	0.6	190.3	13.4	3.9	33.4	6.6	298.3	23.0	11.2	607.9	128.2	24.6	0.2	0.0	8.4	1,440.6
1979	321.1	372.3	22.0	0.6	187.2	14.6	1.3	25.3	6.9	282.5	15.6	11.9	567.9	113.2	23.7	0.3	0.0	8.1	1,406.5
1980	327.3	354.7	20.0	0.6	131.0	13.5	1.3	22.2	6.2	260.6	11.1	11.6	478.1	108.1	22.0	0.6	0.0	15.3	1,306.2
1981	327.3	327.5	12.9	0.5	122.1	12.9	0.7	18.0	5.9	253.4	5.4	15.8	447.7	107.2	22.4	0.6	0.0	28.1	1,260.8
1982	324.1	315.8	14.0	0.2	119.5	11.8	1.4	21.4	5.4	242.9	13.4	13.1	443.0	113.7	25.3	0.8	0.0	22.9	1,245.5
1983	352.8	301.8	13.5	0.6	119.2	10.4	0.7	21.5	5.7	246.0	5.0	13.0	435.6	101.4	26.9	0.6	0.0	20.9	1,240.0
1984	363.4	307.5	10.1	0.5	127.9	9.0	0.9	19.9	6.0	245.0	4.2	14.8	438.4	116.5	24.4	0.8	(s)	50.9	1,302.0
1985	360.7	311.4	11.2	0.5	131.7	9.3	1.3	19.4	5.6	244.5	2.5	13.2	439.3	118.7	26.6	0.9	(s)	64.2	1,321.9
1986	371.4	281.6	13.6	0.5	127.9	8.8	0.5	19.5	5.5	249.1	6.6	R 10.5	R 442.5	120.9	25.3	1.2	(s)	56.9	R 1,299.9
1987	386.6	281.6	15.9	0.4	123.2	8.1	0.7	20.6	6.2	248.9	7.4	R 11.1	R 442.6	121.9	16.4	1.6	(s)	25.1	R 1,275.8
1988	394.1	319.7	22.7	0.5	140.9	7.5	0.4	22.0	6.0	260.5	6.9	R 11.3	R 478.6	123.2	15.4	1.7	(s)	44.7	R 1,377.3
1989	393.3	332.5	25.2	0.6	141.4	7.5	0.4	25.5	6.2	258.0	6.5	R 11.2	R 482.5	116.3	16.3	1.9	(s)	53.9	R 1,396.7
1990	397.1	310.9	24.5	0.6	134.3	8.0	0.3	24.2	6.3	254.8	7.1	R 11.7	R 471.7	119.9	R I 20.8	I 184.2	I 0.2	R 41.8	R I 1,545.8
1991	407.9	333.8	22.1	0.5	134.1	7.6	0.3	30.6	5.7	262.0	5.3	R 15.7	R 483.9	118.0	R 30.3	184.2	0.2	R 38.2	R 1,597.2
1992	399.2	334.6	20.6	0.6	132.5	9.7	0.3	28.2	5.8	264.2	5.4	R 17.3	R 484.6	119.7	R 32.2	193.6	0.2	R 33.7	R 1,599.3
1993	405.9	351.8	21.6	0.6	142.6	10.8	0.4	31.1	5.9	271.1	7.9	R 17.6	R 509.6	122.5	R 25.4	189.0	0.2	R 51.1	R 1,654.7
1994	426.0	359.9	23.4	1.4	151.6	11.1	0.3	32.6	6.1	278.8	8.1	17.7	531.1	122.9	30.2	196.3	0.2	43.0	1,713.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

NA=Not available.

– =Not applicable.

Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Wisconsin

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				Total
1960	960	4	964	47	11,206	1,227	2,675	15,107	0	0	5,298	–	13,178	–
1965	706	3	709	79	11,790	660	3,692	16,142	0	0	6,963	–	16,624	–
1970	452	2	453	105	11,721	1,608	5,606	18,935	0	0	9,825	–	23,810	–
1971	479	2	480	110	11,776	1,170	5,788	18,734	0	0	10,343	–	25,006	–
1972	262	1	264	105	11,872	831	6,345	19,048	0	0	11,055	–	26,609	–
1973	171	1	172	111	11,757	824	5,981	18,562	0	0	11,449	–	27,409	–
1974	173	1	174	116	11,494	605	5,730	17,829	0	0	11,513	–	28,071	–
1975	202	1	202	120	11,019	530	5,405	16,953	0	0	11,782	–	28,420	–
1976	185	1	186	123	12,530	397	5,604	18,531	0	0	12,133	–	29,227	–
1977	136	1	137	119	12,531	332	5,398	18,262	0	0	12,618	–	30,468	–
1978	100	1	100	129	12,780	363	5,219	18,362	0	0	13,046	–	31,917	–
1979	128	(s)	129	125	12,264	122	3,064	15,450	0	0	13,285	–	32,061	–
1980	18	1	18	123	8,155	124	2,983	11,261	0	0	13,597	–	33,063	–
1981	14	0	14	111	7,490	72	2,705	10,267	0	0	13,735	–	32,734	–
1982	13	1	14	118	7,565	79	2,810	10,454	0	0	13,978	–	33,574	–
1983	16	1	17	112	4,958	81	3,343	8,382	0	0	14,440	–	34,596	–
1984	43	1	44	113	5,354	137	3,266	8,758	0	0	16,025	–	37,299	–
1985	9	1	9	116	6,423	195	3,045	9,663	0	0	16,307	–	38,312	–
1986	11	1	12	111	6,426	71	3,058	9,554	0	0	16,557	–	38,085	–
1987	32	1	33	103	5,782	101	3,392	9,275	0	0	15,429	–	35,254	–
1988	27	1	28	121	6,517	54	3,488	10,058	0	0	16,383	–	37,038	–
1989	6	1	7	127	5,395	40	4,445	9,880	0	0	16,259	–	36,463	–
1990	1	1	2	114	4,634	29	4,187	8,851	[e] 734	[e] 52	16,385	–	R 35,805	–
1991	3	(s)	4	124	5,128	30	5,241	10,399	773	54	17,349	–	R 37,721	–
1992	1	(s)	2	123	4,753	29	4,950	9,732	813	55	16,615	–	R 35,469	–
1993	13	(s)	13	130	5,132	47	5,575	10,754	422	56	17,373	–	R 36,691	–
1994	18	(s)	18	128	4,799	34	5,479	10,311	414	57	17,660	–	36,830	–
									Trillion Btu					
1960	21.0	0.1	21.1	49.1	65.3	7.0	10.7	83.0	0.0	0.0	18.1	171.2	45.0	216.2
1965	15.4	0.1	15.5	80.9	68.7	3.7	14.8	87.2	0.0	0.0	23.8	207.3	56.7	264.0
1970	9.5	(s)	9.5	107.2	68.3	9.1	21.2	98.6	0.0	0.0	33.5	248.9	81.2	330.1
1971	10.0	(s)	10.0	111.8	68.6	6.6	21.8	97.1	0.0	0.0	35.3	254.2	85.3	339.6
1972	5.5	(s)	5.5	106.6	69.2	4.7	23.9	97.7	0.0	0.0	37.7	247.6	90.8	338.4
1973	3.6	(s)	3.6	112.2	68.5	4.7	22.4	95.6	0.0	0.0	39.1	250.4	93.5	343.9
1974	3.6	(s)	3.6	118.1	67.0	3.4	21.4	91.8	0.0	0.0	39.3	252.7	95.8	348.5
1975	3.8	(s)	3.8	122.4	64.2	3.0	20.1	87.3	0.0	0.0	40.2	253.7	97.0	350.7
1976	4.4	(s)	4.4	124.9	73.0	2.3	20.8	96.0	0.0	0.0	41.4	266.7	99.7	366.4
1977	3.2	(s)	3.2	121.1	73.0	1.9	19.8	94.7	0.0	0.0	43.1	262.1	104.0	366.0
1978	2.1	(s)	2.1	130.5	74.4	2.1	19.1	95.7	0.0	0.0	44.5	272.7	108.9	381.6
1979	2.6	(s)	2.6	126.3	71.4	0.7	11.3	83.4	0.0	0.0	45.3	257.7	109.4	367.1
1980	0.4	(s)	0.4	124.2	47.5	0.7	11.0	59.2	0.0	0.0	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	0.0	0.0	46.9	213.5	111.7	325.2
1982	0.3	(s)	0.3	119.6	44.1	0.4	10.2	54.7	0.0	0.0	47.7	222.3	114.6	336.8
1983	0.4	(s)	0.4	113.4	28.9	0.5	12.1	41.4	0.0	0.0	49.3	204.4	118.0	322.5
1984	1.0	(s)	1.1	113.9	31.2	0.8	11.8	43.7	0.0	0.0	54.7	213.3	127.3	340.6
1985	0.2	(s)	0.2	117.4	37.4	1.1	11.0	49.5	0.0	0.0	55.6	222.7	130.7	353.4
1986	0.3	(s)	0.3	111.9	37.4	0.4	11.1	49.0	0.0	0.0	56.5	217.6	129.9	347.6
1987	0.8	(s)	0.8	104.0	33.7	0.6	12.4	46.7	0.0	0.0	52.6	204.1	120.3	324.4
1988	0.7	(s)	0.7	122.3	38.0	0.3	12.7	51.0	0.0	0.0	55.9	229.9	126.4	356.3
1989	0.1	(s)	0.2	127.6	31.4	0.2	16.4	48.0	0.0	0.0	55.5	231.3	124.4	355.7
1990	(s)	(s)	0.1	114.7	27.0	0.2	15.2	42.3	[e] 14.7	[e] 0.2	55.9	R [e] 227.9	R 122.2	R [e] 350.0
1991	0.1	(s)	0.1	124.9	29.9	0.2	18.9	49.0	15.5	0.2	59.2	R 248.9	128.7	R 377.6
1992	(s)	(s)	(s)	124.5	27.7	0.2	17.9	45.8	16.3	0.2	56.7	R 243.5	121.0	R 364.5
1993	0.3	(s)	0.3	131.6	29.9	0.3	20.1	50.3	8.4	0.2	59.3	R 250.1	R 125.2	R 375.3
1994	0.4	(s)	0.5	129.7	28.0	0.2	19.9	48.1	8.3	0.2	60.3	246.9	125.7	372.6

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Wisconsin

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	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	–
1965	1,312	2	1,314	24	1,911	54	652	309	407	3,332	4,160	–	9,933	–
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	(s)	185	78	2,072	30	921	61	258	3,342	9,663	–	23,641	–
1979	238	(s)	238	81	1,988	10	541	60	211	2,809	10,013	–	24,165	–
1980	33	(s)	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	(s)	25	70	1,278	130	496	86	38	2,028	10,216	–	24,537	–
1983	31	(s)	31	68	3,759	8	590	269	8	4,634	10,345	–	24,785	–
1984	81	(s)	81	70	4,060	6	576	255	6	4,903	12,955	–	30,153	–
1985	16	(s)	17	73	3,172	18	537	283	106	4,117	12,087	–	28,398	–
1986	21	(s)	21	55	1,727	4	540	280	252	2,804	12,329	–	28,361	–
1987	60	(s)	60	58	1,796	5	599	283	116	2,799	12,174	–	27,816	–
1988	50	(s)	50	67	1,804	7	615	286	248	2,960	12,931	–	29,233	–
1989	11	(s)	11	70	2,016	6	784	279	299	3,384	13,122	–	29,428	–
1990	2	(s)	3	66	1,832	9	739	318	220	3,116	13,408	–	R 29,298	–
1991	6	(s)	6	72	1,960	9	925	247	179	3,319	13,997	–	R 30,432	–
1992	3	(s)	3	71	1,551	10	873	212	231	2,878	13,929	–	R 29,735	–
1993	24	(s)	24	77	1,547	11	984	50	197	2,789	14,373	–	R 30,354	–
1994	33	(s)	33	79	1,306	8	967	89	167	2,536	15,037	–	31,360	–
	Trillion Btu													
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
1965	28.6	(s)	28.6	24.0	11.1	0.3	2.6	1.6	2.6	18.2	14.2	85.0	33.9	118.9
1970	17.7	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	1.7	0.4	0.1	9.0	34.9	113.2	83.2	196.4
1982	0.6	(s)	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	(s)	0.7	68.6	21.9	(s)	2.1	1.4	0.1	25.5	35.3	130.2	84.6	214.8
1984	1.9	(s)	2.0	70.8	23.6	(s)	2.1	1.3	(s)	27.1	44.2	144.1	102.9	247.0
1985	0.4	(s)	0.4	73.5	18.5	0.1	1.9	1.5	0.7	22.7	41.2	137.9	96.9	234.8
1986	0.5	(s)	0.5	55.8	10.1	(s)	2.0	1.5	1.6	15.1	42.1	113.5	96.8	210.3
1987	1.4	(s)	1.4	58.2	10.5	(s)	2.2	1.5	0.7	14.9	41.5	116.1	94.9	211.0
1988	1.2	(s)	1.2	67.5	10.5	(s)	2.2	1.5	1.6	15.9	44.1	128.7	99.7	228.4
1989	0.3	(s)	0.3	70.4	11.7	(s)	2.9	1.5	1.9	18.0	44.8	133.5	100.4	233.9
1990	0.1	(s)	0.1	R 66.7	10.7	(s)	2.7	1.7	1.4	16.4	45.7	129.0	R 100.0	229.0
1991	0.2	(s)	0.2	72.0	11.4	(s)	3.3	1.3	1.1	17.2	47.8	137.2	103.8	241.0
1992	0.1	(s)	0.1	72.0	9.0	0.1	3.2	1.1	1.5	14.8	47.5	134.4	R 101.5	235.8
1993	0.6	(s)	0.6	R 77.9	9.0	0.1	3.5	0.3	1.2	14.1	49.0	141.7	R 103.6	245.2
1994	0.8	(s)	0.8	79.6	7.6	(s)	3.5	0.5	1.0	12.7	51.3	144.4	107.0	251.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Wisconsin

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	4,710	30	2,847	6,950	1,636	1,088	345	2,774	3,416	530	19,586	338	0	0	4,230	–	10,520	–
1965	5,789	82	2,806	7,654	535	866	405	2,541	2,371	1,254	18,433	306	0	0	6,153	–	14,691	–
1970	5,147	141	4,671	7,917	1,262	1,009	440	2,471	1,554	1,305	20,629	306	0	0	8,570	–	20,767	–
1971	3,854	156	4,461	8,000	988	1,037	385	2,277	1,298	1,670	20,116	347	0	0	8,924	–	21,574	–
1972	3,534	138	4,408	7,922	633	1,206	412	2,359	1,414	1,806	20,160	304	0	0	9,723	–	23,404	–
1973	3,064	167	5,001	7,791	607	1,592	618	2,166	1,411	1,962	21,148	336	0	0	10,093	–	24,163	–
1974	2,604	160	3,635	7,432	455	1,627	592	1,888	1,318	2,062	19,009	314	0	0	10,294	–	25,101	–
1975	2,439	152	3,019	7,150	401	1,996	426	2,027	1,105	1,932	18,055	318	0	0	10,823	–	26,106	–
1976	2,593	120	3,578	8,109	348	2,774	473	2,106	1,751	1,857	20,995	277	0	0	11,563	–	27,853	–
1977	2,414	160	3,153	8,077	305	4,231	496	1,899	1,949	1,835	21,945	271	0	0	12,266	–	29,620	–
1978	2,279	154	4,079	8,281	299	2,827	533	1,593	1,582	1,977	21,171	310	0	0	13,107	–	32,066	–
1979	2,492	137	3,316	7,694	89	3,151	558	1,455	1,393	2,072	19,727	269	0	0	13,494	–	32,565	–
1980	2,364	130	3,016	3,589	41	2,444	497	1,633	1,439	2,069	14,727	258	0	0	13,290	–	32,317	–
1981	2,304	130	1,948	3,555	48	1,558	476	1,354	763	2,802	12,505	258	0	0	14,064	–	33,517	–
1982	2,285	116	2,111	3,292	33	2,444	434	1,140	2,065	2,338	13,858	258	0	0	13,410	–	32,209	–
1983	2,265	112	2,041	3,196	29	1,806	455	1,145	666	2,318	11,656	258	0	0	14,232	–	34,098	–
1984	2,020	117	1,516	3,452	22	1,425	485	1,204	445	2,669	11,217	258	0	0	15,738	–	36,632	–
1985	2,132	115	1,690	3,074	21	1,611	452	1,137	158	2,364	10,508	258	0	0	17,195	–	40,398	–
1986	2,109	107	2,055	3,446	20	1,625	442	1,067	697	R1,878	R11,231	258	0	0	17,799	–	40,942	–
1987	1,980	113	2,396	3,098	10	1,517	500	999	1,064	R2,012	R11,595	258	0	0	17,374	–	39,697	–
1988	2,099	122	3,416	3,478	9	1,791	482	870	843	R2,034	R12,923	258	0	0	18,552	–	41,942	–
1989	2,053	127	3,805	3,362	17	1,578	494	868	729	R2,012	R12,865	258	0	0	18,995	–	42,598	–
1990	1,960	122	3,685	3,596	11	1,618	508	775	903	R2,105	R13,202	Rf NA	f NA	f NA	19,405	–	R42,404	–
1991	1,878	129	3,332	4,103	10	2,166	455	996	672	R2,837	R14,570	R NA	NA	NA	19,686	–	R42,801	–
1992	1,835	130	3,105	4,181	12	1,836	464	816	614	R3,105	R14,133	R NA	NA	NA	20,382	–	R43,510	–
1993	1,811	134	3,253	4,779	19	1,917	472	825	1,056	R3,073	R15,394	R NA	NA	NA	21,410	–	R45,217	–
1994	1,984	135	3,521	5,040	16	2,218	494	915	1,109	3,036	16,347	NA	NA	NA	22,714	–	47,369	–
			Trillion Btu															
1960	116.6	30.8	18.9	40.5	9.3	4.4	2.1	14.6	21.5	3.1	114.2	3.6	0.0	0.0	14.4	279.7	35.9	315.6
1965	142.4	83.0	18.6	44.6	3.0	3.5	2.5	13.3	14.9	6.9	107.4	3.2	0.0	0.0	21.0	357.0	50.1	407.1
1970	119.6	143.6	31.0	46.1	7.2	3.8	2.7	13.0	9.8	7.4	120.9	3.2	0.0	0.0	29.2	416.5	70.9	487.3
1971	89.0	159.0	29.6	46.6	5.6	3.9	2.3	12.0	8.2	9.4	117.5	3.6	0.0	0.0	30.4	399.6	73.6	473.2
1972	81.5	140.7	29.3	46.1	3.6	4.5	2.5	12.4	8.9	10.1	117.4	3.2	0.0	0.0	33.2	375.9	79.9	455.8
1973	70.2	169.8	33.2	45.4	3.4	6.0	3.7	11.4	8.9	11.0	123.0	3.5	0.0	0.0	34.4	401.0	82.4	483.5
1974	59.5	162.3	24.1	43.3	2.6	6.1	3.6	9.9	8.3	11.6	109.5	3.3	0.0	0.0	35.1	369.6	85.6	455.3
1975	54.7	155.5	20.0	41.6	2.3	7.4	2.6	10.6	6.9	10.9	102.5	3.3	0.0	0.0	36.9	353.0	89.1	442.1
1976	59.5	122.4	23.7	47.2	2.0	10.3	2.9	11.1	11.0	10.5	118.7	2.9	0.0	0.0	39.5	343.0	95.0	438.0
1977	55.7	162.2	20.9	47.1	1.7	15.6	3.0	10.0	12.3	10.4	120.9	2.8	0.0	0.0	41.9	383.5	101.1	484.5
1978	51.6	155.9	27.1	48.2	1.7	10.4	3.2	8.4	9.9	11.2	120.1	3.2	0.0	0.0	44.7	375.5	109.4	484.9
1979	57.2	138.8	22.0	44.8	0.5	11.6	3.4	7.6	8.8	11.6	110.3	2.8	0.0	0.0	46.0	355.1	111.1	466.3
1980	54.6	130.6	20.0	20.9	0.2	9.0	3.0	8.6	9.0	11.6	82.3	2.7	0.0	0.0	45.3	315.5	110.3	425.8
1981	52.9	130.8	12.9	20.7	0.3	5.7	2.9	7.1	4.8	15.5	69.9	2.7	0.0	0.0	48.0	304.2	114.4	418.6
1982	52.7	117.3	14.0	19.2	0.2	8.8	2.6	6.0	13.0	13.0	76.8	2.7	0.0	0.0	45.8	295.2	109.9	405.1
1983	51.7	113.5	13.5	18.6	0.2	6.5	2.8	6.0	4.2	13.0	64.8	2.7	0.0	0.0	48.6	281.3	116.3	397.7
1984	45.8	117.9	10.1	20.1	0.1	5.1	2.9	6.3	2.8	14.7	62.1	2.7	0.0	0.0	53.7	282.2	125.0	407.2
1985	49.7	116.4	11.2	17.9	0.1	5.8	2.7	6.0	1.0	13.0	57.8	2.7	0.0	0.0	58.7	285.3	137.8	423.2
1986	49.8	108.4	13.6	20.1	0.1	5.9	2.7	5.6	4.4	R10.5	R62.9	2.7	0.0	0.0	60.7	R284.4	139.7	R424.1
1987	45.8	113.8	15.9	18.0	0.1	5.5	3.0	5.2	6.7	R11.1	R65.6	2.7	0.0	0.0	59.3	R287.2	135.4	R422.6
1988	45.9	122.8	22.7	20.3	0.1	6.5	2.9	4.6	5.3	R11.3	R73.7	2.7	0.0	0.0	63.3	R308.3	143.1	R451.4
1989	46.4	128.1	25.2	19.6	0.1	5.8	3.0	4.6	4.6	R11.2	R74.1	2.7	0.0	0.0	64.8	R316.0	145.3	R461.4
1990	47.3	122.6	24.5	20.9	0.1	5.9	3.1	4.1	5.7	R11.7	R75.9	Rf 2.3	f 166.9	f 0.0	66.2	Rf 481.3	R144.7	Rf 625.9
1991	45.6	129.7	22.1	23.9	0.1	7.8	2.8	5.2	4.2	R15.7	R81.8	R2.3	166.5	0.0	67.2	R493.1	146.0	R639.2
1992	44.5	131.4	20.6	24.4	0.1	6.7	2.8	4.3	3.9	R17.1	R79.7	2.7	175.0	0.0	69.5	R503.0	R148.5	R651.4
1993	43.4	135.5	21.6	27.8	0.1	6.9	2.9	4.3	6.6	R16.9	R87.2	R2.9	177.4	0.0	73.1	R519.5	R154.3	R673.8
1994	47.9	136.7	23.4	29.4	0.1	8.1	3.0	4.8	7.0	16.7	92.4	3.2	184.3	0.0	77.5	542.0	161.6	703.6

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Wisconsin

Year	Coal [a]	Natural Gas [b]	Petroleum: Aviation Gasoline [a]	Petroleum: Distillate Fuel [a]	Petroleum: Jet Fuel [a]	Petroleum: LPG [a]	Petroleum: Lubricants [a]	Petroleum: Motor Gasoline	Petroleum: Residual Fuel [a]	Petroleum: Total	Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	83	1	427	1,773	245	23	527	30,056	378	33,430	0	0	–	0	–
1965	19	2	636	2,148	629	36	493	33,446	378	37,765	0	0	–	0	–
1970	8	7	332	4,179	1,603	74	552	42,956	6	49,703	0	0	–	0	–
1971	5	6	274	4,734	1,872	88	590	44,490	16	52,066	0	0	–	0	–
1972	4	6	279	5,075	1,910	98	632	47,212	53	55,261	0	0	–	0	–
1973	2	5	200	5,555	2,208	106	602	49,020	61	57,752	0	0	–	0	–
1974	1	5	198	5,632	2,085	104	576	48,761	79	57,435	0	0	–	0	–
1975	(s)	5	173	6,064	2,169	93	497	49,469	285	58,751	0	0	–	0	–
1976	(s)	2	172	6,852	2,168	103	552	51,484	388	61,719	0	0	–	0	–
1977	(s)	2	182	7,352	2,248	125	522	52,985	343	63,757	0	0	–	0	–
1978	0	2	128	8,263	2,370	139	561	55,137	453	67,050	0	0	–	0	–
1979	0	4	113	9,415	2,591	132	587	52,266	332	65,437	0	0	–	0	–
1980	0	8	124	8,570	2,397	84	523	47,897	235	59,829	0	0	–	0	–
1981	0	8	108	8,420	2,282	191	501	46,797	77	58,377	0	0	–	0	–
1982	0	4	31	8,119	2,097	164	457	45,007	29	55,903	0	0	–	0	–
1983	0	3	113	8,301	1,843	211	479	45,424	119	56,489	0	0	–	0	–
1984	0	3	96	8,909	1,605	272	510	45,188	214	56,794	0	0	–	0	–
1985	0	3	102	9,685	1,663	184	476	45,125	138	57,372	0	0	–	0	–
1986	0	4	108	10,094	1,562	138	465	46,074	95	58,537	0	0	–	0	–
1987	0	3	83	10,301	1,448	125	526	46,098	0	58,581	0	0	–	0	–
1988	0	4	93	12,154	1,344	135	507	48,430	5	62,668	0	0	–	0	–
1989	0	4	129	13,339	1,343	122	520	47,960	4	63,416	0	0	–	0	–
1990	0	4	122	12,875	1,424	119	535	47,414	2	62,490	[e]11,162	0	–	0	–
1991	0	4	105	11,676	1,352	139	479	48,639	(s)	62,391	8,848	0	–	0	–
1992	0	4	121	12,186	1,721	121	488	49,268	8	63,913	10,754	0	–	0	–
1993	0	4	119	12,695	1,912	150	497	50,743	11	66,327	12,002	0	–	0	–
1994	0	10	285	14,666	1,975	294	519	52,063	11	69,813	13,312	(s)	–	(s)	–
			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	0.0	180.0	0.0	180.0
1965	0.5	1.6	3.2	12.5	3.5	0.1	3.0	175.7	2.4	200.4	0.0	0.0	202.5	0.0	202.5
1970	0.2	6.7	1.7	24.3	9.0	0.3	3.3	225.7	(s)	264.4	0.0	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	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	0.0	300.7	0.0	300.7
1973	(s)	5.5	1.0	32.4	12.5	0.4	3.6	257.5	0.4	307.8	0.0	0.0	313.3	0.0	313.3
1974	(s)	5.5	1.0	32.8	11.8	0.4	3.5	256.1	0.5	306.1	0.0	0.0	311.6	0.0	311.6
1975	(s)	5.1	0.9	35.3	12.3	0.3	3.0	259.9	1.8	313.5	0.0	0.0	318.5	0.0	318.5
1976	(s)	2.3	0.9	39.9	12.3	0.4	3.4	270.4	2.4	329.7	0.0	0.0	332.0	0.0	332.0
1977	(s)	2.4	0.9	42.8	12.7	0.5	3.2	278.3	2.2	340.6	0.0	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	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	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	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	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	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	0.0	305.1	0.0	305.1
1984	0.0	3.0	0.5	51.9	9.0	1.0	3.1	237.4	1.3	304.2	0.0	0.0	307.2	0.0	307.2
1985	0.0	2.8	0.5	56.4	9.3	0.7	2.9	237.0	0.9	307.7	0.0	0.0	310.5	0.0	310.5
1986	0.0	3.8	0.5	58.8	8.8	0.5	2.8	242.0	0.6	314.1	0.0	0.0	317.8	0.0	317.8
1987	0.0	3.4	0.4	60.0	8.1	0.5	3.2	242.2	0.0	314.3	0.0	0.0	317.8	0.0	317.8
1988	0.0	4.3	0.5	70.8	7.5	0.5	3.1	254.4	(s)	336.8	0.0	0.0	341.1	0.0	341.1
1989	0.0	4.2	0.6	77.7	7.5	0.4	3.2	251.9	(s)	341.4	0.0	0.0	345.6	0.0	345.6
1990	0.0	4.4	0.6	75.0	8.0	0.4	3.2	249.1	(s)	336.4	[e]0.9	0.0	[e]340.8	0.0	[e]340.8
1991	0.0	[R]4.5	0.5	68.0	7.6	0.5	2.9	255.5	(s)	335.0	0.7	0.0	339.5	0.0	339.5
1992	0.0	4.0	0.6	71.0	9.7	0.4	3.0	258.8	0.1	343.5	0.8	0.0	347.6	0.0	347.6
1993	0.0	3.7	0.6	75.1	10.8	0.5	3.0	266.6	0.1	356.7	0.9	0.0	[R]360.4	0.0	[R]360.4
1994	0.0	10.0	1.4	85.4	11.1	1.1	3.2	273.5	0.1	375.8	1.0	(s)	385.8	(s)	385.8

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

Note: Totals may not 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. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Wisconsin

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	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	0	–
1965	6,697	0	6,697	14	53	6	0	59	0	1,825	2	0	0	–
1970	10,450	0	10,450	31	1,132	124	240	1,497	157	1,597	8	0	0	–
1971	9,814	0	9,814	29	647	118	204	970	3,469	1,883	0	0	0	–
1972	10,420	0	10,420	28	742	144	219	1,104	3,294	2,109	0	0	0	–
1973	10,080	0	10,080	30	859	497	112	1,468	5,952	2,108	0	0	0	–
1974	9,531	0	9,531	34	301	552	18	870	8,256	1,706	0	0	0	–
1975	9,716	0	9,716	20	548	578	37	1,163	10,293	1,719	0	0	0	–
1976	10,868	0	10,868	12	784	708	16	1,508	10,722	1,375	0	0	0	–
1977	11,492	0	11,492	6	1,029	696	6	1,731	10,945	1,550	(s)	0	0	–
1978	11,415	0	11,415	8	1,370	1,268	5	2,643	11,718	2,061	20	0	0	–
1979	12,297	0	12,297	21	542	776	41	1,359	10,403	2,025	33	0	0	–
1980	13,229	0	13,229	14	68	499	9	576	9,911	1,857	62	0	0	–
1981	13,841	0	13,841	7	13	351	40	404	9,719	1,884	57	0	0	–
1982	13,470	0	13,470	4	0	257	18	275	10,268	2,164	73	0	0	–
1983	15,094	0	15,094	4	0	251	0	251	9,299	2,298	59	0	0	–
1984	15,804	0	15,804	2	0	181	23	205	10,745	2,080	79	0	(s)	–
1985	15,876	0	15,876	1	0	251	24	274	10,979	2,288	88	0	(s)	–
1986	16,601	0	16,601	2	0	260	0	260	11,199	2,161	112	0	(s)	–
1987	17,579	0	17,579	2	0	173	0	173	11,311	1,319	154	0	(s)	–
1988	17,861	0	17,861	3	0	229	0	229	11,464	1,230	164	0	(s)	–
1989	17,851	0	17,851	2	0	168	0	168	10,848	1,319	181	0	(s)	–
1990	18,133	0	18,133	2	0	113	0	113	11,226	1,791	173	0	(s)	–
1991	18,771	0	18,771	3	0	147	0	147	10,991	R2,701	157	0	(s)	–
1992	18,231	0	18,231	3	0	82	43	125	11,207	R2,861	150	0	0	–
1993	19,049	0	19,049	3	0	123	110	233	11,465	2,191	220	0	0	–
1994	19,696	0	19,696	4	0	220	161	380	11,516	2,630	265	0	0	–
					Trillion Btu									
1960	125.8	0.0	125.8	2.1	0.3	(s)	0.0	0.3	0.0	22.2	0.0	0.0	0.0	150.4
1965	161.0	0.0	161.0	14.7	0.3	(s)	0.0	0.4	0.0	19.1	(s)	0.0	0.0	195.1
1970	234.6	0.0	234.6	31.2	7.1	0.7	1.4	9.3	1.7	16.8	0.1	0.0	0.0	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	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	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	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	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	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	0.0	386.0
1977	242.7	0.0	242.7	6.5	6.5	4.0	(s)	10.6	117.9	16.2	(s)	0.0	0.0	393.8
1978	238.6	0.0	238.6	8.4	8.6	7.4	(s)	16.0	128.2	21.4	0.2	0.0	0.0	412.7
1979	256.3	0.0	256.3	21.4	3.4	4.5	0.2	8.2	113.2	21.0	0.3	0.0	0.0	420.4
1980	271.5	0.0	271.5	13.8	0.4	2.9	0.1	3.4	108.1	19.3	0.6	0.0	0.0	416.8
1981	273.5	0.0	273.5	7.5	0.1	2.0	0.2	2.4	107.2	19.7	0.6	0.0	0.0	410.9
1982	270.6	0.0	270.6	4.4	0.0	1.5	0.1	1.6	113.7	22.6	0.8	0.0	0.0	413.6
1983	300.0	0.0	300.0	3.5	0.0	1.5	0.0	1.5	101.4	24.2	0.6	0.0	0.0	431.2
1984	314.6	0.0	314.6	1.9	0.0	1.1	0.1	1.2	116.5	21.7	0.8	0.0	(s)	456.8
1985	310.3	0.0	310.3	1.3	0.0	1.5	0.1	1.6	118.7	23.9	0.9	0.0	(s)	456.8
1986	320.8	0.0	320.8	1.8	0.0	1.5	0.0	1.5	120.9	22.6	1.2	0.0	(s)	468.8
1987	338.6	0.0	338.6	2.2	0.0	1.0	0.0	1.0	121.9	13.7	1.6	0.0	(s)	479.0
1988	346.2	0.0	346.2	2.7	0.0	1.3	0.0	1.3	123.2	12.7	1.7	0.0	(s)	487.9
1989	346.5	0.0	346.5	2.1	0.0	1.0	0.0	1.0	116.3	13.6	1.9	0.0	(s)	481.4
1990	349.7	0.0	349.7	2.4	0.0	0.7	0.0	0.7	119.9	18.5	1.8	0.0	(s)	492.9
1991	362.0	0.0	362.0	2.7	0.0	0.9	0.0	0.9	118.0	R28.0	1.6	0.0	(s)	514.5
1992	354.6	0.0	354.6	2.6	0.0	0.5	0.3	0.7	119.7	R29.5	1.5	0.0	0.0	510.9
1993	361.5	0.0	361.5	3.1	0.0	0.7	0.7	1.4	122.5	22.5	2.3	0.0	0.0	513.3
1994	376.8	0.0	376.8	3.9	0.0	1.3	1.0	2.2	122.9	27.0	2.7	0.0	0.0	540.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Energy Consumption Estimates by Source, 1960, 1965, 1970-1994, Wyoming

Year	Coal [a]	Natural Gas [b]	Petroleum: Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kerosene [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total	Nuclear Electric Power	Hydroelectric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
	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	–
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	–
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	2,194	203	8,196	195	2,542	22,209	0	1,286	0	3	-67,074	–
1985	23,155	82	1,676	51	7,669	154	21	1,942	189	7,669	211	2,234	21,817	0	1,068	0	3	-77,560	–
1986	19,338	75	1,604	50	6,900	144	8	2,169	185	7,152	190	2,278	20,682	0	1,140	0	1	-59,893	–
1987	24,399	82	1,469	51	8,772	202	11	2,756	209	7,261	119	2,592	23,441	0	768	0	(s)	-83,335	–
1988	25,424	82	1,046	53	9,409	193	10	2,083	202	7,436	257	3,150	23,839	0	789	0	(s)	-87,829	–
1989	23,952	82	924	39	9,782	160	6	2,462	207	7,557	31	3,195	24,361	0	680	0	(s)	-78,716	–
1990	25,514	92	955	35	9,603	143	4	1,263	213	7,064	40	3,203	22,522	0	R I NA	I NA	I NA	R -86,157	–
1991	25,150	97	1,016	28	8,813	119	9	1,228	191	7,209	40	2,142	20,797	0	R NA	NA	NA	R -83,781	–
1992	27,339	124	772	25	9,286	153	7	1,184	194	7,431	10	2,586	21,649	0	R NA	NA	NA	R -95,572	–
1993	26,171	105	756	20	10,072	140	21	1,752	198	7,570	72	2,420	23,020	0	R NA	NA	NA	R -89,659	–
1994	27,459	106	902	33	10,007	152	23	1,580	207	7,686	41	2,464	23,093	0	NA	NA	NA	-97,053	–
										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
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
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	-48.7	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	(s)	-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	1.2	15.5	121.5	0.0	13.4	0.0	(s)	-228.9	355.5
1985	405.5	86.4	11.1	0.3	44.7	0.9	0.1	7.0	1.1	40.3	1.3	13.8	120.6	0.0	11.2	0.0	(s)	-264.6	359.1
1986	336.6	78.8	10.6	0.3	40.2	0.8	(s)	7.9	1.1	37.6	1.2	14.2	114.0	0.0	11.9	0.0	(s)	-204.4	336.9
1987	428.1	86.4	9.7	0.3	51.1	1.1	0.1	10.1	1.3	38.1	0.7	15.9	128.4	0.0	8.0	0.0	(s)	-284.3	366.6
1988	445.7	86.7	6.9	0.3	54.8	1.1	0.1	7.6	1.2	39.1	1.6	19.1	131.8	0.0	8.1	0.0	(s)	-299.7	372.7
1989	421.3	86.9	6.1	0.2	57.0	0.9	(s)	9.1	1.3	39.7	0.2	19.2	133.7	0.0	7.0	0.0	(s)	-268.6	380.3
1990	458.3	101.3	6.3	0.2	55.9	0.8	(s)	4.6	1.3	37.1	0.3	19.3	125.8	0.0	I 6.7	I 2.7	I (s)	-294.0	R I 400.4
1991	449.8	103.1	6.7	0.1	51.3	0.7	0.1	4.4	1.2	37.9	0.3	13.0	115.7	0.0	7.6	2.6	(s)	-285.9	R 392.7
1992	490.8	130.7	5.1	0.1	54.1	0.9	(s)	4.3	1.2	39.0	0.1	15.5	120.3	0.0	6.5	2.8	(s)	-326.1	R 424.7
1993	466.7	110.5	5.0	0.1	58.7	0.8	0.1	6.3	1.2	39.8	0.5	14.6	127.1	0.0	8.1	2.7	(s)	R -305.9	R 408.7
1994	489.5	112.3	6.0	0.2	58.3	0.8	0.1	5.7	1.3	40.4	0.3	14.9	127.9	0.0	9.2	3.0	(s)	-331.1	410.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.
[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[g] 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.
[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
NA=Not available.
– =Not applicable.
Note: Totals may not 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. Residential Energy Consumption Estimates, 1960, 1965, 1970-1994, Wyoming

Year	Coal			Natural Gas [b]	Petroleum				Biofuels	Solar [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours				
1960	20	0	20	9	4	8	561	573	0	0	275	–	684	–
1965	15	0	15	11	7	32	532	570	0	0	442	–	1,055	–
1970	7	0	7	18	12	39	1,001	1,053	0	0	604	–	1,463	–
1971	10	0	10	19	12	44	1,100	1,157	0	0	654	–	1,581	–
1972	13	0	13	22	13	42	1,295	1,350	0	0	701	–	1,687	–
1973	8	0	8	14	17	39	1,082	1,138	0	0	785	–	1,878	–
1974	11	0	11	12	18	20	914	952	0	0	812	–	1,980	–
1975	17	0	17	12	26	11	960	997	0	0	891	–	2,149	–
1976	23	0	23	12	26	(s)	984	1,011	0	0	957	–	2,305	–
1977	45	0	45	11	30	1	968	999	0	0	1,020	–	2,463	–
1978	80	0	80	14	35	1	1,083	1,119	0	0	1,167	–	2,855	–
1979	127	0	127	14	39	9	682	730	0	0	1,318	–	3,181	–
1980	37	0	37	10	23	0	644	667	0	0	1,410	–	3,429	–
1981	40	0	40	9	26	8	719	753	0	0	1,633	–	3,892	–
1982	51	0	51	15	30	0	822	852	0	0	1,820	–	4,371	–
1983	51	0	51	14	317	3	1,006	1,326	0	0	1,816	–	4,350	–
1984	57	0	57	14	324	2	515	841	0	0	1,800	–	4,190	–
1985	37	0	37	14	50	8	496	555	0	0	1,815	–	4,263	–
1986	35	0	35	13	27	1	780	808	0	0	1,678	–	3,859	–
1987	36	0	36	11	33	2	1,324	1,359	0	0	1,635	–	3,735	–
1988	49	0	49	12	31	2	883	915	0	0	1,764	–	3,988	–
1989	48	0	48	12	33	1	591	625	0	0	1,721	–	3,860	–
1990	46	0	46	11	24	1	487	512	[e] 50	[e] 1	1,720	–	R 3,758	–
1991	48	(s)	48	12	87	3	595	685	53	1	1,819	–	R 3,956	–
1992	35	0	35	11	58	1	506	566	56	1	1,763	–	R 3,763	–
1993	65	0	65	13	51	2	452	505	51	1	1,906	–	R 4,026	–
1994	85	0	85	12	68	1	420	489	50	1	1,865	–	3,889	–
	Trillion Btu													
1960	0.4	0.0	0.4	9.1	(s)	(s)	2.3	2.3	0.0	0.0	0.9	12.8	2.3	15.1
1965	0.3	0.0	0.3	9.9	(s)	0.2	2.1	2.4	0.0	0.0	1.5	14.1	3.6	17.7
1970	0.1	0.0	0.1	18.4	0.1	0.2	3.8	4.1	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.0	0.0	3.0	18.5	7.3	25.8
1976	0.4	0.0	0.4	11.1	0.2	(s)	3.7	3.8	0.0	0.0	3.3	18.6	7.9	26.5
1977	0.8	0.0	0.8	10.5	0.2	(s)	3.6	3.7	0.0	0.0	3.5	18.5	8.4	26.9
1978	1.4	0.0	1.4	12.7	0.2	(s)	4.0	4.2	0.0	0.0	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	0.0	0.0	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	0.0	0.0	4.8	18.3	11.7	30.0
1981	0.7	0.0	0.7	9.4	0.2	(s)	2.6	2.8	0.0	0.0	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	0.0	0.0	6.2	25.5	14.9	40.4
1983	0.9	0.0	0.9	14.8	1.8	(s)	3.6	5.5	0.0	0.0	6.2	27.3	14.8	42.2
1984	1.0	0.0	1.0	14.5	1.9	(s)	1.9	3.8	0.0	0.0	6.1	25.5	14.3	39.7
1985	0.6	0.0	0.6	15.1	0.3	(s)	1.8	2.1	0.0	0.0	6.2	24.1	14.5	38.6
1986	0.6	0.0	0.6	13.4	0.2	(s)	2.8	3.0	0.0	0.0	5.7	22.7	13.2	35.9
1987	0.6	0.0	0.6	11.2	0.2	(s)	4.8	5.1	0.0	0.0	5.6	22.5	12.7	35.2
1988	0.9	0.0	0.9	12.3	0.2	(s)	3.2	3.4	0.0	0.0	6.0	22.6	13.6	36.2
1989	0.8	0.0	0.8	12.4	0.2	(s)	2.2	2.4	0.0	0.0	5.9	21.5	13.2	34.7
1990	0.9	0.0	0.9	12.6	0.1	(s)	1.8	1.9	[e] 1.0	[e] (s)	5.9	R[e] 22.3	12.8	R[e] 35.1
1991	1.1	(s)	1.1	12.7	0.5	(s)	2.2	2.7	1.1	(s)	6.2	R 23.8	13.5	R 37.3
1992	0.7	0.0	0.7	11.5	0.3	(s)	1.8	2.2	1.1	(s)	6.0	R 21.5	12.8	R 34.3
1993	1.2	0.0	1.2	13.4	0.3	(s)	1.6	1.9	1.0	(s)	6.5	R 24.0	13.7	R 37.8
1994	1.6	0.0	1.6	12.2	0.4	(s)	1.5	1.9	1.0	(s)	6.4	23.1	13.3	36.3

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.
[d] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Commercial Energy Consumption Estimates, 1960, 1965, 1970-1994, Wyoming

Year	Coal			Natural Gas [b]	Petroleum						Electricity [a]	Net Energy	Electrical System Energy Losses [c]	Total [d]
	Bituminous Coal and Lignite [a]	Anthracite [a]	Total		Distillate Fuel [a]	Kerosene [a]	LPG [a]	Motor Gasoline	Residual Fuel [a]	Total				
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			
1960	37	0	37	5	9	29	99	73	37	246	174	–	432	–
1965	28	0	28	8	16	119	94	73	40	341	594	–	1,419	–
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	91	60	20	404	2,056	–	4,786	–
1985	70	0	70	9	440	6	88	67	69	670	2,321	–	5,454	–
1986	64	0	64	8	391	1	138	121	109	759	2,248	–	5,172	–
1987	67	0	67	8	273	2	234	72	30	611	2,177	–	4,974	–
1988	90	0	90	9	269	4	156	68	119	616	2,220	–	5,018	–
1989	88	0	88	9	250	2	104	64	1	420	2,219	–	4,977	–
1990	85	0	85	8	216	1	86	74	1	377	2,319	–	R 5,068	–
1991	90	(s)	90	9	240	3	105	87	1	436	2,439	–	R 5,304	–
1992	65	0	65	8	222	(s)	89	78	0	390	2,496	–	R 5,327	–
1993	122	0	122	10	214	(s)	80	7	0	301	2,616	–	R 5,524	–
1994	157	0	157	9	233	(s)	74	7	1	315	2,572	–	5,364	–
					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
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
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	(s)	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	(s)	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	(s)	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	(s)	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	(s)	0.3	0.3	0.1	2.1	7.0	21.0	16.3	37.3
1985	1.2	0.0	1.2	9.6	2.6	(s)	0.3	0.4	0.4	3.7	7.9	22.4	18.6	41.0
1986	1.1	0.0	1.1	8.4	2.3	(s)	0.5	0.6	0.7	4.1	7.7	21.4	17.6	39.0
1987	1.2	0.0	1.2	8.9	1.6	(s)	0.9	0.4	0.2	3.0	7.4	20.5	17.0	37.5
1988	1.6	0.0	1.6	9.2	1.6	(s)	0.6	0.4	0.7	3.3	7.6	21.6	17.1	38.7
1989	1.6	0.0	1.6	9.0	1.5	(s)	0.4	0.3	(s)	2.2	7.6	20.3	17.0	37.3
1990	1.7	0.0	1.7	9.3	1.3	(s)	0.3	0.4	(s)	2.0	7.9	20.8	17.3	38.1
1991	2.1	(s)	2.1	R 9.6	1.4	(s)	0.4	0.5	(s)	2.3	8.3	22.3	18.1	40.4
1992	1.2	0.0	1.2	8.5	1.3	(s)	0.3	0.4	0.0	2.0	8.5	20.2	18.2	38.4
1993	2.3	0.0	2.3	R 10.8	1.2	(s)	0.3	(s)	0.0	1.6	8.9	23.6	18.8	42.4
1994	2.9	0.0	2.9	9.7	1.4	(s)	0.3	(s)	(s)	1.7	8.8	23.1	18.3	41.4

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[b] Includes supplemental gaseous fuels.
[c] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[d] Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.
R=Revised data.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not 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. Industrial Energy Consumption Estimates, 1960, 1965, 1970-1994, Wyoming

Year	Coal	Natural Gas [a]	Petroleum									Hydro-electric Power [b]	Biofuels	Other [b,d]	Electricity [b]	Net Energy	Electrical System Energy Losses [e]	Total
			Asphalt and Road Oil [b]	Distillate Fuel [b]	Kerosene [b]	LPG [b]	Lubricants [b]	Motor Gasoline	Residual Fuel [b]	Other [b,c]	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Million Kilowatthours						Total
1960	119	35	734	1,458	55	384	2	320	756	1,943	5,653	0	0	0	270	–	671	–
1965	124	38	743	1,790	55	496	3	510	942	2,416	6,956	0	0	0	1,285	–	3,067	–
1970	210	70	1,099	1,931	155	578	30	552	960	2,554	7,858	0	0	0	1,896	–	4,595	–
1971	172	73	1,245	2,044	162	660	3	628	888	2,355	7,986	0	0	0	1,951	–	4,718	–
1972	225	79	1,064	2,021	168	796	3	655	970	2,564	8,241	0	0	0	2,121	–	5,106	–
1973	265	72	982	2,552	164	718	4	560	1,212	3,005	9,198	0	0	0	2,313	–	5,538	–
1974	487	62	657	2,742	148	596	4	598	1,607	3,173	9,525	0	0	0	2,428	–	5,921	–
1975	640	59	606	3,596	117	569	45	591	1,881	3,157	10,562	0	0	0	2,918	–	7,038	–
1976	1,090	59	773	3,970	77	537	50	602	2,390	3,075	11,475	0	0	0	3,127	–	7,531	–
1977	1,535	57	1,297	4,665	79	521	57	766	2,351	3,438	13,174	0	0	0	3,390	–	8,185	–
1978	1,571	58	1,646	5,160	21	563	62	370	2,667	3,620	14,109	0	0	0	4,003	–	9,793	–
1979	1,690	63	1,049	6,166	50	1,199	64	358	2,897	4,103	15,886	0	0	0	4,333	–	10,457	–
1980	1,605	48	1,160	6,255	39	1,199	57	365	2,144	3,724	14,943	0	0	0	4,621	–	11,237	–
1981	1,682	49	976	5,913	61	1,063	55	269	1,981	2,240	12,558	0	0	0	4,402	–	10,490	–
1982	1,521	59	908	5,545	124	1,454	50	440	1,391	1,981	11,893	0	0	0	4,730	–	11,361	–
1983	1,688	52	396	3,133	45	1,299	53	439	287	2,462	8,112	0	0	0	4,801	–	11,501	–
1984	1,788	57	1,223	3,199	28	1,524	56	173	175	2,542	8,921	0	0	0	5,882	–	13,691	–
1985	1,875	54	1,676	2,750	7	1,312	52	530	142	2,234	8,703	0	0	0	6,212	–	14,596	–
1986	1,786	49	1,604	2,454	6	1,199	51	503	81	2,278	8,176	0	0	0	6,047	–	13,911	–
1987	1,887	57	1,469	2,653	7	1,148	58	450	89	2,592	8,464	0	0	0	6,699	–	15,306	–
1988	1,722	56	1,046	2,221	5	992	56	462	138	3,150	8,070	0	0	0	6,980	–	15,781	–
1989	1,908	57	924	2,293	3	1,731	57	481	30	3,195	8,714	0	0	0	7,293	–	16,356	–
1990	1,857	67	955	2,271	2	663	59	415	39	3,203	7,607	R f NA	f NA	f NA	7,729	–	R 16,890	–
1991	1,896	68	1,016	2,659	4	479	53	502	39	2,142	6,893	R NA	NA	NA	7,498	–	R 16,302	–
1992	2,126	97	772	2,717	6	561	54	490	10	2,586	7,196	R NA	NA	NA	7,442	–	R 15,887	–
1993	1,873	75	756	2,739	19	1,192	55	386	72	2,420	7,637	R NA	NA	NA	7,363	–	R 15,551	–
1994	1,867	79	902	2,764	22	1,047	57	416	40	2,464	7,713	NA	NA	NA	7,260	–	15,140	–
			Trillion Btu															
1960	2.4	36.1	4.9	8.5	0.3	1.5	(s)	1.7	4.8	11.7	33.3	0.0	0.0	0.0	0.9	72.8	2.3	75.1
1965	2.5	35.2	4.9	10.4	0.3	2.0	(s)	2.7	5.9	14.5	40.8	0.0	0.0	0.0	4.4	82.9	10.5	93.4
1970	4.0	71.3	7.3	11.2	0.9	2.2	0.2	2.9	6.0	15.3	46.1	0.0	0.0	0.0	6.5	127.9	15.7	143.5
1971	3.3	74.3	8.3	11.9	0.9	2.5	(s)	3.3	5.6	14.1	46.6	0.0	0.0	0.0	6.7	130.8	16.1	146.9
1972	4.2	81.4	7.1	11.8	1.0	3.0	(s)	3.4	6.1	15.4	47.7	0.0	0.0	0.0	7.2	140.6	17.4	158.0
1973	5.0	73.7	6.5	14.9	0.9	2.7	(s)	2.9	7.6	18.0	53.6	0.0	0.0	0.0	7.9	140.2	18.9	159.1
1974	9.1	62.1	4.4	16.0	0.8	2.2	(s)	3.1	10.1	19.1	55.7	0.0	0.0	0.0	8.3	135.2	20.2	155.4
1975	11.8	55.2	4.0	20.9	0.7	2.1	0.3	3.1	11.8	19.0	61.9	0.0	0.0	0.0	10.0	138.8	24.0	162.8
1976	20.1	55.9	5.1	23.1	0.4	2.0	0.3	3.2	15.0	18.5	67.6	0.0	0.0	0.0	10.7	154.3	25.7	180.0
1977	28.0	53.1	8.6	27.2	0.4	1.9	0.3	4.0	14.8	20.6	77.9	0.0	0.0	0.0	11.6	170.6	27.9	198.5
1978	28.3	52.7	10.9	30.1	0.1	2.1	0.4	1.9	16.8	21.7	84.0	0.0	0.0	0.0	13.7	178.6	33.4	212.0
1979	30.6	58.2	7.0	35.9	0.3	4.4	0.4	1.9	18.2	24.6	92.7	0.0	0.0	0.0	14.8	196.3	35.7	231.9
1980	28.8	51.1	7.7	36.4	0.2	4.4	0.3	1.9	13.5	22.4	86.9	0.0	0.0	0.0	15.8	182.6	38.3	220.9
1981	30.2	52.2	6.5	34.4	0.3	3.9	0.3	1.4	12.5	14.0	73.4	0.0	0.0	0.0	15.0	170.8	35.8	206.6
1982	27.1	58.9	6.0	32.3	0.7	5.3	0.3	2.3	8.7	12.3	68.0	0.0	0.0	0.0	16.1	170.1	38.8	208.9
1983	29.9	55.4	2.6	18.2	0.3	4.7	0.3	2.3	1.8	15.1	45.3	0.0	0.0	0.0	16.4	147.1	39.2	186.3
1984	31.3	59.9	8.1	18.6	0.2	5.5	0.3	0.9	1.1	15.5	50.3	0.0	0.0	0.0	20.1	161.6	46.7	208.3
1985	32.9	56.3	11.1	16.0	(s)	4.7	0.3	2.8	0.9	13.8	49.7	0.0	0.0	0.0	21.2	160.2	49.8	210.0
1986	31.0	51.5	10.6	14.3	(s)	4.4	0.3	2.6	0.5	14.2	47.0	0.0	0.0	0.0	20.6	150.1	47.5	197.6
1987	33.0	59.7	9.7	15.5	(s)	4.2	0.4	2.4	0.6	15.9	48.6	0.0	0.0	0.0	22.9	164.2	52.2	216.4
1988	30.6	59.2	6.9	12.9	(s)	3.6	0.3	2.4	0.9	19.1	46.3	0.0	0.0	0.0	23.8	159.8	53.8	213.7
1989	33.8	59.7	6.1	13.4	(s)	6.4	0.3	2.5	0.2	19.2	48.2	0.0	0.0	0.0	24.9	166.6	55.8	222.4
1990	41.2	73.8	6.3	13.2	(s)	2.4	0.4	2.2	0.2	19.3	44.0	f 0.0	f 1.3	f 0.0	26.4	R f 186.7	57.6	R f 244.3
1991	41.8	72.4	6.7	15.5	(s)	1.7	0.3	2.6	0.2	13.0	40.2	0.0	1.3	0.0	25.6	R 181.3	55.6	R 236.9
1992	44.9	102.3	5.1	15.8	(s)	2.0	0.3	2.6	0.1	15.5	41.5	0.0	1.3	0.0	25.4	R 215.4	54.2	R 269.6
1993	39.9	79.0	5.0	16.0	0.1	4.3	0.3	2.0	0.5	14.6	42.8	0.0	1.3	0.0	25.1	R 188.2	R 53.1	R 241.2
1994	40.6	83.6	6.0	16.1	0.1	3.8	0.3	2.2	0.3	14.9	43.7	0.0	1.6	0.0	24.8	194.2	51.7	245.9

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."
[d] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.
[e] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
[f] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.
R=Revised data.
NA=Not available.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 321. Transportation Energy Consumption Estimates, 1960, 1965, 1970-1994, Wyoming

Year	Coal [a]	Natural Gas [b]	Petroleum								Biofuels [c]	Electricity [a]	Net Energy	Electrical System Energy Losses [d]	Total
			Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	LPG [a]	Lubricants [a]	Motor Gasoline	Residual Fuel [a]	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours			
1960	2	2	132	1,801	56	70	91	4,038	951	7,138	0	0	–	0	–
1965	(s)	2	217	1,864	74	49	81	4,157	1,173	7,615	0	0	–	0	–
1970	(s)	6	256	3,072	128	91	85	5,262	469	9,363	0	0	–	0	–
1971	(s)	8	258	3,626	129	123	90	5,349	239	9,813	0	0	–	0	–
1972	(s)	6	262	3,421	163	156	97	5,819	242	10,160	0	0	–	0	–
1973	(s)	9	257	3,676	163	128	96	6,269	199	10,789	0	0	–	0	–
1974	(s)	8	245	4,286	165	117	92	6,132	219	11,258	0	0	–	0	–
1975	(s)	5	218	3,965	124	116	108	6,691	0	11,223	0	0	–	0	–
1976	(s)	7	222	4,092	130	136	120	7,169	52	11,921	0	0	–	0	–
1977	(s)	6	250	4,564	150	136	151	7,415	45	12,709	0	0	–	0	–
1978	0	7	296	5,258	176	185	162	8,361	1	14,437	0	0	–	0	–
1979	0	8	318	5,743	189	66	169	8,087	8	14,580	0	0	–	0	–
1980	0	6	108	6,419	162	73	151	8,034	0	14,946	0	0	–	0	–
1981	0	6	85	6,223	249	118	144	8,116	3	14,938	0	0	–	0	–
1982	0	7	60	5,049	214	129	132	7,712	9	13,305	0	0	–	0	–
1983	0	5	55	3,478	155	158	138	7,352	0	11,336	0	0	–	0	–
1984	0	5	57	3,532	159	64	147	7,962	0	11,922	0	0	–	0	–
1985	0	5	51	4,287	154	45	137	7,071	(s)	11,746	0	0	–	0	–
1986	0	5	50	3,906	144	53	134	6,529	0	10,816	0	0	–	0	–
1987	0	6	51	5,697	202	50	151	6,738	0	12,890	0	0	–	0	–
1988	0	6	53	6,767	193	51	146	6,906	0	14,117	0	0	–	0	–
1989	0	5	39	7,087	160	35	150	7,012	(s)	14,484	0	0	–	0	–
1990	0	5	35	6,993	143	27	154	6,575	0	13,927	[e] 5,040	0	–	0	–
1991	0	8	28	5,705	119	49	138	6,621	0	12,660	3,995	0	–	0	–
1992	0	8	25	6,189	153	27	141	6,863	0	13,397	4,856	0	–	0	–
1993	0	7	20	6,965	140	29	143	7,176	0	14,473	5,419	0	–	0	–
1994	0	6	33	6,856	152	38	150	7,262	0	14,490	6,011	0	–	0	–
			Trillion Btu												
1960	(s)	1.8	0.7	10.5	0.3	0.3	0.5	21.2	6.0	39.5	0.0	0.0	41.3	0.0	41.3
1965	(s)	2.0	1.1	10.9	0.4	0.2	0.5	21.8	7.4	42.3	0.0	0.0	44.3	0.0	44.3
1970	(s)	6.0	1.3	17.9	0.7	0.3	0.5	27.6	2.9	51.3	0.0	0.0	57.4	0.0	57.4
1971	(s)	8.2	1.3	21.1	0.7	0.5	0.5	28.1	1.5	53.7	0.0	0.0	61.9	0.0	61.9
1972	(s)	6.2	1.3	19.9	0.9	0.6	0.6	30.6	1.5	55.4	0.0	0.0	61.7	0.0	61.7
1973	(s)	8.9	1.3	21.4	0.9	0.5	0.6	32.9	1.2	58.9	0.0	0.0	67.8	0.0	67.8
1974	(s)	7.5	1.2	25.0	0.9	0.4	0.6	32.2	1.4	61.7	0.0	0.0	69.2	0.0	69.2
1975	(s)	4.9	1.1	23.1	0.7	0.4	0.7	35.2	0.0	61.1	0.0	0.0	66.1	0.0	66.1
1976	(s)	6.3	1.1	23.8	0.7	0.5	0.7	37.7	0.3	64.9	0.0	0.0	71.2	0.0	71.2
1977	(s)	5.9	1.3	26.6	0.8	0.5	0.9	39.0	0.3	69.3	0.0	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	(s)	78.7	0.0	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	(s)	79.9	0.0	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	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	(s)	82.0	0.0	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	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	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	0.0	70.2	0.0	70.2
1985	0.0	5.2	0.3	25.0	0.9	0.2	0.8	37.1	(s)	64.2	0.0	0.0	69.5	0.0	69.5
1986	0.0	5.3	0.3	22.8	0.8	0.2	0.8	34.3	0.0	59.1	0.0	0.0	64.5	0.0	64.5
1987	0.0	6.4	0.3	33.2	1.1	0.2	0.9	35.4	0.0	71.1	0.0	0.0	77.5	0.0	77.5
1988	0.0	6.0	0.3	39.4	1.1	0.2	0.9	36.3	0.0	78.1	0.0	0.0	84.1	0.0	84.1
1989	0.0	5.7	0.2	41.3	0.9	0.1	0.9	36.8	(s)	80.3	0.0	0.0	85.9	0.0	85.9
1990	0.0	5.6	0.2	40.7	0.8	0.1	0.9	34.5	0.0	77.3	[e] 0.4	0.0	[e] 82.8	0.0	[e] 82.8
1991	0.0	8.3	0.1	33.2	0.7	0.2	0.8	34.8	0.0	69.8	0.3	0.0	78.1	0.0	78.1
1992	0.0	8.4	0.1	36.1	0.9	0.1	0.9	36.1	0.0	74.0	0.4	0.0	82.4	0.0	82.4
1993	0.0	R 7.2	0.1	40.6	0.8	0.1	0.9	37.7	0.0	80.1	0.4	0.0	87.3	0.0	87.3
1994	0.0	6.6	0.2	39.9	0.8	0.1	0.9	38.1	0.0	80.1	0.5	0.0	86.7	0.0	86.7

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

[c] Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector.

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

[e] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.

– =Not applicable.

(s)=Btu value less than 0.05, and physical unit value less than 0.5.

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

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

Table 322. Estimates of Energy Input at Electric Utilities, 1960, 1965, 1970-1994, Wyoming

Year	Coal			Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [e]	Biofuels	Geothermal Energy	Other [b,f]	Total [g]
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil [b,c]	Light Oil [b,d]	Petroleum Coke [b]	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	815	0	815	1	5	6	0	12	0	609	0	0	0	–
1965	1,941	0	1,941	(s)	15	19	0	34	0	884	0	0	0	–
1970	3,571	0	3,571	2	11	13	0	25	0	1,006	0	0	0	–
1971	3,400	0	3,400	1	28	19	0	47	0	1,312	0	0	0	–
1972	4,554	0	4,554	1	36	12	0	47	0	1,172	0	0	0	–
1973	5,797	0	5,797	(s)	90	8	0	98	0	1,209	0	0	0	–
1974	5,846	0	5,846	1	105	3	0	108	0	1,411	0	0	0	–
1975	6,938	0	6,938	1	112	6	0	118	0	1,120	0	0	0	–
1976	9,000	0	9,000	1	128	10	0	138	0	1,043	0	0	0	–
1977	11,371	0	11,371	1	93	7	0	100	0	762	0	0	0	–
1978	11,147	0	11,147	1	154	14	0	169	0	982	0	0	0	–
1979	13,258	0	13,258	(s)	141	6	0	147	0	1,053	0	0	0	–
1980	13,498	0	13,498	(s)	0	123	0	123	0	1,108	0	0	0	–
1981	16,559	0	16,559	(s)	0	147	0	147	0	841	0	0	0	–
1982	17,529	0	17,529	(s)	0	115	0	115	0	850	0	0	0	–
1983	16,135	0	16,135	(s)	0	81	0	81	0	1,150	0	0	1	–
1984	18,805	0	18,805	(s)	0	121	0	121	0	1,286	0	0	3	–
1985	21,173	0	21,173	(s)	0	143	0	143	0	1,068	0	0	3	–
1986	17,452	0	17,452	(s)	0	123	0	123	0	1,140	0	0	1	–
1987	22,408	0	22,408	(s)	0	115	0	115	0	768	0	0	(s)	–
1988	23,563	0	23,563	(s)	0	121	0	121	0	789	0	0	(s)	–
1989	21,908	0	21,908	(s)	0	118	0	118	0	680	0	0	(s)	–
1990	23,526	0	23,526	(s)	0	99	0	99	0	645	0	0	0	–
1991	23,115	0	23,115	(s)	0	122	0	122	0	736	0	0	0	–
1992	25,114	0	25,114	(s)	0	100	0	100	0	636	0	0	0	–
1993	24,111	0	24,111	(s)	0	104	0	104	0	787	0	0	0	–
1994	25,350	0	25,350	(s)	0	86	0	86	0	897	0	0	0	–
	Trillion Btu													
1960	12.1	0.0	12.1	0.7	(s)	(s)	0.0	0.1	0.0	6.6	0.0	0.0	0.0	19.4
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	0.0	40.6
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	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	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	0.0	88.2
1973	97.0	0.0	97.0	0.3	0.6	(s)	0.0	0.6	0.0	12.6	0.0	0.0	0.0	110.4
1974	99.4	0.0	99.4	0.5	0.7	(s)	0.0	0.7	0.0	14.7	0.0	0.0	0.0	115.3
1975	115.4	0.0	115.4	0.4	0.7	(s)	0.0	0.7	0.0	11.7	0.0	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	0.0	169.9
1977	200.4	0.0	200.4	0.6	0.6	(s)	0.0	0.6	0.0	8.0	0.0	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	0.0	207.4
1979	231.9	0.0	231.9	0.4	0.9	(s)	0.0	0.9	0.0	10.9	0.0	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	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	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	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	0.0	(s)	293.9
1984	325.2	0.0	325.2	0.1	0.0	0.7	0.0	0.7	0.0	13.4	0.0	0.0	(s)	339.4
1985	370.7	0.0	370.7	0.1	0.0	0.8	0.0	0.8	0.0	11.2	0.0	0.0	(s)	382.9
1986	303.9	0.0	303.9	0.1	0.0	0.7	0.0	0.7	0.0	11.9	0.0	0.0	(s)	316.7
1987	393.4	0.0	393.4	0.1	0.0	0.7	0.0	0.7	0.0	8.0	0.0	0.0	(s)	402.1
1988	412.6	0.0	412.6	0.2	0.0	0.7	0.0	0.7	0.0	8.1	0.0	0.0	(s)	421.7
1989	385.1	0.0	385.1	0.1	0.0	0.7	0.0	0.7	0.0	7.0	0.0	0.0	(s)	392.9
1990	414.6	0.0	414.6	0.1	0.0	0.6	0.0	0.6	0.0	6.7	0.0	0.0	0.0	421.9
1991	404.8	0.0	404.8	0.1	0.0	0.7	0.0	0.7	0.0	7.6	0.0	0.0	0.0	413.2
1992	444.0	0.0	444.0	0.1	0.0	0.6	0.0	0.6	0.0	6.5	0.0	0.0	0.0	451.2
1993	423.3	0.0	423.3	0.1	0.0	0.6	0.0	0.6	0.0	8.1	0.0	0.0	0.0	432.1
1994	444.4	0.0	444.4	0.1	0.0	0.5	0.0	0.5	0.0	9.2	0.0	0.0	0.0	454.3

[a] Includes supplemental gaseous fuels.
[b] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.
[c] Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.
[d] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.
[e] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.
[f] "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.
[g] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.
– =Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may 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 Consumption Estimates by Sector and Source, Each State and the United States

Year	Coal [a]	Natural Gas [b]	Petroleum										Nuclear Electric Power	Hydro-electric Power [d]	Biofuels [e]	Other [a,f]	Net Interstate Flow of Electricity/Losses [g]	Total [h]
			Asphalt and Road Oil [a]	Aviation Gasoline [a]	Distillate Fuel [a]	Jet Fuel [a]	Kero-sene [a]	LPG [a]	Lubri-cants [a]	Motor Gasoline	Residual Fuel [a]	Other [a,c]	Total						
	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	1,981	28,564	0	992	0	0	2,208	–
1965	6	277	1,295	482	2,828	2,094	386	5,599	468	17,922	453	2,836	34,362	0	1,080	0	0	7,475	–
1970	0	382	2,104	293	5,462	2,204	821	10,198	531	22,457	935	2,832	47,837	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	3,502	52,552	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	3,129	60,471	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	3,359	67,120	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	3,219	67,058	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	3,224	64,784	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	3,365	71,503	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	4,014	78,885	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	3,992	77,639	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	4,133	66,771	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	4,159	57,515	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	4,160	55,075	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	3,387	53,515	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	2,811	53,958	7,646	3,315	0	0	-15,421	–
1984	9,435	210	757	113	13,930	2,016	2,897	3,172	684	27,334	480	3,284	54,666	10,808	2,723	0	0	-13,972	–
1985	12,682	196	1,263	86	14,911	2,030	156	3,673	637	26,718	735	2,448	52,658	9,889	4,434	0	0	-30,696	–
1986	12,849	199	982	111	13,270	1,919	52	3,803	623	27,901	926	R 1,596	R 51,182	8,876	2,813	0	0	-33,455	–
1987	12,066	170	1,018	92	13,453	2,063	44	3,503	704	28,509	265	R 1,691	R 51,343	11,369	2,407	0	0	-33,346	–
1988	12,555	217	1,373	100	14,181	2,221	51	3,552	679	29,578	355	R 1,776	R 53,867	8,895	2,785	0	0	-23,597	–
1989	11,547	250	778	103	14,522	1,938	47	3,786	697	29,395	372	R 1,765	R 53,403	8,844	3,084	0	0	-19,472	–
1990	12,092	232	495	125	14,258	1,692	28	3,462	717	28,930	221	R 1,862	R 51,714	11,282	R NA	I NA	I NA	R -29,828	–
1991	12,261	209	533													NA	NA	R -30,270	–
1992	12,538	225	1,174													NA	NA	R -27,338	–
1993	11,447	231	1,453													NA	NA	R -20,452	–
1994	12,596	244	1,066													NA	NA	-23,667	–
1960	0.4	222.2	6.7													0.0	0.0	7.5	390.2
1965	0.2	277.7	8.6													0.0	0.0	25.5	494.8
1970	0.0	383.5	14.0													0.0	0.0	22.1	674.6
1971	0.1	335.0	15.8													0.0	0.0	43.4	670.0
1972	0.1	317.6	16.0													0.0	0.0	62.5	713.4
1973	2.3	327.5	17.3													0.0	0.0	57.1	789.6
1974	2.7	290.1	16.2													0.0	0.0	67.2	768.7
1975	0.9	257.4	15.1													0.0	0.0	61.7	756.1
1976	3.6	248.2	16.3													0.0	0.0	105.3	807.1
1977	5.2	234.4	16.6													0.0	0.0	99.6	845.0
1978	22.8	220.9	17.6													0.0	0.0	90.1	845.2
1979	31.7	255.0	21.3													0.0	0.0	106.4	840.8
1980	36.6	274.0	18.4													0.0	0.0	96.1	822.2
1981	101.9	265.1	14.0													0.0	0.0	0.8	780.1
1982	125.2	227.4	12.7	1.0	76.4	10.9	2.9	14.8	3.7	136.3	11.0	19.5	289.1	82.9	22.0	0.0	0.0	0.6	747.2
1983	177.5	211.7	12.2	1.0	76.5	8.7	16.3	14.8	3.9	136.5	4.8	16.3	291.0	83.4	34.9	0.0	0.0	-52.6	745.8
1984	163.9	214.4	5.0	0.6	81.1	10.9	16.4	11.4	4.1	143.6	3.0	18.7	295.0	117.2	28.4	0.0	0.0	-47.7	771.3
1985	219.8	199.3	8.4	0.4	86.9	11.0	0.9	13.2	3.9	140.4	4.6	13.8	283.5	106.9	46.3	0.0	0.0	-104.7	751.2
1986	224.5	203.0	6.5	0.6	77.3	10.4	0.3	13.8	3.8	146.6	5.8	R 9.2	R 274.3	95.9	29.4	0.0	0.0	-114.1	R 713.0
1987	211.0	172.3	6.8	0.5	78.4	11.3	0.2	12.8	4.3	149.8	1.7	R 9.7	R 275.3	122.5	25.1	0.0	0.0	-113.8	R 692.4
1988	218.8	218.8	9.1	0.5	82.6	12.2	0.3	13.0	4.1	155.4	2.2	R 10.2	R 289.6	95.6	28.8	0.0	0.0	-80.5	R 771.0
1989	202.7	251.1	5.2	0.5	84.6	10.6	0.3	13.9	4.2	154.4	2.3	R 10.1	R 286.1	94.8	31.8	0.0	0.0	-66.4	R 800.2
1990	212.7	234.5	3.3	0.6	83.1	9.2	0.2	12.6	4.3	151.4	1.5	R 10.7	R 276.9	120.5	I 38.2	I 66.1	I 1.1	-101.8	R I 848.2
1991	216.1	212.7	3.5	0.7	78.5	9.7	0.2	12.0	3.9	152.3	0.9	R 9.5	R 271.3	136.0	36.9	66.2	1.1	R -103.3	R 836.9
1992	220.7	226.6	7.8	0.8	89.4	6.2	0.1	10.9	4.0	154.5	0.2	R 10.8	R 284.6	120.9	34.8	69.6	1.1	R -93.3	R 865.1
1993	200.4	234.4	9.6	0.7	91.2	5.7	0.2	12.5	4.0	160.0	1.4	R 10.4	R 295.8	144.4	R 46.4	71.0	1.1	R -69.8	R 923.7
1994	221.9	249.8	7.1	0.8	100.0	9.1	0.2	12.3	4.2	162.2	2.0	10.9	308.8	148.6	35.6	71.4	1.1	-80.8	956.5

State Energy Data Available Electronically

The data published in Tables 11 through 322 of this report are available on **personal computer diskettes** (see inside back cover).

The report can be accessed via the Internet. Refer to EIA's home page on the **Internet** at http://www.eia.doe.gov.

Over 180 EIA reports, databases, and models are available on a **CD-ROM**. For information about the Energy InfoDisc, call 1-800-STAT-USA.

[a] The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

[b] Includes supplemental gaseous fuels.

[c] "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

[d] If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

[e] Ethanol blended into motor gasoline is accounted for in the motor gasoline and total petroleum series. It is also included in the biofuels series to give complete biofuels data. It is included only once in the energy total.

[f] Includes geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

[g] 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.

[h] If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns.

[I] There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

R=Revised data.
NA=Not available.
– –=Not applicable.
(s)=Btu value less than 0.05, and physical unit value less than 0.5.
Note: Totals may 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

Appendix A

Documentation

Section 1. Documentation Guide

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; 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; Appendix E presents metric and other physical conversion factors for information, although they are not currently used in SEDS; Appendix F lists carbon dioxide emission factors for coal consumed by State for information, although they are not used in SEDS; Appendix G is a summary of the changes made in SEDS since the last report, which was released in July 1995; and Appendix H is a list of other Energy Information Administration reports containing State-level data.

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
Identity:	Type of energy	Energy activity or consumption end-use sector	Type of data	Geographic

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 = corrugated and solid fiber boxes
CL = coal
CO = crude oil, including lease condensate
CT = catalytic cracking
DF = distillate fuel

DK = distillate fuel, including kerosene-type jet fuel
EL = electricity
ER = electricity generated from renewable energy
ES = electricity sales
EX = electricity generated from non-renewable energy
FF = fossil fuels
FN = petrochemical feedstocks, naphtha less than 410° F
FO = petrochemical feedstocks, other oils equal to or greater than 401° F
FS = petrochemical feedstocks, still gas
GE = geothermal energy
GO = geothermal, wind, photovoltaic, and solar thermal energy
HP = hydroelectric power from pumped storage
HY = hydroelectric power, all types
HV = conventional 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
RE = renewable energy
RD = road oil
RF = residual fuel
SG = still gas
SN = special naphtha
SO = photovoltaic and solar thermal energy
TE = total energy
TN = total net energy
TP = resident population
UO = unfinished oils
US = unfractionated stream
WD = wood
WN = wind, photovoltaic, and solar thermal energy
WS = waste
WW = biofuels
WX = waxes
WY = wind

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 as a whole. 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. Some data series have withheld data for States to avoid disclosure of individual company proprietary data. For those data series the geographic code "OT" is used for the sum of the withheld State data. The geographic area codes used in SEDS are shown in Table A1.

Throughout this report, the term "State" includes the District of Columbia. 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.

Table A1. Geographic Area Codes Used in the State Energy Data System

Code	State	Code	State
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	OT	Other States (withheld data)

Section 2. 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. totals for the four State-level series, ACEUPZZ, ACHDPZZ, ACKDPZZ, and ACOCDPZZ, are calculated by summing the State data.

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, all anthracite consumed in the United States in 1994 accounted for less than 0.3 percent of total coal consumption, and the residential and commercial use of anthracite was less than half of all anthracite consumed.

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

The U.S. anthracite consumption estimates for each of the sectors and the total are calculated as the sum of the States' values.

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 sectors other than electric utilities 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 as the sum of the States' data.

Additional Notes on Anthracite

Anthracite consumption at the national level for the residential and commercial sectors (ACHCPUS), coke plants (ACKCPUS), and industries other than coke plants (ACOCPUS) are continuous data series. However, the total coal distribution and anthracite distribution data series used to develop State-level estimates are not continuous.

For 1960 through 1979, State-level anthracite data are not available and the 1980 State data are used to apportion the U.S. totals to the States. From 1980 forward, the data in the distribution series variables—ACKDPZZ, ACODPZZ, and ACHDPZZ—are estimates of actual anthracite consumption rather than the distribution.

For 1980 forward, State-level total coal consumption data are available, but consumption by sector within many States is withheld. Estimates of the withheld sector consumption of total coal are derived by using the distribution series for the residential and commercial sectors 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 the end-use 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. These estimates equal U.S. totals for anthracite consumption by sector contained in other EIA databases.

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 they 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.

The U.S. totals for the four State-level series, BCEUPZZ, BCHDPZZ, BCKDPZZ, and BCODPZZ, are calculated by summing the State data.

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, bituminous coal and lignite consumed by residential and commercial users in 1994 accounted for only 0.5 percent of all bituminous coal and lignite consumed—that is, 5 million short tons out of the 927 million short tons consumed in 1994.

Consumption in the industrial sector 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

The U.S. bituminous coal and lignite consumption estimates for each of the sectors and the total are calculated as the sum of the States' values.

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. consumption estimates in Btu are calculated by summing the State values for each of the data series.

Additional Notes for Bituminous Coal and Lignite

1. Bituminous coal and lignite consumption at the national level for the residential and commercial sectors (BCHCPUS), coke plants (BCKCPUS), and industries other than coke plants (BCOCPUS) are continuous data series. However, the distribution data series used to develop State-level estimates by end-use sector are not continuous.

   For 1960 through 1979, State-level bituminous coal and lignite distribution data are used to apportion the U.S. consumption data to the States. 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 for the previous years.

   For 1980 forward, State-level total coal consumption data are available, but consumption by sector within many States is withheld. Estimates of the withheld sector consumption of total coal are derived by using the distribution series for the residential and commercial sectors 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 the end-use sectors that are compatible with State

coal consumption data published in other EIA reports. Anthracite consumption is derived by using anthracite distribution data to estimate consumption within each sector and State that sum to the U.S. totals for anthracite consumption by sector contained in other EIA databases. Bituminous coal and lignite consumption for each sector and State is, then, the difference between the total coal consumption estimates and anthracite consumption estimates.

2. Prior to 1974, data for distribution of bituminous coal and lignite 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.

3. Total coal consumption by State for 1980 through 1989 published in the EIA *Quarterly Coal Report* do not sum to the 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, commercial, and "other industrial" sectors 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 for each State and the U.S. total are:

CLRCP = ACRCP + BCRCP
CLCCP = ACCCP + BCCCP
CLICP = ACICP + BCICP
CLACP = BCACP
CLEUP = ACEUP + BCEUP
CLTCP = ACTCP + BCTCP

British Thermal Units (Btu)

Estimates of total coal consumption in Btu for each State and the U.S. are calculated:

CLRCB = ACRCB + BCRCB
CLCCB = ACCCB + BCCCB
CLICB = ACICB + BCICB
CLACB = BCACB
CLEUB = ACEUB + BCEUB
CLTCB = ACTCB + BCTCB

Additional calculations are performed to provide coal consumption estimates for the State Energy Price and Expenditure Data System (SEPEDS) from which the *State Energy Price and Expenditure Report* is produced. 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 State Energy Data System (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 State-level and U.S. data in Btu used by SEPEDS are:

CLKCB = ACKCB + BCKCB
CLOCB = ACOCB + BCOCB
CLSCB = CLTCB – CLKCB

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 in the U.S. data but not in the State-level data in all tables of total energy consumption and industrial sector energy consumption. 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 3. Natural Gas

Physical Units

Six natural gas data series are used to derive the natural gas consumption estimates in the State Energy Data System (SEDS). Three of these data series are deliveries of natural gas to the end user by State and are used as consumption because 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 (EIA) 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):

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 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 to produce carbon black);

NGLEPZZ = natural gas consumed as lease fuel;

NGPLPZZ = natural gas consumed as plant fuel;

NGPZPZZ = natural gas consumed as pipeline fuel;

NGRCPZZ = natural gas delivered to the residential sector; and

NGVZPZZ = natural gas delivered for use as vehicle fuel.

The U.S. totals of these independent variables are calculated as the sum of the States' values.

The data are combined into the four major end-use sectors used in SEDS as closely as possible. However, natural gas data are collected by 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 natural gas delivered to the industrial sector, NGINPZZ, natural gas consumed as lease fuel, NGLEPZZ, and natural gas consumed as plant fuel, NGPLPZZ. The source document reports lease and plant fuel combined for 1960 through 1992; the combined data series is stored as NGLEPZZ in SEDS.

NGICPZZ = NGINPZZ + NGLEPZZ + NGPLPZZ

The transportation sector's consumption of natural gas, NGACPZZ, is the sum of natural gas consumed in the operation of pipelines, primarily in compressors, NGPZPZZ, and natural gas delivered for use as vehicle fuel, NGPVPZZ. Prior to 1990, the small amounts of natural gas consumed as vehicle fuel are included in the commercial sector consumption and cannot be identified separately; therefore, NGPVPZZ is zero prior to 1990 in SEDS.

NGACPZZ = NGPZPZZ + NGVZPZZ

Electric utilities' consumption of natural gas is represented by the data series NGEUPZZ.

The total consumption of natural gas, estimated for each State, is the sum of the consumption by the end-use sectors and electric utilities:

NGTCPZZ = NGRCPZZ + NGCCPZZ + NGICPZZ + NGACPZZ + NGEUPZZ

The U.S. consumption estimates for each of the sectors and the U.S. total are calculated as the sum of the States' values.

British Thermal Units (Btu)

Three factors for each State are used for converting the consumption of natural gas from its physical units of million cubic feet into thousand Btu per cubic foot. Two of these State-level factors are from sources listed in Appendix C:

NGEUKZZ = The factor for converting natural gas consumed by electric utilities 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, NGNUKZZ, for converting natural gas used by all sectors other than electric utilities from physical units to Btu:

NGTCBZZ = NGTCPZZ * NGTCKZZ
NGEUBZZ = NGEUPZZ * NGEUKZZ
NGNUKZZ = (NGTCBZZ – NGEUBZZ) / (NGTCPZZ – NGEUPZZ)

Natural gas consumption in Btu for the residential, commercial, industrial, and transportation sectors in each State is calculated by multiplying the physical unit data by the factor NGNUKZZ, such as:

NGACBZZ = NGACPZZ * NGNUKZZ
NGCCBZZ = NGCCPZZ * NGNUKZZ

The U.S. consumption estimates in Btu for each of the sectors and the U.S. total are calculated as the sum of the States' Btu values.

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 utilities (NGEUKZZ) and for the other sectors (NGNUKZZ) 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 foot is used for all sectors in all States for 1960 through 1962.

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. Petroleum

Petroleum Overview

The 27 petroleum products included in the State Energy Data System (SEDS) 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 A2 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.

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.

The asphalt and road oil sales data are in short tons, while the consumption data are in thousand barrels. Because the sales data are

Table A2. 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]The category "Other petroleum products" consumed by the industrial sector comprises crude oil, including lease condensate; unfinished oils; plant condensate; aviation gasoline and motor gasoline blending components; natural gasoline; petroleum feedstocks (naphtha less than 401° F, other oils equal to or greater than 401° F, and still gas); pentanes plus; special naphthas; still gas; unfractionated stream; waxes; miscellaneous petroleum products; and petroleum coke for industrial use.

[2]Petroleum coke consumed at electric utilities.

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.

ASTCPUS represents total U.S. consumption of asphalt, and RDTCPUS represents total U.S. consumption of road oil. Both are 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, and RDTCPUS is entered as zero in SEDS.

The source of the third variable, RDINPZZ, is the report series "Sales of Asphalt" for 1960 through 1980, published by EIA. This sales series was discontinued after the 1980 report. Values for 1981 and 1982 are estimated as described under "Additional Notes" in this section. Beginning with 1983 data, when road oil is included in asphalt product supplied data in the source publication, RDINPZZ is entered as zero in 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:

$$ASICPZZ = (ASINPZZ / ASINPUS) * ASTCPUS$$
$$ASICPUS = \Sigma ASICPZZ$$

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:

$$RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUS$$
$$RDICPUS = \Sigma RDICPZZ$$

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:

$$ARICPZZ = ASICPZZ + RDICPZZ$$
$$ARICPUS = \Sigma ARICPZZ$$
$$ARTCPZZ = ASTCPZZ + RDTCPZZ$$
$$ARTCPUS = \Sigma ARTCPZZ$$

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

Because all asphalt and road oil are 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

Additional Notes on Asphalt and Road Oil

Because the Federal Government stopped collecting asphalt and road oil sales data in 1980, the source for these numbers in recent years has been reports published by the Asphalt Institute. There is an inherent problem in the methodology of using sales to estimate consumption because asphalt and road oil sold by a producer in one State may be easily transported across State lines and consumed in a neighboring State. The Asphalt Institute acknowledges this problem and estimates that, in any one year, about 15 States may have consumption estimates as much as 20 percent too high or too low.

Total U.S. consumption of asphalt and road oil are the product supplied data series from the EIA publication *Petroleum Supply Annual*. Beginning with 1983 data, the road oil data series is no longer published separately but is included in the asphalt product supplied. The sum of the two series for all years in SEDS is a continuous series.

The EIA report series "Sales of Asphalt," which is the source for road oil sales by State (RDINPZZ) in SEDS for 1960 through 1980, was discontinued after the 1980 report. For 1981 and 1982, State estimates of road oil sales 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.*

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.

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 (EIA).

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

Because 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

Additional Notes on Aviation Gasoline

Aviation gasoline issues to the military for each State (AVMIPZZ) are obtained from the U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. There are no data available for 1960 through 1974, and the data available for 1975 and 1976 are not consistent; therefore, the 1977 values are used for 1960 through 1976 in SEDS. The data are reported by fiscal year for 1977 through 1988 and taken from the Defense Energy Information System. For 1989 and 1990, fiscal-year data from two databases, Defense Fuel Automated Management System and the Into-Plane Database, are summed. For 1991 and 1992, data from the same two databases, reported by calendar year, are used.

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, sales of distillate fuel into or within each State, in thousand barrels, published by the Energy Information Administration (EIA) are used to estimate distillate fuel consumption. The sales data are adjusted to sum to the Petroleum Administration for Defense District subtotals of the EIA distillate fuel product supplied data series. Both the sales data and the adjusted sales series are published in the EIA *Fuel Oil and Kerosene Sales Report*. The following variable names have been assigned to the adjusted sales series ("ZZ" in the variable names represents the two-letter State code that differs for each State):

DFBKPZZ = distillate fuel adjusted sales for vessel bunkering use (i.e., the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and oceangoing vessels, including vessels operated by oil companies, and fueling for other marine purposes), excluding that sold to the Armed Forces;

DFCMPZZ = distillate fuel adjusted sales to commercial establishments for space heating, water heating, and cooking;

DFIBPZZ = distillate fuel adjusted sales 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 adjusted sales to the Armed Forces, regardless of use;

DFOCPZZ = distillate fuel adjusted sales 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 adjusted sales as diesel fuel 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 adjusted sales as diesel fuel for on-highway use (i.e., as engine fuel for trucks, buses, and automobiles);

DFOTPZZ = distillate fuel adjusted sales for all other uses not identified in other adjusted sales categories;

DFRRPZZ = distillate fuel adjusted sales to the railroads for use in fueling trains, operating railroad equipment, space heating of buildings, and other operations; and

DFRSPZZ = distillate fuel adjusted sales to the residential sector for space heating, water heating, and cooking, excluding farm houses.

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 EIA 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.

Next, the variables are combined as closely as possible into the major end-use sectors used in SEDS. The residential sector adjusted sales and the commercial sector adjusted sales contain only DFRSPZZ and DFCMPZZ, respectively.

The adjusted sales of distillate fuel to the industrial sector for each State, DFINPZZ, is the sum of the distillate fuel adjusted sales for industrial use, including industrial space heating and farm use (DFIBPZZ), for oil company use (DFOCPZZ), for off-highway use (DFOFPZZ), and for all other uses (DFOTPZZ):

DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ
DFINPUS = ΣDFINPZZ

The adjusted sales of distillate fuel to the transportation sector for each State, DFTRPZZ, is the sum of the distillate fuel adjusted sales for vessel bunkering, military use, railroad use, and the diesel fuel used on-highway:

DFTRPZZ = DFBKPZZ + DFMIPZZ + DFRRPZZ + DFONPZZ
DFTRPUS = ΣDFTRPZZ

Adjusted sales of distillate fuel oil to the residential, commercial, industrial, and transportation sectors are added to create a subtotal of adjusted sales to all sectors other than the electric utility sector, 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 U.S. distillate fuel consumption by all sectors other than the electric utility sector, DFNCPUS, is calculated by subtracting the distillate fuel consumption at electric utilities from the total U.S. distillate fuel consumption:

DFNCPUS = DFTCPUS – DFEUPUS

This U.S. subtotal of distillate fuel consumption by the four end-use sectors, DFNCPUS, is apportioned to the States by using the end-use sectors' State-level adjusted sales data. The assumption is made that each State consumes distillate fuel in proportion to the amount of adjusted sales to that State:

DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS

The end-use sectors' subtotal for each State, DFNCPZZ, is further divided into estimates for the four end-use sectors in proportion to each sector's adjusted sales. The estimated residential sector consumption in each State, DFRCPZZ, is calculated:

DFRCPZZ = (DFRSPZZ / DFNDPZZ) * DFNCPZZ
DFRCPUS = ΣDFRCPZZ

The commercial sector's estimated consumption in each State, DFCCPZZ, is calculated:

DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ
DFCCPUS = ΣDFCCPZZ

The industrial sector's estimated consumption in each State, DFICPZZ, is calculated:

DFICPZZ = (DFINPZZ / DFNDPZZ) * DFNCPZZ
DFICPUS = ΣDFICPZZ

The transportation sector's estimated consumption in each State, DFACPZZ, is calculated:

DFACPZZ = (DFTRPZZ / DFNDPZZ) * DFNCPZZ
DFACPUS = ΣDFACPZZ

Total State distillate fuel consumption is the sum of the end-use sectors' consumption subtotal and the electric utilities consumption:

DFTCPZZ = DFNCPZZ + DFEUPZZ

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 for the five consuming sectors from physical units to Btu as shown in the following examples:

DFRCBZZ = DFRCPZZ * 5.825
DFCCBZZ = DFCCPZZ * 5.825
DFTCBZZ = DFRCBZZ + DFCCBZZ + DFICBZZ + DFACBZZ + DFEUBZZ

The U.S. level Btu consumption estimates are calculated as the sum of all the States' data.

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 1987; and "adjusted sales" for 1988 forward.

2. State data for the variables DFONPZZ (on-highway 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 have been subtracted.

3. In 1979, 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 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." 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 no attempt has been made to adjust the end-use reporting.

4. The data on fuel oil consumed at electric utilities for all years and States are actual fuel oil consumption numbers collected from electric utilities on the EIA 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 data on total fuel oil consumed at electric utilities by State are 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, data on 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 total consumed, in thousand barrels;
JKEUPZZ = the electric utility sector consumption of kerosene-type jet fuel in each State, in thousand barrels; and
JKTTPZZ = kerosene-type jet fuel total sold, 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 (EIA).

Kerosene-type jet fuel consumed by electric utilities, JKEUPZZ, is published by EIA 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.

Kerosene-type jet fuel total sold, JKTTPZZ, was collected by the Ethyl Corporation, Petroleum Chemicals Division, for 1960 through 1983 and by EIA for 1984 forward. The Ethyl Corporation data are sales to commercial users and are used to represent total sales based on the assumption that there is little military use of kerosene-type jet fuel during 1960 through 1983. (See Note 1 in the "Additional Notes" section for the source reference for this assumption.) The EIA data for 1984 forward include commercial and military sales.

U.S. totals for the two State series are calculated as the sum of the State data.

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 consumption in each State is in proportion to the amount sold in each State:

JKACPZZ = (JKTTPZZ / JKTTPUS) * 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 kerosene-type jet fuel use by the military in 1960 through 1983 is negligible. 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 anomaly may have happened between New York and New Jersey beginning in 1981, when 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 an 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 A3 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.

5. Kerosene-type jet fuel consumed by electric utilities, JKEUPZZ, is published in the EIA *Cost and Quality of Fuels for Electric Utility Plants*. These data are available for 1972 through 1982 only.

Table A3. Estimate of U.S. Consumption of Kerosene and Jet Fuel for 1960 through 1963
(Thousand barrels)

Year	(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

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.

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 (EIA).

Data on naphtha-type jet fuel issued to the military in each State, JNMIPZZ, are from the U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center.

The total U.S. military issues is the sum of the State data:

$$JNMIPUS = \Sigma JNMIPZZ$$

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 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 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

1. 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.

2. Data on naphtha-type jet fuel issued to the military for each State (JNMIPZZ) are obtained from the U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. There are no data available for 1960 through 1974, and the data available for 1975 and 1976 are not consistent; therefore, the 1977 values are used for 1960 through 1976 in SEDS. The data are reported by fiscal year for 1977 through 1988 and are taken from the Defense Energy Information System. For 1989 and 1990, fiscal-year data from two databases, Defense Fuel Automated Management System and the Into-Plane Database, are summed. For 1991 and 1992, data from the same two databases, reported by calendar year, are used.

Jet Fuel Totals

Physical Unit

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

Because State-level and end-use consumption data for kerosene are not available, four data series published by EIA representing sales 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 sales 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 sold to the commercial sector for heating, in thousand barrels;
KSIHPZZ = kerosene sold to the industrial sector for heating, in thousand barrels;

KSOTPZZ = kerosene sold for all other uses, including farm use, in thousand barrels;
KSRSPZZ = kerosene sold to the residential sector for heating, in thousand barrels; and
KSTCPUS = kerosene total consumed in the United States, in thousand barrels.

U.S. sales totals for each of the four State-level series are created by summing the State values.

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 sales of kerosene to the industrial sector, KSINPZZ, for each State is the sum of kerosene sold for industrial space heating (KSIHPZZ) and kerosene sold for all other uses (KSOTPZZ), including farm use. Sales of kerosene to the industrial sector are calculated:

KSINPZZ = KSOTPZZ + KSIHPZZ
KSINPUS = ΣKSINPZZ

Total sales of kerosene in each State is the sum of these three sectors' sales:

KSTTPZZ = KSRSPZZ + KSCMPZZ + KSINPZZ
KSTTPUS = ΣKSTTPZZ

An estimate of each State's total consumption of kerosene is made by disaggregating the U.S. total consumption to the States in proportion to each State's sales share of the U.S. total sales:

KSTCPZZ = (KSTTPZZ / KSTTPUS) * KSTCPUS

Each State's residential sector sales percentage of total sales 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.

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 for the three consuming sectors and the U.S. total are calculated as the sum of the State-level data.

Additional Notes on Kerosene

1. See Note 4 at the end of the "Kerosene-Type Jet Fuel" section on page 360 for comments concerning the inclusion of kerosene-type jet fuel with the kerosene total product supplied prior to 1964 in the source documents.

2. "Sales" 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 1983; and "sales" for 1984 forward.

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 kerosene 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 deliveries in 1979, the end-use categories called "residential," "commercial," and "industrial" are available. The pre-1979 deliveries 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." EIA did not conduct a fuel oil and kerosene sales 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 sales 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 (EIA):

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 2 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 for each of the State-level LPG sales data series are calculated as the sum of the State values.

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 3 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 four end-use sector consumption estimates are calculated as the sums of the State estimates.

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 taken 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 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:

Table A4. Percentages Used to Disaggregate Maryland and D.C. Combined LPG Sales Data

Sales Category	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

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 for the four sectors and total LGP are calculated as the sum of the State data.

Additional Notes on Liquefied Petroleum Gases

1. Sales data for Maryland and the District of Columbia are combined in the source documents. Sales data are published in six categories. The percentages shown in Table A4 are applied to disaggregate the combined State data in each of the sectors for all years.

2. The sales of LPG for internal combustion engine fuel use are divided between the transportation sector and the industrial sector by 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 that includes only LPG and diesel fuel. The special fuels data are published by the U.S. Department of Transportation, Federal Highway Administration (see MGSFPZZ in Appendix C). 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 1990). 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 Table A5.

3. 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.

4. LPG sales data by State and end-use categories for 1960 through 1982 are from EIA's "Sales of Liquefied Petroleum Gases and

Table A5. Transportation Sector Share of LPG Internal Combustion Engine Use, 1960 Forward

Year	LGTRSUS	Year	LGTRSUS	Year	LGTRSUS
1960	0.229	1972	0.392	1984	0.633
1961	0.258	1973	0.384	1985	0.440
1962	0.266	1974	0.381	1986	0.456
1963	0.273	1975	0.406	1987	0.374
1964	0.259	1976	0.440	1988	0.437
1965	0.290	1977	0.478	1989	0.427
1966	0.325	1978	0.594	1990	0.475
1967	0.368	1979	0.536	1991	0.426
1968	0.389	1980	0.380	1992	0.426
1969	0.341	1981	0.671	1993	0.441
1970	0.363	1982	0.579	1994	0.733
1971	0.423	1983	0.578		

Ethane." In 1979, 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 by 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 (PAD) District to the individual States, in proportion to the sum of the known end-use sales for those States.

   - Missing PAD District end-use totals for 1979 and 1980 were obtained by using the 1980 and 1981 sales reports. Missing PAD District chemical sales were estimated by allocating the total missing volume of chemical sales to the PAD District in proportion to the number of chemical plants in each PAD District. The remaining PAD District end-use totals were

Table A6. State Shares of the Total U.S. LPG Sold for Chemical Use, 1960 Through 1978

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

obtained by subtraction. For 1981 and 1982, no PAD District estimations were necessary because all PAD District end-use totals are known.

- The published data and the estimated State and PAD District end-use totals were used to estimate missing State end-use sales volumes within a PAD District: missing State end-use sector values were estimated by allocating the missing volume for the State approximately proportional to the PAD District 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 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 were withheld. Estimates for the withheld data for chemical use sales for 1979 and 1980 were created by 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 A6) 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 PAD District V for which data are withheld. Therefore, subtracting the available data for the other five States from the PAD District 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.

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 represents the two-letter State code that differs 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 "Sales of Lubricating and Industrial Oils and Greases" in the *Current Industrial Reports* series. 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 (EIA). The first two variables are used for apportioning the third into State total consumption and State end-use consumption estimates by 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 data.

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.

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 as the sum of the State data.

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. Table A7 specifies which years of consumption estimates depend on which years of the sales data.

Table A7. Lubricants Sales Data Used in Consumption Estimates

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 were 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 (prior to 1994) and Table MF-21 (1994). 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 calculated as the sum of the State data.

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 the three end-use sectors' sales and for total sales are calculated as the sum of the States' sales.

The motor gasoline sales data for the three 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.

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 by summing the State data.

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 (electric utility and industrial 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 publication *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 for conversion 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 by summing the State data.

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, sales of residual fuel into or within each State, in thousand barrels, published by the Energy Information Administration (EIA), are used to estimate residual fuel consumption. "ZZ" in the following variable names represents the two-letter State code that differs for each State:

RFBKPZZ = residual fuel sold 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 sales to the Armed Forces;

RFCMPZZ = residual fuel sold to the commercial sector for heating;

RFIBPZZ = residual fuel sold 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 sold to the Armed Forces, regardless of use;

RFMSPZZ = residual fuel sold for all other uses not identified in other sales categories;

RFOCPZZ = residual fuel sold 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 sold 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 EIA's publication *Petroleum Supply Annual*.

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.

Then the data series are combined as closely as possible into the major end-use sectors used in SEDS. No residual fuel is sold to the residential sector. Residual fuel sales to the commercial sector is the RFCMPZZ series.

The sales of residual fuel to the industrial sector in each State, RFINPZZ, is the sum of the residual fuel sold for industrial use, including industrial space heating (RFIBPZZ), for oil company use (RFOCPZZ) and for all other uses (RFMSPZZ):

RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ
RFINPUS = ΣRFINPZZ

The sales of residual fuel to the transportation sector in each State, RFTRPZZ, is the sum of the residual fuel sales for vessel bunkering (RFBKPZZ), military use (RFMIPZZ), and railroad use (RFRRPZZ):

RFTRPZZ = RFBKPZZ + RFMIPZZ + RFRRPZZ

RFTRPUS = ΣRFTRPZZ

Sales of residual fuel oil to the commercial, industrial, and transportation sectors are added to create a subtotal of sales to all sectors other than the electric utility sector (RFNDPZZ):

RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ
RFNDPUS = ΣRFNDPZZ

The estimated residual fuel consumption for the United States by all sectors other than the electric utility sector (RFNCPUS) is calculated by subtracting the total residual fuel consumption at electric utilities from the total U.S. residual fuel consumption:

RFNCPUS = RFTCPUS – RFEUPUS

This U.S. subtotal of residual fuel consumption by the end-use sectors combined (RFNCPUS) is apportioned to the States using the States' end-use sector sales data. The assumption is made that each State consumes residual fuel in proportion to the amount sold in that State:

RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS

The end-use sectors' subtotal for each State is further divided into estimates for each sector in proportion to each sector's sales. 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 the major end-use sectors is estimated by adding the States' estimated consumption.

Total State residual fuel consumption is the sum of the end-use sectors' consumption subtotal and the electric utilities consumption:

RFTCPZZ = RFNCPZZ + RFEUPZZ

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 as shown in the following examples:

RFCCBZZ = RFCCPZZ * 6.287
RFICBZZ = RFICPZZ * 6.287
RFTCBZZ = RFCCBZZ + RFICBZZ + RFACBZZ + RFEUBZZ

The U.S. level Btu consumption estimates are calculated as the sum of the States' Btu consumptionon.

Additional Notes on Residual Fuel

1. "Sales" 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 1983; and "sales" for 1984 forward.

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 "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." EIA did not conduct a fuel oil and kerosene sales 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 sales 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 operating capacity at refineries in each State, in barrels per calendar day;
OCVAVZZ = value added in the manufacture of industrial organic chemicals in each State, in million dollars;
PIVAVZZ = value added in the manufacture of paints and allied products in each State, in million dollars; and
CGVAVZZ = value added in the manufacture of corrugated and solid fiber boxes.

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:

$$\text{COTCPUS} = \Sigma\text{COTCPZZ}$$

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. Beginning in 1986, still gas for petrochemical feedstocks and still gas for other uses are reported together in the source document. State consumption estimates of these products are created in proportion to each State's crude oil 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 the estimated consumption of each individual product 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 in 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 such products 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 of miscellaneous product, and 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 because 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

Pentane 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 in 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 in the manufacture of corrugated and solid fiber boxes (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 the estimated consumption of waxes 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" comprises 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 on the basis of 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 accounting adjustments for "last in, first out" cost. This is a change from prior years in which respondents were permitted to value their inventories by 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 A2 on page 352 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

Petroleum used in the industrial sector 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

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 5. Renewable Energy

Renewable energy sources included in the State Energy Data System (SEDS) comprise biofuels (primarily wood, waste, and ethanol), geothermal, hydroelectric, wind, photovoltaic, and solar thermal energy sources. Extensive data collection for fuels used at electric utilities enables SEDS to include renewable energy used to produce electricity for all years covered in the system, 1960 forward. Renewable energy consumption estimates for the residential, commercial, industrial, and transportation sectors are available for 1990 forward.

Biofuels

Different forms of biofuels are used by each consuming sector. The residential and commercial sectors burn wood for space heating. The industrial sector's primary biofuel source is combustible industrial by-products used for electricity generation and process steam, followed in importance by wood chips. The transportation sector uses ethanol as an additive to motor gasoline. Electric utilities use wood, industrial wood waste and waste gas, and municipal waste as cofiring or primary fuels to produce electricity. Consumption of biofuels in the residential, commercial, industrial, and transportation sectors is included in SEDS for 1990 forward. Biofuels consumption by electric utilities to produce electricity is included from 1960 forward.

Residential and Commercial Sectors

Estimates of wood consumption in the residential sector by State are developed from data collected on the EIA triennial surveys, Residential Energy Consumption Survey (RECS) 1990 and 1993. The surveys provide data for the national total and for Census Divisions. The survey sample size of the 1993 RECS was large enough to provide data for California, Florida, New York, and Texas. Estimates for the other States are developed by allocating Division-level data to the States by using U.S. Department of Commerce, Bureau of the Census, number of housing units per State. Consumption for years between and following 1990 and 1993 is interpolated.

Commercial sector wood consumption is available only for 1993 and 1994 and only on the national level. The commercial sector data are combined with the residential sector in the *State Energy Data Report* (*SEDR*) tables.

The following data series and formulas are used to estimate biofuels consumption in the residential and commercial sectors. "ZZ" in the variable name represents the two-letter State code that differs for each State.

WDRCPZZ = wood consumed in the residential sector of each State, in thousand cords; and
WDCCBUS = wood consumed in the commercial sector in the United States, in billion Btu.

The State-level data are summed to a U.S. total:

$$WDRCPUS = \Sigma WDRCPZZ$$

The residential sector data in cords are converted to Btu and the commercial sector data in Btu are converted to cords by using the conversion factor of 20 million Btu per cord:

$$WDRCBZZ = WDRCPZZ * 20$$
$$WDRCBUS = \Sigma WDRCBZZ$$
$$WDCCPUS = WDCCBUS / 20$$

Residential and commercial sector consumption estimates are combined for display in the *State Energy Data Report* (*SEDR*) tables:

WWHCPZZ = WDRCPZZ
WWHCPUS = WDRCPUS + WDCCPUS
WWHCBZZ = WDRCBZZ
WWHCBUS = WDRCBUS + WDCCBUS

Industrial Sector

Industrial sector biofuels consumption estimates are based on national-level data published in the EIA, *Renewable Energy Annual 1995*, Table 2; State-level data collected on the Form EIA-867, "Annual Nonutility Power Producer Report"; national data collected by Standard Industrial Code (SIC) on the Form EIA-846, "1991 Manufacturing Energy Consumption Survey"; and State data for the value added in manufacture from the U.S. Department of Commerce, Bureau of the Census, Census of Manufactures, Industry Series.

The State data for wood consumption and for waste consumption in British thermal units (Btu) from the nonutility power producers report are summed, and the total is subtracted from the national value for industrial sector biofuels published in Btu in the *Renewable Energy Annual*. The difference is assumed to be used by the manufacturing sector. Based on information obtained from the EIA, "1991 Manufacturing Energy Consumption Survey," the assumption is made that biofuels use in the manufacturing sector occurs primarily in the industries included in SIC codes 2421 (sawmills and planing mills), 2541 (wood partitions and fixtures), and 2621 (paper mills). The State-level "Value Added in Manufacture" data series for these industries is used to allocate the derived U.S. total manufacturing biofuels consumption to the States. The State manufacturing biofuels consumption estimates are added to the nonutility State-level data to create State industrial sector biofuels estimates that equal the U.S. total published in the *Renewable Energy Annual*.

The estimates are entered into SEDS as State-level data in Btu. "ZZ" in the variable name represents the two-letter State code that differs for each State.

WWICBZZ = biofuels consumed by the industrial sector of each State, in billion Btu.

The U.S. total is calculated as the sum of the States' data:

WWICBUS = ΣWWICBZZ

There are no comparable physical units because industrial biofuels are measured in a variety of units (e.g., tons, cubic feet, and kilowatthours).

Transportation Sector

Biofuels are consumed in the transportation sector in the form of ethanol blended into motor gasoline. The data are collected from the States and reported in the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*. The ethanol estimates are shown separately in SEDS and in the *SEDR* tables to reveal the renewable energy data, but they are already accounted for within the motor gasoline data series.

WWACPZZ = ethanol for blending into motor gasoline by State, in thousand gallons.

The U.S. value published in the EIA, *Annual Energy Review* is greater than the sum of the States' values in *Highway Statistics*. The difference is entered in SEDS with the State code "OT" (other) that cannot be assigned to specific States. In SEDS, the U.S. value is calculated as the sum of the State-level values:

WWACPUS = ΣWWACPZZ

Ethanol is converted to equivalent British thermal units (Btu) by using a conversion factor of 76,400 Btu per gallon.

WWACBZZ = WWACPZZ * 0.0764
WWACBUS = ΣWWACBZZ

Electric Utilities

Electric utilities' generation of electricity from wood and waste energy, by State, are available combined from 1960 through 1981 and separately from 1982 forward from the Form EIA-759, "Monthly Power Plant Report." The data identifiers in SEDS are:

WDEOPZZ = electricity produced from wood energy sources at electric utilities in each State (included in waste energy for 1960 through 1981), in million kilowatthours; and

WSEOPZZ = electricity produced from waste energy sources at electric utilities in each State (includes wood energy for 1960 through 1981), in million kilowatthours.

The U.S. totals are calculated as the sum of the States' data, and wood and waste are summed to provide a biofuels (WW) value:

WDEOPUS = ΣWDEOPZZ
WSEOPUS = ΣWSEOPZZ
WWEOPZZ = WDEOPZZ + WSEOPZZ
WWEOPUS = ΣWWEOPZZ

Electricity produced from wood and waste sources is converted into Btu by using a conversion factor that is the U.S. average heat content of fossil fuels burned at steam-electric power plants, FFEOKUS. The annual values for this factor are shown in Appendix D, Table D1.

WDEOBZZ = WDEOPZZ * FFEOKUS
WDEOBUS = ΣWDEOBZZ

WSEOBZZ = WSEOPZZ * FFEOKUS
WSEOBUS = ΣWSEOBZZ

WWEOBZZ = WDEOBZZ + WSEOBZZ
WWEOBUS = ΣWWEOBZZ

Totals

State total consumption of biofuels is calculated as the sum of the residential/commercial and industrial sectors' values plus consumption at electric utilities. The U.S. total is the sum of the State data:

WWTCBZZ = WWHCBZZ + WWICBZZ + WWACBZZ + WWEOBZZ
WWTCBUS = WWHCBUS + WWICBUS + WWACBUS + WWEOBUS

Geothermal

Electricity generation by electric utilities from geothermal energy is included in the State Energy Data System (SEDS) for all years, 1960 forward, as collected on the Form EIA-759, "Monthly Power Plant Report.". Data for electricity produced from geothermal energy sources and imported into the United States from Mexico are available from 1990 forward and are based on data from EIA's Office of Coal, Nuclear, Electric and Alternate Fuels. Geothermal energy used by nonutility power producers to produce electricity, which is included in SEDS industrial sector for 1990 forward, is not available in kilowatthours but is expressed in British thermal units (Btu) and developed from data collected on the Form EIA-867 "Annual Nonutility Power Producers Report." These data series are identified in SEDS by the following names ("ZZ" in the variable name represents the two-letter State code that differs for each State):

GEICBZZ = electricity produced from geothermal energy in the industrial sector by State, in billion Btu;

GEEOPZZ = electricity produced from geothermal energy at electric utilities by State, in million kilowatthours; and

GEIMPZZ = electricity produced from geothermal energy and imported into the United States, by State, in million kilowatthours;

The U.S. totals for the State-level series are calculated by summing the State data:

GEICBUS = ΣGEICBZZ
GEEOPUS = ΣGEEOPZZ
GEIMPUS = ΣGEIMPZZ

Electricity imports produced from geothermal energy are added to the electricity produced from geothermal energy at electric utilities to be shown in the "Geothermal Energy" column of the *State Energy Data Report* (*SEDR*) tables titled "Energy Input at Electric Utilities."

GEENPZZ = GEEOPZZ + GEIMPZZ
GEENPUS = ΣGEENPZZ

To convert electricity produced from geothermal energy from kilowatthours into comparable Btu, a U.S. average factor that varies by year is used. The values for the factor, GEEOKUS, are shown in Appendix D, Table D1.

GEEOKUS = factor for converting electricity produced from geothermal energy from kilowatthours to Btu.

The values for each sector within each State are converted to Btu:

GEEOBZZ = GEEOPZZ * GEEOKUS
GEEOBUS = ΣGEEOBZZ
GEIMBZZ = GEIMPZZ * GEEOKUS
GEIMBUS = ΣGEIMBZZ
GEENBZZ = GEEOBZZ + GEIMBZZ
GEENBUS = ΣGETCBZZ

The State totals for geothermal energy are the sum of the industrial sector geothermal-based generation, available only in Btu, and the electric utilities' generation (including imports). The U.S. total is the sum of the State data.

GETCBZZ = GEICBZZ + GEENBZZ
GETCBUS = ΣGETCBZZ

Hydroelectric Power

Electricity produced from hydropower in the industrial sector and by electric utilities is included in SEDS for all years. The industrial sector includes estimates of hydroelectricity generation by industries for their own use for all years, as well as generation by nonutility power producers for sale in 1990 forward as collected on the Form EIA-867, "Annual Nonutility Power Producers Report." Industrial data for 1990 forward are not available in kilowatthours, but are included in SEDS in equivalent British thermal units (Btu). Electric utilities' use of hydropower is collected on the Form EIA-759, "Monthly Power Plant Report" and includes two types of hydropower—conventional and pumped storage. Conventional hydroelectric power uses falling water to drive turbines to produce electricity. With pumped storage hydroelectricity, energy is used to pump water into higher storage areas during non-peak hours so that it can be released to drive turbines during times of peak electricity demand. Because pumped storage hydroelectricity uses energy, it is not considered a renewable energy source; however, it is discussed in this chapter with other hydropower.

The hydroelectric data series included in SEDS are identified by the following data series names ("ZZ" in the name represents the two-letter State code that differs for each State):

HVEOPZZ = electricity produced by conventional hydroelectric power at electric utilities, in million kilowatthours;
HPEOPZZ = electricity produced by pumped storage hydroelectric power at electric utilities, in million kilowatthours;
HYICPZZ = electricity produced by hydroelectric power at industrial facilities, by State, in million kilowatthours (available for 1960-1989 only);
HYICBZZ = electricity produced by hydroelectric power at industrial facilities, by State, in billion Btu;
HYIMPZZ = electricity produced from hydroelectric power and imported into the United States, by State, in million kilowatthours; and
HYEXPZZ = electricity produced from hydroelectric power and exported from the United States, by State, in million kilowatthours.

The U.S. value for each of the series is the sum of the State data.

Total electricity produced from hydropower at electric utilities is calculated as the sum of conventional and pumped storage hydroelectric power.

HYEOPZZ = HVEOPZZ + HPEOPZZ
HYEOPUS = ΣHYEOPZZ

Hydroelectric-based electricity that is imported and exported across U.S. borders is added to the electric utility hydroelectric generation and shown in the "Hydroelectric Power" column of the *State Energy Data Report (SEDR)* tables titled "Energy Input at Electric Utilities."

HYENPZZ = HYEOPZZ + HYIMPZZ - HYEXPZZ
HYENPUS = ΣHYENPZZ

Additional calculations are done to estimate the renewable portion of hydroelectric power at electric utilities, i.e., excluding hydroelectricity produced from pumped storage:

HVENPZZ = HVEOPZZ + HYIMPZZ - HYEXPZZ
HVENPUS = ΣHVENPZZ

Electricity produced from hydroelectric power is converted from kilowatthours into Btu by using a conversion factor that is the U.S. average heat content of fossil fuels consumed at steam-electric power plants, FFEOKUS. The annual values for this factor are shown in Appendix D, Table D1.

HPEOBZZ = HPEOPZZ * FFEOKUS
HVEOBZZ = HVEOPZZ * FFEOKUS
HYEOBZZ = HPEOBZZ + HVEOBZZ

HYIMBZZ = HYIMPZZ * FFEOKUS
HYEXBZZ = HYEXPZZ * FFEOKUS
HYENBZZ = HYEOPZZ + HYIMBZZ - HYEXBZZ
HVENBZZ = HVEOPZZ + HYIMBZZ - HYEXBZZ

The U.S. value for each of the series is the sum of the State data.

Total hydroelectricity consumption for each State is the sum of the electric utilities generation (plus imports and minus exports) and the industrial sector generation:

HYTCBZZ = HYENBZZ + HYICBZZ
HYTCBUS = ΣHYTCBZZ

Solar

Estimates of solar energy use for the residential and commercial sectors combined and the industrial sector are included in the State Energy Data System (SEDS) for 1990 forward. Generation of electricity by electric utilities from solar energy sources is included in SEDS for 1984 forward.

Residential/Commercial Sector

Solar thermal energy use in the residential and commercial sectors combined is estimated by using data on shipments of solar thermal collectors to State destinations, measured in thousand square feet, as collected on the Energy Information Administration Form CE-63A, "Annual Solar Thermal Collector Manufacturers Survey," and predecessor surveys. The data are published for recent years in the EIA, *Renewable Energy Annual*. The assumptions are that: (1) the retirement/replacement period for solar thermal collectors is 20 years and, therefore, the cumulative square footage of solar thermal collectors produced since 1974 are still in use; (2) the daily average energy output of all three categories of solar thermal collectors is 1,500 Btu per square foot; and (3) the average efficiency of the collectors is 50 percent. See Appendix C for detailed source references.

SOHCBZZ = energy produced by solar thermal energy collectors in the residential and commercial sectors combined, in billion Btu.

The U.S. total is calculated as the sum of the State data:

SOHCBUS = ΣSOHCBZZ

Solar thermal energy is converted to equivalent kilowatthours by using the standard thermal conversion factor for electricity of 3.412 thousand Btu per kilowatthour:

SOHCPZZ = SOHCBZZ / 3.412
SOHCPUS = ΣSOHCPZZ

Industrial Sector and Electric Utilities

Estimates of electricity produced from photovoltaic and solar thermal energy sources by nonutility power producers are included in the SEDS industrial sector for 1990 forward, in Btu, from data collected on the Form EIA-867, "Annual Nonutility Power Producers

Report." Electric utilities' generation from solar sources are included for 1984 forward as collected on the Form EIA-759, "Monthly Power Plant Report." The data are identified in SEDS by the following names ("ZZ" in the variable name represents the two-letter State code that differs for each State):

SOEOPZZ = electricity produced from photovoltaic and solar thermal energy sources at electric utilities, by State, in million kilowatthours; and

SOICBZZ = electricity produced from photovoltaic and solar thermal energy sources by nonutility power producers, by State, in billion Btu.

The U.S. totals for the State-level series are calculated as the sum of the State data:

SOEOPUS = ΣSOEOPZZ
SOICBUS = ΣSOICBZZ

Electricity produced from photovoltaic and solar thermal energy at electric utilities is converted from kilowatthours to Btu by using a conversion factor that is the U.S. average heat content of fossil fuels consumed at steam-electric power plants, FFEOKUS. The annual values for this factor are shown in Appendix D, Table D1.

SOEOBZZ = SOEOPZZ * FFEOKUS
SOEOBUS = ΣSOEOBZZ

Totals

Each State's total use of photovoltaic and solar thermal energy sources is the sum of the sectors' values, and the U.S. total is the sum of the States' totals:

SOTCBZZ = SOHCBZZ + SOICBZZ + SOEOBZZ
SOTCBUS = ΣSOTCBZZ

Wind

Wind energy used to produce electricity by nonutility power producers is included in the SEDS industrial sector for 1990 forward in Btu from data collected on the Form EIA-867, "Annual Nonutility Power Producers Report." Electricity generation from wind energy by electric utilities is included for 1983 forward as collected on the Form EIA-759, "Monthly Power Plant Report." The data are identified in SEDS by the following names ("ZZ" in the variable name represents the two-letter State code that differs for each State):

WYEOPZZ = electricity produced from wind energy at electric utilities, by State, in million kilowatthours; and

WYICBZZ = electricity produced from wind energy in the industrial sector, by State, in billion Btu.

The U.S. totals are calculated as the sum of the State data:

WYEOPUS = ΣWYEOPZZ
WYICBUS = ΣWYICBZZ

Electricity produced from wind energy at electric utilities is converted from kilowatthours to Btu by using a conversion factor that is the U.S. average heat content of fossil fuels consumed at steam-electric power plants, FFEOKUS. The annual values for this factor are shown in Appendix D, Table D1.

WYEOBZZ = WYEOPZZ * FFEOKUS
WYEOBUS = ΣWYEOBZZ

The State and U.S. totals for wind energy are calculated:

WYTCBZZ = WYEOBZZ + WYICBZZ
WYTCBUS = ΣWYTCBZZ

Additional Calculations

Additional calculations are made in SEDS to aggregate some data series to be shown in table columns in this report. Geothermal,

wind, photovoltaic, and solar thermal energy sources are combined to be shown in the "Other" column in tables titled "Energy Consumption Estimates by Source" and "Industrial Energy Consumption Estimates." The variables are calculated for each State and the United States in billion Btu as follows:

GOICBZZ = GEICBZZ + SOICBZZ + WYICBZZ
GOICBUS = ΣGOICBZZ

GOTCBZZ = GETCBZZ + SOTCBZZ + WYTCBZZ
GOTCBUS = ΣGOTCBZZ

Renewable energy sources included in SEDS for 1960 through 1989 are only those used by the electric utilities to produce electricity and hydroelectricity used in the industrial sector. These data are available in kilowatthours and are shown in both the physical unit portion of *SEDR* tables, as well as in the Btu portion. The calculations to provide the data in million kilowatthours for 1960 through 1989 only are:

GETCPZZ = GEENPZZ + GEICPZZ
GETCPUS = ΣGETCPZZ

GOTCPZZ = GETCPZZ + SOTCPZZ + WYTCPZZ
GOTCPUS = ΣGOTCPZZ

HYTCPZZ = HYENPZZ + HYICPZZ
HYTCPUS = ΣHYTCPZZ

SOTCPZZ = SOHCPZZ + SOICPZZ + SOEOPZZ
SOTCPUS = ΣSOTCPZZ

WWTCPZZ = WWEOPZZ
WWTCPUS = WWEOPUS

WYTCPZZ = WYEOPZZ + WYICPZZ
WYTCPUS = ΣWYTCPZZ

Renewable Energy Total

Renewable energy subtotals for each consuming sector in thousand Btu are calculated with the same formulas for each State and the U.S. totals. Renewable energy subtotals can also be calculated in physical units for the transportation sector (thousand gallons) and electric utilities (million kilowatthours).

REHCB = WWHCB + SOHCB

REICB = HYICB + WWICB + GOICB

REACP = WWACP
REACB = WWACB

REEOP = HVENP + GEENP + WWEOP + WNEOP
REEOB = HVENB + GEENB + WWEOB + WNEOB

RETCB = REHCB + REICB + REACB + REEOB

Section 6. 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 produced from a number of energy sources. In the State Energy Data System (SEDS), coal, natural gas, and petroleum are measured in physical units of thousand short tons, million cubic feet, and thousand barrels, respectively, as they are consumed by the electric utilities. Because comparable measures in physical units for nuclear power, hydroelectric, biomass fuels, geothermal, wind, photovoltaic, and solar thermal energy sources are not available, energy output in the form of electricity produced 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):

CLEUPZZ = coal consumed by electric utilities (described in Section 2 of this report), in thousand short tons;

ELEXPZZ = electricity exported from the United States (assumed to be produced from hydroelectric power through 1989), in million kilowatthours;

ELIMPZZ = electricity imported into the United States (assumed to be produced from hydroelectric power through 1989), in million kilowatthours;

GEEOPZZ = electricity produced from geothermal energy at electric utilities (described in Section 5), in million kilowatthours;

GEIMPZZ = electricity produced from geothermal energy and imported into the United States (described in Section 5), in million kilowatthours;

HPEOPZZ = electricity produced from pumped storage hydroelectric power at electric utilities (described in Section 5), in million kilowatthours;

HVEOPZZ = electricity produced from conventional hydroelectric power at electric utilities (described in Section 5), in million kilowatthours;

HYEXPZZ = electricity produced from hydroelectric power and exported from the United States (described in Section 5), in million kilowatthours;

HYIMPZZ = electricity produced from hydroelectric power and imported into the United States (described in Section 5), in million kilowatthours;

NGEUPZZ = natural gas consumed by electric utilities (described in Section 3), in million cubic feet;

NUEOPZZ = electricity produced from nuclear power at electric utilities, in million kilowatthours;

PAEUPZZ = petroleum consumed by electric utilities (described in Section 4), in thousand barrels;

SOEOPZZ = electricity produced from photovoltaic and solar thermal energy sources at electric utilities (described in Section 5), in million kilowatthours;

WDEOPZZ = electricity produced from wood energy sources at electric utilities (described in Section 5), in million kilowatthours;

WSEOPZZ = electricity produced from waste energy sources at electric utilities (described in Section 5), in million kilowatthours; and

WYEOPZZ = electricity produced from wind energy at electric utilities (described in Section 5), in million kilowatthours.

The U.S. totals for these series are calculated as the sum of the State data, with the exception of coal, which is the sum of the U.S. totals for each rank of coal as described in Section 2.

British Thermal Units (Btu)

In order to total all the energy that is used to produce electricity, the energy sources are converted to the common unit of Btu. The methods for calculating the Btu content of coal, natural gas, petroleum, and renewable energy sources consumed by utilities are explained in their respective sections of this documentation. The following factors are used to convert the remaining components:

FFEOKUS = average factor for fossil fuels burned at steam-electric power plants, used to convert selected electricity series from kilowatthours to Btu, and
NUEOKUS = factor for converting nuclear electricity from kilowatthours to Btu.

These U.S. average factors, which vary from year to year, can be found in Appendix D, Table D1. The U.S. average conversion factor for fossil fuels burned at steam-electric power plants (FFEOKUS) is used to convert biofuels, hydroelectric power, wind, photovoltaic, and solar thermal energy sources (as described in Section 5) as well as electricity imports and exports derived from nonrenewable energy sources described in this section. The factor for converting electricity produced from nuclear energy (NUEOKUS) is developed from data collected from nuclear steam-electric power plants. The formulas for applying the nuclear factor are:

NUEOBZZ = NUEOPZZ * NUEOKUS
NUEOBUS = ΣNUEOBZZ

Electricity Imports and Exports

Imports and exports of electricity across U.S. borders prior to 1990 are assumed to be based on hydroelectric power. Beginning with 1990, traded electricity is identified in SEDS as derived from hydroelectric power, geothermal energy, or nonrenewable energy sources. Electricity imports and exports based on renewable energy sources are summed in million kilowatthours and billion Btu and identified with "ER" as the source code in the variable name:

EREXPZZ = HYEXPZZ
EREXPUS = ΣEREXPZZ
ERIMPZZ = HYIMPZZ + GEIMPZZ
ERIMPUS = ΣERIMPZZ

EREXBZZ = HYEXBZZ
EREXBUS = ΣEREXBZZ
ERIMBZZ = HYIMBZZ + GEIMBZZ
ERIMBUS = ΣERIMBZZ

Imports and exports of electricity produced from nonrenewable energy sources ("EX"), in million kilowatthours, are calculated by subtracting renewable-based imports and exports from total electricity imports and exports :

EXIMPZZ = ELIMPZZ - ERIMPZZ
EXIMPUS = ΣEXIMPZZ
EXEXPZZ = ELEXPZZ - EREXPZZ
EXEXPUS = ΣEXEXPZZ

Nonrenewable-based electricity imports and exports are converted from million kilowatthours to billion Btu using the average conversion factor for fossil fuels burned at steam-electric power plants (FFEOKUS):

EXIMBZZ = EXIMPZZ * FFEOKUS
EXIMBUS = ΣEXIMBZZ
EXEXBZZ = EXEXPZZ * FFEOKUS
EXEXBUS = ΣEXEXBZZ

Net imports of electricity produced from nonrenewable energy sources is calculated by subtracting exports from imports:

EXNIPZZ = EXIMPZZ - EXEXPZZ
EXNIPUS = ΣEXNIPZZ

EXNIBZZ = EXIMBZZ - EXEXBZZ
EXNIBUS = ΣEXNIBZZ

Net imports of renewable-based electricity are included in the "Total" column of SEDR tables titled "Energy Consumption Estimates by Source" and "Estimates of Energy Input at Electric Utilities" but are not shown separately in the tables' columns. Table A8 provides the data by State and year.

Total imports and exports of electricity are calculated in billion Btu by summing the renewable and nonrenewable components:

ELIMBZZ = HYIMBZZ + GEIMBZZ + EXIMBZZ
ELIMBUS = ΣELIMBZZ
ELEXBZZ = HYEXBZZ + EXEXBZZ
ELEXBUS = ΣELEXBZZ

Total Energy Input

A total of all energy input at electric utilities, including imports and exports of electricity across U.S. borders, is calculated by the following formulas for each State and for the United States:

TEEUBZZ = PAEUBZZ + NGEUBZZ + CLEUBZZ + HYENBZZ + NUEOBZZ + GEENBZZ + WWEOBZZ + WNEOBZZ + EXNIBZZ
TEEUBUS = ΣTEEUBZZ

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:

Table A8. Net Imports of Electricity Produced from Nonrenewable Energy Sources, 1990–1994
(Trillion Btu)

State	1990	1991	1992	1993	1994
Alabama	0.000	0.000	0.000	0.000	0.000
Alaska	0.000	0.000	0.000	0.000	0.000
Arizona	-0.021	1.101	-0.022	-0.023	-0.026
Arkansas	0.000	0.000	0.000	0.000	0.000
California	16.108	21.801	17.437	14.662	14.891
Colorado	0.000	0.000	0.000	0.000	0.000
Connecticut	0.384	0.419	2.304	2.544	4.097
Delaware	0.000	0.000	0.000	0.000	0.000
Dist. of Col.	0.000	0.000	0.000	0.000	0.000
Florida	0.000	0.000	0.000	0.000	0.000
Georgia	0.000	0.000	0.000	0.000	0.000
Hawaii	0.000	0.000	0.000	0.000	0.000
Idaho	0.194	0.308	0.627	0.311	0.759
Illinois	0.000	0.000	0.000	0.000	0.000
Indiana	0.000	0.000	0.000	0.000	0.000
Iowa	0.000	0.000	0.000	0.000	0.000
Kansas	0.000	0.000	0.000	0.000	0.000
Kentucky	0.000	0.000	0.000	0.000	0.000
Louisiana	0.000	0.000	0.000	0.000	0.000
Maine	1.952	1.429	2.081	0.640	9.997
Maryland	0.000	0.000	0.000	0.000	0.000
Massachusetts	4.414	4.345	4.129	4.350	16.468
Michigan	-113.160	-5.441	-2.922	1.981	28.106
Minnesota	-17.833	-3.112	-0.750	-5.172	24.422
Mississippi	0.000	0.000	0.000	0.000	0.000
Missouri	0.000	0.000	0.000	0.000	0.000
Montana	0.073	0.038	0.072	0.048	0.465
Nebraska	0.000	0.000	0.000	0.000	0.000
Nevada	0.000	0.007	0.094	0.078	0.047
New Hampshire	0.384	2.043	2.304	2.544	4.396
New Jersey	0.000	0.000	0.000	0.000	0.000
New Mexico	0.000	0.000	0.000	0.000	0.000
New York	-17.038	-3.420	-1.122	8.133	45.249
North Carolina	0.000	0.000	0.000	0.000	0.000
North Dakota	0.330	-2.189	1.269	0.216	2.352
Ohio	0.000	0.000	0.000	0.000	0.000
Oklahoma	0.000	0.000	0.000	0.000	0.000
Oregon	4.637	8.279	14.899	7.785	16.037
Pennsylvania	0.000	0.000	0.000	0.000	0.000
Rhode Island	0.384	0.419	2.304	2.544	2.228
South Carolina	0.000	0.000	0.000	0.000	0.000
South Dakota	0.000	0.318	0.697	0.000	1.428
Tennessee	0.000	0.000	0.000	0.000	0.000
Texas	-0.656	-4.625	-9.915	-8.235	-9.909
Utah	0.000	0.000	0.000	0.000	0.000
Vermont	1.338	3.441	-3.816	3.151	2.967
Virginia	0.000	0.000	0.000	0.000	0.000
Washington	5.610	-2.057	6.765	-5.426	-6.501
West Virginia	0.000	0.000	0.000	0.000	0.000
Wisconsin	0.000	1.276	2.322	0.000	4.759
Wyoming	0.000	0.000	0.000	0.000	0.000
United States	**-112.901**	**24.381**	**38.755**	**30.130**	**162.230**

Source: State Energy Data System 1994.

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 five State-level series are calculated as the sum of the State data.

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, first, by 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 2 on page 398 for further information on this share.) Next, State transportation use of electricity is 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

Finally, 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 as illustrated in the formulas:

ESRCBZZ = ESRCPZZ * 3.412
ESTCBZZ = ESTCPZZ * 3.412

And U.S. totals in Btu are calculated by summing the States' Btu values.

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

Because Alaska and Hawaii have no exchanges of electricity with other States, their electrical system energy losses are estimated as the difference between the sum of all energy input at the State's electric utilities and the electricity sold within the State:

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

Over the 35-year period now covered in SEDS, the ratio is fairly constant, with a slight downward trend. For 1960, the ratio is 2.5; for 1961 through 1983 the ratio is 2.4; for 1984 through 1988 the ratio is 2.3; for 1989 through 1991 it is 2.2; and for 1992 forward the losses-to-sales ratio is 2.1. The decline in the ratio in recent years is partially attributed to the fact that electricity produced by nonutility power producers is included in the electricity sales data while the resources consumed to produce the nonutility electricity are not. When the nonutility production is subtracted from the electricity sales, the ratio remains at 2.3 for 1989 through 1993 and is 2.2 for 1994.

The 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(HI) = (ESRCBAK(HI) / ESTCBAK(HI)) * LOTCBAK(HI)
LOCCBAK(HI) = (ESCCBAK(HI)/ ESTCBAK(HI)) * LOTCBAK(HI)
LOICBAK(HI) = (ESICBAK(HI)/ ESTCBAK(HI)) * LOTCBAK(HI)
LOACBAK(HI) = (ESACBAK(HI)/ ESTCBAK(HI)) * LOTCBAK(HI)

Losses for the United States, including Alaska and Hawaii, are the sums of all the States' losses.

Physical Units

Estimates of losses in physical units of million kilowatthours are made by dividing the Btu estimate by the constant 3.412 thousand Btu per kilowatthour as illustrated in the following formulas:

LORCPZZ = LORCBZZ/3.412 LORCPUS = LORCBUS/3.412
LOTCPZZ = LOTCBZZ/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 million 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 other 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.

Table A9. Railroads and Railways Share of Other Electricity Sales

Year	ESTRSUS	Year	ESTRSUS	Year	ESTRSUS
1960	0.09967	1972	0.04437	1984	0.04134
1961	0.10461	1973	0.04156	1985	0.04360
1962	0.10506	1974	0.04524	1986	0.04380
1963	0.09294	1975	0.04409	1987	0.04258
1964	0.08859	1976	0.04384	1988	0.04453
1965	0.08345	1977	0.04300	1989	0.04449
1966	0.07785	1978	0.03583	1990	0.04486
1967	0.06762	1979	0.04195	1991	0.04324
1968	0.06008	1980	0.04226	1992	0.04286
1969	0.05352	1981	0.03821	1993	0.04064
1970	0.05177	1982	0.03736	1994	0.04051
1971	0.04823	1983	0.03980		

Additional Notes on Electricity

1. The source for the electricity sales data for 1960 through 1983 is the Energy Information Administration (EIA) Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms. Electricity sales data for 1984 forward are from Form EIA-861, "Annual Electric Utility Report." At the national level, data from both forms correspond closely (within 3 percent) for all end-use sectors. However, differences in the number of survey respondents and the reporting of commercial and industrial sales caused inconsistencies between 1983 and 1984 data in those end-use sectors for some States. See the EIA's, *Electric Power Annual, 1991*, DOE/EIA-0348(91), p. 130, and *An Assessment of the Quality of Selected EIA Data Series, Electric Power Data*, DOE/EIA-0292(87), pp. 17–28, for detailed discussions of the reporting differences.

2. Annual estimates of the electricity sales to the transportation sector, which are a portion of "Other" sales in the source document, are made by 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 shown in Table A9.

3. The source for the electricity sales data for 1960 through 1983 is the EIA 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.

Alternative Method for Calculating Interstate Sales of Electricity and Electrical System Energy Losses

EIA is examining a method to disaggregate the estimates of net interstate sales of electricity and electrical system energy losses as shown in Tables A10 through A18.

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 A10 through A18. 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

Subtracting energy output by electric utilities, ELEOBZZ (shown in column 3 of Tables A10 through A18), 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 kilowatthours. These data are converted to Btu by using the standard conversion factor and are shown in column 4 of Tables A10 through A18. 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 by 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 A10 through A18 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 nonutilities is shown in the footnotes on Tables A10 through A18.

Comments on these methodologies would be appreciated.

Table A10. Disaggregated Data for Net Interstate Flow and Electrical System Energy Losses, 1994

(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 [a] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) - (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alabama	965,330	640,606	324,724	0	324,724	20,712	304,012	230,585	-73,426	-253,868
Alaska	52,230	35,981	16,248	0	16,248	1,194	15,055	15,468	413	0
Arizona	739,441	496,494	242,947	-8	242,939	11,376	231,563	161,326	-70,236	-241,650
Arkansas	424,151	289,214	134,937	0	134,937	8,565	126,372	111,296	-15,076	-80,751
California	1,373,500	941,032	432,468	12,696	445,164	72,399	372,765	729,091	356,326	825,385
Colorado	351,176	237,473	113,703	0	113,703	8,295	105,408	117,722	12,314	12,050
Connecticut	289,348	196,536	92,811	3,462	96,273	6,200	90,073	95,624	5,551	-4,727
Delaware	87,055	58,049	29,006	0	29,006	1,785	27,221	31,728	4,507	10,841
Dist. of Col.	4,131	3,195	936	0	936	1,946	-1,010	35,125	36,135	104,247
Florida	1,413,794	930,004	483,790	0	483,790	33,135	450,656	544,365	93,710	265,823
Georgia	1,004,602	667,658	336,944	0	336,944	20,583	316,362	306,783	-9,578	-58,034
Hawaii	64,665	44,005	20,660	0	20,660	1,947	18,713	30,532	11,819	0
Idaho	75,019	50,100	24,918	642	25,560	6,268	19,292	67,826	48,534	132,324
Illinois	1,491,275	1,021,287	469,988	0	469,988	30,906	439,081	414,524	-24,557	-212,277
Indiana	1,080,921	727,829	353,092	0	353,092	16,524	336,569	285,951	-50,617	-198,630
Iowa	349,710	240,649	109,060	0	109,060	7,139	101,921	112,730	10,809	-1,886
Kansas	414,597	287,385	127,213	0	127,213	8,195	119,017	101,042	-17,975	-102,835
Kentucky	851,033	564,094	286,939	0	286,939	16,903	270,036	247,320	-22,716	-87,937
Louisiana	653,797	448,498	205,300	0	205,300	12,320	192,980	239,290	46,310	84,521
Maine	96,203	65,442	30,761	10,655	41,416	2,274	39,142	39,599	457	-6,098
Maryland	450,512	301,183	149,328	0	149,328	10,049	139,279	186,813	47,534	125,891
Massachusetts	278,042	184,328	93,714	13,916	107,630	9,255	98,375	157,264	58,889	165,294
Michigan	854,358	568,703	285,655	23,767	309,421	22,124	287,298	311,038	23,740	33,786
Minnesota	456,471	316,861	139,610	24,099	163,709	12,014	151,695	174,541	22,846	9,518
Mississippi	289,843	200,373	89,471	0	89,471	11,882	77,589	124,970	47,381	95,746
Missouri	651,750	441,847	209,903	0	209,903	16,547	193,356	203,672	10,316	-23,329
Montana	263,240	178,946	84,294	410	84,704	5,572	79,131	44,984	-34,147	-125,676
Nebraska	236,796	161,918	74,878	0	74,878	6,256	68,622	67,807	-815	-27,579
Nevada	229,765	159,754	70,011	39	70,051	4,553	65,498	68,364	2,866	-18,950
New Hampshire	126,829	86,267	40,562	3,715	44,277	2,799	41,478	30,559	-10,919	-43,725
New Jersey	349,015	240,064	108,951	0	108,951	13,164	95,786	226,071	130,284	348,518
New Mexico	312,035	209,613	102,421	0	102,421	3,947	98,475	54,110	-44,365	-145,080
New York	1,093,707	739,668	354,039	42,468	396,507	38,811	357,696	447,574	89,879	159,415
North Carolina	918,549	606,505	312,044	0	312,044	21,140	290,904	340,481	49,577	131,991
North Dakota	326,253	227,292	98,961	2,477	101,438	3,162	98,275	26,207	-72,069	-252,850
Ohio	1,315,848	875,629	440,218	0	440,218	33,040	407,178	526,733	119,555	309,367
Oklahoma	474,593	319,754	154,839	0	154,839	10,299	144,539	140,381	-4,158	-41,452
Oregon	385,754	257,838	127,916	13,552	141,468	11,993	129,475	153,440	23,965	46,880
Pennsylvania	1,744,394	1,167,667	576,727	0	576,727	29,472	547,255	419,830	-127,425	-449,026
Rhode Island	1,067	833	234	1,883	2,117	1,159	959	22,423	21,465	62,450
South Carolina	774,198	521,049	253,149	0	253,149	11,536	241,613	211,059	-30,553	-122,983
South Dakota	84,222	56,956	27,266	1,207	28,473	1,995	26,478	24,478	-2,000	-12,329
Tennessee	756,255	500,855	255,400	0	255,400	23,881	231,519	281,604	50,084	112,622
Texas	2,702,423	1,831,884	870,540	-3,292	867,248	54,095	813,153	880,909	67,757	25,496
Utah	348,976	231,415	117,561	0	117,561	5,981	111,580	60,894	-50,686	-161,089
Vermont	56,303	38,240	18,063	4,207	22,270	2,486	19,784	17,287	-2,497	-15,631
Virginia	540,254	360,331	179,923	0	179,923	18,024	161,899	280,501	118,602	325,221
Washington	849,480	568,510	280,970	-7,610	273,360	21,367	251,992	297,299	45,307	90,736
West Virginia	762,449	497,327	265,122	0	265,122	6,814	258,307	84,535	-173,773	-501,620
Wisconsin	528,234	359,553	168,681	4,022	172,703	12,565	160,138	189,064	28,927	43,009
Wyoming	454,280	309,826	144,454	0	144,454	3,721	140,733	39,908	-100,825	-331,146
United States	**30,397,873**	**20,466,524**	**9,931,350**	**152,304**	**10,083,654**	**718,369**	**9,365,285**	**10,012,728**	**647,444**	**0**

[a] Includes electricity generated by nonutility power producers. The U.S. total electricity purchased from nonutilities for distribution in 1994 was 712,349 billion Btu.

Source: Energy Information Administration calculations using data from the State Energy Data System, the Form EIA-759 database, and the Form EIA-861 database.

Table A11. Disaggregated Data for Net Interstate Flow and Electrical System Energy Losses, 1993
(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 [a] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) - (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alabama	954,580	633,430	321,150	0	321,150	23,753	297,397	221,977	-75,420	-263,803
Alaska	51,157	35,526	15,631	0	15,631	1,195	14,436	14,926	491	0
Arizona	705,662	473,561	232,101	-8	232,094	12,015	220,078	151,520	-68,559	-234,121
Arkansas	405,976	276,153	129,823	0	129,823	7,765	122,059	108,034	-14,025	-69,782
California	1,386,987	957,818	429,168	11,925	441,093	69,463	371,630	718,226	346,596	802,827
Colorado	345,573	234,044	111,529	0	111,529	7,492	104,037	112,452	8,415	4,370
Connecticut	304,939	206,964	97,975	3,670	101,646	7,447	94,198	92,938	-1,261	-26,782
Delaware	88,170	59,829	28,342	0	28,342	1,821	26,520	31,121	4,601	8,677
Dist. of Col.	2,984	2,341	643	0	643	2,075	-1,432	35,398	36,830	107,173
Florida	1,414,930	937,022	477,908	0	477,908	35,172	442,736	521,176	78,439	206,932
Georgia	961,522	634,866	326,656	0	326,656	16,594	310,062	304,320	-5,742	-14,500
Hawaii	66,171	45,413	20,758	0	20,758	1,925	18,833	29,541	10,708	0
Idaho	92,753	61,968	30,785	449	31,235	6,009	25,225	63,872	38,647	104,658
Illinois	1,524,835	1,046,878	477,956	0	477,956	32,154	445,803	401,887	-43,916	-274,190
Indiana	1,042,020	700,987	341,033	0	341,033	15,986	325,047	279,550	-45,497	-172,080
Iowa	335,288	229,545	105,744	0	105,744	6,791	98,953	109,539	10,586	5,588
Kansas	404,593	280,285	124,308	0	124,308	7,624	116,684	98,294	-18,389	-98,708
Kentucky	858,907	568,895	290,012	0	290,012	14,575	275,437	232,525	-42,912	-135,305
Louisiana	641,073	438,562	202,511	0	202,511	14,440	188,071	231,183	43,112	78,352
Maine	86,257	58,702	27,555	7,328	34,883	1,162	33,721	40,781	7,061	18,574
Maryland	447,758	299,376	148,382	0	148,382	10,866	137,516	183,813	46,297	124,254
Massachusetts	285,386	189,292	96,094	6,277	102,371	10,448	91,923	154,498	62,575	176,489
Michigan	953,363	638,605	314,757	3,179	317,936	21,614	296,322	298,852	2,530	-32,933
Minnesota	449,742	308,983	140,759	21,789	162,548	12,134	150,414	167,907	17,493	7,126
Mississippi	252,963	173,688	79,275	0	79,275	12,760	66,515	118,565	52,050	116,002
Missouri	566,973	385,447	181,526	0	181,526	16,828	164,698	200,018	35,321	55,470
Montana	250,261	170,259	80,002	102	80,105	5,697	74,407	44,115	-30,293	-113,288
Nebraska	244,317	166,782	77,535	0	77,535	6,282	71,253	63,972	-7,282	-45,242
Nevada	212,357	144,730	67,627	112	67,739	3,655	64,085	63,118	-967	-16,277
New Hampshire	157,037	107,270	49,767	3,670	53,438	2,204	51,233	29,892	-21,341	-75,073
New Jersey	371,782	254,802	116,979	0	116,979	17,444	99,535	223,898	124,363	324,972
New Mexico	300,306	203,527	96,779	0	96,779	4,502	92,277	50,931	-41,347	-141,814
New York	1,117,209	754,464	362,745	23,342	386,087	38,930	347,157	444,141	96,984	194,599
North Carolina	887,123	584,296	302,827	0	302,827	22,176	280,651	340,441	59,790	172,305
North Dakota	320,970	223,729	97,241	4,855	102,096	3,099	98,997	25,358	-73,639	-256,686
Ohio	1,355,555	899,250	456,305	0	456,305	33,369	422,936	506,923	83,987	221,954
Oklahoma	508,627	342,085	166,542	0	166,542	10,586	155,956	138,293	-17,663	-78,270
Oregon	416,672	277,657	139,015	11,234	150,249	12,192	138,057	152,100	14,042	22,805
Pennsylvania	1,700,816	1,133,739	567,077	0	567,077	31,406	535,670	409,377	-126,293	-426,864
Rhode Island	853	669	183	3,670	3,854	1,156	2,698	22,343	19,645	57,619
South Carolina	790,248	532,341	257,908	0	257,908	12,510	245,398	209,950	-35,448	-136,900
South Dakota	55,595	37,663	17,932	0	17,932	1,909	16,023	23,559	7,536	17,719
Tennessee	709,573	465,225	244,348	0	244,348	27,587	216,761	272,387	55,627	138,078
Texas	2,601,918	1,755,148	846,771	-2,733	844,037	60,678	783,360	853,288	69,928	61,689
Utah	340,101	225,933	114,169	0	114,169	5,598	108,571	57,551	-51,020	-161,008
Vermont	45,670	30,997	14,673	9,213	23,887	1,985	21,902	17,113	-4,789	-20,174
Virginia	531,158	353,113	178,045	0	178,045	18,595	159,450	277,641	118,191	332,840
Washington	866,116	580,289	285,827	-11,082	274,745	23,948	250,796	308,693	57,896	127,903
West Virginia	699,898	457,379	242,518	0	242,518	6,836	235,683	83,394	-152,288	-440,380
Wisconsin	513,273	350,306	162,967	0	162,967	12,304	150,663	181,370	30,706	51,137
Wyoming	432,114	295,106	137,007	0	137,007	3,772	133,235	40,552	-92,683	-305,918
United States	**30,060,111**	**20,224,936**	**9,835,175**	**96,994**	**9,932,168**	**738,530**	**9,193,638**	**9,763,310**	**569,671**	**0**

[a] Includes electricity generated by nonutility power producers. The U.S. total electricity purchased from nonutilities for distribution in 1993 was 643,288 billion Btu.

Source: Energy Information Administration calculations using data from the State Energy Data System, the Form EIA-759 database, and the Form EIA-861 database.

Table A12. Disaggregated Data for Net Interstate Flow and Electrical System Energy Losses, 1992
(Billion Btu)

State	(1) Total Energy Input at Electric Utilities (TEUB)	(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 [a] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) - (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alabama	919,855	610,071	309,783	0	309,783	21,144	288,639	212,113	-76,527	-254,926
Alaska	47,257	33,039	14,218	0	14,218	1,158	13,060	14,804	1,745	0
Arizona	733,410	494,198	239,212	-7	239,204	11,727	227,477	148,938	-78,539	-266,498
Arkansas	397,587	270,081	127,506	0	127,506	7,724	119,782	97,075	-22,707	-93,276
California	1,326,663	919,579	407,085	15,349	422,434	74,749	347,685	728,282	380,597	900,561
Colorado	336,516	227,675	108,840	0	108,840	9,296	99,545	108,577	9,032	3,849
Connecticut	265,548	179,724	85,824	3,260	89,084	6,493	82,592	92,557	9,965	14,756
Delaware	78,379	56,995	21,385	0	21,385	1,709	19,676	29,112	9,437	12,682
Dist. of Col.	1,546	1,294	252	0	252	1,838	-1,586	34,267	35,853	105,873
Florida	1,376,199	919,070	457,129	0	457,129	35,172	421,957	501,598	79,641	196,205
Georgia	926,349	613,198	313,151	0	313,151	16,950	296,201	284,532	-11,670	-34,403
Hawaii	74,573	51,162	23,411	0	23,411	1,938	21,472	29,571	8,099	0
Idaho	64,492	43,133	21,359	887	22,246	6,125	16,121	64,856	48,735	136,140
Illinois	1,350,549	924,649	425,900	0	425,900	30,000	395,900	383,920	-11,980	-147,040
Indiana	1,014,656	682,670	331,986	0	331,986	16,347	315,640	262,645	-52,995	-191,320
Iowa	321,748	221,343	100,404	0	100,404	9,090	91,314	103,070	11,756	1,355
Kansas	355,240	246,862	108,378	0	108,378	6,739	101,639	92,360	-9,279	-65,712
Kentucky	777,277	513,355	263,922	0	263,922	12,297	251,625	228,835	-22,790	-59,926
Louisiana	594,693	406,391	188,302	0	188,302	13,281	175,021	222,116	47,095	101,592
Maine	88,937	60,499	28,439	7,244	35,682	2,500	33,183	39,180	5,998	12,013
Maryland	406,061	270,991	135,069	0	135,069	9,830	125,239	173,974	48,735	139,310
Massachusetts	331,789	219,744	112,044	5,844	117,888	10,890	106,998	153,533	46,536	131,862
Michigan	848,520	566,418	282,102	-627	281,475	21,648	259,827	286,063	26,236	50,121
Minnesota	422,953	294,034	128,919	16,849	145,768	10,555	135,213	161,770	26,557	33,290
Mississippi	228,091	158,186	69,905	0	69,905	11,565	58,339	113,419	55,079	127,454
Missouri	596,432	403,220	193,212	0	193,212	15,192	178,020	185,650	7,630	-14,458
Montana	270,675	183,779	86,896	129	87,025	6,168	80,857	44,685	-36,172	-130,988
Nebraska	241,329	164,944	76,385	0	76,385	5,909	70,476	60,680	-9,796	-51,110
Nevada	223,949	152,423	71,526	133	71,659	4,306	67,353	60,380	-6,973	-35,074
New Hampshire	141,668	95,773	45,895	3,260	49,156	1,136	48,019	30,552	-17,467	-55,737
New Jersey	339,293	232,952	106,340	0	106,340	16,505	89,836	215,373	125,538	335,858
New Mexico	292,249	197,711	94,538	0	94,538	3,821	90,717	49,240	-41,477	-137,892
New York	1,178,600	795,676	382,925	13,255	396,180	35,298	360,882	438,339	77,456	155,476
North Carolina	831,633	548,412	283,221	0	283,221	20,732	262,489	321,394	58,906	175,871
North Dakota	322,014	224,457	97,557	2,332	99,889	3,525	96,364	24,322	-72,042	-252,811
Ohio	1,376,560	911,516	465,044	0	465,044	32,190	432,854	494,796	61,942	174,522
Oklahoma	478,293	321,536	156,757	0	156,757	9,705	147,052	130,568	-16,484	-68,990
Oregon	426,126	285,483	140,644	21,085	161,729	12,590	149,139	146,410	-2,729	-30,827
Pennsylvania	1,683,973	1,117,464	566,509	0	566,509	25,219	541,290	396,773	-144,516	-440,172
Rhode Island	1,595	1,222	373	3,260	3,633	1,008	2,625	21,811	19,187	56,935
South Carolina	749,623	505,738	243,885	0	243,885	11,493	232,392	199,264	-33,129	-124,972
South Dakota	66,360	45,048	21,313	986	22,299	1,845	20,454	22,157	1,703	120
Tennessee	761,228	503,976	257,252	0	257,252	24,687	232,564	268,129	35,565	79,300
Texas	2,551,372	1,732,615	818,757	-3,284	815,473	56,085	759,388	816,939	57,551	19,474
Utah	332,810	220,485	112,326	0	112,326	5,849	106,476	56,527	-49,950	-155,610
Vermont	49,966	33,936	16,030	5,005	21,034	2,071	18,964	16,859	-2,105	-12,228
Virginia	500,933	333,870	167,064	0	167,064	17,305	149,759	260,842	111,083	316,752
Washington	871,112	584,111	287,000	-1,522	285,478	22,326	263,152	304,758	41,606	88,835
West Virginia	708,940	462,137	246,803	0	246,803	6,811	239,993	81,312	-158,681	-454,045
Wisconsin	501,027	342,493	158,534	3,286	161,821	12,189	149,631	173,756	24,125	33,740
Wyoming	451,233	308,433	142,800	0	142,800	3,941	138,859	39,920	-98,939	-326,092
United States	**29,237,880**	**19,693,768**	**9,544,112**	**96,724**	**9,640,836**	**708,672**	**8,932,165**	**9,428,603**	**496,438**	**0**

[a] Includes electricity generated by nonutility power producers. The U.S. total electricity purchased from nonutilities for distribution in 1992 was 567,419 billion Btu.

Source: Energy Information Administration calculations using data from the State Energy Data System, the Form EIA-759 database, and the Form EIA-861 database.

Table A13. Disaggregated Data for Net Interstate Flow and Electrical System Energy Losses, 1991
(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 [a] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) - (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alabama	860,843	570,649	290,193	0	290,193	17,609	272,584	208,908	-63,676	-197,728
Alaska	49,941	35,315	14,625	0	14,625	1,262	13,363	14,520	1,158	0
Arizona	701,641	473,831	227,810	363	228,173	12,223	215,950	142,787	-73,164	-249,509
Arkansas	411,300	280,398	130,902	0	130,902	7,073	123,829	97,038	-26,791	-103,282
California	1,189,961	831,811	358,151	21,681	379,831	68,964	310,867	711,915	401,048	996,176
Colorado	328,246	222,344	105,902	0	105,902	7,639	98,263	107,330	9,067	12,442
Connecticut	249,062	168,702	80,360	622	80,982	5,910	75,072	92,709	17,637	43,327
Delaware	91,741	65,797	25,944	0	25,944	1,843	24,101	29,124	5,023	705
Dist. of Col.	3,097	2,484	614	0	614	2,279	-1,666	34,786	36,451	107,320
Florida	1,345,084	898,986	446,098	0	446,098	34,513	411,586	499,299	87,713	239,791
Georgia	922,731	612,889	309,842	0	309,842	16,241	293,601	278,211	-15,389	-39,632
Hawaii	79,241	54,220	25,021	0	25,021	1,547	23,474	29,084	5,610	0
Idaho	85,732	57,476	28,256	456	28,713	5,087	23,626	61,572	37,946	108,325
Illinois	1,399,498	963,270	436,229	0	436,229	31,146	405,083	398,756	-6,328	-133,769
Indiana	1,027,073	692,014	335,058	0	335,058	16,532	318,526	262,839	-55,687	-192,769
Iowa	339,953	233,403	106,550	0	106,550	8,035	98,515	105,026	6,511	-6,578
Kansas	364,004	253,746	110,258	0	110,258	7,509	102,749	96,055	-6,694	-59,105
Kentucky	765,596	507,972	257,623	0	257,623	10,750	246,873	219,029	-27,844	-70,353
Louisiana	619,365	424,342	195,023	0	195,023	12,872	182,151	220,771	38,620	81,406
Maine	102,324	69,847	32,477	7,169	39,647	2,570	37,076	38,838	1,762	-797
Maryland	397,081	266,691	130,390	0	130,390	11,175	119,215	174,380	55,164	156,436
Massachusetts	359,034	236,876	122,158	6,443	128,600	11,143	117,457	152,847	35,389	106,585
Michigan	976,705	654,041	322,664	-1,467	321,197	21,628	299,570	288,377	-11,193	-56,889
Minnesota	437,666	299,727	137,939	7,304	145,242	9,702	135,541	166,351	30,810	68,205
Mississippi	255,938	176,421	79,517	0	79,517	9,059	70,458	112,662	42,204	101,675
Missouri	633,045	427,913	205,132	0	205,132	15,746	189,386	192,826	3,440	-20,976
Montana	298,845	202,772	96,073	89	96,162	5,640	90,522	45,743	-44,778	-153,918
Nebraska	246,517	168,136	78,380	0	78,380	5,633	72,747	63,481	-9,267	-45,015
Nevada	225,030	153,643	71,387	11	71,398	3,840	67,559	56,726	-10,833	-45,003
New Hampshire	135,090	91,740	43,350	3,030	46,380	2,027	44,353	29,895	-14,458	-49,389
New Jersey	404,889	278,547	126,343	0	126,343	16,432	109,911	220,697	110,786	295,647
New Mexico	264,328	178,807	85,520	0	85,520	3,753	81,767	48,054	-33,713	-111,793
New York	1,321,253	891,079	430,174	12,085	442,259	34,975	407,284	441,550	34,266	43,649
North Carolina	845,233	560,262	284,970	0	284,970	20,327	264,643	314,984	50,340	154,589
North Dakota	311,555	217,606	93,950	1,562	95,512	3,300	92,212	24,755	-67,457	-237,720
Ohio	1,356,035	903,284	452,751	0	452,751	32,209	420,542	496,986	76,444	221,498
Oklahoma	468,852	315,824	153,029	0	153,029	9,730	143,298	134,448	-8,850	-42,088
Oregon	480,535	322,566	157,969	12,278	170,247	11,517	158,730	148,936	-9,794	-45,032
Pennsylvania	1,661,567	1,107,571	553,996	0	553,996	31,465	522,531	396,942	-125,589	-401,594
Rhode Island	2,573	1,988	585	622	1,207	1,141	66	21,847	21,782	64,887
South Carolina	734,317	496,029	238,287	0	238,287	11,460	226,828	194,721	-32,107	-116,235
South Dakota	70,981	48,555	22,426	472	22,898	1,938	20,959	22,810	1,850	-10
Tennessee	756,281	504,026	252,255	0	252,255	16,917	235,338	267,467	32,129	92,713
Texas	2,546,019	1,732,791	813,228	-1,525	811,703	52,361	759,342	820,080	60,738	61,705
Utah	310,459	207,558	102,901	0	102,901	5,385	97,515	54,276	-43,239	-138,176
Vermont	56,159	38,216	17,943	7,524	25,467	2,232	23,235	16,052	-7,183	-28,035
Virginia	504,363	337,377	166,986	0	166,986	17,478	149,508	256,279	106,771	309,119
Washington	1,052,155	706,338	345,817	-4,619	341,198	22,574	318,624	316,338	-2,285	-34,019
West Virginia	695,040	451,921	243,119	0	243,119	6,890	236,229	80,608	-155,621	-439,173
Wisconsin	508,758	347,886	160,872	1,892	162,764	11,943	150,820	174,122	23,301	38,200
Wyoming	413,190	281,258	131,932	0	131,932	3,873	128,059	40,114	-87,945	-285,859
United States	**29,665,926**	**20,026,948**	**9,638,978**	**75,993**	**9,714,971**	**685,094**	**9,029,877**	**9,423,954**	**394,078**	**0**

[a] Includes electricity generated by nonutility power producers. The U.S. total electricity purchased from nonutilities for distribution in 1991 was 475,757 billion Btu.

Source: Energy Information Administration calculations using data from the State Energy Data System, the Form EIA-759 database, and the Form EIA-861 database.

Table A14. Disaggregated Data for Net Interstate Flow and Electrical System Energy Losses, 1990
(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 [a] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) - (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alabama	773,226	513,124	260,103	0	260,103	16,542	243,560	204,466	-39,094	-121,964
Alaska	53,139	37,809	15,330	0	15,330	1,310	14,020	14,514	494	0
Arizona	655,905	443,375	212,530	-7	212,523	13,688	198,834	141,494	-57,340	-205,199
Arkansas	399,174	272,748	126,426	0	126,426	7,066	119,360	93,370	-25,990	-101,772
California	1,290,584	899,814	390,770	15,924	406,693	78,954	327,740	720,249	392,509	949,512
Colorado	331,249	224,409	106,840	0	106,840	7,630	99,209	105,071	5,862	3,422
Connecticut	339,659	229,944	109,715	612	110,327	6,259	104,069	92,763	-11,306	-46,047
Delaware	86,611	62,387	24,224	0	24,224	1,332	22,893	28,265	5,372	3,417
Dist. of Col.	5,441	4,209	1,232	0	1,232	1,445	-213	33,603	33,916	101,590
Florida	1,274,189	852,384	421,805	0	421,805	30,366	391,438	489,741	98,303	285,724
Georgia	980,855	647,963	332,892	0	332,892	16,053	316,839	274,462	-42,377	-106,645
Hawaii	86,112	58,829	27,283	0	27,283	1,709	25,574	28,356	2,782	0
Idaho	89,070	59,665	29,405	310	29,715	5,797	23,918	61,428	37,510	105,649
Illinois	1,381,863	948,616	433,247	0	433,247	30,452	402,794	380,700	-22,094	-169,265
Indiana	1,026,065	692,581	333,484	0	333,484	16,442	317,042	252,427	-64,615	-222,039
Iowa	318,043	218,932	99,112	0	99,112	7,632	91,479	100,440	8,961	1,877
Kansas	380,810	265,250	115,560	0	115,560	7,987	107,573	92,632	-14,942	-85,762
Kentucky	747,727	495,896	251,830	0	251,830	9,561	242,269	208,463	-33,807	-83,736
Louisiana	626,383	427,913	198,471	0	198,471	12,780	185,690	217,774	32,083	67,266
Maine	96,071	65,146	30,925	7,976	38,901	2,278	36,623	39,337	2,714	5,064
Maryland	325,887	218,418	107,469	0	107,469	8,433	99,037	169,009	69,973	212,437
Massachusetts	375,703	251,238	124,465	7,043	131,508	11,096	120,412	155,047	34,635	96,816
Michigan	915,174	611,306	303,868	-37,255	266,613	21,731	244,881	281,036	36,154	92,823
Minnesota	448,043	306,275	141,767	302	142,070	10,783	131,286	160,934	29,647	63,644
Mississippi	252,009	173,793	78,217	0	78,217	8,240	69,977	109,618	39,641	97,143
Missouri	616,535	415,190	201,345	0	201,345	15,398	185,947	183,991	-1,956	-30,491
Montana	272,947	185,194	87,753	155	87,908	6,557	81,351	44,781	-36,570	-130,780
Nebraska	233,186	159,382	73,804	0	73,804	5,837	67,967	60,966	-7,001	-38,997
Nevada	208,034	142,230	65,805	0	65,805	4,074	61,731	55,793	-5,938	-30,325
New Hampshire	114,605	77,721	36,884	612	37,497	1,810	35,687	30,638	-5,048	-18,870
New Jersey	396,459	271,960	124,499	0	124,499	15,553	108,946	214,467	105,521	286,657
New Mexico	303,521	206,309	97,212	0	97,212	3,769	93,443	47,156	-46,286	-153,319
New York	1,349,914	910,942	438,972	1,564	440,535	30,024	410,512	441,255	30,743	50,827
North Carolina	804,985	532,554	272,432	0	272,432	15,209	257,223	306,822	49,600	172,299
North Dakota	304,421	212,895	91,525	2,233	93,758	3,216	90,542	23,931	-66,611	-234,959
Ohio	1,284,009	852,357	431,652	0	431,652	31,612	400,039	486,092	86,053	264,282
Oklahoma	469,957	316,201	153,756	0	153,756	10,249	143,506	145,024	1,518	-8,028
Oregon	510,283	342,508	167,775	7,400	175,175	12,825	162,349	146,639	-15,710	-65,625
Pennsylvania	1,696,441	1,131,131	565,310	0	565,310	27,191	538,119	391,529	-146,590	-449,350
Rhode Island	7,909	5,890	2,019	612	2,631	1,127	1,504	21,902	20,397	59,997
South Carolina	725,132	488,818	236,314	0	236,314	8,831	227,483	189,884	-37,599	-120,318
South Dakota	69,677	47,747	21,931	0	21,931	1,832	20,099	21,611	1,512	-842
Tennessee	748,183	496,027	252,156	0	252,156	15,058	237,098	263,218	26,120	90,214
Texas	2,511,312	1,711,258	800,054	-217	799,837	50,440	749,397	810,060	60,663	69,532
Utah	321,103	211,031	110,072	0	110,072	5,495	104,577	52,551	-52,027	-153,720
Vermont	52,875	35,840	17,035	3,971	21,006	1,858	19,148	16,092	-3,056	-13,648
Virginia	486,575	325,527	161,048	0	161,048	16,528	144,520	248,040	103,520	303,476
Washington	1,043,463	700,629	342,834	-4,479	338,355	24,105	314,249	310,649	-3,600	-40,421
West Virginia	750,703	486,738	263,965	0	263,965	6,491	257,474	78,928	-178,546	-499,304
Wisconsin	492,917	337,497	155,420	0	155,420	11,484	143,936	167,864	23,927	41,759
Wyoming	421,869	287,511	134,358	0	134,358	4,156	130,202	40,155	-90,047	-293,967
United States	**29,456,006**	**19,873,110**	**9,582,895**	**6,756**	**9,589,652**	**666,295**	**8,923,356**	**9,255,237**	**331,880**	**0**

[a] Includes electricity generated by nonutility power producers. The U.S. total electricity purchased from nonutilities for distribution in 1990 was 396,014 billion Btu.

Source: Energy Information Administration calculations using data from the State Energy Data System, the Form EIA-759 database, and the Form EIA-861 database.

Table A15. Disaggregated Data for Net Interstate Flow 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 [a] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) - (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alabama	788,567	523,795	264,772	0	264,772	16,563	248,210	198,535	-49,674	-144,788
Alaska	51,057	36,086	14,970	0	14,970	1,405	13,565	14,131	567	0
Arizona	563,141	381,877	181,264	-7	181,257	13,482	167,775	139,031	-28,744	-112,293
Arkansas	355,039	241,080	113,959	0	113,959	7,441	106,518	89,002	-17,516	-66,438
California	1,481,423	1,030,137	451,286	14,424	465,710	71,806	393,904	696,521	302,617	733,531
Colorado	340,845	230,641	110,205	0	110,205	7,848	102,356	102,834	478	-7,390
Connecticut	363,652	246,700	116,952	777	117,729	6,895	110,834	93,368	-17,466	-63,242
Delaware	90,350	61,492	28,858	0	28,858	2,014	26,844	27,519	675	-1,116
Dist. of Col.	9,268	7,049	2,219	0	2,219	2,301	-83	32,935	33,018	97,529
Florida	1,286,019	862,062	423,956	0	423,956	38,618	385,338	472,473	87,135	246,041
Georgia	935,671	620,237	315,434	0	315,434	16,940	298,495	262,928	-35,567	-83,091
Hawaii	85,818	58,696	27,122	0	27,122	1,733	25,389	27,195	1,806	0
Idaho	92,123	61,658	30,465	97	30,562	5,395	25,167	60,806	35,639	104,754
Illinois	1,373,759	940,977	432,783	0	432,783	31,982	400,801	372,935	-27,865	-164,464
Indiana	920,283	618,107	302,176	0	302,176	17,556	284,620	248,703	-35,916	-113,828
Iowa	304,917	209,109	95,808	0	95,808	7,438	88,369	97,967	9,597	12,754
Kansas	386,538	269,731	116,807	0	116,807	7,902	108,905	88,105	-20,800	-100,846
Kentucky	716,218	474,784	241,434	0	241,434	10,497	230,937	199,558	-31,379	-69,124
Louisiana	584,500	399,254	185,245	0	185,245	13,584	171,661	211,003	39,342	99,708
Maine	123,626	83,964	39,662	7,101	46,763	2,778	43,985	39,013	-4,972	-18,592
Maryland	370,858	248,849	122,009	0	122,009	12,358	109,651	168,071	58,419	174,134
Massachusetts	397,726	264,120	133,606	7,027	140,633	12,632	128,001	155,871	27,870	86,458
Michigan	932,962	620,703	312,259	-18,514	293,745	22,517	271,228	282,955	11,727	40,542
Minnesota	434,599	296,832	137,767	-1,460	136,307	11,385	124,922	156,719	31,797	78,001
Mississippi	228,746	156,906	71,839	0	71,839	8,639	63,200	100,908	37,708	98,462
Missouri	615,041	412,429	202,612	0	202,612	16,599	186,013	179,480	-6,533	-33,052
Montana	273,738	185,630	88,107	52	88,159	5,753	82,407	44,564	-37,843	-129,389
Nebraska	228,273	156,318	71,955	0	71,955	5,836	66,119	59,938	-6,182	-33,916
Nevada	213,654	146,503	67,151	246	67,396	3,359	64,037	51,071	-12,966	-48,792
New Hampshire	74,491	50,180	24,311	630	24,941	2,770	22,171	31,001	8,830	24,127
New Jersey	449,729	309,344	140,384	0	140,384	17,379	123,005	216,179	93,174	251,263
New Mexico	309,589	212,863	96,726	0	96,726	3,587	93,139	45,618	-47,521	-161,667
New York	1,366,940	921,830	445,110	15,505	460,615	35,682	424,933	437,430	12,498	4,605
North Carolina	879,522	582,326	297,196	0	297,196	23,363	273,834	300,970	27,136	96,416
North Dakota	290,233	202,528	87,705	187	87,892	3,390	84,501	24,095	-60,407	-212,668
Ohio	1,342,339	893,894	448,446	0	448,446	31,504	416,941	483,222	66,281	224,575
Oklahoma	465,282	313,626	151,657	0	151,657	11,128	140,529	126,269	-14,260	-55,837
Oregon	466,306	312,890	153,416	7,272	160,687	12,001	148,686	142,004	-6,682	-27,825
Pennsylvania	1,584,336	1,056,192	528,144	0	528,144	31,657	496,487	388,626	-107,861	-324,161
Rhode Island	6,682	4,989	1,693	326	2,019	1,278	741	21,698	20,957	62,690
South Carolina	701,592	473,041	228,551	0	228,551	12,884	215,667	183,761	-31,906	-105,722
South Dakota	75,598	51,767	23,831	0	23,831	1,969	21,862	21,626	-236	-5,473
Tennessee	750,452	498,104	252,348	0	252,348	16,963	235,385	256,285	20,900	60,588
Texas	2,471,762	1,678,882	792,879	-199	792,680	59,663	733,017	783,601	50,583	69,776
Utah	303,850	199,799	104,052	1	104,052	5,088	98,964	51,059	-47,904	-138,285
Vermont	50,687	34,443	16,244	6,669	22,913	59	22,854	15,603	-7,251	-20,257
Virginia	446,466	298,523	147,943	0	147,943	18,032	129,910	250,650	120,739	366,301
Washington	904,806	607,549	297,257	-2,684	294,573	22,548	272,025	295,733	23,708	62,266
West Virginia	810,364	527,646	282,718	0	282,718	7,223	275,495	77,955	-197,540	-557,583
Wisconsin	481,362	330,001	151,361	0	151,361	11,724	139,637	165,059	25,422	53,864
Wyoming	392,867	267,473	125,394	0	125,394	3,697	121,697	38,329	-83,368	-268,580
United States	**29,173,664**	**19,673,617**	**9,500,047**	**37,450**	**9,537,496**	**716,846**	**8,820,650**	**9,030,913**	**210,263**	**0**

[a] Includes electricity generated by nonutility power producers. The U.S. total electricity purchased from nonutilities for distribution in 1989 was 306,441 billion Btu.

Source: Energy Information Administration calculations using data from the State Energy Data System, the Form EIA-759 database, and the Form EIA-861 database.

Table A16. Disaggregated Data for Net Interstate Flow 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 [a] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) - (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alabama	685,072	454,700	230,372	0	230,372	14,771	215,601	193,247	-22,354	-54,938
Alaska	49,172	34,860	14,313	0	14,313	1,292	13,020	13,801	781	0
Arizona	650,901	440,850	210,051	-6	210,044	13,429	196,615	132,783	-63,833	-217,909
Arkansas	361,689	246,487	115,202	0	115,202	7,543	107,659	86,230	-21,429	-80,513
California	1,439,577	1,009,730	429,848	24,859	454,707	74,441	380,266	684,574	304,308	717,442
Colorado	328,838	223,424	105,414	0	105,414	7,588	97,826	100,091	2,265	-2,464
Connecticut	384,817	260,693	124,124	2,313	126,436	7,213	119,223	91,862	-27,361	-92,274
Delaware	94,795	64,249	30,546	0	30,546	1,673	28,873	25,738	-3,135	-10,870
Dist. of Col.	6,842	5,243	1,600	0	1,600	1,978	-378	32,003	32,382	97,512
Florida	1,279,179	855,909	423,270	0	423,270	32,120	391,150	444,382	53,232	169,847
Georgia	833,533	552,470	281,063	0	281,063	15,297	265,766	253,669	-12,097	-6,375
Hawaii	81,909	55,884	26,025	0	26,025	1,627	24,398	26,337	1,939	0
Idaho	69,644	46,627	23,016	342	23,359	5,131	18,227	58,568	40,341	120,298
Illinois	1,332,747	911,912	420,835	0	420,835	31,030	389,805	375,459	-14,346	-108,461
Indiana	880,198	593,748	286,450	0	286,450	17,452	268,998	244,557	-24,441	-82,755
Iowa	304,442	209,829	94,613	0	94,613	7,652	86,961	98,394	11,433	16,398
Kansas	356,741	249,654	107,087	0	107,087	7,728	99,359	88,128	-11,231	-69,377
Kentucky	760,254	499,454	260,800	0	260,800	10,475	250,325	184,515	-65,810	-158,594
Louisiana	614,573	420,861	193,711	0	193,711	12,686	181,026	204,757	23,731	53,091
Maine	100,915	68,399	32,516	11,559	44,075	2,582	41,493	38,432	-3,061	-10,570
Maryland	418,244	280,453	137,792	0	137,792	11,647	126,145	162,288	36,143	110,940
Massachusetts	347,404	229,130	118,274	9,798	128,072	11,881	116,191	152,608	36,417	120,569
Michigan	912,784	609,567	303,218	561	303,779	23,016	280,762	281,548	786	3,582
Minnesota	430,262	292,922	137,340	-5,695	131,645	11,248	120,397	156,022	35,625	95,721
Mississippi	267,440	181,824	85,616	0	85,616	8,436	77,180	95,807	18,628	44,966
Missouri	622,007	418,175	203,832	0	203,832	16,298	187,534	178,267	-9,267	-40,720
Montana	263,712	179,022	84,690	10	84,699	5,460	79,239	44,156	-35,082	-119,757
Nebraska	223,600	153,193	70,407	0	70,407	5,769	64,638	58,886	-5,752	-31,585
Nevada	219,106	149,855	69,250	0	69,250	3,532	65,718	46,691	-19,027	-66,858
New Hampshire	73,080	49,204	23,875	2,459	26,334	2,596	23,739	30,190	6,451	17,921
New Jersey	438,104	301,078	137,025	0	137,025	17,999	119,026	211,925	92,899	252,935
New Mexico	288,161	198,189	89,972	0	89,972	3,862	86,109	43,521	-42,588	-146,248
New York	1,300,960	875,437	425,523	41,604	467,128	32,992	434,136	428,694	-5,442	-28,973
North Carolina	793,545	526,025	267,521	0	267,521	21,020	246,501	291,863	45,363	158,154
North Dakota	305,281	211,958	93,323	-1,329	94,652	3,454	91,198	24,248	-66,950	-230,234
Ohio	1,266,079	842,874	423,205	0	423,205	30,553	392,652	458,286	65,635	228,287
Oklahoma	462,868	312,619	150,249	0	150,249	9,803	140,446	127,356	-13,090	-47,589
Oregon	426,814	286,758	140,055	5,578	145,633	11,498	134,135	134,133	-2	-6,313
Pennsylvania	1,559,243	1,037,438	521,806	0	521,806	31,674	490,132	385,186	-104,946	-303,242
Rhode Island	9,841	7,234	2,607	2,313	4,919	1,436	3,483	21,221	17,738	52,360
South Carolina	681,298	458,895	222,403	0	222,403	11,830	210,573	180,183	-30,390	-93,763
South Dakota	85,086	58,180	26,906	0	26,906	1,920	24,986	21,273	-3,714	-15,720
Tennessee	598,203	393,968	204,234	0	204,234	16,346	187,889	248,639	60,750	212,551
Texas	2,351,083	1,596,418	754,665	-108	754,556	52,489	702,068	765,468	63,401	145,260
Utah	298,882	197,759	101,122	0	101,122	3,958	97,164	49,496	-47,668	-137,485
Vermont	54,021	36,794	17,227	9,624	26,851	1,950	24,902	15,067	-9,835	-34,012
Virginia	468,952	314,826	154,126	0	154,126	16,979	137,146	239,233	102,086	311,131
Washington	867,533	582,313	285,220	1,859	287,079	21,396	265,683	289,448	23,765	70,667
West Virginia	796,078	518,634	277,444	0	277,444	7,288	270,157	76,388	-193,769	-546,995
Wisconsin	487,882	334,332	153,550	0	153,550	11,421	142,129	163,318	21,189	44,660
Wyoming	421,659	288,088	133,571	0	133,571	3,743	129,828	37,410	-92,418	-299,673
United States	28,355,050	19,128,149	9,226,901	108,399	9,335,300	687,201	8,648,099	8,796,349	148,251	0

[a] Includes electricity generated by nonutility power producers. The U.S. total electricity purchased from nonutilities for distribution in 1988 was 232,118 billion Btu.

Source: Energy Information Administration calculations using data from the State Energy Data System, the Form EIA-759 database, and the Form EIA-861 database.

Table A17. Disaggregated Data for Net Interstate Flow 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 [a] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) - (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alabama	707,843	471,268	236,575	0	236,575	10,820	225,755	186,646	-39,110	-94,726
Alaska	48,498	34,432	14,066	0	14,066	1,377	12,689	13,520	831	0
Arizona	550,183	374,122	176,061	-5	176,055	12,963	163,093	125,012	-38,081	-139,513
Arkansas	384,971	261,161	123,811	0	123,811	7,387	116,423	82,557	-33,866	-113,777
California	1,499,867	1,055,133	444,733	26,421	471,154	72,843	398,312	657,833	259,522	580,383
Colorado	308,177	209,878	98,299	0	98,299	7,360	90,939	95,778	4,839	6,447
Connecticut	351,950	238,765	113,185	1,961	115,146	6,495	108,651	87,761	-20,890	-69,650
Delaware	90,645	61,606	29,039	0	29,039	1,664	27,375	23,936	-3,438	-12,016
Dist. of Col.	3,837	3,041	796	0	796	1,863	-1,066	30,733	31,799	97,118
Florida	1,153,400	775,470	377,930	0	377,930	32,592	345,337	417,862	72,525	219,245
Georgia	860,595	567,826	292,769	0	292,769	16,378	276,391	244,571	-31,820	-57,199
Hawaii	76,616	52,060	24,555	0	24,555	1,558	22,997	24,901	1,905	0
Idaho	84,449	56,794	27,655	140	27,795	5,296	22,499	54,953	32,453	95,637
Illinois	1,166,130	811,194	374,936	0	374,936	29,355	345,581	357,540	11,959	-11,641
Indiana	815,045	546,947	268,099	0	268,099	16,507	251,592	230,733	-20,859	-57,106
Iowa	279,846	192,672	87,174	0	87,174	7,292	79,882	92,212	12,331	23,064
Kansas	348,550	243,384	105,165	0	105,165	7,475	97,690	83,356	-14,334	-74,730
Kentucky	689,234	459,082	230,152	0	230,152	8,753	221,399	173,285	-48,114	-120,008
Louisiana	554,709	379,643	175,066	0	175,066	12,375	162,691	201,840	39,149	108,319
Maine	88,648	60,171	28,477	12,777	41,254	2,536	38,718	36,570	-2,147	-7,533
Maryland	378,813	255,127	123,687	0	123,687	10,193	113,494	153,226	39,732	124,522
Massachusetts	348,248	229,733	118,515	16,532	135,047	10,836	124,211	144,610	20,399	76,304
Michigan	886,168	589,206	296,962	2,627	299,590	20,822	278,768	269,479	-9,288	-8,973
Minnesota	374,648	257,256	117,392	6,623	124,015	10,025	113,990	142,538	28,548	73,352
Mississippi	242,219	165,833	76,386	0	76,386	7,214	69,172	92,758	23,586	62,483
Missouri	573,266	385,310	187,956	0	187,956	15,144	172,812	171,011	-1,801	-11,509
Montana	223,692	152,435	71,258	87	71,344	5,424	65,921	42,387	-23,534	-84,719
Nebraska	221,720	151,812	69,909	0	69,909	5,217	64,691	55,222	-9,469	-40,320
Nevada	188,738	129,227	59,511	67	59,578	3,270	56,308	43,515	-12,793	-45,998
New Hampshire	63,036	42,411	20,625	3,791	24,416	2,555	21,861	28,570	6,709	19,237
New Jersey	435,846	301,672	134,174	0	134,174	16,917	117,257	200,441	83,184	222,588
New Mexico	280,661	193,366	87,296	0	87,296	4,146	83,149	42,077	-41,072	-142,440
New York	1,242,413	841,059	401,354	52,754	454,109	35,922	418,187	405,924	-12,263	-70,078
North Carolina	- 798,141	529,189	268,952	0	268,952	18,547	250,405	281,864	31,459	127,760
North Dakota	251,129	173,950	77,179	4,718	81,897	2,959	78,938	22,509	-56,429	-191,595
Ohio	1,222,786	814,503	408,283	0	408,283	30,332	377,951	444,865	66,915	238,562
Oklahoma	455,512	309,694	145,819	0	145,819	9,339	136,480	123,161	-13,319	-50,938
Oregon	416,018	280,427	135,591	17,938	153,530	11,718	141,811	128,677	-13,135	-48,103
Pennsylvania	1,488,052	992,075	495,977	0	495,977	28,729	467,248	365,563	-101,685	-287,206
Rhode Island	10,720	7,865	2,855	29	2,884	1,384	1,500	20,274	18,774	55,789
South Carolina	675,275	455,506	219,769	0	219,769	11,059	208,709	177,310	-31,399	-92,827
South Dakota	66,491	45,113	21,378	0	21,378	1,679	19,699	19,485	-213	-2,483
Tennessee	574,794	375,833	198,962	0	198,962	12,548	186,413	237,920	51,507	206,754
Texas	2,259,333	1,533,874	725,459	-135	725,324	51,417	673,907	737,219	63,312	162,785
Utah	273,457	183,563	89,893	127	90,020	3,528	86,492	45,711	-40,781	-123,688
Vermont	49,783	33,971	15,812	7,771	23,582	2,048	21,534	13,979	-7,556	-27,594
Virginia	447,146	301,465	145,682	0	145,682	15,735	129,947	228,083	98,136	302,087
Washington	878,213	592,439	285,774	3,877	289,652	23,010	266,642	263,005	-3,637	-26,103
West Virginia	767,001	499,596	267,406	0	267,406	6,616	260,790	71,907	-188,882	-530,791
Wisconsin	478,969	328,737	150,232	0	150,232	10,972	139,260	153,459	14,200	25,133
Wyoming	402,138	274,630	127,508	0	127,508	3,311	124,197	35,861	-88,336	-284,338
United States	**27,057,621**	**18,281,526**	**8,776,096**	**158,101**	**8,934,197**	**655,509**	**8,278,688**	**8,384,213**	**105,525**	**0**

[a] Includes electricity generated by nonutility power producers. The U.S. total electricity purchased from nonutilities for distribution in 1987 was 171,163 billion Btu.

Source: Energy Information Administration calculations using data from the State Energy Data System, the Form EIA-759 database, and the Form EIA-861 database.

Table A18. Disaggregated Data for Net Interstate Flow 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 [a] (ESTCB)	(9) Net Interstate Flow of Electricity: (8) - (7) (ESISB)	(10) Net Interstate Flow of Electricity and Associated Losses (ELISB)
Alabama	702,953	468,976	233,977	0	233,977	14,600	219,377	176,049	-43,328	-121,943
Alaska	53,237	38,730	14,507	0	14,507	1,161	13,346	13,812	466	0
Arizona	541,616	367,006	174,610	-5	174,605	11,937	162,668	115,957	-46,711	-158,909
Arkansas	372,374	252,495	119,879	0	119,879	8,031	111,848	78,244	-33,605	-114,148
California	1,431,585	1,015,781	415,804	12,899	428,703	66,728	361,975	632,650	270,675	616,848
Colorado	305,926	209,429	96,497	0	96,497	6,891	89,606	92,673	3,068	-78
Connecticut	342,118	232,293	109,824	1,468	111,293	6,303	104,990	83,681	-21,308	-70,440
Delaware	89,237	60,541	28,697	0	28,697	1,578	27,119	23,284	-3,834	-12,392
Dist. of Col.	2,948	2,385	563	0	563	1,625	-1,062	29,303	30,365	93,761
Florida	1,127,712	757,631	370,081	0	370,081	26,846	343,235	398,095	54,859	186,112
Georgia	756,658	501,067	255,591	0	255,591	15,059	240,531	233,688	-6,843	14,580
Hawaii	72,884	49,484	23,401	0	23,401	1,456	21,945	23,994	2,049	0
Idaho	126,956	85,489	41,467	0	41,467	4,660	36,807	53,879	17,072	50,860
Illinois	1,146,607	781,893	364,714	0	364,714	26,234	338,480	347,197	8,717	-760
Indiana	806,552	542,661	263,891	0	263,891	15,715	248,175	219,701	-28,474	-81,477
Iowa	266,268	183,914	82,354	0	82,354	6,833	75,521	89,925	14,404	30,510
Kansas	336,986	236,226	100,760	0	100,760	7,177	93,582	81,323	-12,259	-68,597
Kentucky	688,018	459,703	228,315	0	228,315	9,304	219,011	169,561	-49,449	-128,418
Louisiana	564,528	384,226	180,302	0	180,302	12,485	167,817	202,305	34,488	103,136
Maine	116,243	79,085	37,158	8,785	45,943	2,509	43,434	34,813	-8,622	-28,246
Maryland	393,955	265,212	128,743	0	128,743	9,583	119,160	143,170	24,009	78,545
Massachusetts	347,418	229,769	117,649	12,378	130,027	9,986	120,040	136,624	16,584	65,585
Michigan	787,091	527,572	259,519	2,347	261,866	19,643	242,223	260,174	17,951	64,372
Minnesota	308,685	211,780	96,905	23,407	120,312	9,924	110,388	132,160	21,771	55,816
Mississippi	205,375	140,617	64,758	0	64,758	7,704	57,054	90,527	33,473	93,390
Missouri	571,762	386,828	184,934	0	184,934	14,455	170,479	164,710	-5,770	-28,174
Montana	241,880	165,286	76,594	-9	76,585	6,468	70,116	47,154	-22,963	-86,232
Nebraska	206,110	141,831	64,279	0	64,279	5,325	58,955	54,182	-4,773	-27,295
Nevada	217,183	149,427	67,756	0	67,756	3,035	64,721	39,764	-24,956	-85,950
New Hampshire	64,910	44,035	20,874	2,838	23,713	2,419	21,294	26,859	5,566	15,044
New Jersey	321,875	223,670	98,205	0	98,205	15,061	83,144	191,047	107,902	308,632
New Mexico	262,720	182,195	80,526	0	80,526	3,964	76,561	40,606	-35,955	-128,710
New York	1,180,502	800,763	379,738	52,756	432,494	33,409	399,085	392,067	-7,018	-48,084
North Carolina	764,329	502,296	262,032	0	262,032	18,755	243,278	264,210	20,933	107,639
North Dakota	252,146	176,461	75,686	3,334	79,020	2,883	76,138	23,368	-52,770	-185,233
Ohio	1,147,264	766,804	380,460	0	380,460	29,301	351,160	423,903	72,743	251,734
Oklahoma	438,737	298,594	140,143	0	140,143	9,873	130,270	122,010	-8,260	-36,069
Oregon	502,097	339,071	163,026	4,520	167,546	9,407	158,139	119,646	-38,492	-121,069
Pennsylvania	1,535,207	1,031,644	503,563	0	503,563	26,296	477,266	349,823	-127,443	-380,692
Rhode Island	9,333	6,863	2,470	22	2,492	1,257	1,235	19,303	18,068	54,305
South Carolina	596,499	403,563	192,936	0	192,936	10,036	182,900	168,667	-14,233	-39,851
South Dakota	84,419	57,779	26,640	0	26,640	1,702	24,938	19,358	-5,580	-20,531
Tennessee	557,208	364,584	192,624	0	192,624	14,344	178,280	231,360	53,080	206,345
Texas	2,264,646	1,538,401	726,246	-36	726,210	50,065	676,145	727,676	51,531	136,997
Utah	174,660	117,273	57,387	0	57,387	3,393	53,994	44,320	-9,674	-28,391
Vermont	33,873	23,128	10,744	5,701	16,446	2,229	14,217	12,717	-1,499	-9,357
Virginia	450,040	304,543	145,497	0	145,497	12,248	133,249	215,861	82,612	262,363
Washington	970,774	655,055	315,720	-7,924	307,796	18,070	289,726	257,168	-32,558	-97,788
West Virginia	772,310	507,813	264,497	0	264,497	6,398	258,099	70,297	-187,802	-540,310
Wisconsin	468,759	322,777	145,982	0	145,982	11,511	134,471	159,289	24,817	56,938
Wyoming	316,660	218,485	98,176	0	98,176	3,059	95,117	34,029	-61,088	-204,355
United States	**26,299,833**	**17,813,132**	**8,486,701**	**122,481**	**8,609,182**	**618,934**	**7,990,248**	**8,082,185**	**91,937**	**0**

[a] Includes electricity generated by nonutility power producers. The U.S. total electricity purchased from nonutilities for distribution in 1986 was 136,337 billion Btu.

Source: Energy Information Administration calculations using data from the State Energy Data System, the Form EIA-759 database, and the Form EIA-861 database.

Section 7. 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 end-use sector and total energy consumption estimates.

Energy consumption estimates for the residential sector include some wood and solar energy consumed in the commercial sector that cannot be identified separately. The code "RC" in the data identifier indicates residential sector and "HC" indicates residential and commercial sectors combined in the following calculation used for each State and the United States:

TERCB = CLRCB + NGRCB + PARCB + WWHCB + SOHCB + ESRCB + LORCB

The commercial sector calculations for each State and the U.S. total are:

TECCB = CLCCB + NGCCB + PACCB + ESCCB + LOCCB

For the industrial sector, the State calculations are slightly different from the U.S. calculation ("ZZ" in the variable name represents the two-leter State code that differs for each State). The industrial sector includes net imports of coal coke (CCNIBUS) in the U.S. total but not in the individual State estimates because no reliable means of allocating the U.S. amount to the States has been developed.

TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + HYICBZZ + WWICBUS + GOICBUS + ESICBZZ + LOICBZZ

TEICBUS = CLICBUS + NGICBUS + PAICBUS + HYICBUS + WWICBUS + GOICBUS + ESICBUS + LOICBUS + CCNIBUS

For the transportation sector, the calculations are:

TEACB = CLACB + NGACB + PAACB + ESACB + LOACB

Total energy consumed by all sectors is the sum of the consumption by the four end-use sectors:

TETCB = TERCB + TECCB + TEICB + TEACB

Total Net Energy Consumed

A set of totals is calculated to estimate consumption in the four major end use sectors excluding each sector's share of all electrical system energy losses that are 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, commercial, industrial, and transportation sectors are calculated:

TNRCB = TERCB – LORCB
TNCCB = TECCB – LOCCB
TNICB = TEICB – LOICB
TNACB = TEACB – LOACB

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, 1980, and 1990, 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:

TETPB = TETCB / TPOPP

The residential, commercial, industrial, and transportation sectors' energy consumption per capita are estimated:

TERPB = TERCB / TPOPP
TECPB = TECCB / TPOPP
TEIPB = TEICB / TPOPP
TEAPB = TEACB / TPOPP

Appendix B

State Energy Data System Variables

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.

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
ACKCB	Anthracite consumed at coke plants.	Billion Btu	ACKCBZZ = ACKCPZZ * ACNUKUS ACKCBUS = ΣACKCBZZ

Variable	Description	Units	Formulas
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 all sectors other than the electric utility sector 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
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

Variable	Description	Units	Formulas
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.	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.	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
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

Variable	Description	Units	Formulas
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
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.

Variable	Description	Units	Formulas
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
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

Variable	Description	Units	Formulas
CGVAV	Value added in the manufacture of corrugated and solid fiber boxes.	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
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.	Billion Btu	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

APPENDIX B

Variable	Description	Units	Formulas
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 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
CTCAP	Catalytic cracking charge capacity of petroleum refineries.	1960 through 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 adjusted sales 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 adjusted sales to the commercial sector.	Thousand barrels	DFCMPZZ is independent. DFCMPUS = ΣDFCMPZZ

Variable	Description	Units	Formulas
DFEUB	Distillate fuel consumed by the electric utilities.	Billion Btu	DFEUBZZ = DFEUPZZ * 5.825 DFEUBUS = ΣDFEUBZZ
DFEUP	Distillate fuel (excluding kerosene-type jet fuel) consumed by the electric utilities.	Thousand barrels	DFEUPZZ = DKEUPZZ – JKEUPZZ DFEUPUS = ΣDFEUPZZ
DFIBP	Distillate fuel adjusted sales 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
DFINP	Distillate fuel adjusted sales to the industrial sector.	Thousand barrels	DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ DFINPUS = ΣDFINPZZ
DFMIP	Distillate fuel adjusted sales to the Armed Forces, regardless of use.	Thousand barrels	DFMIPZZ is independent. DFMIPUS = ΣDFMIPZZ
DFNCP	Distillate fuel consumption by all sectors other than the electric utility sector.	Thousand barrels	DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS DFNCPUS = DFTCPUS – DFEUPUS
DFNDP	Distillate fuel adjusted sales to all sectors other than the electric utility sector.	Thousand barrels	DFNDPZZ = DFRSPZZ + DFCMPZZ + DFINPZZ + DFTRPZZ DFNDPUS = ΣDFNDPZZ
DFOCP	Distillate fuel adjusted sales for use by oil companies.	Thousand barrels	DFOCPZZ is independent. DFOCPUS = ΣDFOCPZZ
DFOFP	Distillate fuel adjusted sales as diesel fuel for off-highway use.	Thousand barrels	DFOFPZZ is independent. DFOFPUS = ΣDFOFPZZ
DFONP	Distillate fuel adjusted sales as diesel fuel for on-highway use.	Thousand barrels	DFONPZZ is independent. DFONPUS = ΣDFONPZZ
DFOTP	Distillate fuel adjusted sales for all other uses not identified in other adjusted sales categories.	Thousand barrels	DFOTPZZ is independent. DFOTPUS = ΣDFOTPZZ

Variable	Description	Units	Formulas
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 adjusted sales for use by railroads.	Thousand barrels	DFRRPZZ is independent. DFRRPUS = ΣDFRRPZZ
DFRSP	Distillate fuel adjusted sales to the residential sector.	Thousand barrels	DFRSPZZ is independent. DFRSPUS = ΣDFRSPZZ
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 adjusted sales to the transportation sector.	Thousand barrels	DFTRPZZ = DFBKPZZ + DFMIPZZ + DFRRPZZ + DFONPZZ DFTRPUS = ΣDFTRPZZ
DKEUB	Distillate fuel and kerosene-type jet fuel consumed by the electric utilities.	Billion Btu	DKEUBZZ = DFEUBZZ + JKEUBZZ DKEUBUS = ΣDKEUBZZ
DKEUP	Distillate fuel and kerosene-type jet fuel consumed by the electric utilities.	Thousand barrels	DKEUPZZ is independent. DKEUPUS = ΣDKEUPZZ
ELEXB	Electricity exported from the United States (assumed to be produced from hydroelectric power through 1989).	Billion Btu	ELEXBZZ = HYEXBZZ + EXEXBZZ ELEXBUS = ΣELEXBZZ
ELEXP	Electricity exported from the United States (assumed to be produced from hydroelectric power through 1989).	Million kilowatthours	ELEXPZZ is independent. ELEXPUS = ΣELEXPZZ
ELIMB	Electricity imported into the United States (assumed to be produced from hydroelectric power through 1989).	Billion Btu	ELIMBZZ = HYIMBZZ + GEIMBZZ + EXIMBZZ ELIMBUS = ΣELIMBZZ

Variable	Description	Units	Formulas
ELIMP	Electricity imported into the United States (assumed to be produced from hydroelectric power through 1989).	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
EREXB	Electricity produced from renewable energy sources and exported from the United States.	Billion Btu	EREXBZZ = HYEXBZZ EREXBUS = ΣEREXBZZ
EREXP	Electricity produced from renewable energy sources and exported from the United States.	Million kilowatthours	EREXPZZ = HYEXPZZ EREXPUS = ΣEREXPZZ
ERIMB	Electricity produced from renewable energy sources and imported into the United States.	Billion Btu	ERIMBZZ = HYIMBZZ + GEIMBZZ ERIMBUS = ΣERIMBZZ
ERIMP	Electricity produced from renewable energy sources and imported into the United States.	Million kilowatthours	ERIMPZZ = HYIMPZZ + GEIMPZZ ERIMPUS = ΣERIMPZZ
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

Variable	Description	Units	Formulas
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
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.
EXEXB	Electricity produced from nonrenewable energy sources and exported from the United States.	Billion Btu	EXEXBZZ = EXEXPZZ * FFEOKUS EXEXBUS = ΣEXEXBZZ
EXEXP	Electricity produced from nonrenewable energy sources and exported from the United States.	Million kilowatthours	EXEXPZZ = ELEXPZZ - EREXPZZ EXEXPUS = ΣEXEXPZZ
EXIMB	Electricity produced from nonrenewable energy sources and imported into the United States.	Billion Btu	EXIMBZZ = EXIMPZZ * FFEOKUS EXIMBUS = ΣEXIMBZZ
EXIMP	Electricity produced from nonrenewable energy sources and imported into the United States.	Million kilowatthours	EXIMPZZ = ELIMPZZ - ERIMPZZ EXIMPUS = ΣEXIMPZZ

Variable	Description	Units	Formulas
EXNIB	Net imports of electricity into the United States produced from nonrenewable energy sources.	Billion Btu	EXNIBZZ = EXIMBZZ - EXEXBZZ EXNIBUS = ΣEXNIBZZ
EXNIP	Net imports of electricity into the United States produced from nonrenewable energy sources.	Million kilowatthours	EXNIPZZ = EXIMPZZ - EXEXPZZ EXNIPUS = ΣEXNIPZZ
FFEOKUS	Fossil fuel steam-electric power plant conversion factor.	Thousand Btu per kilowatthour	FFEOKUS is independent.
FNICB	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Billion Btu	FNICBZZ = FNTCBZZ FNICBUS = FNTCBUS
FNICP	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Thousand barrels	FNICPZZ = FNTCPZZ FNICPUS = FNTCPUS
FNTCB	Petrochemical feedstocks, naphtha less than 401° F, total consumed.	Billion Btu	FNTCBZZ = FNTCPZZ * 5.248 FNTCBUS = ΣFNTCBZZ
FNTCP	Petrochemical feedstocks, naphtha less than 401° F, total consumed.	Thousand barrels	FNTCPZZ = (OCVAVZZ / OCVAVUS) * FNTCPUS FNTCPUS is independent.
FOICB	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Billion Btu	FOICBZZ = FOTCBZZ FOICBUS = FOTCBUS
FOICP	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Thousand barrels	FOICPZZ = FOTCPZZ FOICPUS = FOTCPUS
FOTCB	Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumed.	Billion Btu	FOTCBZZ = FOTCPZZ * 5.825 FOTCBUS = ΣFOTCBZZ
FOTCP	Petrochemical feedstocks, other oils equal to or greater than 401° 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
FSTCB	Petrochemical feedstocks, still gas, total consumed.	Billion Btu	FSTCBZZ = FSTCPZZ * 6.000 FSTCBUS = ΣFSTCBZZ

Variable	Description	Units	Formulas
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
GEICB	Electricity produced from geothermal energy in the industrial sector.	Billion Btu	GEICBZZ is independent. GEICBUS = ΣGEICBZZ
GEIMB	Electricity produced from geothermal energy and imported into the United States.	Billion Btu	GEIMBZZ = GEIMPZZ * GEEOKUS GEIMBUS = ΣGEIMBZZ
GEIMP	Electricity produced from geothermal energy and imported into the United States.	Million kilowatthours	GEIMPZZ is independent. GEIMPUS = ΣGEIMPZZ
GEENB	Geothermal subtotal: electricity produced from geothermal energy at electric utilities plus imports of electricity into the United States.	Billion Btu	GEENBZZ = GEEOBZZ + GEIMBZZ GEENBUS = ΣGEENBZZ
GEENP	Geothermal subtotal: electricity produced from geothermal energy at electric utilities plus imports of electricity into the United States.	Million kilowatthours	GEENPZZ = GEEOPZZ + GEIMPZZ GEENPUS = ΣGEENPZZ
GETCB	Geothermal total: electricity produced.	Billion Btu	GETCBZZ = GEICBZZ + GEENBZZ GETCBUS = ΣGETCBZZ
GETCP	Geothermal total: electricity produced (available for 1960–1989 only).	Million kilowatthours	GETCPZZ = GEICPZZ + GEENPZZ GETCPUS = ΣGETCPZZ
GOICB	Electricity produced from geothermal, wind, photovoltaic, and solar thermal energy sources in the industrial sector.	Billion Btu	GOICBZZ = GEICBZZ + SOICBZZ + WYICBZZ GOICBUS = ΣGOICBZZ

Variable	Description	Units	Formulas
GOTCB	Electricity produced from geothermal, wind, photovoltaic, and solar thermal energy sources; total produced.	Billion Btu	GOTCBZZ = GETCBZZ + SOTCBZZ + WYTCBZZ GOTCBUS = ΣGOTCBZZ
GOTCP	Electricity produced from geothermal, wind, photovoltaic, and solar thermal energy sources; total produced (available for 1960–1989 only).	Million kilowatthours	GOTCPZZ = GETCPZZ + SOTCPZZ + WYTCPZZ GOTCPUS = ΣGOTCPZZ
HPEOB	Electricity produced from pumped storage hydroelectric power at electric utilities.	Billion Btu	HPEOBZZ = HPEOPZZ * FFEOKUS HPEOBUS = ΣHPEOBZZ
HPEOP	Electricity produced from pumped storage hydroelectric power at electric utilities.	Million kilowatthours	HPEOPZZ is independent. HPEOPUS = ΣHPEOPZZ
HVENB	Renewable hydroelectric subtotal: electricity produced from conventional hydropower at electric utilities plus net imports of electricity into the United States.	Billion Btu	HVENBZZ = HVEOBZZ + HYIMBZZ – HYEXBZZ HVENBUS = ΣHVENBZZ
HVENP	Renewable hydroelectric subtotal: electricity produced from conventional hydropower at electric utilities plus net imports of electricity into the United States.	Million kilowatthours	HVENPZZ = HVEOPZZ + HYIMPZZ – HYEXPZZ HVENPUS = ΣHVENPZZ
HVEOB	Electricity produced from conventional hydropower at electric utilities.	Billion Btu	HVEOBZZ = HVEOPZZ * FFEOKUS HVEOBUS = ΣHVEOBZZ
HVEOP	Electricity produced from conventional hydropower at electric utilities.	Million kilowatthours	HVEOPZZ is independent. HVEOPUS = ΣHVEOPZZ
HYENB	Hydroelectric subtotal: electricity produced from all types hydropower at electric utilities plus net imports of electricity into the United States.	Billion Btu	HYENBZZ = HYEOBZZ + HYIMBZZ – HYEXBZZ HYENBUS = ΣHYENBZZ
HYENP	Hydroelectric subtotal: electricity produced from all types of hydropower at electric utilities plus net imports of electricity into the United States.	Million kilowatthours	HYENPZZ = HYEOPZZ + HYIMPZZ – HYEXPZZ HYENPUS = ΣHYENPZZ
HYEOB	Electricity produced from all types of hydropower at electric utilities.	Billion Btu	HYEOBZZ = HPEOBZZ + HVEOBZZ HYEOBUS = ΣHYEOBZZ

Variable	Description	Units	Formulas
HYEOP	Electricity produced from all types of hydropower at electric utilities.	Million kilowatthours	HYEOPZZ = HPEOPZZ + HVEOPZZ HYEOPUS = ΣHYEOPZZ
HYEXB	Electricity produced from hydroelectric power and exported from the United States.	Billion Btu	HYEXBZZ = HYEXPZZ * FFEOKUS HYEXBUS = ΣHYEXBZZ
HYEXP	Electricity produced from hydroelectric power and exported from the United States.	Million kilowatthours	HYEXPZZ is independent. HYEXPUS = ΣHYEXPZZ
HYICB	Electricity produced from hydroelectric power at industrial facilities.	Billion Btu	HYICBZZ is independent. HYICBUS = ΣHYICBZZ
HYICP	Electricity produced from hydroelectric power at industrial facilities (available for 1960–1989 only).	Million kilowatthours	HYICPZZ is independent. HYICPUS = ΣHYICPZZ
HYIMB	Electricity produced from hydroelectric power and imported into the United States.	Billion Btu	HYIMBZZ = HYIMPZZ * FFEOKUS HYIMBUS = ΣHYIMBZZ
HYIMP	Electricity produced from hydroelectric power and imported into the United States.	Million kilowatthours	HYIMPZZ is independent. HYIMPUS = ΣHYIMPZZ
HYTCB	Hydroelectric total: electricity produced from hydropower at electric utilities (including net imports of electricity) and at 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 at industrial facilities (available for 1960–1989 only).	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

Variable	Description	Units	Formulas
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 = (JKTTPZZ / JKTTPUS) * 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
JKTTP	Kerosene-type jet fuel total sold.	Thousand gallons	JKTTPZZ is independent. JKTTPUS = ΣJKTTPZZ
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.

Variable	Description	Units	Formulas
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 sold 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 sold for industrial heating.	Thousand barrels	KSIHPZZ is independent. KSIHPUS = ΣKSIHPZZ
KSINP	Kerosene sold to the industrial sector.	Thousand barrels	KSINPZZ = KSOTPZZ + KSIHPZZ KSINPUS = ΣKSINPZZ
KSOTP	Kerosene sold 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 sold 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 sold.	Thousand barrels	KSTTPZZ = KSRSPZZ + KSCMPZZ + KSINPZZ KSTTPUS = ΣKSTTPZZ

Variable	Description	Units	Formulas
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
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.

Variable	Description	Units	Formulas
LGTCP	LPG total consumed.	Thousand barrels	LGTCPZZ = (LGTTPZZ / LGTTPUS) * LGTCPUS LGTCPUS is independent.
LGTRSUS	The transportation sector's 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: LOACBAK = (ESACBAK / ESTCBAK) * LOTCBAK LOACBHI = (ESACBHI / ESTCBHI) * LOTCBHI LOACBUS = ΣLOACBZZ
LOACP	The transportation sector's share of electrical system energy losses.	Million 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.	Million 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.	Million 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

Variable	Description	Units	Formulas
LORCP	The residential sector's share of electrical system energy losses.	Million 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)
LOTCP	Total electrical system energy losses.	Million 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

Variable	Description	Units	Formulas
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
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

Variable	Description	Units	Formulas
MGMFP	Motor gasoline sold for highway use.	Thousand gallons	MGMFPZZ is independent. MGMFPUS = ΣMGMFPZZ
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 nonhighway 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.	Billion Btu	NGACBZZ = NGACPZZ * NGNUKZZ NGACBUS = ΣNGACBZZ
NGACP	Natural gas consumed by the transportation sector.	Million cubic feet	NGACPZZ = NGPZPZZ + NGVZPZZ 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 + NGLEPZZ + NGPLPZZ NGICPUS = ΣNGICPZZ
NGINP	A portion of the natural gas delivered to the industrial sector.	Million cubic feet	NGINPZZ is independent. NGINPUS = ΣNGINPZZ
NGLEP	Natural gas consumed as lease fuel.	Million cubic feet	NGLEPZZ is independent. NGLEPUS = ΣNGLEPZZ

Variable	Description	Units	Formulas
NGNUK	Factor for converting natural gas consumed by all sectors other than the electric utility sector from physical units to Btu.	Thousand Btu per cubic foot	NGNUKZZ = (NGTCBZZ – NGEUBZZ) / (NGTCPZZ – NGEUPZZ) NGNUKUS = (NGTCBUS – NGEUBUS) / (NGTCPUS – NGEUPUS)
NGPLP	Natural gas consumed as plant fuel.	Million cubic feet	NGPLPZZ is independent. NGPLPUS = ΣNGPLPZZ
NGPZP	Natural gas consumed as pipeline fuel.	Million cubic feet	NGPZPZZ is independent. NGPZPUS = ΣNGPZPZZ
NGRCB	Natural gas delivered to the residential sector, used as consumption.	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
NGVZP	Natural gas consumed as vehicle fuel.	Million cubic feet	NGVZPZZ is independent. NGVZPUS = ΣNGVZPZZ
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

Variable	Description	Units	Formulas
PAACB	All petroleum products consumed by the transportation sector.	Billion Btu	PAACBZZ = AVACBZZ + DFACBZZ + JKACBZZ + JNACBZZ + LGACBZZ + LUACBZZ + MGACBZZ + RFACBZZ PAACBUS = ΣPAACBZZ
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

Variable	Description	Units	Formulas
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
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 by the industrial sector.	Billion Btu	PCICBZZ = PCICPZZ * 6.024 PCICBUS = ΣPCICBZZ
PCICP	Petroleum coke consumed by 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.	Billion Btu	PCTCBZZ = PCICBZZ + PCEUBZZ PCTCBUS = ΣPCTCBZZ
PCTCP	Petroleum coke total consumed.	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
PLTCB	Plant condensate total consumed.	Billion Btu	PLTCBZZ = PLTCPZZ * 5.418 PLTCBUS = ΣPLTCBZZ

Variable	Description	Units	Formulas
PLTCP	Plant condensate total consumed.	Thousand barrels	PLTCPZZ = (OCVAVZZ / OCVAVUS) * PLTCPUS PLTCPUS is independent.
POICB	Other petroleum 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	Other petroleum 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	Other petroleum 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	Other petroleum 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
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

Variable	Description	Units	Formulas
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.
REACB	Renewable energy sources consumed by the transportation sector.	Billion Btu	REACBZZ = WWACBZZ REACBUS = WWACBUS
REACP	Renewable energy sources consumed by the transportation sector.	Thousand gallons	REACPZZ = WWACPZZ REACPUS = WWACPUS
REEOB	Renewable energy sources consumed by the electric utilities.	Billion Btu	REEOBZZ = HVENBZZ + GEENBZZ + WWEOBZZ + WNEOBZZ REEOBUS = HVENBUS + GEENBUS + WWEOBUS + WNEOBUS
REEOP	Renewable energy sources consumed by the electric utilities.	Million kilowatthours	REEOPZZ = HVENPZZ + GEENPZZ + WWEOPZZ + WNEOPZZ REEOPUS = HVENPUS + GEENPUS + WWEOPUS + WNEOPUS
REHCB	Renewable energy sources consumed by the residential and commercial sectors.	Billion Btu	REHCBZZ = WWHCBZZ + SOHCBZZ REHCBUS = WWHCBUS + SOHCBUS
REICB	Renewable energy sources consumed by the industrial sector.	Billion Btu	REICBZZ = HYICBZZ + WWICBZZ + GOICBZZ REICBUS = HYICBUS + WWICBUS + GOICBUS
RETCB	Renewable energy sources total consumed.	Billion Btu	RETCBZZ = REHCBZZ + REICBZZ + REACBZZ + REEOBZZ RETCBUS = REHCBUS + REICBUS + REACBUS + REEOBUS
RFACB	Residual fuel consumed by the transportation sector.	Billion Btu	RFACBZZ = RFACPZZ * 6.287 RFACBUS = ΣRFACBZZ

Variable	Description	Units	Formulas
RFACP	Residual fuel consumed by the transportation sector.	Thousand barrels	RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ RFACPUS = ΣRFACPZZ
RFBKP	Residual fuel sold 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 sold 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
RFEUP	Residual fuel consumed by the electric utilities.	Thousand barrels	RFEUPZZ is independent. RFEUPUS = ΣRFEUPZZ
RFIBP	A portion of residual fuel sold 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 sold to the industrial sector.	Thousand barrels	RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ RFINPUS = ΣRFINPZZ
RFMIP	Residual fuel sold to the Armed Forces, regardless of use.	Thousand barrels	RFMIPZZ is independent. RFMIPUS = ΣRFMIPZZ
RFMSP	Residual fuel sold for miscellaneous uses.	Thousand barrels	RFMSPZZ is independent. RFMSPUS = ΣRFMSPZZ
RFNCP	Residual fuel consumption by all sectors other than the electric utility sector.	Thousand barrels	RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS RFNCPUS = RFTCPUS – RFEUPUS

Variable	Description	Units	Formulas
RFNDP	Residual fuel sold to all sectors other than the electric utility sector.	Thousand barrels	RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ RFNDPUS = ΣRFNDPZZ
RFOCP	Residual fuel sold for use by oil companies.	Thousand barrels	RFOCPZZ is independent. RFOCPUS = ΣRFOCPZZ
RFRRP	Residual fuel sold 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.
RFTRP	Residual fuel sold 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.

Variable	Description	Units	Formulas
SOEOB	Electricity produced from photovoltaic and solar thermal energy by electric utilities.	Billion Btu	SOEOBZZ = SOEOPZZ * FFEOKUS SOEOBUS = ΣSOEOBZZ
SOEOP	Electricity produced from photovoltaic and solar thermal energy by electric utilities.	Million kilowatthours	SOEOPZZ is independent. SOEOPUS = ΣSOEOPZZ
SOHCB	Solar thermal energy consumed by the residential and commercial sectors.	Billion Btu	SOHCBZZ is independent. SOHCBUS = ΣSOHCBZZ
SOHCP	Solar thermal energy consumed by the residential and commercial sectors.	Million kilowatthours	SOHCPZZ = SOHCBZZ / 3.412 SOHCPUS = ΣSOHCPZZ
SOICB	Electricity produced from photovoltaic and solar thermal energy sources in the industrial sector.	Billion Btu	SOICBZZ is independent. SOICBUS = ΣSOICBZZ
SOTCB	Photovoltaic and solar thermal energy sources total consumed.	Billion Btu	SOTCBZZ = SOHCBZZ + SOICBZZ + SOEOBZZ SOTCBUS = ΣSOTCBZZ
SOTCP	Photovoltaic and solar thermal energy sources total consumed (available for 1960–1989 only).	Million kilowatthours	SOTCPZZ = SOHCPZZ + SOICPZZ + SOEOPZZ SOTCPUS = ΣSOTCPZZ
TEACB	Total energy consumed by the transportation sector.	Billion Btu	TEACBZZ = CLACBZZ + NGACBZZ + PAACBZZ + ESACBZZ + LOACBZZ TEACBUS = CLACBUS + NGACBUS + PAACBUS + 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 = CLCCBZZ + NGCCBZZ + PACCBZZ + ESCCBZZ + LOCCBZZ TECCBUS = CLCCBUS + NGCCBUS + PACCBUS + ESCCBUS + LOCCBUS
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 = CLEUBZZ + NGEUBZZ + PAEUBZZ + HYENBZZ + NUEOBZZ + GEENBZZ + WWEOBZZ + WNEOBZZ + EXNIBZZ TEEUBUS = CLEUBUS + NGEUBUS + PAEUBUS +

Variable	Description	Units	Formulas
			HYENBUS + NUEOBUS + GEENBUS + WWEOBUS + WNEOBUS + EXNIBUS
TEICB	Total energy consumed by the industrial sector.	Billion Btu	TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + HYICBZZ + WWICBZZ + GOICBZZ + ESICBZZ + LOICBZZ TEICBUS = CLICBUS + NGICBUS + PAICBUS + HYICBUS + WWICBUS + GOICBUS + 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 = CLRCBZZ + NGRCBZZ + PARCBZZ + WWHCBZZ + SOHCBZZ + ESRCBZZ + LORCBZZ TERCBUS = CLRCBUS + NGRCBUS + PARCBUS + WWHCBUS + SOHCBUS + 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
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

Variable	Description	Units	Formulas
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	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.
WDCCBUS	Wood energy consumed by the commercial sector.	Billion Btu	WDCCBUS is independent.
WDCCPUS	Wood energy consumed by the commercial sector.	Thousand cords	WDCCPUS = WDCCBUS / 20
WDEOB	Electricity produced from wood energy sources at electric utilities.	Billion Btu	WDEOBZZ = WDEOPZZ * FFEOKUS WDEOBUS = ΣWDEOBZZ
WDEOP	Electricity produced from wood energy sources at electric utilities.	Million kilowatthours	WDEOPZZ is independent. WDEOPUS = ΣWDEOPZZ

Variable	Description	Units	Formulas
WDRCB	Wood energy consumed by the residential sector.	Billion Btu	WDRCBZZ = WDRCPZZ * 20 WDRCBUS = ΣWDRCBZZ
WDRCP	Wood energy consumed by the residential sector.	Thousand cords	WDRCPZZ is independent. WDRCPUS = ΣWDRCPZZ
WNEOB	Electricity produced from wind, photovoltaic, and solar thermal energy sources at electric utilities.	Billion Btu	WNEOBZZ = SOEOBZZ + WYEOBZZ WNEOBUS = ΣWNEOBZZ
WNEOP	Electricity produced from wind, photovoltaic, and solar thermal energy sources at electric utilities.	Million kilowatthours	WNEOPZZ = SOEOPZZ + WYEOPZZ WNEOPUS = ΣWNEOPZZ
WSEOB	Electricity produced from waste energy sources at electric utilities.	Billion Btu	WSEOBZZ = WSEOPZZ * FFEOKUS WSEOBUS = ΣWSEOBZZ
WSEOP	Electricity produced from waste energy sources at electric utilities.	Million kilowatthours	WSEOPZZ is independent. WSEOPUS = ΣWSEOPZZ
WWACB	Biofuels (ethanol) consumed by the transportation sector.	Billion Btu	WWACBZZ = WWACPZZ * 0.0764 WWACBUS = ΣWWACBZZ
WWACP	Biofuels (ethanol) consumed by the transportation sector.	Thousand gallons	WWACPZZ is independent. WWACPUS = ΣWWACPZZ
WWEOB	Electricity produced from biofuels at electric utilities.	Billion Btu	WWEOBZZ = WDEOBZZ + WSEOBZZ WWEOBUS = ΣWWEOBZZ
WWEOP	Electricity produced from biofuels at electric utilities.	Million kilowatthours	WWEOPZZ = WDEOPZZ + WSEOPZZ WWEOPUS = ΣWWEOPZZ
WWHCB	Biofuels (wood) consumed by the residential and commercial sector.	Billion Btu	WWHCBZZ = WDRCBZZ WWHCBUS = WDRCBUS + WDCCBUS
WWHCP	Biofuels (wood) consumed by the residential and commercial sector.	Thousand cords	WWHCPZZ = WDRCPZZ WWHCPUS = WDRCPUS + WDCCPUS
WWICB	Biofuels (wood and waste) consumed by the industrial sector.	Billion Btu	WWICBZZ is independent. WWICBUS = ΣWWICBZZ
WWTCP	Biofuels total consumed (available for 1960–1989 only).	Million kilowatthours	WWTCPZZ = WWEOPZZ WWTCPUS = WWEOPUS

Variable	Description	Units	Formulas
WWTCB	Biofuels total consumed.	Billion Btu	WWTCBZZ = WWHCBZZ + WWICBZZ + WWACBZZ + WWEOBZZ WWTCBUS = WWHCBUS + WWICBUS + WWACBUS + WWEOBUS
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.
WYEOB	Electricity produced from wind energy at electric utilities.	Billion Btu	WYEOBZZ = WYEOPZZ * FFEOKUS WYEOBUS = ΣWYEOBZZ
WYEOP	Electricity produced from wind energy at electric utilities.	Million kilowatthours	WYEOPZZ is independent. WYEOPUS = ΣWYEOPZZ
WYICB	Electricity produced from wind energy by the industrial sector.	Billion Btu	WYICBZZ is independent. WYICBUS = ΣWYICBZZ
WYTCB	Electricity produced from wind energy total produced.	Billion Btu	WYTCBZZ = WYICBZZ + WYEOBZZ WYTCBUS = ΣWYTCBZZ
WYTCP	Electricity produced from wind energy total produced (available for 1960–1989 only).	Million kilowatthours	WYTCPZZ = WYICPZZ + WYEOPZZ WYTCPUS = ΣWYTCPZZ

Appendix C

Sources of Independent Variables in the State Energy Data System

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 have been withheld since 1986. The company's total capacity has been apportioned to the individual plants on the basis of 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 was 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 reported on 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 Form EIA-6.

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 1990: Table 29.
  — 1991 forward: Table 51.

Withheld State values for consumption of all types of coal are estimated by 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 proportionally until the sum of State distribution values equals the U.S. consumption value published in the *Quarterly Coal Report*. The distribution data are published in:

— 1980 through 1984: EIA, *Coal Distribution, January-December 1984*, Table 21.
— 1985 through 1989: EIA, *Coal Distribution, January-December 1989*, Table 15.
— 1990 and 1991: EIA, *Coal Distribution, January-December* for each year, Table 16.
— 1992 forward: EIA, *Quarterly Coal Report, October-December* for the following year, Table 10.

Anthracite consumption is estimated by using distribution data published in EIA, *Coal Distribution, January-December* for each year. The specific tables are:

("District 24" represents all anthracite.)
— 1980 through 1983: Tables 8 and 9.
— 1984: Tables 6 and 8.
— 1985 through 1989: Tables 6 and 3.

("Origin: Pennsylvania, Anthracite" represents all anthracite.)
— 1990 and 1991: Table 33.
— 1992 forward: Unpublished data from Form EIA-6.

State distribution data are increased or decreased proportionally until the sum of the States' distribution values equals the U.S. consumption (ACHCPUS).

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 Form EIA-5.

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, 1985, and 1987: Table 27.
  — 1986, 1988, and 1989: Unpublished State revisions that are components of the U.S. revisions published in the *Quarterly Coal Report, October-December 1991*, Table 45.
  — 1990: Table 27.
  — 1991 forward: Table 48.

  Withheld State values for consumption of all types of coal are estimated by 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. The specific tables are:

  ("District 24" represents all anthracite.)
  — 1980 through 1983: Tables 8 and 9.
  — 1984: Tables 6 and 8.
  — 1985 through 1989: Tables 6 and 33.

  ("Origin: Pennsylvania, Anthracite" represents all anthracite.)
  — 1990 and 1991: Table 33.
  — 1992 forward: Unpublished data from Form EIA-6.

  State distribution data are increased or decreased proportionally until the sum of the States' distribution values equals the U.S. consumption (ACKCPUS).

ACNUKUS — Factor for converting anthracite consumed by all sectors other than the electric utility sector from physical units to Btu.

- Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite con-

sumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector 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 and EIA-6.

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 1990: Table 28.
  — 1991 forward: Table 49.
  Withheld State values for consumption of all types of coal are estimated by 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. The specific tables are:
  ("District 24" represents all anthracite.)
  — 1980 through 1983: Tables 8 and 9.
  — 1984: Tables 6 and 8.
  — 1985 through 1989: Tables 6 and 33.
  ("Origin: Pennsylvania, Anthracite" represents all anthracite.)
  — 1990 and 1991: Table 33.
  — 1992 forward: Unpublished data from Form EIA-6.
  State distribution data are increased or decreased proportionally until the sum of the States' distribution values equals total U.S. consumption (ACOCPUS).

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.
- 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 forward: The Asphalt Institute, *Asphalt Usage United States and Canada*, table titled "U.S. Asphalt Usage."

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. (Beginning in 1983, this variable includes road oil.)

Aviation Gasoline

AVMIPZZ — Aviation fuel issued to the military in the United States by State.

- 1960 through 1974: No data are available. The 1977 data are used for each year.
- 1975 and 1976: No consistent data series are available. The 1977 data are used for both years.
- 1977 through 1988: 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 and 1990: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. State data for the fiscal year from two databases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-Plane Database (military purchases from commercial airports). Into-plane values reported for the District of Columbia are added to Virginia.
- 1991 forward: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. State data for the calendar year from two databases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-Plane Database (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.

Biofuels

WDCCBUS — Wood consumed by the commercial sector in the United States.

- 1960 through 1992: No data available. Values are assumed to be zero.
- 1993 and 1994: EIA, *Renewable Energy Annual 1995*, Table 6.

WDEOPZZ — Electricity produced from wood energy sources at electric utilities by State.

- 1960 through 1981: Data included in waste energy sources.
- 1982 forward: EIA, Form EIA-759, "Monthly Power Plant Report.

WDRCPZZ — Wood energy consumed by the residential sector by State.

- 1960 through 1989: No data available. Values are assumed to be zero.
- 1990: U.S. Census Division wood consumption data are from Form EIA-457, "1990 Residential Energy Consumption Survey." State-level estimates are derived by using the U.S. Department of Commerce, Bureau of the Census, American

Housing Survey, Total Housing Units for 1990 by State, to allocate the division-level wood consumption to the States.

- 1991 and 1992: U.S. totals published in trillion Btu in the EIA, *Renewable Energy Annual 1995*, Table 6, are converted to thousand cords and allocated to the States in proportion to the 1990 estimates.
- 1993: Data for U.S. Census Divisions and CA, FL, NY, and TX are from Form EIA-457, "1993 Residential Energy Consumption Survey." Data for other States are derived by using the U.S. Department of Commerce, Bureau of the Census, American Housing Survey, Total Housing Units for 1993 by State, to allocate the division-level wood consumption, minus known State consumption, to the remaining States in each Division.
- 1994: U.S. total published in trillion Btu in the EIA, *Renewable Energy Annual 1995*, Table 6, is converted to thousand cords and allocated to the States in proportion to the 1993 estimates.

WSEOPZZ — Electricity produced from waste energy sources at electric utilities by State.

- 1960 forward: EIA, Form EIA-759, "Monthly Power Plant Report" (includes wood energy sources from 1960 through 1981).

WWACPZZ — Biofuels (ethanol) consumed by the transportation sector by State.

- 1960 through 1989: No data available. Values are assumed to be zero.
- 1990 through 1993: U.S. totals published in quadrillion Btu in the EIA, *Renewable Energy Annual 1995*, Table 2, are converted to gallons (by using the conversion factor of 76,400 Btu per gallon as documented in Appendix D) and allocated to the States in proportion to the 1994 estimates.
- 1994: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics 1994*, Table MF-33E, column "Total Ethanol Used in Gasohol."

WWICBZZ — Biofuels (wood and waste) consumed by the industrial sector by State.

- 1960 through 1989: No data available. Values are assumed to be zero.
- 1990 forward: EIA estimates are developed by using four data sources. U.S. totals for each year are from EIA, *Renewable Energy Annual 1995*, Table 2.
  - — A portion of the total for each year is allocated to the States by using State estimates of biofuels from the Form EIA-867, "Annual Nonutility Power Producers Report."
  - — The remaining portion of the U.S. total for each year is assumed to be consumed by manufacturing industries. The Form EIA-846 "1991 Manufacturing Energy Consumption Survey (MECS)" identifies the largest manufacturing biofuels consumers to be industries in Standard Industrial Code (SIC) 2421 "Sawmills and Planing Mills," SIC 2541 "Wood Partitions and Fixtures," and SIC 2621 "Paper Mills." A State-level allocating data series is developed using MECS U.S. totals for the three series and the State-level "Value Added in Manufacture" series for each SIC from the U.S. Department of Commerce, Bureau of the Census, 1992 Census of Manufactures, Industry Series. (Data are available via Internet at http://www/census.gov/prod/manmin/92mmi/92manuff.html.) The weighted-average State allocator was applied to the U.S. manufacturing portion for each year.

  The two portions are summed by State and year to equal the original U.S. totals from the EIA, *Renewable Energy Annual 1995*, 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 sector 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 (FPC) 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*, tables titled "Destination and Origin of Coal 'Delivered to' (1973–1979) 'Receipts to' (1980) 'Received at' (1981–1982) 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 through 1989: Table 48.
  - 1990 and 1991: Table 35.
  - 1992: Table 22.
  - 1993 and 1994: Table 4 or 22.

Notes: The State conversion factors for 1960 through 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 through 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, FPC Form 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 through 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 and commercial sectors 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 through 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 those of 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 sectors 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 Form EIA-6.

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," column 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 Form EIA-5.

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 through 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 those of 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. 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.

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 titled "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 and EIA-6.

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 1989: Table 29.
— 1989 forward: 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 of the following year). The specific tables are:
  — 1980 through 1990: Table A1.
  — 1991 forward: Table 2.

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 of the following year). The specific tables are:
  — 1980 through 1990: Table A1.
  — 1991 forward: Table 2.

Crude Oil (including lease condensate)

COCAPZZ — Crude oil 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 forward: 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 (PAD) Districts, 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. (Data on pipeline and lease consumption of fuels are not available after 1982.) Each State's 1982 ratio of distillate and residual fuels consumed by pipeline and leases to its respective 1982 PAD District total consumption of those fuels is calculated. This ratio is then applied to the 1983 forward PAD District totals of crude oil product supplied. The 1982 ratios are taken from the Form EIA-90, "Crude Oil Stocks Report," and the crude oil product supplied data are taken from the EIA *Petroleum Supply Annual*. The specific tables are:
  — 1983 through 1988: Tables 2 and 4 through 8.
  — 1989 forward: Tables 2, 4, 6, 8, 10, and 12.

Distillate Fuel

DFBKPZZ — Distillate fuel adjusted sales 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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

DFCMPZZ — Distillate fuel adjusted sales 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, Note 3, on page 358.)
- 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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

DFIBPZZ — Distillate fuel adjusted sales 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, Note 3, on page 358.)
- 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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

DFMIPZZ — Distillate fuel adjusted sales 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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

DFOCPZZ — Distillate fuel adjusted sales 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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

DFOFPZZ — Distillate fuel adjusted sales as diesel fuel 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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

DFONPZZ — Distillate fuel adjusted sales as diesel fuel for on-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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

DFOTPZZ — Distillate fuel adjusted sales for all other uses not identified in other adjusted sales 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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

DFRRPZZ — Distillate fuel adjusted sales 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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

DFRSPZZ — Distillate fuel adjusted sales 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, Note 3, on page 358.)
- 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 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 16.

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 (assumed to be produced by hydroelectric power through 1989) 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 are 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 are based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data," the Federal Energy Regulatory Commission Form 1, and the Bonneville Power Administration Annual Report. State estimates are consistent with national and regional totals published in the ERA, *Electricity Transactions Across International Borders.*
- 1988 forward: EIA State estimates are based on data from DOE, Fossil Fuels, Fuels Programs, Office of Coal and Electricity, Form FE-781R, "Annual Report of International Electrical Export/Import Data," and predecessor forms, the Federal Energy Regulatory Commission Form 1, the Bonneville Power Administration data, and the Canada National Energy Board Annual Report.

ELIMPZZ — Electricity imported into the United States (assumed to be produced by hydroelectric power through 1989) 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 are 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 are based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data," the Federal Energy Regulatory Commission Form 1, and the Bonneville Power Administration Annual Report. State estimates are consistent with national and regional totals published in the ERA, *Electricity Transactions Across International Borders.*
- 1988 forward: EIA State estimates are based on data from DOE, Fossil Fuels, Fuels Programs, Office of Coal and Electricity, Form FE-781R, "Annual Report of International Electrical Export/Import Data," and predecessor forms, the Federal Energy Regulatory Commission Form 1, the Bonneville Power Administration data, and the Canada National Energy Board Annual Report.

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, Note 3, on page 399.

- 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 data 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 data rounded to gigawatthours in EIA, *Electric Power Annual 1988*, Table 19.
- 1988 forward: EIA, Form EIA-861, "Annual Electric Utility Report." Published data rounded to gigawatthours in EIA, *Electric Power Annual* (*Volume I* for 1994). The specific tables are:
  - — 1988 through 1990: Table 27.
  - — 1991 forward: Table 26.

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, Note 3, on page 399.

- 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 data 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 data rounded to gigawatthours in EIA, *Electric Power Annual 1988*, Table 19.
- 1988 forward: EIA, Form EIA-861, "Annual Electric Utility Report." Published data rounded to gigawatthours in EIA, *Electric Power Annual* (*Volume I* for 1994). The specific tables are:
  - — 1988 through 1990: Table 27.
  - — 1991 forward: Table 26.

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, Note 3, on page 399.

- 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 data 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 data rounded to gigawatthours in EIA, *Electric Power Annual 1988*, Table 19.
- 1988 forward: EIA, Form EIA-861, "Annual Electric Utility Report." Published data rounded to gigawatthours in EIA, *Electric Power Annual* (*Volume I* for 1994). The specific tables are:
  - — 1988 through 1990: Table 27.
  - — 1991 forward: Table 26.

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, Note 3, on page 399.

- 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 data 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 data rounded to gigawatthours in EIA, *Electric Power Annual 1988*, Table 19.
- 1988 forward: EIA, Form EIA-861, "Annual Electric Utility Report." Published data rounded to gigawatthours in EIA, *Electric Power Annual* (*Volume I* for 1994). The specific tables are:
  - — 1988 through 1990: Table 27.
  - — 1991 forward: Table 26.

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 are based on data from:
  - — The American Public Transit Association (formerly the American Transit Association) annual operating reports.
  - — Pushkarev, Boris S. and 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 1989: 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."
  - — 1979 and 1980: Table 2.13.1.
  - — 1981 and 1982: Table 3.13.1.
  - — 1983 through 1989: Table 3.12.
- 1990 forward: U.S. Department of Transportation, Federal Transit Administration, *Data Tables for the Section 15 Report Year.*
  - — 1990: Table 2.12.
  - — 1991: Table 13.
  - — 1992 and 1993: Table 15.
  - — 1994: Prepublished data.

Data also available via internet:

- 1993 and 1994: http://www.fta.dot.gov/fta/library/reference/sec15.

Notes: These data are available on a fiscal year basis (July 1 through June 30) for 1979 through 1982 and for calendar years 1983 forward. Some data for 1979 through 1983 were adjusted by EIA on the basis of an analysis of historical trends. Electricity consumption for the District of Columbia for 1976 forward is partially apportioned to Maryland and Virginia on the basis of electricity consumption data from the Washington Metropolitan Area Transit Authority.

ESTRSUS — The share of electricity sold to the "Other" sector (ESOTPZZ) that is used for transportation (i.e., by railroads and railways) by State. (See further explanation of this share in Appendix A, Note 2, on page 398.) 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 through 1992: EIA, *Financial Statistics of Major U.S. Investor-Owned Electric Utilities 1992*, Table 15.
- 1993 and 1994: EIA, *Financial Statistics of Major U.S. Investor-Owned Electric Utilities 1994*, Table 15.

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 1991: Estimated by EIA as the weighted annual average heat rate for fossil-fueled steam-electric plants in the United States as published in the EIA, *Electric Plant Cost and Power Production Expenses 1991*, Table 9.
- 1992 forward: Unpublished factors calculated on the basis of data from Form EIA-767.

Geothermal

GEEOKUS — Factor for converting electricity produced from geothermal energy from physical units to Btu.

- 1960 through 1981: Calculated by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on Federal Power Commission Form 12.
- 1982 forward: Estimated annually by the EIA on the basis of 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.

GEICBZZ — Electricity produced from geothermal energy in the industrial sector by State.

- 1960 through 1989: No data available. Values assumed to be zero.
- 1990 forward: EIA estimates based on data collected on Form EIA-867, "Annual Nonutility Power Producers Report."

GEIMPZZ — Electricity produced from geothermal energy and imported into the United States by State.

- 1960 through 1989: No data available. Values assumed to be zero.
- 1990 forward: EIA estimates based on data from U.S. Department of Energy, Fossil Energy, Form FE-781R, "Annual Report of International Electricity Export/Import Data."

Hydroelectric Power

HPEOPZZ — Electricity produced from pumped storage hydropower at electric utilites by State.

- 1960 through 1989: Included in conventional hydroelectric power.
- 1990 forward: EIA, Form EIA-759, "Monthly Power Plant Report."

HVEOPZZ — Electricity produced from conventional hydropower at electric utilities (includes pumped storage hydroelectric power through 1989) 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 forward: EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms. Published data rounded to gigawatthours in the following reports:
  - — 1981 through 1985: EIA, *Electric Power Annual 1985*, Table 6.
  - — 1986 and 1987: EIA, *Electric Power Annual 1987*, Table 18.
  - — 1988 and 1989: EIA, *Electric Power Annual 1989*, Table 14.
- 1990 forward: EIA, Form EIA-759, "Monthly Power Plant Report."

HYEXPZZ — Electricity produced from hydroelectric power and exported from the United States by State.

- 1960 through 1989: Assumed to be equal to total electricity exports (ELEXPZZ).
- 1990 forward: EIA estimates based on data from Natural Resources Canada, *Electric Power in Canada 1994*, and National Energy Board of Canada, *Electricity Exports and Imports* (Ottawa, Canada, 1994).

HYICBZZ — Electricity produced from hydropower at industrial facilities by State.

- 1960 through 1989: Calculated by EIA by multiplying the average factor for fossil fuels burned at steam-electric power plants (FFEOKUS) times the data in SEDS series HYICPZZ.
- 1990 forward: EIA estimates from data collected on Form EIA-867, "Annual Nonutility Power Producers Report."

HYICPZZ — Electricity produced from hydropower at industrial facilities by State (available for 1960 through 1989 only).

- 1960 through 1978: Federal Power Commission, Form 4, "Monthly Power Plant Report."
- 1979 and 1980: EIA estimates based on previous years' data.
- 1981 through 1989: No data available. The 1980 data are repeated for each year.

HYIMPZZ — Electricity produced from hydroelectric power and imported into the United States by State.

- 1960 through 1989: Assumed to be equal to total electricity imports (ELIMPZZ).
- 1990 forward: EIA estimates based on data from Natural Resources Canada, *Electric Power in Canada 1994*, and National Energy Board of Canada, *Electricity Exports and Imports* (Ottawa, Canada, 1994).

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 by 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.

JKTTPZZ — Kerosene-type jet fuel total sold 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 forward: EIA, *Petroleum Marketing Annual.*
  - — 1984 through 1993: Table 48.

— 1994: EIA, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumpton." Data published in thousand gallons per day in EIA, *Petroleum Marketing Annual 1994*, Table 49. Withheld data were estimated by using averages of published months to fill in withheld months; subtracting published States from published PAD District 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 are available. The 1977 data are used for each year.
- 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 and 1990: 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.
- 1991 forward: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. State data for the calendar year from two databases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-Plane Database (military purchases from commercial airports). Into-plane values reported for the District of Columbia are added to Virginia.

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 sold 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, Note 3, on page 364.)
- 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: July 1985 issue, Table A14.
  - — 1984: July 1986 issue, Table A4.
  - — 1985 and 1986: July 1987 issue, Table A6.
  - — 1987: June 1988 issue, Table A6.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 6.

KSIHPZZ — Kerosene sold 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, Note 3, on page 364.)

- 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: July 1985 issue, Table A14.
  - — 1984: July 1986 issue, Table A4.
  - — 1985 and 1986: July 1987 issue, Table A6.
  - — 1987: June 1988 issue, Table A6.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 6.

KSOTPZZ — Kerosene sold 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: July 1985 issue, Table A14.
  - — 1984: July 1986 issue, Table A4.
  - — 1985 and 1986: July 1987 issue, Table A6.
  - — 1987: June 1988 issue, Table A6.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 6.

KSRSPZZ — Kerosene sold 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, Note 3, on page 364.)
- 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: July 1985 issue, Table A14.
  - — 1984: July 1986 issue, Table A4.
  - — 1985 and 1986: July 1987 issue, Table A6.
  - — 1987: June 1988 issue, Table A6.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 6.

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, Note 1, on page 366.

- 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.

Note: For 1984 forward, some data are adjusted and estimated by EIA. (See explanation in Appendix A, Note 7, on page 368.)

- 1984 through 1988: American Petroleum Institute, *1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, pages 24 through 33.
- 1989 through 1991: American Petroleum Institute, *1992 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, pages 4, 5, 18, and 19.
- 1992: American Petroleum Institute, *1993 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, Table 3.
- 1993 and 1994: American Petroleum Institute, *1994 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, Table 3.

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, Note 1, on page 366.

- 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.

Note: For 1984 forward, some data are adjusted and estimated by EIA. (See explanation in Appendix A, Note 7, on page 368.)

- 1984 through 1988: American Petroleum Institute, *1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, pages 24 through 33.
- 1989 through 1991: American Petroleum Institute, *1992 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, pages 4, 5, 18, and 19.
- 1992: American Petroleum Institute, *1993 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, Table 3.
- 1993 and 1994: American Petroleum Institute, *1994 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, Table 3.

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, Note 2, on page 366.

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, Note 1, on page 366.

- 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.

Note: For 1984 forward, some data are adjusted and estimated by EIA. (See explanation in Appendix A, Note 7, on page 368.)

- 1984 through 1988: American Petroleum Institute, *1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, pages 24 through 33.
- 1989 through 1991: American Petroleum Institute, *1992 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, pages 4, 5, 18, and 19.
- 1992: American Petroleum Institute, *1993 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, Table 3.
- 1993 and 1994: American Petroleum Institute, *1994 Sales of Natural Gas Liquids and Liquefied Refinery Gases*, Table 3.

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, Notes 1 and 2, on page 369.)

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, Notes 1 and 2, on page 369.)

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 through 1993: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Table MF-25.
- 1994: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Table MF-21.

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 were 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

NGCCPZZ — Natural gas delivered to the commercial sector and to other consumers (municipalities and public authorities for institutional heating and street lighting), including natural gas consumed as vehicle fuel through 1989, 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 1994: EIA, *Natural Gas Annual 1994 Volume II*, Table 16.

Data also available via internet:

- 1967 through 1994:
  ftp://ftp.eia.doe.gov/pub/natural.gas/data/annual/ga94-v2.exe and
  ftp://ftp.eia.doe.gov/pub/natural.gas/pdf/nga4v22.pdf
  The FTP files can be reached through http://www.eia.doe.gov (select "FTP Site" from the menu).

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 by the total quantity received 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. Data in Btu per cubic foot for 1994 are published in EIA, *Cost and Quality of Fuels for Electric Utility Plants 1994*, Table 14.

Note: For States that reported consumption on EIA-759 but were not large enough to report on FERC Form 423, factors were estimated by 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 columns, "steam and

gas turbine" and "internal combustion" under column heading "gas."

- 1976 through 1981: EIA, *Electric Power Annual* (1981), Table 67.
- 1982 forward: Unrounded data as published in rounded form in the following reports:
  - — 1982 through 1986: EIA, *Electric Power Annual 1986*, Table 14.
  - — 1987 and 1988: EIA, *Electric Power Annual 1988*, Table 13.
  - — 1989 and 1990: EIA, *Electric Power Annual 1990*, Table 19.
  - — 1991: EIA, *Electric Power Annual 1992*, Table 20.
  - — 1992 and 1993: EIA, *Electric Power Annual 1993*, Table 20.
  - — 1994: EIA, *Electric Power Annual 1994 Volume I*, Table 18.

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 1994: EIA, *Natural Gas Annual 1994 Volume II*, Table 16.

Data also available via internet:

- 1967 through 1994:
  ftp://ftp.eia.doe.gov/pub/natural.gas/data/annual/nga94-v2.exe and
  ftp://ftp.eia.doe.gov/pub/natural.gas/pdf/nga4v22.pdf
  The FTP files can be reached through http://www.eia.doe.gov (select "FTP Site" from the menu).

NGLEPZZ — Natural gas consumed as lease fuel by State (includes natural gas consumed as plant fuel in 1960 through 1992).

- 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 on the basis of each State's share of the U.S. total in 1967.
- 1967 through 1992: EIA, *Natural Gas Annual 1994 Volume II*, Table 14.
- 1993 and 1994: EIA, *Natural Gas Annual 1994 Volume II*, Table 15.

Data also available via internet:

- 1967 through 1994:
  ftp://ftp.eia.doe.gov/pub/natural.gas/data/annual/nga94-v2.exe and
  ftp://ftp.eia.doe.gov/pub/natural.gas/pdf/nga4v22.pdf
  The FTP files can be reached through http://www.eia.doe.gov (select "FTP Site" from the menu).

NGPLPZZ — Natural gas consumed as plant fuel by State.

- 1960 through 1992: Included with natural gas consumed as lease fuel (see NGLEPZZ).
- 1993 and 1994: EIA, *Natural Gas Annual 1994 Volume II*, Table 15.

Data also available via internet:

- 1967 through 1994:
  ftp://ftp.eia.doe.gov/pub/natural.gas/data/annual/nga94-v2.exe and
  ftp://ftp.eia.doe.gov/pub/natural.gas/pdf/nga4v22.pdf
  The FTP files can be reached through http://www.eia.doe.gov (select "FTP Site" from the menu).

NGPZPZZ — Natural gas consumed as 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 1992: EIA, *Natural Gas Annual 1994 Volume II*, Table 14.
- 1993 and 1994: EIA, *Natural Gas Annual 1994 Volume II*, Table 15.

Data also available via internet:

- 1967 through 1994:
  ftp://ftp.eia.doe.gov/pub/natural.gas/data/annual/nga94-v2.exe and
  ftp://ftp.eia.doe.gov/pub/natural.gas/pdf/nga4v22.pdf

The FTP files can be reached through http://www.eia.doe.gov (select "FTP Site" from the menu).

NGRCPZZ — Natural gas delivered to the residential sector, used as consumption, 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 "Residential."
- 1967 through 1994: EIA, *Natural Gas Annual 1994 Volume II*, Table 16.

Data also available via internet:

- 1967 through 1994: ftp://ftp.eia.doe.gov/pub/natural.gas/data/annual/nga94-v2.exe and ftp://ftp.eia.doe.gov/pub/natural.gas/pdf/nga4v22.pdf The FTP files can be reached through http://www.eia.doe.gov (select "FTP Site" from the menu).

NGVZPZZ — Natural gas delivered for use as vehicle fuel by State.

- 1960 through 1989: Included in natural gas consumed by the commercial sector (See NGCCPZZ).
- 1990 through 1994: EIA, *Natural Gas Annual 1994 Volume II*, Table 16.

Data also available via internet:

- 1967 through 1994: ftp://ftp.eia.doe.gov/pub/natural.gas/data/annual/nga94-v2.exe and ftp://ftp.eia.doe.gov/pub/natural.gas/pdf/nga4v22.pdf The FTP files can be reached through http://www.eia.doe.gov (select "FTP Site" from the menu).

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 foot 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 1994: EIA, *Natural Gas Annual 1994 Volume II*, Table 16.

Data also available via internet:

- 1980 through 1994: ftp://ftp.eia.doe.gov/pub/natural.gas/data/annual/nga94-v2.exe and ftp://ftp.eia.doe.gov/pub/natural.gas/pdf/nga4v22.pdf The FTP files can be reached through http://www.eia.doe.gov (select "FTP Site" from the menu).

Nuclear

NUEOKUS — Factor for converting electricity produced from nuclear power from physical units to Btu.

- 1960 through 1991: 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 FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others;" Form EIA-412, "Annual Report of Public Electric Utilities;" and predecessor forms. The factors for 1982 through 1991 are published in the following:
  - 1982: EIA, *Historical Plant Cost and Annual Production Expenses for Selected Electric Plants*, page 215.
  - 1983 through 1991: EIA, *Electric Plant Cost and Power Production Expenses 1991*, Table 13.
- 1992 forward: Unpublished factors calculated annually by EIA by dividing the total heat content of the steam leaving nuclear generating units to generate electricity by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation data are reported in the Nuclear Regulatory Commission, *Licensed Operating Reactors—Status Summary Report.*

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 forward: EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms. Published data rounded to gigawatthours in the following reports:
  - 1981 through 1985: EIA, *Electric Power Annual 1985*, Table 6.
  - 1986 and 1987: EIA, *Electric Power Annual 1987*, Table 19.
  - 1988 and 1989: EIA, *Electric Power Annual 1989*, Table 14.
  - 1990 forward: EIA, *Electric Power Annual*, Table 13.

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 through 1992: Table 45.
  - 1993 and 1994: Table 47.

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.

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, 1980, and 1990, 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 through 1989: Number 1058, Table 3.
  - — 1990 forward: Press Release Number CB96-10, January 26, 1996.

Data also available via internet:

- 1990 forward:
  ftp://ftp.census.gov/pub/population/estimates/state/stintasr.zip
  The FTP files can be reached through http://www.census.gov (select "FTP Files" from the menu).

TPOPPZZ — Resident population by State. April 1 census for 1960, 1970, 1980, and 1990, 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 through 1989: Number 1058, Table 3.
  - — 1990 forward: Press Release Number CB96-10, January 26, 1996.

Data also available via internet:

- 1990 forward:
  ftp://ftp.census.gov/pub/population/estimates/state/stintasr.zip
  The FTP files can be reached through http://www.census.gov (select "FTP Files" from the menu).

Residual Fuel

RFBKPZZ — Residual fuel sold 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: July 1985 issue, Table A13.
  - — 1984 and 1985: July 1986 issue, Table A3.
  - — 1986 and 1987: June 1988 issue, Table A5.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 5.

RFCMPZZ — Residual fuel sold 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, Note 2, on page 374.)
- 1979 and 1980: EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual*, Table 5.

Notes: Data for 1983 forward were published in thousand gallons. They were converted to thousand barrels by dividing by 42 before being entered into SEDS. Data for Hawaii in 1986 through 1990 reflect unpublished revisions from an EIA internal memorandum from the Office of Oil and Gas to the Office of Energy Markets and End Use, "Revising Historical Petroleum Data," February 26, 1993.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are:
  - — 1983: July 1985 issue, Table A13.
  - — 1984 and 1985: July 1986 issue, Table A3.
  - — 1986 and 1987: June 1988 issue, Table A5.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 5.

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 sold 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, Note 2, on page 374.)
- 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: July 1985 issue, Table A13.
  - — 1984 and 1985: July 1986 issue, Table A3.
  - — 1986 and 1987: June 1988 issue, Table A5.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 5.

RFMIPZZ — Residual fuel sold 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: July 1985 issue, Table A13.
  - — 1984 and 1985: July 1986 issue, Table A3.
  - — 1986 and 1987: June 1988 issue, Table A5.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 5.

RFMSPZZ — Residual fuel sold 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." 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 2, column "Other."
- 1981 and 1982: EIA, *Petroleum Supply Annual*, Table 5, column "All Other."

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. The data series is titled "All Other."

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are:
  - — 1983: July 1985 issue, Table A13.
  - — 1984 and 1985: July 1986 issue, Table A3.
  - — 1986 and 1987: June 1988 issue, Table A5.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 5.

RFOCPZZ — Residual fuel sold 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: July 1985 issue, Table A13.
  - — 1984 and 1985: July 1986 issue, Table A3.
  - — 1986 and 1987: June 1988 issue, Table A5.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 5.

RFRRPZZ — Residual fuel sold 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: July 1985 issue, Table A13.
  - — 1984 and 1985: July 1986 issue, Table A3.
  - — 1986 and 1987: June 1988 issue, Table A5.
- 1988 and 1989: EIA, *Fuel Oil and Kerosene Sales 1989*, Table 5.
- 1990 forward: EIA, *Fuel Oil and Kerosene Sales*, Table 5, included in the "All Other" data (RFMSPZZ in SEDS).

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, under "Asphalt and Road Oil" on page 354.)

- 1983 forward: Road oil is included in asphalt data (see AS-INPZZ).

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."

Solar Thermal and Photovoltaic Energy

SOEOPZZ — Electricity produced from solar thermal energy sources at electric utilities by State.
- 1960 through 1983: No data available. Values are assumed to be zero.
- 1984 forward: EIA, Form EIA-759, "Monthly Power Plant Report."

SOHCBZZ — Electricity produced from solar thermal energy sources in the residential and commercial sectors combined by State.
- 1960 through 1989: No data available. Values are assumed to be zero.
- 1990 forward: EIA estimates are developed by using the same method as used for the U.S. data published in the EIA, *Renewable Energy Annual 1995*, Table 11. Shipments of solar thermal collectors in the United States, in thousand square feet, for 1974 forward that are collected on the EIA Form CE-63A, "Annual Solar Thermal Collector Manufacturers Survey" are accumulated each year based on the assumption that the replacement/retirement period for solar thermal collectors is 20 years. The following factors affected the State estimates:
  - Data for 1974 through 1985 are available for the U.S. total only. U.S. values are allocated to the States by using an allocating series that is the simple average of each State's 1986 and 1987 data.
  - The U.S. data are adjusted to remove Puerto Rico and the Virgin Islands. California data for 1986 forward are reduced by the number of high-temperature solar thermal collectors (used at an electric utility in California) shown in the *Renewable Energy Annual 1995*, Table 13.
- State data for 1986 through 1992 used in the accumulated data series are published in the EIA, *Solar Collector Manufacturing Activity* for each year. The table numbers are:
  - 1986 through 1988: Table 5.
  - 1989: Table 4.
  - 1990 through 1992: Table 13.
- State data for 1993 and 1994 used in the accumulated data series are from the EIA, *Renewable Energy Annual 1995*, Table H3.

SOICBZZ — Electricity produced from solar thermal energy sources in the industrial sector by State.
- 1960 through 1989: No data available. Values are assumed to be zero.
- 1990 forward: EIA estimates based on data collected on Form EIA-867, "Annual Nonutility Power Producers Report."

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 the manufacture of sanitary food containers by State. Beginning with 1992 data, this series became value added by the manufacture of corrugated and solid fiber boards by State.

- 1960 through 1965: U.S. Department of Commerce, *1963 Census of Manufactures*, Volume II, Part 1, SIC 2654. The 1963 State data are used for the years 1960 through 1965.
- 1966 through 1970: U.S. Department of Commerce, *1967 Census of Manufactures*, Volume II, Part 2, SIC 2654. 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 2654. The 1972 State data are used for 1971 through 1975, and the 1977 State data are used for 1976 through 1980.
- 1981 through 1990: U.S. Department of Commerce, *1982 Census of Manufactures* (Final Report), Industry Series, SIC 2654. The 1982 State data are used for 1981 through 1990.
- 1991 forward: U.S. Department of Commerce, *1992 Census of Manufactures* (Final Report), Industry Series, SIC 2653. The 1992 State data are used for 1991 forward.

OCVAVZZ — Value added by the 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.
- 1980 through 1985: 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.
- 1986 forward: U.S. Department of Commerce, *1992 Census of Manufactures* (Final Report), Industry Series, SIC 2869. The 1987 State data are used for 1986 through 1990, and the 1992 State data are used for 1991 forward.

PIVAVZZ — Value added by the 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 through 1985: 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.
- 1986 forward: U.S. Department of Commerce, *1992 Census of Manufactures* (Final Report), Industry Series, SIC 2851. The

1987 State data are used for the years 1986 through 1990, and the 1992 State data are used for 1991 forward.

Wind Energy

WYEOPZZ — Electricity produced from wind 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."

WYICBZZ — Electricity produced from wind in the industrial sector by State.

- 1960 through 1989: No data available. Values are assumed to be zero.
- 1990 forward: EIA estimates based on data collected on Form EIA-867, "Annual Nonutility Power Producers Report."

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

Table D1. Approximate Heat Content of Petroleum and Coal and Heat Rates for Electricity

Year	Petroleum Consumption		Anthracite Consumption			Bituminous Coal and Lignite Consumption [a] (BCTCKUS)	Electricity Generation		
	Liquefied Petroleum Gases (LGTCKUS)	Total Petroleum Products [a] (PATCKUS)	Sectors Other Electric (ACNUKUS)	Electric Utilities (ACEUKUS)	Total [a] (ACTCKUS)		Fossil-Fueled Steam-Electric Plants [b] (FFEOKUS)	Nuclear Steam-Electric Plants (NUEOKUS)	Geothermal Energy Plants (GEEOKUS)
	Million Btu per Barrel		Million Btu per Short Ton				Btu per Kilowatthour		
1960	4.011	5.555	24.721	17.500	23.592	24.765	10,760	11,629	23,200
1961	4.011	5.552	24.870	17.500	23.707	24.693	10,650	11,629	23,200
1962	4.011	5.545	24.666	17.500	23.515	24.668	10,558	11,629	23,200
1963	4.011	5.534	24.110	17.500	23.107	24.639	10,482	11,877	22,182
1964	4.011	5.528	24.164	17.500	23.128	24.652	10,462	11,912	22,182
1965	4.011	5.532	24.316	17.500	23.175	24.575	10,453	11,804	22,182
1966	4.011	5.532	24.193	17.500	22.906	24.431	10,415	11,623	22,182
1967	3.838	5.515	23.506	17.500	22.291	24.287	10,432	11,555	21,770
1968	3.818	5.504	23.293	17.500	22.037	24.229	10,398	11,297	21,606
1969	3.805	5.492	23.200	17.500	22.003	24.011	10,447	11,037	21,606
1970	3.779	5.503	23.476	17.500	22.102	23.461	10,494	10,977	21,606
1971	3.772	5.504	23.572	17.500	22.210	23.138	10,478	10,837	21,655
1972	3.760	5.500	23.403	17.500	21.822	23.050	10,379	10,792	21,668
1973	3.746	5.515	22.674	17.920	21.464	23.073	10,389	10,903	21,674
1974	3.730	5.504	22.330	17.200	20.919	22.694	10,442	11,161	21,674
1975	3.715	5.494	22.272	17.064	20.762	22.522	10,406	11,013	21,611
1976	3.711	5.504	22.618	17.526	21.254	22.509	10,373	11,047	21,611
1977	3.677	5.518	24.101	17.244	22.066	22.266	10,435	10,769	21,611
1978	3.669	5.519	24.388	17.104	22.398	22.014	10,361	10,941	21,611
1979	3.680	5.494	24.272	17.454	22.069	22.100	10,353	10,879	21,545
1980	3.674	5.479	22.719	17.652	21.405	21.950	10,388	10,908	21,639
1981	3.643	5.448	23.749	18.168	22.080	21.710	10,453	11,030	21,639
1982	3.615	5.415	24.578	18.160	22.518	21.670	10,454	11,073	21,629
1983	3.614	5.406	24.536	16.516	21.583	21.576	10,520	10,905	21,290
1984	3.599	5.395	25.128	17.018	22.322	21.570	10,440	10,843	21,303
1985	3.603	5.387	23.031	16.784	20.817	21.368	10,447	10,813	21,263
1986	3.640	5.418	24.399	15.578	21.512	21.462	10,446	10,799	21,263
1987	3.659	5.403	26.293	15.962	22.435	21.514	10,419	10,776	21,263
1988	3.652	5.410	26.021	17.312	22.423	21.324	10,324	10,743	21,096
1989	3.683	5.410	27.196	16.310	22.623	21.268	10,317	10,724	21,096
1990	3.625	5.411	25.199	16.140	21.668	21.330	10,335	10,680	21,096
1991	3.614	5.384	25.268	15.858	21.410	21.146	10,352	10,740	20,997
1992	3.624	5.378	24.617	16.944	21.423	21.142	10,302	10,678	20,914
1993	3.606	5.379	24.096	16.534	21.262	20.983	10,280	10,682	20,914
1994	3.635	5.371	25.037	14.680	20.828	21.011	10,272	10,676	20,914

[a] This factor is not actually applied in SEDS but is displayed here for information.
[b] This factor is the average for electricity generated at U.S. fossil-fueled steam-electric plants. In SEDS, it is applied to convert hydroelectricity; electricity generated for distribution from biofuels, wind, photovoltaic, and solar thermal energy; and imports and exports of electricity produced at hydroelectric and conventional power plants.

Sources: See source listing at the end of this appendix.

Table D2. Approximate Heat Content of Natural Gas Consumed by Electric Utilities, 1960-1976
(Thousand Btu per Cubic Foot)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
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	1.033	1.153
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	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	1.071	1.072
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	1.011	1.013
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	1.063	1.061
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	0.996	0.992
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	1.005	1.008
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	1.073	1.078
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	1.009	1.014
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	1.029	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	1.053	1.059
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	1.029	1.028
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	1.000	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	1.008	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	0.995	0.996	0.996	0.991	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	1.025	1.025	1.026	1.017	1.018
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	1.059	1.061
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	0.943	0.946
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	1.002	1.001
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	0.834	0.767
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	0.984	0.972
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	1.030	1.016
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	0.977	0.974
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	1.149	1.192
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	0.982	0.971
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	1.067	1.068
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	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	1.028	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	1.033	1.029
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	1.025	1.025
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	1.031	1.033
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	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	0.864	0.825
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	1.038	1.042
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	1.037	1.035
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	1.000	1.000
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	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	1.028	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	1.000	0.996
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	-	-	1.029
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	1.019	1.018
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	0.941	0.952
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	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	1.098	1.091
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	0.575	0.683
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	1.016	1.014
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	0.843	0.843
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	1.023	1.023

– =Not applicable.
Sources: See source listing at the end of this appendix.

Table D3. Approximate Heat Content of Natural Gas Consumed by Electric Utilities, 1977-1994
(Thousand Btu per Cubic Foot)

State	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	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	1.030	1.022	1.021	1.016	1.011
Alaska	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	1.006	1.001	1.000	0.999	0.999
Arizona	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	1.034	1.027	1.031	1.027	1.023
Arkansas	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	1.018	1.020	1.025	1.029	1.024
California	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	1.033	1.028	1.033	1.030	1.029
Colorado	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	0.988	0.995	1.000	1.012	1.042
Connecticut	-	-	-	-	-	-	-	1.028	1.031	1.036	1.031	1.031	1.030	1.033	1.033	1.031	1.032	1.017
Delaware	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	1.054	1.052	1.037	1.033	1.037
Dist. of Col.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	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	1.011	1.014	1.011	1.009	1.010
Georgia	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	1.024	1.025	1.024	1.023	1.025
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	1.056	1.048	1.042	1.037	1.087	1.075	1.047	1.045	1.049	1.021	1.017	-	-	-	-	-	-	-
Illinois	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	1.021	1.018	1.016	1.016	1.022
Indiana	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	1.002	1.001	1.001	1.013	1.023
Iowa	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	1.006	1.004	1.004	1.006	1.006
Kansas	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	0.990	0.968	0.970	0.975	0.983
Kentucky	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	1.020	1.020	1.020	1.020	1.021
Louisiana	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	1.045	1.042	1.043	1.043	1.046
Maine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	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	1.042	1.046	1.045	1.041	1.043
Massachusetts	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	1.052	1.041	1.032	1.034	1.037
Michigan	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	0.224	0.389	0.414	0.379	0.403
Minnesota	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	1.003	1.008	1.008	1.008	1.005
Mississippi	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	1.036	1.025	1.029	1.022	1.043
Missouri	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	1.018	1.014	1.008	1.008	1.000
Montana	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	1.218	1.194	1.206	1.165	1.055
Nebraska	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	0.946	0.942	0.959	0.976	0.987
Nevada	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	1.031	1.024	1.025	1.029	1.033
New Hampshire	1.000	1.000	1.000	1.025	1.025	1.025	1.025	1.027	1.027	-	1.027	1.027	1.027	-	-	-	1.016	1.015
New Jersey	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	1.032	1.032	1.034	1.034	1.035
New Mexico	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	1.034	1.016	1.017	1.016	1.022
New York	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	1.033	1.031	1.030	1.031	1.031
North Carolina	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	1.033	1.032	1.036	1.033	1.038
North Dakota	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	1.038	1.004	1.037	1.080	1.095
Ohio	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	1.008	1.007	1.033	1.030	1.029
Oklahoma	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	1.045	1.040	1.037	1.039	1.034
Oregon	1.042	1.047	1.046	0.998	1.047	0.990	0.990	0.990	0.990	0.990	-	-	1.035	1.023	1.011	1.011	1.011	1.011
Pennsylvania	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	1.032	1.034	1.031	1.030	1.031
Rhode Island	-	-	1.046	1.022	1.022	1.020	1.039	1.030	1.034	-	1.031	1.032	1.031	1.033	1.032	1.031	1.051	1.029
South Carolina	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	1.023	1.025	1.022	1.021	1.023
South Dakota	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	1.016	1.006	1.019	1.014	0.972
Tennessee	-	-	-	1.016	1.016	-	1.023	-	-	-	-	1.031	1.032	1.035	1.033	1.031	1.035	1.032
Texas	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	1.035	1.030	1.026	1.026	1.023
Utah	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	1.000	1.067	1.074	1.063	1.044
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	0.988	0.988	0.998	0.996
Virginia	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	1.041	1.044	1.050	1.038	1.037
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	1.033	1.050	1.050	1.050	1.050
West Virginia	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	1.000	1.000	1.000	1.000	1.000
Wisconsin	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	1.007	1.008	1.009	1.012	1.011
Wyoming	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	1.035	1.051	1.039	1.044	1.033
U.S. Average	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	1.027	1.023	1.023	1.023	1.023

- =Not applicable.
Sources: See source listing at the end of this appendix.

Table D4. Approximate Heat Content of Natural Gas Consumed by Sectors Other Than Electric Utilities, 1960-1976
(Thousand Btu per Cubic Foot)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
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	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	1.005	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	1.050	1.049
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	0.995	0.996
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	1.056	1.051
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	0.896	0.901
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	1.005	1.008
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	1.015	1.018
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	1.012	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	1.078	1.062
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	1.027	1.027
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	1.055	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	1.025	1.023	1.023	1.026	1.025
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	0.990	0.990
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	1.008	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	0.999	0.985	0.982	0.982	0.981
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	1.008	1.011
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	1.032	1.033
Maine	-	-	-	-	-	-	1.025	1.025	1.029	1.029	1.012	1.012	1.012	1.011	1.011	1.024	1.024
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	1.013	1.014
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	1.004	1.006
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	1.024	1.023
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	1.002	0.999
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	1.022	1.024
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	1.008	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	1.030	1.028	1.020	1.019	1.012
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	0.997	0.997
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	1.067	1.065
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	1.010	1.010
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	1.031	1.034
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	1.076	1.066
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	1.015	1.014
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	1.018	1.018
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	1.001	1.000
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	1.024	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	1.019	1.010	1.025	0.996	0.992
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	1.039	1.036
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	1.025	1.025
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	1.014	1.012
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	1.023	1.023
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	1.000	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	1.031	1.029
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	1.030	1.029
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	0.950	0.948
Vermont	-	-	-	-	-	-	1.009	1.009	1.006	1.033	1.006	1.006	1.007	1.007	1.011	1.009	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	1.025	1.024	1.022	1.019	1.019
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	1.042	1.041
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	1.038	1.044
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	1.020	1.017
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	0.935	0.951
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	1.022	1.021

– =Not applicable.
Sources: See source listing at the end of this appendix.

Table D5. Approximate Heat Content of Natural Gas Consumed by Sectors Other Than Electric Utilities, 1977-1994
(Thousand Btu per Cubic Foot)

State	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	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	1.029	1.027	1.028	1.030	1.030
Alaska	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	0.948	1.002	1.002	0.994	1.001
Arizona	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	1.032	1.025	1.031	1.028	1.028
Arkansas	1.020	0.999	1.016	0.994	0.995	0.997	1.021	1.019	1.017	1.013	1.013	1.007	1.004	1.008	1.017	1.007	1.012	1.022
California	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	1.032	1.027	1.027	1.038	1.021
Colorado	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	1.005	1.030	1.023	1.011	1.004
Connecticut	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	1.033	1.031	1.028	1.027	1.031
Delaware	1.024	1.028	1.028	1.033	1.035	1.033	1.015	1.017	1.022	1.016	1.009	1.018	1.014	1.015	1.025	1.034	1.036	1.035
Dist. of Col.	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	1.008	1.006	1.007	1.007	1.011
Florida	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	1.087	1.098	1.100	1.098	1.124
Georgia	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	1.027	1.027	1.025	1.027	1.030
Hawaii	-	-	-	0.963	0.959	0.989	1.023	1.026	1.082	1.086	1.068	1.078	1.080	1.070	1.080	1.073	1.062	1.051
Idaho	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	1.028	1.033	1.030	1.038	1.038
Illinois	1.028	1.018	1.025	1.022	1.020	1.022	1.041	1.040	1.040	1.021	1.015	1.018	1.022	1.022	1.019	1.018	1.021	1.021
Indiana	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	1.018	1.014	1.011	1.013	1.013
Iowa	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	1.007	1.008	1.004	1.003	1.008
Kansas	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	1.000	1.011	0.988	0.988	0.999
Kentucky	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	1.040	1.047	1.058	1.048	1.062
Louisiana	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	1.041	1.048	1.044	1.036	1.039
Maine	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	1.005	1.006	1.013	1.014	1.014
Maryland	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	1.026	1.025	1.027	1.027	1.030
Massachusetts	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	1.034	1.039	1.038	1.038	1.025
Michigan	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	1.045	1.039	1.037	1.035	1.033
Minnesota	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	1.004	1.012	1.011	1.011	1.011
Mississippi	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	1.032	1.030	1.052	1.023	1.031
Missouri	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	1.011	1.009	1.002	1.004	1.006
Montana	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	1.026	1.028	1.022	1.017	1.024
Nebraska	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	0.984	0.985	0.979	0.975	0.985
Nevada	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	1.031	1.036	1.034	1.036	1.036
New Hampshire	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	1.014	1.007	1.048	1.010	1.013
New Jersey	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	1.025	1.025	1.025	1.036	1.039
New Mexico	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	1.056	1.042	1.043	1.042	1.000
New York	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	1.029	1.027	1.029	1.029	1.027
North Carolina	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	1.032	1.032	1.034	1.035	1.036
North Dakota	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	1.032	1.046	1.045	1.060	1.058
Ohio	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	1.040	1.044	1.036	1.038	1.037
Oklahoma	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	1.020	1.013	1.022	1.021	1.026
Oregon	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	1.023	1.031	1.038	1.041	1.046
Pennsylvania	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	1.037	1.035	1.036	1.037	1.036
Rhode Island	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	1.027	1.028	1.018	1.029	1.029
South Carolina	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	1.028	1.027	1.027	1.029	1.031
South Dakota	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	1.016	1.018	1.015	1.013	1.010
Tennessee	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	1.035	1.033	1.031	1.035	1.032
Texas	1.028	1.025	1.030	1.031	1.033	1.031	1.032	1.040	1.039	1.043	1.042	1.040	1.040	1.042	1.040	1.050	1.029	1.043
Utah	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	1.089	1.073	1.078	1.081	1.069
Vermont	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	0.986	0.988	0.996	0.998	0.996
Virginia	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	1.042	1.042	1.038	1.045	1.038
Washington	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	1.030	1.031	1.032	1.037	1.041
West Virginia	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	1.071	1.073	1.065	1.064	1.064
Wisconsin	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	1.006	1.007	1.009	1.011	1.012
Wyoming	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	1.099	1.060	1.058	1.056	1.056
U.S. Average	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	1.031	1.031	1.032	1.029	1.030

– =Not applicable.
Sources: See source listing at the end of this appendix.

Table D6. Approximate Heat Content of Natural Gas Total Consumption, 1960-1976
(Thousand Btu per Cubic Foot)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
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	1.029	1.030
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	1.005	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	1.052	1.052
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	0.997	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	1.054	1.053	1.056	1.057	1.053
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	0.913	0.914
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	1.005	1.008
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	1.020	1.025
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	1.012	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	1.043	1.041
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	1.027	1.027
Hawaii	1.035	1.035	1.035	-	-	-	-	-	-	-	0.962	0.962	0.962	0.935	0.921	0.947	0.911
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	1.055	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	1.025	1.023	1.023	1.026	1.025
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	0.990	0.990
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	1.008	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	0.998	0.988	0.986	0.984	0.981
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	1.008	1.011
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	1.037	1.038
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	1.024	1.024
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	1.013	1.014
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	1.004	1.006
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	1.012	1.008
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	1.001	0.998
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	1.023	1.023
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	1.006	1.003
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	1.021	1.014
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	0.994	0.994
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	1.067	1.066
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	1.010	1.010
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	1.031	1.034
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	1.064	1.057
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	1.015	1.014
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	1.018	1.018
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	1.001	1.000
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	1.023	1.025
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	1.015	1.014
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	1.039	1.036
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	1.025	1.025
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	1.014	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	1.024	1.023
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	1.000	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	1.031	1.029
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	1.026	1.025
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	0.950	0.948
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	1.008	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	1.019	1.019
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	1.042	1.041
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	1.037	1.043
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	1.020	1.017
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	0.934	0.950
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	1.022	1.022

– =Not applicable.
Sources: See source listing at the end of this appendix.

Table D7. Approximate Heat Content of Natural Gas Total Consumption, 1977-1994
(Thousand Btu per Cubic Foot)

State	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	1.031	1.033	1.028	1.034	1.036	1.052	1.038	1.033	1.038	1.036	1.033	1.029	1.030	1.029	1.027	1.028	1.030	1.030
Alaska	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	0.954	1.002	1.002	0.994	1.001
Arizona	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	1.032	1.025	1.031	1.028	1.027
Arkansas	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	1.009	1.017	1.009	1.014	1.022
California	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	1.032	1.027	1.029	1.036	1.023
Colorado	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	1.005	1.029	1.023	1.011	1.005
Connecticut	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	1.033	1.031	1.028	1.027	1.030
Delaware	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	1.026	1.034	1.035	1.035	1.036
Dist. of Col.	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	1.008	1.006	1.007	1.007	1.011
Florida	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	1.043	1.049	1.049	1.052	1.068
Georgia	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	1.027	1.027	1.025	1.027	1.030
Hawaii	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	1.070	1.080	1.073	1.062	1.051
Idaho	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	1.028	1.033	1.030	1.038	1.038
Illinois	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	1.022	1.019	1.018	1.021	1.021
Indiana	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	1.018	1.014	1.011	1.013	1.013
Iowa	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	1.007	1.008	1.004	1.003	1.008
Kansas	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	0.999	1.007	0.987	0.987	0.998
Kentucky	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	1.040	1.047	1.058	1.048	1.062
Louisiana	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	1.042	1.047	1.044	1.037	1.040
Maine	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	1.005	1.006	1.013	1.014	1.014
Maryland	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	1.028	1.027	1.028	1.028	1.031
Massachusetts	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	1.038	1.039	1.037	1.038	1.026
Michigan	1.006	1.006	1.005	1.011	1.017	1.022	1.024	1.017	1.015	1.027	1.021	1.022	1.029	1.022	1.020	1.020	1.021	1.021
Minnesota	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	1.004	1.012	1.011	1.011	1.011
Mississippi	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	1.033	1.029	1.047	1.023	1.035
Missouri	1.002	1.004	0.980	1.014	1.015	1.018	1.027	1.017	1.017	1.011	1.011	1.006	1.008	1.011	1.009	1.002	1.004	1.006
Montana	1.009	1.001	0.990	1.012	1.011	1.011	1.008	1.005	1.001	1.000	1.020	1.025	1.020	1.028	1.029	1.023	1.018	1.024
Nebraska	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	0.983	0.984	0.979	0.975	0.985
Nevada	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	1.031	1.032	1.031	1.034	1.035
New Hampshire	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	1.014	1.007	1.009	1.010	1.013
New Jersey	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	1.026	1.026	1.026	1.036	1.039
New Mexico	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	1.054	1.039	1.040	1.039	1.003
New York	1.011	1.012	1.016	1.025	1.020	1.023	1.027	1.027	1.029	1.029	1.030	1.029	1.029	1.030	1.028	1.029	1.029	1.028
North Carolina	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	1.032	1.032	1.034	1.035	1.036
North Dakota	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	1.032	1.046	1.045	1.060	1.058
Ohio	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	1.040	1.044	1.036	1.038	1.037
Oklahoma	1.027	1.024	1.024	1.023	1.035	1.023	1.042	1.025	1.028	1.030	1.036	1.038	1.028	1.027	1.021	1.026	1.026	1.028
Oregon	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	1.023	1.029	1.035	1.037	1.040
Pennsylvania	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	1.037	1.035	1.036	1.037	1.036
Rhode Island	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	1.028	1.028	1.018	1.029	1.029
South Carolina	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	1.028	1.027	1.027	1.029	1.031
South Dakota	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	1.016	1.018	1.015	1.013	1.010
Tennessee	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	1.035	1.033	1.031	1.035	1.032
Texas	1.027	1.028	1.033	1.033	1.032	1.032	1.029	1.036	1.038	1.040	1.040	1.038	1.038	1.040	1.037	1.043	1.028	1.037
Utah	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	1.088	1.073	1.078	1.080	1.067
Vermont	1.008	1.011	1.010	0.990	0.993	0.993	0.992	0.992	0.992	0.987	0.987	0.990	0.986	0.987	0.988	0.995	0.998	0.996
Virginia	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	1.042	1.042	1.039	1.044	1.038
Washington	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	1.030	1.031	1.033	1.037	1.041
West Virginia	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	1.071	1.073	1.065	R1.065	1.064
Wisconsin	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	1.006	1.007	1.009	1.011	1.012
Wyoming	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	1.099	1.060	1.058	1.056	1.056
U.S. Average	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	1.030	1.030	1.030	1.028	1.028

R=Revised data.

Sources: See source listing at the end of this appendix.

Table D8. Approximate Heat Content of Bituminous Coal and Lignite Consumed by the Residential and Commercial Sector, 1960-1976
(Million Btu per Short Ton)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
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	23.520	23.618
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	17.683	17.734
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	22.785	-
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	21.373	-
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	20.826	21.418
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	23.241	23.714
Florida	24.336	24.316	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	23.493	-
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	23.494	23.849
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	22.663	21.311
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	22.523	22.456
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	22.132	22.479
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	18.277	18.944
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	19.746	-
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	23.209	23.737
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.474	-
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	23.260	23.714
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	23.334	23.760
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	23.241	23.714
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	23.474	23.577
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	19.257	23.255
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	21.950	-
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	21.404	21.611
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	20.389	20.037
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	18.406	18.410
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	23.521	22.478
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	21.821	-
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	23.386	23.836
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	23.493	23.865
North Dakota	15.550	15.537	15.533	15.520	15.508	15.469	15.409	15.345	15.337	15.226	14.940	14.821	14.779	14.796	14.560	13.757	13.487
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	22.325	22.925
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	20.673	20.965
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	23.385	23.411	23.039	22.383	21.539
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	23.495	23.808
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	23.493	23.865
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	16.860	19.541
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	23.485	23.855
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	13.104	-
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	23.740	22.410
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	24.282	-
Virginia	24.786	24.765	24.758	24.738	24.718	24.656	24.561	24.459	24.446	24.270	23.814	23.624	23.556	23.583	23.208	23.473	23.851
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	19.968	19.349
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	23.709	24.025
Wisconsin	21.916	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	18.972	23.536
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	18.572	18.614
U.S. Average	24.054	24.034	24.027	24.007	23.988	23.928	23.863	23.737	23.724	23.553	23.111	22.927	22.861	22.887	22.523	22.258	22.819

- =Not applicable.
Sources: See source listing at the end of this appendix.

Table D9. Approximate Heat Content of Bituminous Coal and Lignite Consumed by the Residential and Commercial Sector, 1977-1994
(Million Btu per Short Ton)

State	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	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	24.629	24.643	24.203	24.251	24.436
Alaska	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	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	18.698	18.612	21.701	21.389	-
Arkansas	23.258	24.556	-	23.900	26.519	22.890	22.948	22.811	22.990	-	21.490	21.920	24.250	24.834	25.968	24.968	23.898	26.558
California	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	23.184	23.140	23.078	23.201	23.236
Colorado	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	21.435	21.575	20.916	21.812	22.145
Connecticut	-	22.406	24.094	24.454	24.291	25.138	25.928	-	24.664	24.955	24.959	25.044	24.804	24.954	25.026	25.043	25.188	25.236
Delaware	-	-	-	24.415	24.286	24.416	24.594	-	24.660	24.724	24.773	24.987	24.697	24.850	25.026	25.184	23.831	23.808
Dist. of Col.	-	-	24.146	24.541	24.304	24.494	24.785	24.814	24.888	24.962	25.063	25.103	24.817	24.961	25.040	24.940	24.992	24.957
Florida	-	-	24.068	24.283	24.328	22.985	24.684	24.750	24.882	24.962	25.036	25.044	24.884	24.832	-	23.205	24.980	24.946
Georgia	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	25.142	25.187	25.196	25.013	25.347
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	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	22.478	22.573	22.430	22.432	22.456
Illinois	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	22.439	22.560	22.811	22.611	22.446
Indiana	22.899	22.295	22.384	21.878	21.953	22.064	22.052	22.081	22.257	22.394	22.712	22.588	22.300	22.448	22.431	22.440	22.587	22.620
Iowa	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	23.947	24.086	23.698	23.405	23.489
Kansas	-	21.092	20.909	21.182	21.183	22.421	21.328	21.438	21.146	21.376	21.490	21.920	23.701	24.280	24.172	24.410	22.719	24.513
Kentucky	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	24.448	24.712	24.799	24.880	24.862
Louisiana	-	-	-	21.365	-	21.428	-	22.778	-	-	-	-	24.884	-	-	-	-	-
Maine	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	24.832	24.980	25.084	24.983	-
Maryland	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	25.056	25.157	25.253	25.320	25.289
Massachusetts	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	24.957	24.994	24.953	24.964	24.949
Michigan	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	24.812	24.885	24.916	24.730	24.476
Minnesota	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	17.892	17.726	17.735	18.349	19.597
Mississippi	-	23.315	24.094	22.993	-	-	23.879	24.750	24.541	24.962	24.407	23.619	23.288	24.852	-	-	-	-
Missouri	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	21.936	21.949	22.017	22.436	22.866
Montana	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	18.781	18.015	18.178	18.888	18.055
Nebraska	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	21.374	21.544	20.436	21.706	21.888
Nevada	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	23.184	23.148	23.096	23.200	23.236
New Hampshire	-	-	-	24.458	-	24.493	24.750	24.588	-	24.962	-	24.732	24.934	24.862	25.026	25.184	-	-
New Jersey	-	-	-	24.321	24.286	24.884	24.594	24.745	24.871	24.724	24.750	-	24.664	24.862	25.026	25.184	25.188	-
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	18.698	18.639	19.688	19.185	19.322
New York	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	24.531	24.787	24.845	24.977	25.056
North Carolina	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	25.187	25.268	25.039	25.017	24.996
North Dakota	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	13.910	13.898	14.549	14.765	14.920
Ohio	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	24.142	24.171	24.361	24.325	24.319
Oklahoma	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	24.834	25.968	24.968	23.898	26.558
Oregon	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	23.184	23.148	23.096	23.200	23.236
Pennsylvania	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	24.877	25.020	25.166	25.178	25.115
Rhode Island	-	-	-	24.415	-	-	24.594	24.588	24.660	24.724	-	-	-	21.388	-	-	24.808	-
South Carolina	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	24.855	25.138	24.986	24.983	24.939
South Dakota	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	18.375	17.287	17.262	17.294	20.512
Tennessee	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	24.722	25.103	24.277	25.121	25.164
Texas	13.202	-	-	15.200	19.316	17.793	23.105	-	22.511	24.960	23.528	23.446	23.695	25.896	25.723	21.625	18.085	26.558
Utah	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	23.150	23.148	23.096	23.200	23.236
Vermont	-	-	-	-	24.328	25.165	24.594	24.743	24.882	24.995	24.750	-	24.664	24.862	25.026	-	25.188	24.832
Virginia	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	25.087	25.124	25.142	24.997	24.984
Washington	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	21.737	22.330	22.180	22.502	22.429
West Virginia	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	25.017	25.013	24.986	24.909	24.954
Wisconsin	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	24.906	25.063	25.063	24.968	24.944
Wyoming	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	19.935	23.148	18.916	18.551	18.457
U.S. Average	22.594	22.078	21.884	22.488	22.010	22.226	22.438	22.406	22.568	22.669	22.800	22.135	22.917	22.678	22.635	22.768	22.749	22.683

– =Not applicable.
Sources: See source listing at the end of this appendix.

Table D10. Approximate Heat Content of Bituminous Coal and Lignite Consumed by Other Industrial Users, 1960-1976
(Million Btu per Short Ton)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
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	22.997	23.447
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	17.684	17.734
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	19.778	20.069
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	21.336	21.422
California	26.052	26.015	26.004	25.968	25.932	25.823	25.653	25.472	25.448	25.133	24.325	23.986	23.865	23.914	23.739	22.985	22.103
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	21.392	20.816
Connecticut	25.780	25.744	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	23.627	23.865
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	23.493	23.865
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	23.786	24.162
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	23.541	23.618
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	23.508	23.779
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	19.935	19.029
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	21.828	21.872	21.712	21.684	21.833
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	21.824	21.885
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	21.291	20.985
Kansas	22.671	22.639	22.629	22.597	22.566	22.471	22.324	22.166	22.145	21.871	21.168	20.873	20.768	20.810	20.658	20.480	21.062
Kentucky	24.737	24.702	24.691	24.656	24.622	24.519	24.358	24.186	24.163	23.864	23.097	22.775	22.660	22.707	22.540	22.946	23.223
Louisiana	24.036	24.002	23.991	23.958	23.925	23.824	23.668	23.501	23.479	23.188	22.442	22.130	22.018	22.063	21.902	21.034	-
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	24.106	24.472
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	23.663	24.026
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	23.831	23.922
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	22.897	23.397
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	18.917	18.666
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	23.213	23.655
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	21.429	21.791
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	20.879	19.469
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	19.285	19.243
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	23.457	22.170
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	23.627	-
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	23.909	24.321
New Mexico	23.038	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	20.849	19.874
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	23.714	24.076
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	23.490	23.863
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	13.039	13.137
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	22.679	23.093
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	23.439	21.249
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	20.348	19.037
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	23.551	23.910
Rhode Island	25.890	25.853	25.842	25.806	25.770	25.662	25.493	25.314	25.289	24.977	24.173	23.837	23.717	23.765	23.591	23.628	24.026
South Carolina	25.448	25.412	25.400	25.365	25.330	25.224	25.058	24.881	24.858	24.551	23.761	23.430	23.312	23.359	23.188	23.493	23.864
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	18.765	18.397
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	23.144	23.607
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	18.822	15.360
Utah	26.198	26.161	26.150	26.113	26.077	25.967	25.797	25.615	25.591	25.274	24.461	24.121	23.999	24.048	23.872	23.644	22.292
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	24.299	24.348	24.170	24.056	24.472
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	23.477	23.868
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	23.546	21.426
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	23.525	23.973
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	21.957	22.523
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	18.356	18.410
U.S. Average	24.604	24.569	24.558	24.524	24.490	24.387	24.227	24.056	24.034	23.737	22.937	23.653	22.539	22.585	22.420	22.439	22.528

- -=Not applicable.
Sources: See source listing at the end of this appendix.

Table D11. Approximate Heat Content of Bituminous Coal and Lignite Consumed by Other Industrial Users, 1977-1994
(Million Btu per Short Ton)

State	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	23.466	23.817	24.032	24.119	24.219	24.200	24.142	24.284	24.387	24.618	24.795	24.641	24.393	24.679	24.581	24.643	24.536	24.656
Alaska	17.717	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.800	15.800
Arizona	20.528	20.366	20.233	20.373	20.358	20.322	20.172	20.307	20.257	20.214	19.876	20.718	20.704	20.070	19.942	20.317	19.993	20.156
Arkansas	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	22.808	24.188	24.001	23.450	24.827
California	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	22.522	22.731	22.970	23.200	23.229
Colorado	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	21.105	21.081	20.107	20.921	21.494
Connecticut	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	-	24.843	24.936	24.804	25.276
Delaware	23.784	24.129	24.410	24.482	24.291	24.428	24.599	24.616	24.728	24.808	24.820	24.768	24.719	24.938	25.073	25.263	25.301	25.259
Dist. of Col.	23.962	24.276	24.377	24.357	24.328	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	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	25.004	25.131	25.002	24.887	24.927
Georgia	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	25.148	25.140	25.147	25.103	25.073
Hawaii	-	-	-	-	-	24.688	24.688	24.688	24.688	24.688	24.970	24.830	24.830	24.810	24.850	24.830	24.830	21.500
Idaho	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	17.858	17.756	17.528	18.160	17.690
Illinois	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	22.555	21.862	22.753	22.856	22.650
Indiana	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	22.711	22.920	22.951	22.856	22.636
Iowa	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	22.552	22.176	20.554	20.118	20.060
Kansas	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	24.224	24.424	24.488	23.551	23.961
Kentucky	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	24.630	24.900	24.893	24.844	24.756
Louisiana	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	19.979	18.361	18.564	18.323	18.371
Maine	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	24.923	25.010	25.070	24.975	24.961
Maryland	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	25.118	25.146	25.207	25.262	25.402
Massachusetts	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	24.865	24.929	24.897	24.908	24.964
Michigan	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	24.450	24.521	24.400	24.208	24.224
Minnesota	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	18.562	19.361	18.530	18.128	18.488
Mississippi	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	23.254	23.265	23.341	24.019	23.893
Missouri	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	22.988	23.267	23.434	23.578	23.002
Montana	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	18.376	18.478	18.787	18.549	18.333
Nebraska	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	19.036	18.908	18.448	18.730	19.098
Nevada	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	23.184	23.148	23.096	23.200	23.236
New Hampshire	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	24.836	25.261	25.319	24.980	-
New Jersey	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	25.237	25.267	25.334	25.344	25.073
New Mexico	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	21.388	21.544	20.398	21.706	21.926
New York	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	25.107	25.191	25.162	25.183	25.212
North Carolina	23.591	23.628	24.100	24.419	24.346	24.495	24.757	24.750	24.880	24.964	25.033	25.043	24.882	24.938	25.108	25.086	25.145	25.105
North Dakota	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	13.489	13.413	13.327	13.329	13.450
Ohio	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	24.301	24.443	24.421	24.553	24.549
Oklahoma	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	22.802	23.805	22.755	22.427	21.088
Oregon	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	17.352	17.334	17.890	18.419	19.419
Pennsylvania	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	24.905	25.054	25.109	25.118	25.126
Rhode Island	-	23.901	24.094	24.559	24.803	-	24.750	24.750	24.882	25.331	25.036	25.044	24.884	-	-	-	-	-
South Carolina	23.592	23.626	24.100	24.415	24.328	24.493	24.748	24.745	24.874	24.962	25.036	25.039	24.881	25.118	25.226	25.196	25.175	25.075
South Dakota	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	17.338	17.466	17.296	17.294	17.268
Tennessee	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	25.133	25.124	25.253	25.163	25.056
Texas	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	14.788	15.052	14.306	15.180	15.477
Utah	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	23.189	23.124	23.096	23.493	22.921
Vermont	24.254	24.144	24.611	24.888	24.821	24.947	25.296	24.750	24.882	-	25.036	25.044	24.884	24.846	25.747	25.700	25.188	-
Virginia	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	25.069	25.165	25.196	25.103	25.051
Washington	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	22.707	21.745	20.694	20.218	19.275
West Virginia	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	24.888	24.994	24.948	24.940	24.977
Wisconsin	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	24.149	24.306	24.271	23.958	24.161
Wyoming	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	22.178	22.051	21.118	21.281	21.756
U.S. Average	22.290	22.175	22.436	22.690	22.572	22.695	22.680	22.525	22.013	22.185	22.360	22.314	22.324	22.444	22.448	22.242	22.111	22.046

- =Not applicable.
Sources: See source listing at the end of this appendix.

Table D12. Approximate Heat Content of Bituminous Coal and Lignite Consumed by Electric Utilities, 1960-1976
(Million Btu per Short Ton)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
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	23.164	23.136
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	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	21.090	21.102
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	19.808	19.594
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	23.904	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	24.534	24.936
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	25.619	25.619
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	23.093	23.294
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	23.751	23.767
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	20.259	20.493
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	21.229	21.472
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	20.385	20.255
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	19.957	20.385
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	21.481	21.893
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	24.323	24.542
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	24.347	-
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	23.662	23.695
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	17.940	17.808
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	23.164	23.284
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	21.494	21.688
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	15.959	16.676
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	20.954	20.823
Nevada	-	-	-	-	-	25.488	25.570	25.406	25.330	25.434	25.654	23.704	22.494	22.434	22.436	22.388	22.237
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	26.701	26.918
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	25.401	26.119
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	17.849	17.858
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	24.050	24.499
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	23.788	24.081
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	13.344	13.212
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	21.919	22.005
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	25.076	16.548
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	23.769	24.183
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	24.161	24.359
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	12.616	12.695
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	21.983	22.431
Texas	-	-	-	-	-	-	-	-	-	-	-	14.000	14.000	14.000	14.000	13.103	13.232
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	23.650	23.199
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	25.744	25.744
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	23.930	24.529
Washington	-	-	-	-	-	-	-	-	-	-	-	-	16.200	16.213	16.200	16.200	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	23.221	23.496
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	21.236	21.344
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	16.626	17.532
U.S. Average	24.029	23.993	23.988	23.962	23.928	23.863	23.699	23.554	23.531	23.274	22.603	22.325	22.225	22.262	21.799	21.659	21.692

– =Not applicable.
Sources: See source listing at the end of this appendix.

Table D13. Approximate Heat Content of Bituminous Coal and Lignite Consumed by Electric Utilities, 1977-1994
(Million Btu per Short Ton)

State	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	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	24.188	24.214	24.122	24.184	24.176
Alaska	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	15.800	15.800	15.800	15.800	15.800
Arizona	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	20.963	20.712	20.607	20.543	20.561
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	17.480	17.469	17.448	17.329	17.414
California	-	-	-	-	-	-	-	22.780	-	-	-	-	-	-	-	-	-	-
Colorado	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	19.616	19.775	19.840	19.775	19.892
Connecticut	23.904	23.904	23.904	-	-	-	-	26.272	26.317	26.344	26.268	26.277	26.616	26.466	26.477	26.335	26.289	26.188
Delaware	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	26.070	26.106	26.128	26.053	25.907
Dist. of Col.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	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	24.729	24.701	24.740	24.664	24.585
Georgia	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	23.786	23.873	24.078	24.296	23.549
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	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	21.578	21.442	21.333	20.723	20.362
Indiana	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	21.124	21.139	21.257	21.078	21.069
Iowa	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	17.783	17.781	17.733	17.320	17.566
Kansas	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	17.897	17.996	17.799	17.307	17.417
Kentucky	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	23.117	23.103	23.240	23.394	23.366
Louisiana	-	-	-	16.038	16.187	16.714	17.059	17.015	16.907	16.241	16.320	16.385	16.374	16.388	16.446	16.243	16.185	16.273
Maine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	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	25.469	25.591	25.506	25.504	25.648
Massachusetts	-	-	27.004	26.751	26.114	26.310	26.592	26.466	26.561	26.437	26.257	26.218	26.017	26.125	26.283	26.140	25.902	25.629
Michigan	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	22.263	22.103	21.990	21.706	21.851
Minnesota	17.584	17.461	17.643	17.557	17.544	17.614	17.676	17.355	17.451	17.451	17.483	17.477	17.534	17.576	17.605	17.675	17.687	17.642
Mississippi	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	25.086	25.110	25.014	24.675	22.623
Missouri	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	20.800	20.596	20.641	19.719	19.437
Montana	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	17.129	17.044	17.151	16.991	17.000
Nebraska	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	17.122	17.083	17.105	17.123	17.141
Nevada	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	22.245	22.242	22.103	22.024	22.582
New Hampshire	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	26.605	26.494	26.521	26.359	26.064
New Jersey	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	26.859	26.804	26.930	26.795	26.683
New Mexico	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	18.234	18.185	18.025	17.983	18.085
New York	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	25.692	25.846	25.960	25.827	25.918
North Carolina	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	25.088	25.012	24.913	24.930	24.832
North Dakota	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	13.272	13.212	13.115	13.140	13.185
Ohio	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	23.764	23.891	23.965	24.098	24.104
Oklahoma	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	17.788	17.584	17.400	17.242	17.146
Oregon	-	-	20.054	16.393	16.573	16.613	16.613	16.654	16.584	-	16.967	17.057	17.057	16.696	16.859	19.283	17.602	17.874
Pennsylvania	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	24.624	24.604	24.894	24.887	24.917
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	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	25.310	25.449	25.634	25.604	25.542
South Dakota	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	12.192	12.050	12.069	12.114	12.098
Tennessee	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	23.933	24.338	24.363	24.537	24.372
Texas	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	14.581	14.451	14.468	14.568	14.692
Utah	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	22.965	22.939	22.769	22.978	22.982
Vermont	25.709	25.709	25.926	25.926	25.096	25.628	25.628	25.628	25.628	25.628	-	-	-	-	-	-	-	-
Virginia	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	25.427	25.535	25.660	25.633	25.556
Washington	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	16.270	16.028	16.378	16.249	16.801
West Virginia	23.304	23.462	23.900	24.269	24.208	24.451	24.717	24.667	24.827	24.879	24.873	24.946	24.791	24.903	25.011	25.048	24.979	24.937
Wisconsin	21.119	20.901	20.845	20.523	19.760	20.087	19.876	19.908	19.547	19.323	19.260	19.386	19.410	19.284	19.286	19.450	18.980	19.130
Wyoming	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	17.621	17.511	17.680	17.557	17.532
U.S. Average	21.521	21.284	21.372	21.301	21.091	21.200	21.141	21.108	21.965	21.091	21.143	20.905	20.854	20.935	20.761	20.792	20.630	20.681

- =Not applicable.
Sources: See source listing at the end of this appendix.

APPENDIX D

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

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 Bureau of Mines thermal conversion factor of 5.048 million Btu per barrel for "Gasoline, Aviation" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

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 calculated 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 for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

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 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.

• 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 conversion 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 for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985,* a 1968 release of historical and projected statistics.

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 naphthas. See **Special Naphthas.**

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 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." The Bureau of Mines calculated this factor by dividing 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.

Petroleum Products, Total Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed, weighted by the quantity of each petroleum product consumed.

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 and first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970.* See **Asphalt.**

Special Naphthas. 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, equal to that for distillate fuel oil and first published in the *Annual Report to Congress, Volume 3, 1977.* See **Distillate Fuel Oil.**

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel, equal to that for plant condensate and first published in the *Annual Report to Congress, Volume 2, 1981.* See **Plant Condensate.**

Waxes. 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.*

Approximate Heat Content of Natural Gas

Natural Gas, Total Consumption. (NGTCKZZ) • 1960 through 1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic foot 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 1994: EIA, *Natural Gas Annual 1994 Volume II,* Table 16. • Data for 1980 through 1994 are also available via internet. From the EIA homepage, http://eia.doe.gov, select "FTP Site" to reach ftp://ftp.eia.doe.gov/pub/natural.gas/data/annual/ga94-v2.exe and ftp://ftp.eia.doe.gov/pub/natural.gas/pdf/nga4v22.pdf.

Natural Gas, Consumption by Electric Utilities. (NGEUKZZ) • 1960 through 1971: Assumed by EIA to be equal to the thermal conversion factor for the consumption of natural gas. See Natural Gas, Total Consumption. • 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 Federal Energy Regulatory Commission (FERC) Form 423 and predecessor forms. Data in Btu per cubic foot are published in the EIA, *Cost and Quality of Fuels for Electric Utility Plants.* For States that reported consumption on Form EIA-759 but were not large enough to report on FERC Form 423, factors were estimated by using previous years' factors or the factor for total natural gas consumption in the State.

Natural Gas, Consumption by Sectors Other Than Electric Utilities. (NGNUKZZ) • 1960 through 1972: Assumed by EIA to be equal to the thermal conversion factor for the consumption of natural gas. See Natural Gas, Total Consumption. • 1973 forward: Calculated annually by EIA by dividing the heat content of all natural gas consumed less the heat content of natural gas consumed at electric utilities by the quantity of all natural gas consumed less the quantity of electric utility consumption. Data are from FERC Form 423, Forms EIA-176 and EIA-759, and predecessor forms.

Approximate Heat Content of Coal and Coal Coke

Anthracite, Total Consumption. Calculated annually by EIA by dividing the sum of the heat content of anthracite consumed by electric utilities and by all other sectors combined by the total quantity of anthracite consumed.

Anthracite, Consumption by Electric Utilities. (ACEUKUS) • 1960 through 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 FERC Form 423 and predecessor forms.

Anthracite, Consumption by Sectors Other Than Electric Utilities. (ACNUKUS) Calculated annually by EIA by dividing the heat content of anthracite produced 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 anthracite consumed by

all sectors other than electric utilities less the quantity of anthracite stock changes, losses, and "unaccounted for."

Bituminous Coal and Lignite, Total Consumption. 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 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 (FPC) Form 1 and published in *Steam Electric Plant Factors,* an NCA annual report. • 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' (1973-1979) 'Receipts to' (1980) 'Received at' (1981-1982) Steam-Electric Plants 25-MW or Greater." • 1983 forward: The average heat content of coal received at steam electric plants having 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.*

Notes: • The State conversion factors for 1960 through 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 through 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, FPC Form 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 by EIA in *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 through 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 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 through 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 those of bituminous coal and lignite received at electric utilities in each State from identified coal-producing districts as reported on FERC Form 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 Form EIA-6 and predecessor Bureau of Mines Form 6-1419-Q.

Bituminous Coal and Lignite, Consumption by Residential and Commercial Users. (BCHCKZZ) • 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed in the residential and commercial sectors by the ratios of 1960 through 1973 national averages for the sectors to its 1974 average. • 1974 forward: Calculated by EIA by assuming that the bituminous coal and lignite consumed in the residential and commercial sectors in each State contained heating values equal to those of bituminous coal and lignite received at electric utilities in each State from identified coal-producing districts as reported on FERC Form 423. The average Btu content of coal delivered from each coal-producing district was applied to deliveries to the residential and commercial sectors 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. See **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 Content of Renewable Energy Sources

Ethanol, Consumption by the Transportation Sector. Ethanol, which is accounted for under motor gasoline, is shown separately in *SEDR* to display the use of renewable energy in the transportation sector. The data in thousand gallons are converted to billion Btu by using the conversion factor of 76,400 Btu per gallon as reported in the EIA, *Estimates of U.S. Biomass Energy Consumption 1992*, page 42.

Solar Energy, Consumption by the Residential and Commercial Sectors. Photovoltaic and solar thermal energy sources consumed by the residential and commercial sectors are estimated in Btu and converted to kilowatthours by using the standard conversion factor for a kilowatthour of electricity produced, regardless of the generation process, of 3,412 Btu per kilowatthour.

Wood, Consumption by the Residential and Commercial Sectors. Estimated by EIA to be 20 million Btu per cord of wood. This rough average factor takes into account a number of variables, such as moisture content and species of wood, as explained in the EIA, *Household Energy Consumption and Expenditures 1993*, page 314.

Approximate Heat Rates for Electricity

Fossil-Fueled Steam-Electric Plant Generation. (FFEOKUS) There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydroelectric, biomass fuels, wind, photovoltaic, or solar thermal energy sources. Therefore, EIA uses data from Form EIA-767 to calculate a rate factor 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 1991: 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 1991*, Table 9. • 1992 forward: Unpublished factors calculated on the basis of data from Form EIA-767.

Geothermal Energy Plant Generation. (GEEOKUS) • 1960 through 1981: Calculated annually by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on FPC Form 12. • 1982 forward: Estimated annually by EIA based on an informal survey of relevant plants.

Nuclear Steam-Electric Plant Generation. (NUEOKUS) • 1960 through 1991: Calculated annually by EIA by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation data are reported on FERC Form 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 1991: *Electric Plant Cost and Power Production Expenses 1991*, Table 13. • 1992 forward: Unpublished factors calculated annually by EIA by dividing the total heat content of the steam leaving nuclear generating units to generate electricity by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation data are reported in the Nuclear Regulatory Commission, *Licensed Operating Reactors—Status Summary Report*.

Appendix E

Metric and Other Physical Conversion Factors

Appendix E

Metric and Other Physical Conversion Factors

Data presented in the *State Energy Data Report* and in other Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. However, because U.S. commerce involves other nations, most of which use metric units of measure, the U.S. Government is committed to the transition to the metric system, as stated in the Metric Conversion Act of 1975 (Public Law 94–168), amended by the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100–418), and Executive Order 12770 of July 25, 1991.

The metric conversion factors presented in Table E1 can be used to calculate the metric-unit equivalents of values expressed in U.S. customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table E2.

The conversion factors presented in Table E3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Table E1. Metric Conversion Factors

U.S. Unit	*multiplied by*	Conversion Factor	*equals*	Metric Unit
Mass				
short tons (2,000 lb)	x	0.907 184 7	=	metric tons (t)
long tons	x	1.016 047	=	metric tons (t)
pounds (lb)	x	0.453 592 37[a]	=	kilograms (kg)
pounds uranium oxide ($lb\ U_3O_8$)	x	0.384 647[b]	=	kilograms uranium (kgU)
ounces, avoirdupois (avdp oz)	x	28.349 52	=	grams (g)
Length				
miles (mi)	x	1.609 344[a]	=	kilometers (km)
yard (yd)	x	0.914 4[a]	=	meters (m)
feet (ft)	x	0.304 8[a]	=	meters (m)
inches (in)	x	2.54[a]	=	centimeters (cm)
Energy				
British Thermal Units (Btu)	x	1,055.055 852 62[a,c]	=	joules (J)
calories (cal)	x	4.186 8[a]	=	joules (J)
kilowatthours (kWh)	x	3.6[a]	=	megajoules (MJ)
Volume				
barrels of oil (bbl)	x	0.158 987 3	=	cubic meters (cm^3)
cubic yards (yd^3)	x	0.764 555	=	cubic meters (cm^3)
cubic feet (ft^3)	x	0.028 316 85	=	cubic meters (cm^3)
U.S. gallons (gal)	x	3.785 412	=	liters (L)
ounces, fluid (fl oz)	x	29.573 53	=	milliliters (mL)
cubic inches (in^3)	x	16.387 06	=	milliliters (mL)
Area				
acres	x	0.404 69	=	hectares (ha)
square miles (mi^2)	x	2.589 988	=	square kilometers (km^2)
square yards (yd^2)	x	0.836 127 4	=	square meters (m^2)
square feet (ft^2)	x	0.092 903 04[a]	=	square meters (m^2)
square inches (in^2)	x	6.451 6[a]	=	square centimeters (cm^2)
Temperature				
degrees Fahrenheit (°F)	x	5/9 (after subtracting 32)[a,d]	=	degrees Celsius (°C)

[a]Exact conversion.
[b]Calculated by the Energy Information Administration.
[c]The Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956.
Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units shown belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, contact Dr. Barry Taylor at Building 221, Room B160, National Institute of Standards and Technology, Gaithersburg, MD 20899, or on telephone number 301–975–4220.
Sources: General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 27, 1993), pp. 9–11, 13, and 16. National Institute of Standards and Technology, Special Publications 330, 811, and 814. American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268–1992, pp. 28 and 29.
[d]To convert degrees Celsius (°C) to degrees Fahrenheit (°F) exactly, multiply by 9/5, then add 32.

Table E2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10^{1}	deka	da	10^{-1}	deci	d
10^{2}	hecto	h	10^{-2}	centi	c
10^{3}	kilo	k	10^{-3}	milli	m
10^{6}	mega	M	10^{-6}	micro	μ
10^{9}	giga	G	10^{-9}	nano	n
10^{12}	tera	T	10^{-12}	pico	p
10^{15}	peta	P	10^{-15}	femto	f
10^{18}	exa	E	10^{-18}	atto	a
10^{21}	zetta	Z	10^{-21}	zepto	z
10^{24}	yotta	Y	10^{-24}	yocto	y

Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p. 10.

Table E3. Other Physical Conversion Factors

Energy Source	Original Unit		Conversion Factor		Final Unit
Petroleum	barrels (bbl)	x	42[a]	=	U.S. gallons (gal)
Coal	short tons	x	2,000[a]	=	pounds (lb)
	long tons	x	2,240[a]	=	pounds (lb)
	metric tons (t)	x	1,000[a]	=	kilograms (kg)
Wood	cords (cd)	x	1.25[b]	=	short tons
	cords (cd)	x	128[a]	=	cubic feet (ft^3)

[a]Exact conversion.
[b]Calculated by the Energy Information Administration.
Source: U.S. Department of Commerce, National Institute of Standards and Technology, *Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17, and C-21.

Appendix F

Carbon Dioxide Emission Factors for Coal

Appendix F

Carbon Dioxide Emission Factors for Coal

The need for accurate estimates of carbon dioxide emissions produced during the combustion of coal has led the Energy Information Administration (EIA) to develop basic emission factors. Basic emission factors reflect the carbon-to-heat-content ratio of coal, a ratio which measures carbon dioxide emissions per unit of energy (pounds per million Btu), assuming complete combustion. These basic factors are derived from 5,426 sample analyses maintained in EIA's Coal Analysis File. Variations in the carbon-to-heat-content of different coals were observed to follow coal rank and geographic origin, leading EIA to develop basic emission factors specific to the rank and the State of origin of the coal.

On the basis of these rank- and State-specific basic emission factors for coal, EIA has also developed emission factors by sector. These sectoral emission factors weight the coal consumed in a given sector by its rank and State of origin. Tables F1 through F5 present the U.S. average carbon dioxide emission factors for coal by sector. Emission factors differ among sectors and within a given sector over time for a number of reasons:

- A higher average emission factor in the residential and commercial sector can be attributed to the steady consumption of bituminous coal and anthracite (presumably for home heating).
- Virtually all of the coal consumed by coke plants comes from only a few States in the Appalachian Coal Basin (West Virginia, Virginia, and eastern Kentucky). Hence, the emission factors for this sector have remained fairly constant.
- Other industrial users of coal (not coke plants) increased consumption of low-rank, high-emission western coals, which has contributed to a rise in their average emission factor.
- Electric utilities, which account for most U.S. coal consumption, have shifted over time away from high-rank, low-emission bituminous coal to low-rank, high-emission subbituminous coal and lignite as reflected in a gradually rising weighted-average carbon dioxide emission factor.

Table F1. Average Carbon Dioxide Emission Factors for Coal Consumed by the Residential and Commercial Sector, 1980-1994
(Pounds of Carbon Dioxide per Million Btu)

State	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	205.4	205.5	205.7	205.2	205.4	205.4	205.4	205.9	205.9	205.7	206.0	205.6	205.5	205.7	205.7
Alaska	-	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
Arizona	-	209.7	209.7	209.7	209.7	209.7	209.9	212.1	210.8	206.2	208.3	218.3	208.6	212.0	227.4
Arkansas	205.3	211.3	203.4	206.5	202.5	205.4	227.4	201.3	203.8	205.4	205.9	205.9	222.3	209.9	207.2
California	204.5	205.3	204.6	204.4	204.1	204.1	209.7	203.7	204.2	203.6	204.1	204.2	204.1	204.1	204.1
Colorado	212.6	212.3	212.4	211.8	212.0	212.4	212.5	212.5	212.5	212.5	212.4	212.4	211.0	212.0	211.2
Connecticut	226.1	225.7	227.2	227.3	227.4	227.2	226.9	226.9	226.5	226.3	226.7	227.3	220.2	226.9	226.3
Delaware	221.8	227.0	211.3	213.8	227.4	214.2	213.9	207.0	207.1	206.4	206.7	206.0	221.1	203.0	203.4
Dist. of Columbia	205.5	204.9	205.0	205.1	205.3	204.9	205.2	205.1	205.3	205.4	206.4	205.5	206.3	206.4	206.5
Florida	205.0	205.3	203.7	204.9	204.8	204.8	204.8	206.9	214.3	215.2	207.5	227.4	205.7	205.1	205.0
Georgia	204.7	204.8	204.9	205.4	204.8	205.3	205.2	205.0	205.0	205.4	205.1	206.3	204.9	205.1	206.0
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	205.4	205.8	206.0	205.2	205.1	204.8	204.5	205.0	204.7	205.7	204.9	204.7	205.0	204.9	205.0
Illinois	203.9	204.1	203.6	203.7	203.6	203.6	203.6	203.7	203.6	203.7	203.5	203.9	203.9	203.6	203.6
Indiana	203.7	203.9	203.8	203.6	203.6	203.6	203.6	203.7	203.6	203.8	203.7	203.8	203.8	204.1	204.1
Iowa	205.1	202.6	202.8	202.8	202.8	202.9	202.0	205.0	206.9	204.2	204.1	203.7	204.2	204.5	204.6
Kansas	202.2	202.3	202.8	201.3	201.3	201.3	201.3	201.3	201.5	203.6	203.2	203.8	202.9	203.9	203.6
Kentucky	204.6	204.7	204.4	204.2	204.8	204.2	204.4	204.6	204.3	204.0	204.3	204.3	204.6	205.1	205.0
Louisiana	201.3	-	201.4	-	203.5	-	227.4	-	227.4	204.8	-	227.4	-	227.4	-
Maine	216.2	224.1	215.1	215.2	214.2	211.9	210.1	213.0	210.9	213.6	212.0	223.9	213.0	212.2	226.8
Maryland	210.6	216.0	208.2	207.0	207.9	207.3	207.1	206.8	207.8	207.5	207.8	208.1	211.7	212.1	208.6
Massachusetts	218.2	220.9	217.0	217.4	214.2	219.1	219.9	223.7	218.1	217.6	213.8	221.5	214.1	217.0	225.8
Michigan	205.0	205.1	204.8	204.8	204.4	204.6	204.7	204.9	204.8	204.8	204.9	204.9	205.0	204.6	204.3
Minnesota	208.6	211.6	212.2	209.9	211.0	210.8	210.8	211.8	211.6	209.5	212.0	212.2	212.3	211.7	209.4
Mississippi	202.6	227.4	227.4	204.6	204.8	205.2	204.8	204.0	202.8	206.2	208.4	227.4	227.4	227.4	-
Missouri	202.1	201.9	201.7	202.0	202.0	204.4	203.9	201.9	201.8	203.4	202.7	202.8	203.4	204.1	203.5
Montana	205.6	213.1	213.2	209.7	213.3	213.3	213.1	213.1	213.2	209.3	211.7	213.4	213.3	211.3	213.4
Nebraska	212.6	212.6	212.7	212.9	212.6	212.6	212.7	212.7	212.5	212.7	212.7	217.4	219.2	212.7	212.7
Nevada	208.4	207.7	204.3	204.3	211.9	204.1	204.1	204.1	204.1	204.1	212.3	204.1	204.1	204.1	204.1
New Hampshire	227.2	227.4	225.9	225.8	226.9	227.4	227.2	227.4	226.1	226.6	226.4	226.9	225.4	227.4	227.4
New Jersey	227.2	226.1	227.1	227.3	224.8	225.0	226.7	226.9	227.4	226.1	227.2	226.9	227.1	227.3	227.0
New Mexico	209.8	209.7	209.8	209.6	209.7	209.7	209.7	209.7	209.7	208.1	205.7	205.8	206.3	206.5	206.6
New York	218.9	217.3	215.3	215.2	215.1	216.4	213.3	216.1	214.6	215.5	214.0	215.4	218.0	218.8	214.8
North Carolina	204.9	204.8	204.8	204.9	204.8	205.0	204.8	204.9	204.8	204.9	206.7	206.1	206.2	205.9	206.0
North Dakota	218.5	218.6	218.6	218.6	218.7	218.6	218.6	218.7	218.8	218.8	217.6	217.6	216.8	216.5	216.4
Ohio	203.8	203.8	203.6	203.5	203.7	203.9	203.6	203.8	204.3	203.9	204.2	204.4	205.5	204.2	204.5
Oklahoma	205.7	201.9	202.7	201.4	201.5	205.7	202.6	204.8	212.3	203.0	206.2	205.9	207.0	205.9	206.9
Oregon	205.6	208.4	209.2	207.5	205.7	205.1	207.2	204.7	204.7	204.6	204.1	204.1	204.1	214.2	213.6
Pennsylvania	221.2	222.8	219.8	219.8	220.6	219.3	218.9	218.1	218.7	218.8	219.0	218.2	219.7	218.6	220.1
Rhode Island	223.9	227.4	227.4	224.2	226.7	227.1	225.8	227.4	227.4	227.4	227.3	227.4	227.4	227.2	227.4
South Carolina	204.8	204.5	204.8	204.8	204.8	205.2	204.8	204.8	204.8	204.8	204.9	205.1	205.3	207.0	207.0
South Dakota	212.0	212.3	211.7	209.1	205.9	209.9	208.3	211.9	213.2	212.9	211.6	212.8	212.8	212.7	209.9
Tennessee	204.5	204.6	204.1	204.6	204.2	204.2	203.7	204.0	204.4	204.8	205.4	206.3	204.6	205.1	205.0
Texas	213.7	209.8	215.3	216.3	227.4	207.5	205.4	204.3	204.5	206.8	206.8	207.1	211.0	213.3	227.0
Utah	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.2	204.2	204.1	204.1	204.1	204.1	204.1
Vermont	227.4	227.3	227.3	224.3	227.0	210.4	226.1	227.2	227.4	227.1	227.2	227.1	227.4	227.3	227.2
Virginia	205.0	205.1	205.2	205.3	205.4	205.2	205.1	205.2	205.3	205.1	205.9	206.2	206.3	206.0	206.4
Washington	204.3	204.6	204.4	204.4	204.5	204.2	208.5	204.8	205.2	204.8	206.8	207.5	206.9	207.6	209.2
West Virginia	205.0	205.2	205.9	205.6	205.7	206.8	206.1	206.5	205.3	206.3	206.2	207.0	210.2	208.3	207.0
Wisconsin	205.8	203.7	205.1	204.4	205.2	205.6	205.3	203.8	205.3	205.8	211.8	205.0	204.9	204.9	204.9
Wyoming	212.3	211.9	212.5	212.8	212.9	212.7	212.7	212.7	212.7	212.3	212.7	212.7	212.7	212.8	212.8
U.S. Average[a]	210.6	212.0	210.4	209.2	209.5	209.3	209.2	209.4	209.1	209.7	209.5	210.2	211.2	209.9	209.8

[a] Weighted average. The weights used are consumption values by State.
– =Not applicable.

Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

Table F2. Average Carbon Dioxide Emission Factors for Coal Consumed[a] by Coke Plants, 1980-1994
(Pounds of Carbon Dioxide per Million Btu)

State	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	205.5	205.5	205.4	205.4	205.4	205.4	205.5	205.3	205.3	205.4	206.0	206.2	206.1	206.2	206.2
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
California	208.7	207.8	207.4	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	212.6	212.4	212.5	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	205.2	205.4	205.6	205.7	205.4	204.6	205.0	204.6	204.7	204.5	205.8	206.4	206.5	206.4	206.8
Indiana	205.0	205.1	204.9	205.0	204.9	205.1	205.0	204.9	204.9	204.9	205.8	206.0	206.0	206.1	206.3
Iowa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	204.6	204.3	205.9	205.2	205.1	204.9	204.8	204.8	204.8	205.0	206.7	206.8	206.3	206.4	206.7
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	205.9	206.1	205.7	205.5	205.5	205.5	205.5	205.5	205.3	205.1	206.2	205.9	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	205.5	205.4	205.4	205.3	205.4	205.4	205.5	205.8	205.4	205.3	206.4	206.7	207.8	207.6	205.7
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	205.2	205.6	205.7	205.1	205.4	205.4	204.9	206.0	205.3	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New York	205.5	205.4	205.4	205.4	205.5	205.5	205.5	205.4	205.5	205.6	206.2	206.1	206.1	206.8	206.7
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	205.4	205.3	205.3	205.3	205.2	205.3	205.2	205.1	205.1	205.1	206.6	206.4	206.4	206.0	206.4
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	205.7	205.6	205.5	205.6	205.6	205.7	205.6	205.6	205.5	205.4	206.2	206.2	206.1	206.2	206.2
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	210.2	207.1	205.3	205.1	205.3	205.3	205.2	205.1	204.8	204.8	207.6	207.6	206.2	-	204.8
Texas	209.8	212.2	212.3	212.7	212.7	212.7	212.7	-	-	-	-	-	-	-	-
Utah	210.8	210.6	211.3	212.4	211.7	212.5	207.9	208.3	209.7	209.9	208.2	206.0	205.6	205.5	205.8
Vermont	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	205.4	205.4	205.6	205.5	205.3	205.3	205.0	205.1	204.9	205.1	206.7	206.8	206.7	206.8	206.8
Wisconsin	205.3	205.3	205.4	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Average[b]	205.8	205.8	205.7	205.5	205.6	205.6	205.4	205.2	205.3	205.3	206.2	206.2	206.2	206.2	206.3

[a] No allowances have been made for carbon retained in non-energy coal chemical byproducts from the coal carbonization process.
[b] Weighted average. The weights used are consumption values by State.

-=Not applicable.
Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

Table F3. Average Carbon Dioxide Emission Factors for Coal Consumed by Other Industrial Users, 1980-1994
(Pounds of Carbon Dioxide per Million Btu)

State	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	205.5	205.5	205.3	205.2	205.5	205.5	205.5	205.4	205.4	205.4	205.5	205.6	205.7	205.4	205.4
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227.4
Arizona	209.2	210.4	210.3	210.3	210.0	210.1	209.9	210.1	209.4	209.6	207.5	207.0	206.7	206.9	207.2
Arkansas	201.4	201.4	201.4	201.4	201.5	201.6	203.7	203.2	202.4	203.9	205.3	205.1	205.2	206.0	206.3
California	205.6	205.9	206.1	206.4	205.6	204.7	205.0	204.4	204.6	204.7	204.6	204.6	204.2	204.1	204.1
Colorado	212.6	212.7	212.4	212.7	212.7	212.7	212.7	212.1	212.8	212.6	212.0	212.6	212.5	212.7	213.1
Connecticut	225.4	223.2	213.9	207.6	215.9	209.2	208.2	212.8	207.5	224.8	227.4	205.9	204.7	207.1	207.1
Delaware	205.9	205.6	205.6	205.8	205.8	205.9	205.9	205.9	205.8	205.9	206.1	206.0	207.4	208.0	207.7
Dist. of Columbia	205.0	204.8	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	204.2	204.8	204.8	204.9	204.8	205.0	205.0	205.0	205.2	205.2	205.4	205.2	205.1	205.2	205.1
Georgia	204.9	204.9	204.9	204.8	204.9	204.9	204.9	204.9	204.8	204.8	205.1	205.0	204.9	204.9	205.0
Hawaii	-	-	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4
Idaho	212.6	212.4	212.5	212.3	212.1	211.9	211.4	212.0	211.8	212.4	212.1	212.1	212.2	211.1	212.1
Illinois	204.2	204.3	204.1	204.1	204.1	204.0	203.9	203.9	203.7	203.7	203.9	205.1	203.7	203.9	203.9
Indiana	203.7	203.9	203.8	203.7	203.8	203.7	203.7	203.7	203.7	203.8	204.2	204.4	204.5	204.2	204.1
Iowa	205.7	205.7	204.5	204.4	204.1	203.6	203.9	203.9	204.1	204.6	205.0	206.1	208.3	208.2	208.6
Kansas	201.9	201.3	201.7	201.4	201.3	201.8	201.3	201.6	201.4	201.8	203.4	205.2	205.3	203.3	203.2
Kentucky	205.4	204.9	204.9	205.0	204.9	204.7	204.9	205.1	205.4	205.2	205.5	205.6	205.4	205.3	205.1
Louisiana	203.9	203.4	204.2	204.4	204.1	204.4	204.3	205.2	209.9	207.5	208.0	211.3	210.9	211.5	211.3
Maine	206.0	205.7	205.1	205.4	205.1	207.9	206.0	206.5	207.0	205.2	207.0	204.9	204.9	204.9	204.8
Maryland	206.1	205.9	206.0	205.9	205.8	205.8	205.5	205.8	205.6	205.9	207.8	207.8	208.4	208.7	208.2
Massachusetts	206.3	207.6	206.9	206.3	206.6	206.4	206.8	207.0	207.1	207.4	208.0	206.7	207.0	206.7	206.6
Michigan	204.8	204.8	204.7	204.9	205.0	205.0	204.9	204.9	204.8	204.8	204.9	204.9	205.3	205.6	205.6
Minnesota	211.6	210.8	212.9	213.0	211.8	208.9	208.9	209.8	210.8	210.3	211.6	211.1	211.8	212.1	211.7
Mississippi	204.0	203.5	205.0	204.5	204.2	204.0	204.4	204.0	204.0	204.0	203.7	204.2	204.6	205.2	205.2
Missouri	203.6	203.3	203.3	203.2	203.5	203.5	203.6	203.8	203.7	203.3	204.1	204.1	204.5	204.6	204.2
Montana	211.2	210.3	209.7	209.7	210.5	212.6	213.4	213.1	211.8	211.6	211.7	211.6	211.4	212.1	212.8
Nebraska	212.3	212.7	212.8	212.7	213.1	213.1	213.2	213.2	213.1	212.9	213.3	213.3	213.1	213.2	212.9
Nevada	204.5	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	206.7	204.1	204.1	204.1	204.1	204.1
New Hampshire	207.0	217.3	214.2	206.7	206.9	219.5	218.6	218.8	218.6	207.0	216.2	206.8	207.1	204.8	-
New Jersey	218.3	224.6	213.8	212.9	213.4	217.5	210.8	210.0	209.1	207.9	207.9	207.7	207.3	208.0	210.3
New Mexico	212.0	212.7	212.3	212.7	212.7	212.6	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7
New York	206.9	206.7	207.0	207.1	206.8	206.9	206.9	207.1	207.4	206.9	206.9	206.9	207.0	206.8	207.0
North Carolina	204.8	-	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	205.7	205.4	205.7	205.4	205.6
North Dakota	218.8	218.7	218.7	218.7	218.5	218.6	218.5	218.4	218.5	218.5	218.3	218.3	218.3	218.4	218.2
Ohio	204.0	203.9	204.0	203.9	204.1	204.3	204.3	204.2	204.4	204.3	204.6	204.7	204.5	204.8	204.9
Oklahoma	202.2	201.9	201.8	203.3	201.9	202.4	202.5	202.2	203.1	205.7	207.8	207.5	207.5	207.5	209.1
Oregon	212.7	211.3	211.9	212.0	210.0	211.8	211.9	211.7	212.7	212.2	212.7	212.7	211.5	212.8	210.4
Pennsylvania	207.9	206.9	207.0	207.0	206.8	207.3	207.4	207.1	208.8	208.8	207.8	208.4	208.5	206.4	206.9
Rhode Island	210.0	210.3	-	204.8	204.8	205.7	206.9	219.6	204.8	204.8	227.4	-	-	227.4	-
South Carolina	205.0	205.0	205.0	205.0	204.9	205.0	205.1	205.1	205.1	205.0	205.3	205.3	205.3	205.3	205.5
South Dakota	210.5	210.7	209.6	212.7	212.7	212.7	212.6	212.7	212.7	212.7	212.7	212.6	212.7	212.7	212.7
Tennessee	204.8	204.9	204.7	204.3	204.8	204.7	204.6	204.7	204.7	204.8	205.2	205.2	205.5	205.4	205.2
Texas	212.3	212.9	212.9	212.9	213.0	213.1	213.0	213.2	213.3	213.2	212.5	212.1	212.3	212.1	212.1
Utah	205.2	205.3	204.8	205.0	205.1	205.6	206.0	206.2	204.9	204.6	204.2	204.1	204.1	204.6	206.1
Vermont	207.8	207.0	220.3	223.8	226.7	216.3	227.4	226.6	223.8	218.5	226.3	206.2	212.2	205.7	-
Virginia	205.1	205.0	205.0	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.9	205.9	206.2	205.9	206.0
Washington	206.3	207.1	207.1	207.6	205.6	206.1	208.7	209.7	208.9	208.7	207.9	206.6	205.8	205.5	206.1
West Virginia	205.4	205.3	205.3	205.1	205.1	205.5	205.8	205.6	205.4	205.4	206.4	206.5	206.6	206.5	206.8
Wisconsin	205.5	204.9	204.9	205.0	204.6	205.0	205.4	205.6	206.3	206.0	206.1	205.9	206.1	206.5	206.0
Wyoming	212.0	212.2	212.5	212.7	212.7	212.7	212.7	212.6	212.4	212.1	212.2	212.3	212.5	212.6	212.6
U.S. Average[a]	205.9	205.9	206.0	205.9	206.2	206.4	206.5	206.4	206.4	206.6	206.8	206.9	207.1	207.0	207.2

[a] Weighted average. The weights used are consumption values by State.
-=Not applicable.

Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

Table F4. Average Carbon Dioxide Emission Factors for Coal Consumed by Electric Utilities, 1980-1994
(Pounds of Carbon Dioxide per Million Btu)

State	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	205.0	204.8	204.9	205.0	205.0	204.9	205.0	204.9	204.9	204.9	205.1	205.3	205.3	205.3	205.3
Alaska	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	-
Arizona	208.0	208.1	208.0	207.9	207.9	207.8	207.9	208.0	207.8	207.9	207.7	207.7	207.7	207.5	207.5
Arkansas	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	211.0	212.7	212.7	212.7	212.7
California	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	211.5	209.5	209.7	211.0	212.1	212.0	211.9	211.9	210.3	210.3	209.9	209.8	209.8	209.9	209.7
Connecticut	-	-	-	-	204.8	204.8	204.8	204.8	204.8	204.9	204.8	204.8	204.9	205.0	205.0
Delaware	206.0	206.1	206.2	206.4	206.5	206.5	206.1	206.8	206.6	206.7	206.7	206.8	206.9	206.9	207.1
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	204.0	204.1	204.0	204.5	204.4	204.3	204.3	204.4	204.6	204.5	204.5	204.4	204.4	204.5	204.6
Georgia	204.3	204.4	204.4	204.4	204.7	204.7	204.7	204.7	204.8	204.8	205.2	205.2	204.8	205.3	206.2
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	207.1	207.1	206.5	206.6	205.9	206.6	206.6	206.1	206.3	205.8	205.6	205.9	206.2	206.9	207.3
Indiana	204.0	204.2	204.2	204.2	204.3	204.6	204.7	204.5	204.6	205.0	205.4	205.6	205.6	205.8	206.0
Iowa	207.2	208.2	210.3	210.3	210.8	210.2	210.1	210.4	209.9	210.5	210.7	210.8	211.1	211.9	211.5
Kansas	209.2	209.7	210.8	210.9	210.6	210.5	210.7	210.6	210.7	210.8	210.7	210.6	210.9	211.9	211.4
Kentucky	204.0	204.0	204.0	204.0	204.0	203.9	204.1	204.0	204.1	204.0	204.1	204.3	204.1	204.3	204.3
Louisiana	212.7	212.7	212.7	212.6	212.7	212.7	212.9	212.7	212.7	212.7	212.7	212.8	212.9	212.9	212.9
Maine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	206.6	206.7	206.9	207.2	206.9	206.9	207.0	207.1	207.0	207.0	207.2	207.2	207.0	206.8	207.0
Massachusetts	206.4	206.5	206.4	206.5	206.3	206.4	206.5	206.5	206.7	206.4	206.5	206.7	206.8	206.8	206.7
Michigan	206.0	206.6	206.4	207.1	207.1	207.0	207.3	207.8	207.9	208.5	208.7	208.9	208.9	209.1	209.0
Minnesota	212.9	213.0	212.9	213.0	213.3	213.0	212.9	212.9	213.0	213.0	213.0	213.0	213.0	213.0	213.0
Mississippi	204.7	204.8	204.7	204.9	205.0	205.2	204.9	204.9	204.6	204.2	204.2	204.5	204.5	204.8	206.9
Missouri	204.5	204.6	204.4	204.2	204.3	204.4	204.4	204.7	205.4	205.5	205.7	206.2	206.2	208.4	208.7
Montana	213.9	213.8	213.8	214.0	213.7	213.6	213.6	213.6	213.5	213.6	213.5	213.5	213.5	213.6	213.5
Nebraska	211.7	212.2	212.4	212.6	212.2	212.4	212.4	212.6	212.6	212.6	212.7	212.7	212.7	212.7	212.6
Nevada	208.2	207.9	208.1	207.8	207.8	206.3	207.6	207.8	208.2	207.9	207.7	208.0	208.4	208.4	208.4
New Hampshire	206.9	207.1	207.1	207.1	207.1	206.8	206.8	207.0	206.9	206.7	206.7	206.2	206.3	206.3	206.1
New Jersey	206.6	206.6	206.7	206.8	206.9	206.9	206.9	206.9	206.8	206.7	206.7	206.7	206.6	206.7	206.5
New Mexico	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.9	205.7	205.7	205.7	205.7
New York	205.7	205.8	205.8	205.8	206.0	206.1	206.1	206.2	206.0	206.1	206.3	206.2	206.1	206.0	206.0
North Carolina	205.6	205.6	205.8	206.0	205.8	205.8	205.8	205.8	205.8	205.7	205.8	205.8	205.8	205.8	205.8
North Dakota	218.8	213.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	214.9	218.8	218.8	218.8	218.8
Ohio	204.4	204.3	204.5	204.3	204.3	204.3	204.4	204.4	204.5	204.5	204.5	204.4	204.4	204.5	204.6
Oklahoma	210.5	212.5	212.7	212.7	212.7	212.7	212.5	212.1	212.2	212.2	212.1	212.4	212.6	212.7	212.6
Oregon	212.7	212.7	212.7	212.7	212.7	212.7	-	212.7	212.7	212.7	212.7	212.7	212.9	212.4	212.2
Pennsylvania	206.1	206.0	206.1	206.0	205.9	205.9	205.8	206.0	206.1	206.1	206.2	206.2	206.2	206.0	206.0
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	204.9	204.9	205.0	205.0	204.9	204.9	205.0	205.0	205.0	205.0	205.0	205.0	205.0	205.0	205.0
South Dakota	218.1	218.1	218.0	218.8	218.4	218.8	218.8	218.8	218.3	218.8	218.7	218.8	218.8	218.8	218.8
Tennessee	204.0	204.0	204.0	204.0	204.2	204.2	204.0	204.1	204.1	204.2	204.1	204.0	204.0	204.3	204.1
Texas	213.0	212.9	212.8	212.9	212.9	212.9	212.9	212.9	213.1	212.9	212.9	212.9	212.9	212.9	213.1
Utah	204.1	204.1	204.1	204.1	204.1	204.1	204.5	204.3	204.2	204.3	204.3	204.3	204.3	204.3	204.3
Vermont	205.7	205.7	205.7	205.7	205.7	205.7	205.7	-	-	-	-	-	-	-	-
Virginia	205.9	205.7	205.8	206.0	205.7	205.8	206.0	206.0	206.1	205.9	206.0	206.0	206.0	205.9	205.9
Washington	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.8	209.0	209.2	209.0	208.7	209.3	209.4	209.2
West Virginia	206.9	206.9	207.0	207.0	207.0	207.0	207.1	207.1	207.2	207.0	206.9	207.1	207.0	207.1	207.1
Wisconsin	207.0	208.0	207.7	207.8	207.8	208.6	209.3	209.2	209.3	209.5	209.8	209.7	209.9	210.7	210.4
Wyoming	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.6	212.0	212.0	212.0	212.0	211.9
U.S. Average[a]	206.7	206.9	207.0	207.1	207.1	207.3	207.3	207.3	207.6	207.5	207.6	207.7	207.7	207.8	207.9

[a] Weighted average. The weights used are consumption values by State.
– =Not applicable.

Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

Table F5. Average Carbon Dioxide Emission Factors for Total Coal Consumed, 1980-1994
(Pounds of Carbon Dioxide per Million Btu)

State	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alabama	205.1	205.0	205.0	205.0	205.1	205.0	205.1	205.0	205.0	205.0	205.3	205.4	205.4	205.4	205.4
Alaska	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.1
Arizona	208.1	208.2	208.2	208.2	208.1	208.1	208.2	208.1	207.9	207.9	207.7	207.7	207.6	207.4	207.5
Arkansas	210.7	211.9	212.0	212.1	212.1	212.3	212.4	212.4	209.5	212.4	212.5	212.5	212.5	212.5	212.5
California	207.5	206.8	206.8	206.4	205.6	204.7	205.0	204.4	204.6	204.7	204.6	204.6	204.1	204.1	204.1
Colorado	211.7	209.9	210.0	211.1	212.1	212.0	212.0	211.9	210.4	210.4	210.0	210.0	209.9	210.0	209.9
Connecticut	226.1	225.6	225.6	221.8	221.4	205.7	205.8	205.5	205.2	205.2	205.1	205.1	205.2	205.5	205.3
Delaware	206.0	206.1	206.2	206.4	206.5	206.4	206.5	206.7	206.6	206.7	206.6	206.7	207.0	206.9	207.1
Dist. of Columbia	205.4	204.9	205.0	205.1	205.3	204.9	205.2	205.1	205.3	205.4	206.4	205.5	206.3	206.4	206.5
Florida	204.0	204.1	204.0	204.5	204.4	204.3	204.3	204.4	204.6	204.5	204.5	204.5	204.5	204.5	204.6
Georgia	204.3	204.4	204.4	204.5	204.7	204.7	204.7	204.8	204.8	204.8	205.2	205.2	204.8	205.3	206.1
Hawaii	-	-	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4	204.4
Idaho	210.7	211.2	211.5	210.9	210.6	211.1	210.7	211.6	210.6	211.2	211.1	211.1	211.3	210.5	211.4
Illinois	206.7	206.8	206.2	206.3	205.7	206.2	206.2	205.7	205.8	205.4	205.4	205.8	205.9	206.5	206.9
Indiana	204.3	204.4	204.3	204.3	204.4	204.6	204.7	204.5	204.6	204.8	205.4	205.5	205.5	205.7	205.9
Iowa	207.0	207.8	209.4	209.4	209.8	209.2	209.1	209.3	209.0	209.4	209.7	209.9	210.7	211.3	211.0
Kansas	209.0	209.3	210.4	210.6	210.4	210.2	210.5	210.4	210.5	210.6	210.6	210.5	210.8	211.8	211.3
Kentucky	204.1	204.1	204.1	204.1	204.1	204.0	204.2	204.1	204.2	204.2	204.3	204.4	204.2	204.4	204.4
Louisiana	212.1	210.3	211.7	212.1	212.1	212.2	212.6	212.3	212.6	212.4	212.4	212.7	212.8	212.8	212.8
Maine	207.9	211.0	207.1	207.1	207.4	208.8	206.7	207.6	207.6	206.0	207.8	205.6	205.3	205.3	205.1
Maryland	206.3	206.5	206.5	206.7	206.5	206.5	206.6	206.7	206.7	206.7	207.1	207.1	207.1	207.0	207.1
Massachusetts	207.6	208.2	206.8	206.9	206.7	206.8	206.8	206.8	206.8	206.6	206.6	206.8	206.9	206.9	206.8
Michigan	205.7	206.2	206.1	206.6	206.6	206.6	206.8	207.4	207.4	208.0	208.2	208.5	208.5	208.7	208.5
Minnesota	212.7	212.8	212.8	212.9	213.1	212.6	212.5	212.7	212.9	212.8	212.9	212.9	212.9	212.9	212.8
Mississippi	204.7	204.8	204.7	204.9	204.9	205.1	204.8	204.8	204.5	204.2	204.2	204.4	204.5	204.8	206.7
Missouri	204.5	204.5	204.4	204.1	204.2	204.4	204.4	204.7	205.3	205.4	205.6	206.0	206.1	208.1	208.5
Montana	213.7	213.5	213.4	213.7	213.5	213.5	213.6	213.6	213.5	213.5	213.5	213.5	213.5	213.5	213.5
Nebraska	211.7	212.2	212.5	212.6	212.2	212.4	212.4	212.6	212.6	212.6	212.7	212.7	212.7	212.7	212.6
Nevada	208.1	207.7	208.0	207.7	207.7	206.2	207.6	207.7	208.1	207.9	207.6	207.9	208.3	208.3	208.3
New Hampshire	207.0	207.3	207.6	207.3	207.3	207.2	207.1	207.2	207.1	206.9	207.1	206.5	206.5	206.3	206.2
New Jersey	207.1	207.3	207.6	207.7	207.6	208.2	207.6	207.3	207.1	206.9	206.9	206.9	206.8	206.8	206.7
New Mexico	205.7	205.8	205.8	205.8	205.8	205.8	205.8	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.8
New York	206.3	206.3	206.5	206.4	206.5	206.6	206.5	206.5	206.4	206.4	206.5	206.5	206.5	206.5	206.4
North Carolina	205.6	205.6	205.7	205.9	205.7	205.7	205.7	205.6	205.6	205.6	205.8	205.8	205.8	205.7	205.8
North Dakota	218.8	214.1	218.8	218.8	218.7	218.7	218.7	218.7	218.7	218.7	218.6	218.6	218.6	218.7	218.6
Ohio	204.5	204.4	204.5	204.4	204.3	204.4	204.5	204.4	204.6	204.5	204.7	204.6	204.6	204.6	204.8
Oklahoma	210.0	211.5	211.9	212.2	212.0	211.9	211.8	211.5	211.8	211.9	211.9	212.1	212.3	212.3	212.5
Oregon	212.5	212.4	212.5	208.3	211.9	212.4	211.9	212.3	212.6	212.4	212.7	212.7	212.8	212.4	212.1
Pennsylvania	206.4	206.4	206.5	206.3	206.3	206.2	206.2	206.3	206.5	206.5	206.6	206.7	206.7	206.4	206.4
Rhode Island	217.2	222.8	227.4	223.0	223.7	217.9	210.1	226.6	205.3	207.5	227.3	227.4	227.4	227.3	227.4
South Carolina	204.9	204.9	205.0	205.0	204.9	205.0	205.0	205.0	205.0	205.0	205.0	205.0	205.0	205.1	205.1
South Dakota	217.6	217.3	216.6	218.0	218.0	217.8	217.7	217.1	217.7	217.9	218.0	217.9	217.9	217.7	217.5
Tennessee	204.1	204.1	204.1	204.1	204.3	204.3	204.1	204.2	204.2	204.3	204.3	204.2	204.2	204.5	204.3
Texas	212.8	212.9	212.8	212.9	212.9	212.9	212.9	212.9	213.1	212.9	212.9	212.9	212.9	212.9	213.0
Utah	205.7	205.7	205.2	205.3	205.6	205.6	204.9	204.3	204.8	204.8	204.6	204.4	204.4	204.4	204.5
Vermont	216.0	218.3	213.1	208.4	212.7	209.2	216.6	227.1	226.3	222.7	227.1	215.2	216.8	226.9	227.2
Virginia	205.7	205.5	205.5	205.8	205.5	205.6	205.7	205.8	205.8	205.7	206.0	206.0	206.1	205.9	205.9
Washington	208.3	208.4	208.3	208.4	208.3	208.3	208.7	208.8	208.9	209.1	208.9	208.6	209.1	209.3	209.1
West Virginia	206.6	206.6	206.8	206.8	206.8	206.8	206.9	206.9	206.9	206.7	206.9	207.0	207.0	207.0	207.1
Wisconsin	206.8	207.5	207.2	207.4	207.4	208.1	208.8	208.8	208.9	209.1	209.4	209.3	209.5	210.3	209.9
Wyoming	212.6	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.6	212.0	212.1	212.1	212.1	212.0
U.S. Average[a]	206.5	206.7	206.9	207.0	207.0	207.1	207.1	207.2	207.3	207.3	207.4	207.5	207.6	207.7	207.8

[a] Weighted average. The weights used are consumption values by sector and State.
- =Not applicable.

Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

Appendix G

Summary of Changes Since the *State Energy Data Report 1993*

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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. The constraint of page size in *SEDR* does not allow for all 35 years of SEDS data to be included in the published tables. Data for 1961 through 1964 and 1966 through 1969 are not shown in the tables. Those data are included on the personal computer diskettes and would be covered by this section of documentation, although no changes were made to those data in this year's update.

The majority of the changes in methodology and to the variable names in this edition of SEDS are due to the incorporation of renewable energy sources in the residential, commercial, industrial, and transportation sectors and the augmentation of renewable data in the electric utility sector for 1990 through 1994. The additional data added approximately 3 quadrillion Btu to the national total consumption each year.

Renewable Energy Sources, 1990 through 1994

Biofuels

Residential and Commercial Sectors. Wood consumption in the residential and commercial sectors combined for 1990 through 1994 are shown in *SEDR* residential sector tables and are identified in the SEDS system with the mnemonics WWHCP (in thousand cords) and WWHCB (in billion Btu). All States are estimated to have some residential and commercial wood consumption; California and New York, are the largest State consumers, together accounting for 19 percent of the U.S. total each year.

Industrial Sector. Wood and waste energy used in the industrial sector is included in SEDS in billion Btu for 1990 through 1994. The corresponding data in physical units are not available because of the variety of energy forms used (e.g., tons, cubic feet, and kilowatthours). All States are estimated to have some industrial use of biofuels, with the exception of the District of Columbia. North Dakota registered a small amount for the first time in 1994. Wisconsin was the largest industrial biofuels consumer followed, in differing order, by Alabama, California, Louisiana, Maine, and Washington during the 5-year period. The U.S. total ranged from 1,943 trillion Btu in 1991 to 2,152 trillion Btu in 1994. Wisconsin's consumption of 166 trillion Btu in 1991 to 184 trillion Btu in 1994 was the largest State industrial sector use of biofuels each year.

Transportation Sector. Ethanol used as an additive to motor gasoline is added to SEDS and shown in *SEDR* tables. The quantities of ethanol consumed are already contained in the motor gasoline data; therefore, the values for ethanol are not added into the transportation sector or total energy consumption totals, and they cause no data revisions.

Electric Utilities. Estimates of wood and waste consumption at electric utilities are now available separately in SEDS from 1982 forward. The data identified as WWEO in SEDS, which had been input into the system, are now the sum of data identified with two new mnemonics, WDEOP, for wood consumption, and WSEOP, for waste

consumption, at electric utilities. Access to the data from the Form EIA-759 database made it possible to obtain additional decimal places of accuracy in 1982, and recalculating the data for 1982 through 1993 caused revisions in the last decimal place for a few States in several years.

Geothermal

Industrial Sector. Geothermal energy used by nonutility power producers to produce electricity is included in SEDS industrial sector consumption in billion Btu for 1990 through 1994. The corresponding data in million kilowatthours are not available. California, Hawaii, and Nevada are the three States with industrial geothermal energy use. Each State's geothermal-based electricity production has increased each year, causing the U.S. total to increase from 146 trillion Btu in 1990 to 212 trillion Btu in 1994. Although California's portion was the largest, that share decreased other the period from 86 percent of the U.S. total in 1990 to 82 percent in 1994.

Electricity Imports. Prior to 1990, all electricity imports and exports are assumed to be hydroelectric in origin. Beginning with the 1990 data, imports of electricity based on geothermal energy in Mexico and imported into California are identified separately. These quantities range from 538 thousand kilowatthours in 1990 to 1,172 thousand kilowatthours in 1994.

Hydroelectric Power

Industrial. Data on the industrial use of hydroelectric power in SEDS for 1960 through 1978 are collected by the Federal Power Commission. The data for 1979 and 1980 are estimated on the basis of the 1978 data. The estimates for 1980 are repeated each year for 1981 through 1989. In this edition of SEDS, beginning with the 1990, data on industrial hydroelectric power use are collected from nonutility power producers on Form EIA-867. The data are entered in SEDS in billion Btu and the comparable values in million kilowatthours are not available. For 1990 through 1993, California, Maine, and New York were the three largest users of hydroelectric power in the industrial sector among the 32 States reporting some industrial use. In 1994, North Carolina reported the largest industrial electricity generation from hydropower, 20 trillion Btu of the U.S. total of 136 trillion Btu. Nonutility power production from hydroelectric power in the nation as a whole has grown each year from 82 trillion Btu in 1990.

Electric Utilities. Although estimates of electricity produced from hydroelectric power at electric utilities are not changed in SEDS, the portion of the hydroelectricity that is generated from pumped storage hydroelectric power is now identified separately from conventional hydroelectric power for 1990 forward. The data series identified as HYEO in SEDS, which had been input into the system, is now the sum of two data series identified as HPEO (hydroelectricity from pumped storage) and HVEO (conventional hydroelectricity). Recalculating the data for 1990 through 1993 caused revisions in the last decimal place for a few States in several years.

Electricity Imports and Exports. Prior to 1990, all electricity imports and exports are assumed to be hydroelectric in origin. Beginning with the 1990 data, electricity produced from hydropower is identified separately from geothermal and nonrenewable energy sources. This change caused revisions to hydroelectricity net imports data for 18 to 22 States in 1990 through 1993. The largest percentage changes occurred in Michigan, Minnesota, and Texas, where large exports of electricity produced from nonrenewable energy sources are no longer being included in the hydroelectricity net imports data.

Solar

Residential and Commercial Sectors. All States and the District of Columbia are estimated to have some solar energy use in the residential and commercial sectors combined for 1990 through 1994. The largest user is estimated to be Florida, with a range of 23 trillion Btu in 1990 to 26 trillion Btu in 1994. Florida's solar energy consumption accounts for 47 percent of the U.S. total in 1990 through 1992 and 48 percent in 1993 and 1994. The next largest user of residential and commercial solar energy is California, consuming from 16 trillion Btu in 1990 to 18 trillion Btu in 1994. Arizona was the third largest residential/commercial solar energy consumer, using about 3 trillion Btu in each of the 5 years.

Industrial. California was the only State with solar energy use reported by the nonutility power producers in the industrial sector for 1990 through 1994. The values, reported in billion Btu because comparable million kilowatthour data are not available, ranged from 7,000 billion Btu in 1990 to a high of 9,219 billion Btu in 1993 and decreased to 8,464 billion Btu in 1994.

Electric Utilities. Although electricity generation from photovoltaic and solar thermal energy at electric utilities has not changed, the data, which were previously combined with wind energy in SEDS, are now available separately from 1984 forward and are identified with the mnemonic SOEO. California was the first State with solar energy use at electric utilities, joined by Virginia in 1988 and by Texas in 1989. Electric utilities in California produced over 80 percent of the solar-based electricity consumed in the United States each year.

Wind

Industrial. Wind energy used by nonutility power producers to produce electricity is included in the industrial sector consumption in billion Btu for 1990 through 1994. The corresponding data in million kilowatthours are not available. California and Hawaii were the only States recording industrial wind use for all 5 years; nonutilities in Oregon reported some wind use in 1990 and 1991; and Minnesota began industrial use of wind energy in 1994. Each State's wind-based electricity production has increased each year, causing the U.S. total to increase from 24 trillion Btu in 1990 to 36 trillion Btu in 1994. California's portion was the largest, accounting for 99 percent of the U.S. total in 1990 through 1993 and 98 percent of the total in 1994.

Electric Utilities. Although electricity generation from wind energy at electric utilities has not changed, the data, which were previously combined with photovoltaic and solar thermal energy in SEDS, are now available separately from 1983 forward and are identified with the mnemonic WYEO. California, Oregon, and Wyoming were the first States with wind energy use at electric utilities. By 1994, Iowa, Kansas, and Minnesota were the only States with electric utilities using wind energy. During the intervening years, electric utilities in Alaska, Montana, North Dakota, Vermont, and Wisconsin tried some use of wind energy for electricity production. Wind energy use at electric utilities peaked at 68 billion Btu in 1984 and decreased to 3 billion Btu by 1994.

Renewable Energy Totals

Renewable energy sources account for about 6 quadrillion Btu of the total energy consumption in SEDS for 1990 through 1994. Of the renewables, approximately 3 quadrillion Btu have been included in the electric utility and transportation sectors in previous editions of SEDS. In this edition, the additional 3 quadrillion Btu, over 75 percent of which are in the industrial sector, are included by energy source. Although estimated consumption of renewable energy for the residential and commercial sectors combined during the 5 year-period peaked in 1992 at 697 trillion Btu, total use of renewables in the U.S. was at the lowest point that year, at 6,097 trillion Btu. Total U.S. consumption of renewable energy peaked in 1993 at 6,397 trillion Btu. Industrial sector renewable use grew steadily from 2,207 trillion Btu in 1990 to 2,544 trillion Btu in 1994.

California ranked the largest in total renewable energy use, having the greatest use of renewables among the States' residential/commercial and industrial sectors. The additional data on renewables consumption caused California's total energy consumption estimates to increase by 5 percent in 1990 and 1991 and 6 percent in 1992 and 1993. Washington was the second largest consumer of renewable energy sources during the 1990-through-1994 period, with its electric utilities using at least 50 percent more than the second-place electric utilities in California. Washington's total energy consumption estimates increased by 6 percent or 7 percent in 1990 through 1993 with the addition of the renewables data. New York was the third-largest consumer of renewable energy sources during the 5-year period because of its residential/commercial sector use, which was second to the residential/commercial sector use in California. New York's total energy consumption was increased by 4 percent each year in the period 1990 through 1993.

The additional renewables consumption data from nonutility power producers caused Maine 's total energy consumption estimates to increase by 40 percent to 42 percent in 1990 through 1993, the largest State increase due to the new renewables data. New Hampshire's residential, commercial, and industrial sectors' additional

renewables data contributed to that State's total energy consumption increase of 14 percent in 1990 and 1991 and 15 percent in 1992 and 1993, the second largest State percentage increase in SEDS. The additional renewables data from nonutility power producers in Wisconsin caused Wisconsin's total energy consumption estimates to increase by 13 percent or 14 percent in 1990 through 1993.

Electricity Sales, 1992 and 1993

All Sectors. Small revisions in electricity sales to all end-use sectors in 1992 and 1993 were made for a few States as published in the EIA *Electric Power Annual (EPA) 1993* and *EPA 1994*, respectively. In 1992, commercial sector sales were revised in Nebraska, New York, and Oklahoma by less than 1 million kilowatthours. In 1993, electricity sales to the commercial sector were revised for nine States, the largest revision being a shift of 4 million kilowatthours from Kentucky to Tennessee. Maryland's commercial electricity sales decreased by 3 million kilowatthours, while New Jersey's increased by 2 million kilowatthours and revisions to the other five States were by less than 1 million kilowatthours in 1993. These revisions affected the SEDS calculations of commercial and transportation sector electricity consumption estimates for all States by amounts too small to be seen in SEDR tables, but they are noticeable in the full precision data on the SEDS personal computer diskettes. Industrial electricity consumption was revised for 7 States in 1992, the largest being a 12--million kilowatthour increase in Tennessee, followed by a 5-million kilowatthour increase in Alabama and 3-million kilowatthour increases in Mississippi and Kentucky. Data on industrial sales of electricity were revised in 5 States in 1993, most notably the 9-million kilowatthour shift from Kentucky to Tennessee, a 7-million kilowatthour increase in Alabama, and a 6-million kilowatthour increase in Maryland. Residential sector sales in 1992 were revised in Nebraska, New York, and Oklahoma by less than 1 million kilowatthours. In 1993, residential electricity consumption was revised for 10 States by 3 million kilowatthours or less, with the exception of the 5-million kilowatthour increase in Alabama.

In addition to the revisions in *EPA* data, preliminary estimates of electricity sales to transit systems in 1993 were finalized by the U.S. Department of Transportation, Urban Mass Transportation Administration. Those changes caused revisions to the transportation and commercial sector in the District of Columbia and the 18 States with transportation electricity use, but the U.S. totals for the two sectors were not affected. The most noticeable revisions were a 16-million kilowatthour shift from the transportation sector to the commercial sector in Pennsylvania and 12-million kilowatthour shifts from the commercial sector to the transportation sector in California and Maryland. The other States' revisions were by 6 million kilowatthours or less.

These revisions to the estimates of electricity use in all end-use sectors caused proportional revisions to the estimated electrical system energy losses for the sectors and total losses and net interstate flow for the affected States.

Electricity Imports and Exports, 1990 through 1994

Electricity imports and exports are assumed to be produced from hydroelectric power in SEDS from 1960 through 1989 and are included in the "Hydroelectric Power" columns in the *SEDR* tables. Beginning with the 1990 data, electricity imports and exports produced from geothermal energy, hydropower, and nonrenewable energy sources are available separately in SEDS. Although the data for total net imports, measured in million kilowatthours, has not changed, the geothermal-based portion is added to data shown in the "Geothermal" columns, the hydropower-based portion is shown in the "Hydroelectric Power" columns, and the remaining nonrenewable-based portion is added into the "Total" columns in the *SEDR* tables. The corresponding values in billion Btu are also combined with data in the three columns, and since the geothermal net imports are converted from million kilowatthours to billion Btu by using the geothermal conversion factor, the sum of the three portions in Btu for each year is slightly different from the previous total Btu value. The electricity imports and exports data are not shown separately in *SEDR* tables or on the personal computer diskettes, but they are available on request. The use of the geothermal conversion factor increases the U.S. total net imports of electricity by amounts ranging from 6 trillion Btu in 1990 to 12 trillion Btu in 1994.

Petroleum Products

Aviation Gasoline, 1993

A data entry error for aviation gasoline consumption by the military in 1993 was corrected in SEDS. The change revises consumption in Alaska from 79 barrels to zero and consumption in Alabama from zero to 79 barrels. The recalculation caused rounding differences in other State data in the last decimal place and all revisions are too small to be seen in the *SEDR* tables due to the level of rounding, but may be noticed in the full precision data on the personal computer diskettes.

Kerosene-Type Jet Fuel, All Years

Although no data changed for kerosene-type jet fuel in SEDS, the name of the State-level data series used to allocate the U.S. total consumption to the States was changed to more accurately reflect the data. JKNMP (kerosene-type jet fuel non-military consumption) was changed to JKTTP (kerosene-type jet fuel total sales). The use of kerosene-type jet fuel by the military has always been included in the data and, as military use increases, the previous name is less representative of the data.

Liquefied Petroleum Gases, 1993

The American Petroleum Institute revised industrial sector sales of liquefied petroleum gases (LPG) for seven States for 1993. The sales increases in Iowa, Illinois, Louisiana, and Mississippi offset the decreases in Kansas, Michigan, and Texas so that the U.S. industrial sector subtotal and the U.S. total sales did not change. The revisions were as large as 79 percent in Illinois and 69 percent in Iowa and as small as 2 percent in Louisiana and 3 percent in Texas.

Other Petroleum Products

Six petroleum products that are components of the "Other" column in the "Petroleum" portion of *SEDR* tables are estimated by using State-level data from the U.S. Department of Commerce, Bureau of the Census, Census of Manufactures, Industry Series. The 1992 Census data, recently available, is used to replace 1987 Census data in the estimation calculations for 1991 through 1993 in SEDS and revisions to the 1987 Census data were incorporated into the calculations for 1986 through 1990 data in SEDS.

U.S. total consumption of petroleum feedstocks, both naphtha and other oils, pentanes plus, and the miscellaneous petroleum products category of numerous products is allocated to the States by using the Census Bureau data for the value added in the manufacture of organic chemicals (OCVAV in SEDS). U.S. total consumption of special naphthas is allocated to the States by using the Census series for the value added in the manufacture of paints and varnishes (PIVAV in SEDS). The Census series used to allocate waxes was redefined to include manufacturing activities not related to waxes. A different Census series considered to be equally representative of waxes consumption is used as the allocating variable CGVAV in SEDS for 1991 through 1994.

The revisions to the 1987 Census allocating series for OCVAV and PIVAV caused revisions to all 33 States in 1986 through 1990 with industrial consumption of these petroleum products. The revisions in 1986 through 1991 were consistent among the States—15 States experienced a 21-percent decrease and the remaining States' revisions were 2 percent or less.

The revisions to estimates for 1991 through 1993, caused by the replacement of the 1987 Census data with the 1992 Census and the use of a different series for allocating waxes, were larger than the revisions for earlier years for the 45 States affected. Three States—Idaho, Maine, and South Dakota—which previously were estimated to have no consumption of these six petroleum products in their industrial sectors, now are estimated to consume small amounts. Vermont, which previously had a small amount, is now estimated to have none. Estimates of consumption in Arizona more than doubled and Kentucky's increased by over 84 percent for 1991 through 1993. Other petroleum products industrial consumption in Nebraska was decreased by 93 percent in the 3 years, while Missouri's consumption decreased by approximately 50 percent and Iowa's decreased by about 40 percent.

Natural Gas

Residential, Commercial, and Industrial Sectors, 1993. The EIA *Natural Gas Annual 1994* published revisions to the 1993 data in the residential, commercial, and industrial sectors. The revisions to Florida and Iowa residential natural gas consumption were less than 1 billion cubic feet. Commercial sector use of natural gas in Florida, Iowa, Kansas, Nebraska, South Carolina, Texas, and West Virginia was revised by less than 1 percent, except for the 22-percent decrease in Texas. Industrial use of natural gas was revised for 1993 in Florida, Iowa, Louisiana, and Nebraska by less than 1 percent. West Virginia's 1993 industrial natural gas consumption was decreased 10 percent, while South Dakota's industrial consumption was increased by 5 percent and use in Texas was increased by 2 percent. The revisions to West Virginia's natural gas consumption caused the estimated average heat content to be revised from 1.064 Btu per cubic foot to 1.065 Btu per cubic foot.

Industrial Sector, 1993. Beginning with the 1993 data, the EIA *Natural Gas Annual (NGA)* publishes the separate components of the previous data series "Lease and Plant Fuel." SEDS 1994 is modified to assign different data identifiers to the separate series, "NGLE" (natural gas consumed as lease fuel) and "NGPL" (natural gas consumed as plant fuel). The combined data for 1960 through 1992, previously identified in SEDS as "NGLP," are now stored under the lease fuel mnemonic "NGLE." *NGA* revisions to the 1993 lease fuel data for Louisiana, South Dakota, and West Virginia were also incorporated into SEDS 1994.

Commercial and Transportation Sectors, 1990 through 1993. Beginning with the 1990 data, the EIA *Natural Gas Annual* published natural gas consumed as vehicle fuel separately. Prior to 1990, vehicle fuel use was reported with commercial sector consumption and could not be separately identified. In this edition of SEDS, the vehicle fuel data, identified as NGVZP, are removed from the commercial sector and are added to the transportation sector for 1990 through 1993. The shift of 255 million cubic feet or less in both sectors of the 37 States reporting natural gas vehicle fuel use may be noticed in the data on the SEDS personal computer diskettes, but they are too small to be seen in *SEDR* tables due to the level of rounding.

Population (TPOPP), 1990 through 1993

The U.S. Department of Commerce, Bureau of the Census resident population estimates for 1990 through 1993 were revised and are available via Internet in greater precision than in previous SEDS for all States, the District of Columbia, and the U.S. total. The incorporation of the new data caused revisions of 0.2 percent or less for all States, the District of Columbia, and the U.S. in all 4 years. These data do not appear in *SEDR* tables but they are included for 1960 through 1994 on the personal computer diskettes and are used in the calculation of the data shown in the "Total Energy per Capita" ranking column of Table 9.

Appendix H

State Data in Other EIA Reports

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State Data in Other EIA Reports

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

Multiple Energy Sources

State Energy Price and Expenditure Report 1993, DOE/EIA-0376(93). Energy prices and expenditures by energy sources within consuming sectors based on the consumption values estimated in the *State Energy Data Report 1993*.

Petroleum

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

Petroleum Supply Annual, Volume 1, DOE/EIA-0340/1. Annual data on production of crude oil; imports of residual fuel by State of entry and sulfur content; refinery, bulk terminal, and natural gas plant stocks of selected petroleum products; number, capacity and production capacity of operable refineries; working storage and shell storage capacities at refineries; and number and production capacity of operable oxygenate plants.

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

Petroleum Marketing Monthly, DOE/EIA-0380. Prices of No. 2 distillate to residences; domestic crude oil first purchase price; refiner/reseller sales prices for conventional, oxygenated, reformulated and unleaded regular, midgrade, premium, and all grades motor gasoline by type of seller; refiner sales prices to end users and for resale of aviation gasoline, kerosene-type jet fuel, kerosene, No. 1 distillate, No. 2 distillate, and No. 4 fuel oil; prices of No. 2 distillate for selected States by seller type and end user; prices of No. 2 fuel oil for selected States by end user; residual fuel oil prices for selected States by sulfur content; refiner sales volumes of motor gasoline by seller and by grade; refiner sales volumes of aviation gasoline, kerosene-type jet fuel, propane, kerosene, No. 1 and No. 2 distillates, and No. 4 and residual fuel oils; and prime supplier sales volumes of motor gasoline by grades, aviation gasoline, kerosene-type and naphtha-type jet fuels, propane, residual fuel oil (by sulfur content), kerosene, No. 1 and No. 2 distillates, and No. 4 fuel oil. The explanatory notes contain Federal and State motor fuel taxes.

Petroleum Marketing Annual, DOE/EIA-0487. Annual and monthly data for prices of No. 2 distillate to residences; domestic crude oil first purchase prices; refiner/reseller sales prices for conventional, oxygenated, reformulated, and unleaded regular, midgrade, premium, and all grades motor gasoline by seller type; refiner sales prices and volumes to end users and for resale of aviation gasoline,

kerosene-type jet fuels, kerosene, No. 1 distillate, No. 2 distillate, and No. 4 fuel oil; sales No. 2 distillate prices for selected States by seller type and end user; sales prices of No. 2 distillate for selected States by end user; residual fuel oil prices for selected States by sulfur content; prime supplier sales volumes of motor gasoline by seller type, grade, and formulation, aviation gasoline, kerosene-type and naphtha-type jet fuels, propane, residual fuel oils (by sulfur content), kerosene, distillate fuel oils, and No. 4 fuel oil. The explanatory notes contain Federal and State motor fuel taxes.

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

Natural Gas

U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, DOE/EIA-0216 (Annual). Crude oil proved reserves and indicated additional reserves, reserves changes, and production; total, nonassociated, and associated-dissolved natural gas proved reserves, reserves changes, and production (wet after lease separation); coalbed methane proved reserves and production; reported reserves of natural gas, wet after lease separation, in nonproducing reservoirs; dry natural gas and natural gas liquids proved reserves, reserves changes, and production; and natural gas plant liquids and lease condensate proved reserves and production. Appendix D contains historic reserves statistics, 1977 forward.

Natural Gas Monthly, DOE/EIA-0130. Marketed production of natural gas; gross withdrawals and marketed production; net withdrawals from underground storage; activities of underground storage operators; deliveries and average prices to residential, commercial, industrial, electric utility consumers; deliveries to all consumers; average city gate prices; and percentage of total deliveries represented by on-system sales.

Natural Gas Annual 1994, Volume I , DOE/EIA-0131(94)/1. Natural gas production, transmission, and consumption balance table; gross withdrawals and marketed production; offshore withdrawals; number of producing wells and gas condensate wells; estimated total dry natural gas proved reserves; wellhead value and marketed production; natural gas processed, liquids extracted, and estimated extraction loss; interstate movements and movements across U.S. borders; additions to and withdrawals from gas storage; underground storage capacity; supplemental gas supplies; consumption of natural gas; number of consumers and quantity of natural gas delivered to consuming sectors, and heat content of total natural gas delivered; natural gas delivered for the account of others to commercial and industrial customers, and electric utilities; firm and interruptible deliveries to consuming sectors; average city gate price; average price of natural gas delivered to consuming sectors including average firm and interruptible prices; average consumption and annual cost per customer for the residential sector; and summary statistics tables for each State. Appendix A contains a comparison of electric utilities consumption data from forms EIA-176 and EIA-759; volumes of natural gas "unaccounted for;" and natural gas processing plant volumes and composition of liquids extracted, extraction losses, and estimated heat content of extraction losses.

Natural Gas Annual 1994, Volume 2, DOE/EIA-0131(94)/2, available electronically only. Data for 1967 through 1994 for gross withdrawals and marketed production; number of producing gas and gas condensate wells; average wellhead price, marketed production, and imputed wellhead value; interstate movements and movements across U.S. borders; changes to underground and LNG storage; supplemental gas supplies 1980 through 1994; production, transmission, and consumption balance table; consumption of natural gas; firm and interruptible deliveries to consumers, 1993 and 1994; quantity and number of consumers of natural gas delivered by sector, 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.

Coal

U.S. Coal Reserves: An Update by Heat and Sulfur Content, DOE/EIA-0529. Updates and revisions to the demonstrated reserve base and total inventory of coal sample analyses. Appendix B contains inaccessible and recoverable coal resource factors. Appendix C

contains estimates of demonstrated, accessible, and recoverable reserve base coal by ranges of sulfur content per Btu and type of mining.

Weekly Coal Production, DOE/EIA-0218. Weekly coal production by region and State.

Quarterly Coal Report, DOE/EIA-0121. Coal production; coke and breeze production; domestic distribution by State of origin, to end-use sectors within State of destination, and by method of transportation; foreign distribution by State of origin; coal receipts at electric utility plants—quantities at average price, contract price and spot price, average cost, and sulfur content; destination of coal received at electric utilities by origin; origin of coal received at electric utilities by destination; coal receipts and average price at coke plants and other industrial plants; total coal receipts and consumption; receipts and consumption by residential and commercial sectors, and other industiral plants; coal carbonized at coke plants, and consumed by electric utilities; total coal stocks; stocks at electric utilities, coke plants, other industrial plants, and at producers and distributors; and stocks of coke and breeze at coke plants.

Coal Industry Annual, DOE/EIA-0584. Coal production and number of mines by type of mining, and mine production range; bituminous, subbituminous, lignite, and anthracite production by coal group; acreage, production and royalties from federal and indian leases; underground production by mining method; production by type of mining; production and average mine price and real 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 capacity utilization; average price of coal delivered by end-use sector; average quality of coal received by electric utilities and manufacturing and coke plants; status of recoverable reserves from producing federal leases; year-end producer and distributor stocks; imports received by electric utilities and manufacturing and coke plants; consumption and stocks by end-use sector; estimated emissions from electric generation; coal production trends; and rankings for coal consumption, reserves, and production.

State Coal Profiles, DOE/EIA-0576. Coal deposits, production, and use in the 27 coal-producing States. Estimates of reserves by mining method and sulfur content; production, number of mines, miners, productivity, average mine price of coal, disposition, and consumption for selected years. Appendix A contains production and consumption rankings of States and percent of U.S. total.

Electric Power

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; receipts and average cost of petroleum products by type and sulfur content; receipts of natural gas by type for steam-electric plants with capacity of 50 megawatts or larger; sales of electricity to consuming sectors; revenue from sales to ultimate consumers by sector; and average revenue per kilowatthour by sector.

Electric Power Annual Volume I, DOE/EIA-0348/1. Number of electricity generators and generating capability, by fuel source and by type of generating unit; planned capability additions at electric utilities by energy source; 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 number of consumers by end-use sector; revenue from sales and average revenue per kilowatthour by consuming sector.

Electric Power Annual Volume II, DOE/EIA-0348/2. Sulfur dioxide, nitrogen oxides, and carbon dioxide emissions by type of fossil fuel; number and capacity of generators with environmental equipment by type of equipment for coal-fired generators and for petroleum-and gas-fired generators combined; average quality of fossil fuels burned; average flue gas desulfurization costs; and nonutility electricity supply and disposition for facilities with an installed capacity of 1 megawatt or larger.

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: total heating value and cost of fossil fuels;

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; 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; average sulfur content of coal shipped to electric utilities by State of origin; and origin and destination of coal receipts.

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; and projected generating unit changes and additions, 1995-2004, by company and plant; operable renewable generating units. Appendix C contains jointly owned generating units by company and plant.

Electric Sales and Revenue, 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.

Uranium Industry Annual, DOE/EIA-0478. Surface drilling; distribution of reserves by forward-cost category; mine production of uranium; uranium concentrate production; and employment in the uranium industry.

Renewable Energy

Solar Collector Manufacturing Activity, DOE/EIA-0174 (Annual). Top five in thermal collector manufacturing; destinations of shipments of solar thermal collectors.

Geothermal Energy in the Western United States and Hawaii: Resources and Projected Electricity Generation Supplies 1991, DOE/EIA-0544. Net capacity, generation, and initial date of operation of geothermal generating plants and utilities planned capacity additions and announced projects. Appendix B contains projected capacities of hydrothermal resource sites.

Glossary

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. It is 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: All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Aviation gasoline includes blending components.

Aviation Gasoline Blending Components: Naphthas that are used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, and reformate). Excluded are oxygenates (alcohols and ethers), butane, and pentanes plus.

Barrel (petroleum): A unit of volume equal 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 limitations: 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 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.

Biofuels: Nonfossil biomass energy sources and biomass-derived fuels, which together encompass all energy sources from recent-term organic (plant and animal) matter. Nonfossil biomass energy sources are essentially unprocessed; they are burned or gasified, as received, to produce thermal energy or electricity. Examples are fuelwood, waste wood, garbage, and crop waste. Biomass-derived fuels, on the other hand, result from the processing of biomass energy sources. They may be by-products of industrial or agricultural processes or they may be fuels made from biomass feedstocks. Biomass-derived fuels generally have concentrated energy density and are more easily transported and used. Examples are wood by-products (such as wood chips and dewatered wood liquors), pellets, briquettes, refuse-derived fuel (made from garbage), ethanol (made from crops such as corn), and methanol (made from wood). Different mixes of biofuels are used by each consuming sector. The residential and commercial sectors burn wood and pellets for space heating. The industrial sector's largest biofuel source is combustible by-products used for electricity generation and process steam,

followed in importance by wood chips. The transportation sector uses ethanol as an additive to motor gasoline. Some electric utilities use wood, industrial wood waste, and municipal waste as cofiring or primary fuels.

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. See **Heat Content of a Quantity of Fuel, Gross,** and **Heat Content of a Quantity of Fuel, Net.**

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: A refining process that consists of using a catalyst and heat to break down the heavier and more complex hydrocarbon molecules into lighter and simpler molecules.

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.

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 generation of electricity (gross output measured at generator terminals minus power plant use) by publicly and privately owned electric utilities. Excludes industrial generation of electricity (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 sales for public street and highway lighting and other sales to public authorities, sales to railroads 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 Utility: A corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities for the generation, transmission, distribution, or sale of electric energy, primarily for use by the public, and that files forms listed in the *Code of Federal Regulations*, Title 18, Part 141. Facilities that qualify as cogenerators or small power producers under the Public Utility Regulatory Policies Act are not considered electric utilities.

Electric Utility Sector: The electric utility sector consists of privately and publicly owned establishments that generate, transmit, distribute, or sell electricity primarily for use by the public and that meet the definition of an electric utility. Nonutility power producers are not included in the electric utility sector.

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 nonelectric 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 biofuels, 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.

Ethanol: An anhydrous, denatured aliphatic alcohol (C_2H_5OH) intended for motor gasoline blending.

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.

Fiscal Year: The U.S. Government's fiscal year runs from October 1 through September 30. The fiscal year is designated by the calendar year in which it ends; e.g., fiscal year 1992 begins on October 1, 1991, and ends on September 30, 1992.

Fossil Fuel: Any naturally occurring fuel, such as petroleum, coal, and natural gas, formed in the Earth's crust from long-term organic matter.

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

Heat Content of a Quantity of Fuel, Gross: The total amount of heat released when a fuel is burned. Coal, crude oil, and natural gas all include chemical compounds of carbon and hydrogen. When those fuels are burned, the carbon and hydrogen combine with oxygen in the air to produce carbon dioxide and water. Some of the energy released in burning goes into transforming the water into steam and is usually lost. The amount of heat spent in transforming the water into steam is counted as part of gross heat content but is not counted as part of net heat content. Also referred to as the higher heating value. Btu conversion factors typically used in EIA represent gross heat content.

Heat Content of a Quantity of Fuel, Net: The amount of usable heat energy released when a fuel is burned under conditions similar to those in which it is normally used. Also referred to as the lower heating value. Btu conversion factors typically used in EIA represent gross heat content.

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.

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 this sector range from steel mills to small farms to companies assembling electronic components.

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 branched-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. Excluded are byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Included are all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Lubricants categories are paraffinic and naphthenic.

Methanol: A light, volatile alcohol (CH_3OH) eligible for motor gasoline blending.

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, reformulated motor gasoline, oxygenated motor gasoline, other 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, reformate, benzene, toluene, and xylene). Excluded are oxygenates (alcohols and 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. Natural gasoline 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.

Nonutilities: See **Nonutility Power Producer.**

Nonutility Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns electric generating capacity and is not an electric utility. Nonutility power producers include qualifying cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers) without a designated, franchised service area and that do not file forms listed in the *Code of Federal Regulations*, Title 18, Part 141.

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. Included are 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 that is 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. Marketable petroleum 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: Energy radiated by the sun as electromagnetic waves (electromagnetic radiation) that is converted 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.

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.

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.

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 D975. 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 that 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 industries 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 gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and 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.

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, and air or inert gases added for Btu stabilization.

Transportation Sector: The transportation sector consists of private and public vehicles that move people and commodities. Included are automobiles, trucks, buses, motorcycles, railroads and railways (including streetcars), aircraft, ships, barges, and natural gas pipelines.

Unfinished Oils: All oils requiring further refinery processing, except those requiring only mechanical blending. Included are 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: 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-progress 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. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

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

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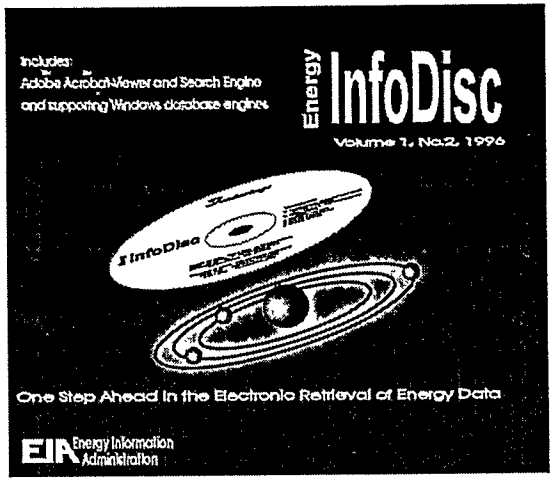

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